2008 State of the Flight Surgeon Preliminary Report

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2008 State of the Flight Surgeon
Survey of Line Commanders

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Introduction

In May 2003, the Surgeon General of the Air Force requested that the president of the Society of USAF Flight Surgeons (SoUSAFFS) provide an annual report capturing the "state of the flight surgeon." This assessment, conducted outside commander channels, would provide an independent assessment of priority areas to guide senior leaders in continued improvements. Analysis of this data constitutes the fourth "State of the Flight Surgeon" report.

Over the past seven years, the Aerospace Medicine Primary Course underwent restructuring and a major course rewrite implementing a distance learning course prerequisite. The Residency in Aerospace Medicine added a Preventive Medicine emphasis area in 1999, relocated the occupational medicine training site from Kelly AFB to Tinker AFB in 2002, and added the required completion of Master's in Public Health and Aerospace Medicine programs. Air Staff has defined the roles of the installation Chief of Aeromedical Services (SGP) with AFPD 48-1 and AFI 48-101. All changes have occurred during the seven-plus years of continuous sustained combat operations and the nearly two decades of continuous worldwide deployment for peacekeeping and combat, while being overshadowed by BRAC and planning for the relocation of the School of Aerospace Medicine to Wright Patterson AFB.

This year's evaluation is a two-year progress report, comparing its results with the benchmark 2006 Line Commanders Survey and assessing the success of training and education programs of flight surgeons and chiefs of aerospace medicine.

Methods

This component of the SoUSAFFS "State of the Flight Surgeon" survey series utilized a number of resources to accomplish, then analyze, a survey of operational line leadership regarding its perceptions of the flight surgeons assigned to, or supporting, operational units. The purpose of the survey was to provide feedback to flight surgeons in the field regarding line perceptions of their performance, and to utilize it as a tool to further enhance current and future education and training emphasis areas. It was designed by a USAF Resident in Aerospace Medicine (RAM) conducted online by using www.surveymonkey.com, and sponsored by the USAF School of Aerospace Medicine. Analysis of the data was accomplished via a cooperative effort between the resident and Eagle Applied Sciences.

This survey targeted commanders of operations groups and squadrons involved in active flying or missile/launch operations. A previous survey in 2006 relied upon reference materials, such as unit level Personnel Accounting System (PAS) files and the Air Force Association Almanac, to construct a comprehensive list of Air Force (AF) units directly supporting major weapons systems. Due to political and logistical obstacles this year, a novel approach using MAJCOM SGPs was employed. MAJCOM SGPs were approached at a meeting of the 2008 Aerospace Medicine Corporate Board at Brooks City-Base, and briefed the purpose and objectives of the survey. MAJCOM SGP support was requested, utilizing them as a communication conduit to their MAJCOM bases. One week later, a survey email invitation was sent to the MAJCOM SGPs, who forwarded it to the base-level SGPs with instructions to disseminate it to base group and squadron commanders.

Due to the compressed time table, the initial survey collection period was set for four weeks. Toward the end of the collection period, a reminder email was sent out to MAJCOM SGPs, extending the survey collection period for one week and requesting that they encourage base commanders to participate in the survey.

The online survey questioned operational line commanders regarding their perceptions of the abilities, capabilities, and mission support of their FSs. The survey questions are contained in Appendix A.

All commanders (CCs) were queried Question Set 1 (QS1) regarding the performance of all their installation flight surgeons (IFS) as a group. The remainder of the questions targeted specific CC types. Commanders were divided into five groups; each assigned specific questions to answer.

The five commander groups are defined: Operations group commanders (OGCC), squadron commanders (SQCC) assigned a squadron medical element flight surgeon (SMEFSCC), SQCC with one attached flight surgeon (1AtFSCC), SQCC with multiple attached flight surgeons (MultFSCC), and SQCC not assigned either an SME or attached flight surgeon (NoFSCC).

Survey Question Sets

Question Set	Questions	Targeted Commander Demographic
QS1	Q1-Q17	All commanders
QS2	Q18-Q30	OGCC
QS3	Q31-Q33	All squadron commanders
QS4	Q34-Q48	SMEFSCC
QS5	Q49-Q58	1AtFSCC, MultFSCC

1. OGCC – Operations group commanders.
   OGCCs directed to answer QS1 and QS2 regarding installation SGP.

SqCC made up the other four groups:

2. SMEFSCC – SqCCs with an assigned squadron medical element (SME).
   SMEFSCCs directed to answer QS1, QS3 and QS4 regarding the assigned SME FS.

3. 1AtFSCC – SqCCs with a solitary squadron attached FS.
   1AtFSCCs directed to answer QS1, QS3, QS5 regarding the attached flight surgeon (AtFS).

4. MultFSCC – SqCCs with more than one squadron attached FS.
   1AtFSCCs directed to answer QS1, QS3, QS5 regarding the multiple attached flight surgeon (MultAtFS).

5. NoFSCC – SqCCs with no assigned or attached FSs.
   NoFSCCs directed to answer QS1 and QS3 only.

The descriptive statistics of commander's responses to questions, QS1-5, are shown graphically in Appendix E.

Each question set is concluded by a "Comments" open response text box, encouraging "further comments, positive, negative or otherwise." Comments are located in Appendix B - OPERATIONS GROUP COMMANDERS – COMMENTS and C - SQUADRON COMMANDERS – COMMENTS.

In addition to the above described commander group routing, several questions required skip logic or filtering. Skip logic is as follows:

Skip Q21 if answered No or Unsure to Q20.
Skip Q13 if answered No or Unsure to Q12.
Skip Q35 if answered No to Q34.
Skip Q46 if answered No or N/A to Q45.
Skip Q50 if answered No to Q49.

The survey collection window spanned March 3 though April 6, 2008. SGPs from nine of the 10 MAJCOMS were contacted. These include: ACC, AETC, AFMC, AFSOC, AFRC, AFSPC, AMC, PACAF, and USAFE. Air Force Cyber Command (AFCYBER), due to its provisional status, was not contacted for survey participation.

Statistical analysis was performed using STATA MP 10.0. Complete results and STATA run files are attached in Appendix D.

Three null hypotheses were established:

1. H_0 - Each of the five commander group's responses would not statistically differ from one another.
2. H_0 - Overall commander group responses would not statistically differ from 2006 and 2008 survey data.
3. H_0 - Commander responses regarding IFS were not influenced by regular and frequent flights by their IFS.

Survey responses used Likert ordinal scales, assigning each response a numerical value. Most-favorable responses were coded a value of 1 and each less-favorable ordered response

The format of a typical five-level Likert item is:

1. Superior
2. Excellent
3. Good
4. Fair
5. Poor

was given a whole number value sequentially greater than one.
In statistical comparisons, the higher a question's mean score by a commander group, the less favorable impression of the flight surgeon's performance. This is reflected in the group-mean distribution plots. Groups with the higher deflections have least-favorable opinions.

Surveys where individuals did not identify themselves in Q17 as either a Group CC or Squadron CC, or who failed to identify what kind of squadron they commanded in Q33, were dropped from analysis.

Most of the qualitative questions had a "no opinion" response option. These responses were reflected in the descriptive and graphical statistics; however, they were excluded during statistical analysis.

QS1 graded the installation flight surgeons as a group, regarding their knowledge, skills, delivery of aeromedical services, and support of the operational mission. Variation among each of the five commander groups' responses was examined using Kruskal Wallis test (KWALLIS).

KWALLIS was also used to compare the OGCC, SMEFSCC, and 1AtFSCC responses; assessing the CCs' impressions of SGP, SME and solo ATFSs funds of knowledge respectively, regarding: operational issues, flight safety, occupational health and medical knowledge/practice (Q28_1-4, Q44_1-4, Q57_1-4, respectively). This analysis assessed for differences in CC's perception of their own FS in these specific knowledge areas.

Scheffe's test was used for pairwise analysis to determine significant differences between each pair combination of the five groups (for QS1) and of the three groups (for the "knowledge questions" in QS2, 4 and 5) on those questions where kwallis showed group differences exceeding the 95% confidence level.

Data from the 2006 State of the Flight Surgeon – Survey of Line Commanders was compared to this survey. Questions were paired and kwallis was used to examine total CC responses from each survey.

Logistical regression was used to calculate odds ratios for QS1. Commander responses were dichotomized into Superior/Excellent vs. Good, Fair, Poor, or into Very Satisfied/Satisfied vs Neutral, Dissatisfied, Very Dissatisfied.

Discrepancies between the 2008 and 2006 surveys included a change in the five-level Likert scale in Q11.1-4, and Q15.1-2. The 2008 survey used: Very satisfied, Satisfied, Neutral, Dissatisfied, Very Dissatisfied; while the 2006 survey use: Superior, Excellent, Good, Fair, Poor. After careful consideration and discussion with the statistics expert from Eagle Applied Sciences, it was determined that each of the five-level Likert scales could be directly compared.

Other discrepancies identified include a change in the three-level Likert scale in Q37, Q38, and Q39. The 2006 report stated the scale was Yes, No, Unsure; however, the actual 2006 survey used Frequently, Occasionally, Never. This error in the 2006 report was propagated to the 2008 survey, thereby rendering analysis between survey years problematic for these questions. Future surveys should use a Frequently, Occasionally, Never Likert scale for Q37, Q38, and Q39.

Results

Of 58 OGCCs identified last year, 39 (67%) returned surveys. Of 188 flying or missile operations SqCCs, 105 (56%) returned completed surveys. Of those, 25 (24% of those with completed responses) reported having an SMEFS assigned, 36 (34%) had one AtFS, 17 (16%) had multiple attached flight surgeons, and 27 (26%) had no SMEFS or AtFS.

PART I. Installation Flight Surgeons (IFS)

Questions 3-15 (Appendix A)

All CCs evaluated, via QS1, performance of all flight surgeons, as a group, assigned to their installations.

IFS – Credibility:

All CCs were queried regarding perceptions of credibility, as physicians and clinicians, of their IFS as a group (Q7). 76% rated them as excellent or better and 27% rated them as a group of superior clinicians. 16% rated them as good, 5% as fair, and 1% as poor. 2% had no opinion.

KWALLIS for Q7 showed no significant difference in responses among CC groups (Table 1). The 2008-2006 survey response KWALLIS analysis shows no significant differences between years (Table 2).

CCs rated their IFS as aircrew. In Q8, 62% of CCs felt their rated personnel respected the IFS as aircrew, at a level of excellent or better, with 21% rating this as superior; 26% responded with a rating of good, 6% fair, and 3% poor; 3% had no opinion.

KWALLIS for Q8 was statistically insignificant (Table 1).

2008-2006 survey response Q8 KWALLIS analysis shows no significant differences between years (Table 2).

IFS were rated very highly in their management of flying status (Q9). 91% of all CCs felt IFS flying status determinations—including the ability of the FSs to balance concerns for flying safety, the manpower needs of mission completion, and good medical care in the process of making those determinations—were “about right”

(neither overly restrictive nor overly permissive). Only one of the 144 CCs felt the IFS were overly permissive; 6% of all CCs felt the flying status determinations were overly-restrictive, and 3% had no opinion. KWALLIS of responses for Q9 showed no significant variance among the CC groups (Table 1) or between 2008-2006 surveys (Table 2).

Only 54% of all CC respondents felt the IFS were the primary care-givers for families of their flyers (Q12); 38% felt the families did not receive their basic medical care primarily at Flight Medicine; 8% were unsure. KWALLIS for Q12 showed a significant variance among the groups ($p<0.03$, Table 1). A one-way Scheffe did not identify any significant intergroup variance.

Comparison between 2008 and 2006 surveys identified a statistically significant ($p<0.0001$, Table 2) decrease in families of flyers receiving basic medical care at Flight Medicine. In 2006, 75% of families of flyers received basic medical care at flight medicine, decreasing to 54% in 2008.

CCs answering "yes" to Q12 were presented with Q13, asking as to the quality of care the flyers' families receive from the IFS. CCs answering "no" or "unsure" to Q12 were routed past Q13 to Q14.

In Q13, 77% felt the quality of care the IFS provided to the flyers' families was excellent or better (up from 67% in 2006), with 22% overall rating this as superior; 23% felt the effort was good, 5% fair, 0% poor, and 0% had no opinion. KWALLIS of responses for Q13 showed no significant variance among the CC groups (Table 1) or between 2008-2006 surveys (Table 2).

IFS – Flying:

In Q6, 68% of all CCs reported that their IFS were flying regularly and frequently; 20% felt they were not and 12% were unsure.

Only 41% of the NoFSCCs reported installation flight surgeons, as a group, were flying regularly and frequently (with any flying unit). Other CC groups estimated IFS flying frequency ranging between 64% to 84%. KWALLIS for Q6 no significant variance among the CC groups (Table 1) or between 2008-2006 surveys (Table 2).

IFS - Flight Surgeon Knowledge:

All CCs were presented with QS1, which regarded their opinions on IFS as a group. Respondents were asked their opinions of their IFS mastery of four areas of depth and breadth of knowledge: operational issues, flight safety issues, occupational health, and medicine and medical practice. They rated their impressions on a scale of Very Satisfied, Satisfied, Neutral, Dissatisfied, Very Dissatisfied, or No Opinion.

IFS knowledge of operational medicine (Q11_1) had 88% of all CCs rating them at satisfied and better, 6% neutral, 5% as dissatisfied or worse, and 1% with no opinion.

IFS knowledge of flight safety (Q11_2) had 91% of all CCs rating them a satisfied or better, 5% neutral, 1% very dissatisfied, and 3% with no opinion.

IFS knowledge of occupational health (Q11_3) had 90% of all CCs rating them a satisfied or better, 6% neutral, 2% dissatisfied or worse, and 2% with no opinion.

IFS knowledge of medicine and medical practice (Q11_4) had 95% of all CCs rating them a satisfied or better, 3% neutral, and 2% dissatisfied or worse.

KWALLIS of responses for Q11_1, Q11_2, Q11_3, and Q11_4 showed no significant variance among the CC groups (Table 1).

KWALLIS of the same question above between 2008 and 2006 surveys showed a significant ($p = 0.0001$, Table 2) improvement of commander satisfaction regarding IFS mastery of the four areas of depth and breadth of knowledge: operational issues, flight safety issues, occupational health, and medicine and medical practice.

IFS – Readiness:

All CCs were asked to rate their satisfaction with level of preparedness demonstrated by their IFS for mishap response and investigation (Q14_1), and response to other types of casualties (Q14_2).

In Q14_1, 69% (58% in 2006) were satisfied or very satisfied with IFS mishap response and investigation preparedness, of which 38% were very satisfied. Approximately 10% were neutral and 2% were either dissatisfied or very dissatisfied with IFS preparedness. No opinion was reported in 18% of respondents.

In Q14_2, 68% (48% in 2006) were satisfied or very satisfied with IFS other casualty response preparedness, of which 37% were very satisfied. Approximately 10% were neutral and 2% were either dissatisfied or very dissatisfied with IFS preparedness. No opinion was reported in 20% of respondents.

KWALLIS of responses for Q14_1 and Q14_2 showed no significant variance among CC groups (Table 1); however, statistically significant ($p<0.000$, Table 2) differences between 2008-2006 surveys exist in both Q14_1 and Q14_2, showing an increased CC satisfaction of IFS mishap response and investigation and other casualty response preparedness.

IFS – Communication Skills and Efforts:

In Q10, 79% (74% in 2006) of responding CCs rated the communication skills and efforts of their IFS as excellent or better. This broke down to: 32% superior, 47% excellent, 15% good, 4% fair, 1% poor; 1% had no opinion.

KWALLIS of responses for Q10 showed no significant variance among the CC groups (Table 1) or between 2008-2006 surveys (Table 2).

IFS – Briefings:

Responding CCs were asked how often their IFS speak to their personnel at safety briefings, Commanders Calls, and other appropriate venues (Q3); 95% of all CCs responded with "frequently" or "occasionally." OGCC, SMEFSCCs, and MultiFSCC all reported 100%, while 1AtFSCC reported 94% as "frequent" or "occasionally". Overall, 46% brief frequently, 49% brief occasionally, and only 5% brief never.

Q3 KWALLIS showed no significant variance among the CC groups (Table 1) or between 2008-2006 surveys (Table 2).

Those CCs who said their IFS never briefed were routed to Q6.

In Q5, 77% (77% in 2006) of all CCs felt these briefings to be exceptional and high quality, while 20% felt them to be adequate, and 2% felt them to be marginal or poor quality. Q5 KWALLIS showed no significant variance among the CC groups (Table 1) or between 2008-2006 surveys (Table 2).

In Q4, 90% (93% in 2006) of the CCs who said their IFS briefed at least occasionally felt the briefings had a "positive" or "strongly positive" impact on their operational missions. Q4 KWALLIS showed no significant variance among the CC groups (Table 1) or between 2008-2006 surveys (Table 2).

IFS – Other Impact on Mission:

All CCs rated overall impact of their IFS on flying safety (Q15_1). The response was positive, with 89% rating this as excellent or better; 6% said the impact was "good," 1% fair and 1% poor. The OGCCs and SMEFSCCs put in a strongly positive rating, 94% and 100% rating respectively for the overall impact of their IFS on flying safety as excellent or superior.

Q15_1 KWALLIS showed no significant variance among the CC groups (Table 1). Q15_1 KWALLIS between 2008-2006 surveys was statistically significantly ($p<0.000$, Table 2), with 2008 IFS impact on flying safety considered more favorable than 2006.

CCs rated the overall impact of IFS on mission completion. The response was positive, with 89% rating this as excellent or better; 6% said the impact was "good," 1% fair, and 2% poor. The SMEFSCCs and 1AtFSCC put in a strongly positive rating: 96% and 94% rating, respectively for the overall impact of their IFS on mission completion as excellent or superior.

Q15_2 KWALLIS showed no significant variance among the CC groups (Table 1). Q15_2 KWALLIS between 2008-2006 surveys was statistically significant ($p<0.000$, Table 2), with 2008 IFS impact on mission completion considered more favorable than 2006.

IFS - Flying influencing Commanders Ratings

Statistical evaluation was performed to see if IFS who fly regularly and frequently were rated more favorably by their commanders than those who do not in QS1. Odds ratio results for 2006 and 2008 datasets (Table 3) demonstrated more favorable commander ratings of IFS who fly in: Q7 - Credibility as a physician/clinician, Q8 - Level of respect as aircrew, Q10 - Communication skills and efforts, Q11 Depth and Breadth of knowledge in: Operational Issues, Flight Safety, Occupational Health, Medicine and Medical Practice; Q14 - Demonstrated preparedness in: Mishap response/investigation, Other casualty response; Q15 - IFS impact on: Flying safety, and Mission Completion.

IFS who flew regularly and frequently were 2.65 - 8.05 ($p<0.05$) times more likely to be rated by their commander as Superior or Excellent or Very Satisfied or Satisfied, than those IFS who did not.

PART II. Chief of Aerospace Medicine (SGP)

Questions Q20-Q27, Q29-Q30. (Appendix A)

Ratings of the base-level SGPs were obtained from the responding OGCCs.

SGP – Advisory Support to the OGCC:

OGCCs were asked, "Do you consider your SGP to be your primary aeromedical advisor regarding flight or missile crew medical issues, flying safety, human factors, and human performance enhancement?" 76% said they did; 24% indicated they did not. Of those who did (the others were routed past this item), 93% rated their SGP's performance in this capacity as excellent to superior, with just 17% rating it as good.

KWALLIS showed no significant variance between 2008-2006 surveys.

SGP – Meeting Attendance:

Only 13% of OGCCs reported that their SGPs frequently attend "any" operations group meetings and 51% reported occasional SGP attendance. 31% reported

frequent SGP attendance at Wing Standup and 49% reported occasional attendance. They indicated their impression that 21% of SGPs never attend Wing Standup and fully 36% never see the SGP at their OG meetings.

KWALLIS showed no significant variance between 2008-2006 surveys.

SGP – As Aeromedical Consultant and Advisor to Wing Leadership:

The OGCCs were asked to assess the services the SGP provides to the line as an advisor or consultant on aeromedical issues. They rated the SGP in three components of this role. The responses showed little variance across the items. The first of these represented a first, line-side look at how the SGPs are doing with gap analysis. The OGCCs' ratings are in percentages and are in this order: Superior, Excellent, Good, Fair, Poor, and No Opinion. KWALLIS performed on A-D showed no significant variance between 2008-2006 surveys

A. Please rate your Chief of Aeromedical Services on how well he/she advises wing leadership regarding medical and operational factors that enhances war fighter effectiveness.
   23, 44, 15, 8, 8, 2

B. Please rate the performance of your Chief of Aeromedical Services in identifying gaps in the capabilities of the human weapons system in your wing, and making recommendations or implementing plans to close those gaps.
   18, 36, 23, 2, 8, 13

C. Please rate the performance of your Chief of Aeromedical Services as a consultant to commanders and supervisors regarding aeromedical problems related to aircraft or life support equipment, mission plans, and human performance enhancement.
   15, 51, 18, 0, 10, 5

D. Please rate your Chief of Aeromedical Services' advice to you and your wing leadership regarding medical, environmental, and operational factors that influence war fighter effectiveness and mission completion.
   21, 36, 28, 0, 13, 3

SGP – As a Leader:

67% of responding OGCCs felt their SGPs were very well-prepared, at the excellent to superior level, to lead the other flight surgeons at their installations; 18% rated this at good to fair and 5% had no opinion.

PART III. Squadron Medical Element Flight Surgeon (SMEFS)
Questions Q34-Q43, Q45-Q46. (Appendix A)

SME – Advisory Support to the SqCC and Squadron:

SMEFSCCs were asked, "Do you consider your SME flight surgeon to be your primary aeromedical advisor regarding flight crew medical issues, flying safety, human factors, and human performance enhancement?" Fully 92% said they did; only 8% (one SMEFSCC) indicated they did not. Of those who did, 82% rated their SMEFSs' performance in this capacity as excellent to superior, with 18% rating it as good.

In addition, this question was asked, "Please rate your SME flight surgeon's advice to you and your squadron leadership regarding medical, environmental, and operational factors that influence war fighter effectiveness and mission completion." 73% rated this advice as excellent or superior, 14% good, 0% fair, and 13% had no opinion.

88% advise the squadron personnel at Commanders Calls and flight safety meetings with briefings on aeromedical, flight safety, or general safety topics; 12% do not.

SME – Meeting Attendance:

83% of SMEFSCCs reported that their SMEFSs attended their squadron Commander's Calls, 17% do not; 88% of SMEFSs attend squadron safety briefings frequently; 12% do not.

SME – Leadership and Supervision

73% of SMEFSCCs rated their SMEFSs' performance in providing and arranging medical training for the SME medical personnel as superior or excellent, 9% rated this as good, and 18% had no opinion.

71% felt their SMEFSs' overall supervision of their SME personnel was excellent or better, with 42% rating this as superior; 13% felt it was good, 8% fair or poor, and 4% had no opinion.

SME – Flying:

75% of SMEFSCCs reported their SME to be flying regularly and frequently with their squadrons; 25% indicating this was not the case. However, other response options that might have explained some of the 25% were not offered (e.g., flying N/A to this squadron or SMEFS flying regularly but not with own squadron).

SME – Social Activity Involvement:

In Q43, 67% of SMEFSCCs reported their SMEFSs were frequently involved in squadron social activities, 25% indicated occasional involvement, and 8% (2 of the 24 reporting) said their SMEFS never attended such functions. KWALLIS analysis of Q34 – SME as personal aeromedical advisor, and Q43 – SME attendance in social functions was statistically significant (p=0.043, Table 4). SME who attended social functions were rated more favorably regarding their role as a personal aeromedical advisor.

SME – Deployment Support:

63% of SMEFSCCs indicated their SMEFS had deployed with the squadron, while 13% reported the SMEFS had not. The question was not applicable in 25%. Performance in deployed locations was assessed by having the SMEFSCCs rate the performance of their SMEFSs in four areas. 100% of these ratings were good or better.

The SMEFSCCs were asked how well-prepared the SMEFS were to lead the squadron medical element in-garrison versus in the deployed environment. Preparedness for leadership in deployed location was better than in garrison and was highly statistically significant ($p<0.000$) favoring deployed over in garrison. There were no significant differences in Q47_1 and Q_472 between 2006 and 2008 surveys.

Finally, KWALLIS was performed on Q34 – "Do you consider your SME flight surgeon to be your personal advisor?" and Q37, Q38, Q39, Q42, Q43, and Q45. Statistical significance was found in each of these comparisons (Table 4). SME FS who performed the tasks in Q37, Q38, Q39, Q42, Q43, and Q45 were statistically considered as an aeromedical advisor more often than those who did not perform these tasks.

PART IV. Attached Flight Surgeon (AtFS)

Questions Q49-Q56, Q58. (Appendix A)

AtFS – Advisory Support to the SqCC and Squadron:

Nearly all—92%—of the 1AtFSCCs consider their AtFS to be their personal aeromedical advisor (the same question that was put to the SMEFSCCs and the OGCCs); 8% did not. Of those who did, 93% rated their AtFSs' performance in this capacity as excellent to superior, with 3% rating it as good.

Aeromedical advice to the squadron leadership (the same question that was asked of the SMEFSCCs) was felt to be excellent or superior by 75%, good by 14%, fair by 3%, and 8% had no opinion. Again, this was nearly the same as (just slightly higher than) the ratings of the advice given by the SMEFSs.

37% frequently advise squadron personnel at Commanders Calls and flight safety meetings with briefings on aeromedical, flight safety, or general safety topics; 54% do so occasionally and 8% have yet to do so.

AtFS – Meeting Attendance:

Only 42% of 1AtFSCCs reported that their AtFSs attended their squadron Commanders Calls frequently; 42% reported occasional attendance and 16% never see their AtFS at their Commanders Calls; 50% of AtFSs attend squadron safety briefings frequently, 36% occasionally, and 14% never. Again, the AtFSs appear to be somewhat less involved with these functions than the assigned SMEFSs.

AtFS – Flying:

69% of 1AtFSCCs reported their AtFS to be flying regularly and frequently with their squadrons and 19% said "no." However, this question was slightly different than the corresponding one for the SMEFSs and IFS, as other choices were given to account for those who do not fly regularly with the squadron to which they are attached. Still, an option for "flying regularly but not with this squadron" would have improved the design of the question. 3% said "no, the FS is not on flying status" and 8% felt the question was not applicable to the situation.

AtFS – Social Activity Involvement:

As expected, involvement of the AtFSs in squadron social activities was slightly less than for the SMEFSs. The percentage of 1AtFSCCs reporting that their AtFS never participates was 17% (8 of the 49 reporting), similar to the SMEFSs (8%); 56% reported frequent participation; 28% occasional.

KWALLIS was performed on Q49 – "Do you consider your attached flight surgeon to be your personal advisor?" and Q53, Q55, and Q56. Statistical significance was found in each of these comparisons (Table 4).

PART V. Flight Surgeon Knowledge

Questions Q28, Q44, Q57. (Appendix A)

A second group of questions to evaluate SGP, SMEFS, and AtFS knowledge was administered to the appropriate commanders. The purpose was to see if commanders differed from one another in assessing their own flight surgeon regarding the four "knowledge questions." OGCC evaluated the SGP, SMEFSCC evaluated their SME, and 1AtFSCC evaluated their AtFS.

Asking these same questions in QS2, QS4, and QS5 allowed for this analysis. KWALLIS showed no statistically significant differences between commander types with their respective flight surgeon in the knowledge areas of operations, flight safety, occupational health, and medicine/medical practice questions.

KWALLIS analysis of commander responses comparing 2008 to 2006 surveys showed no statistically significant difference between the two years, with the exception in 1AtFS, Flt Safety, which improved slightly in 2008 (Table 6).

KWALLIS analysis of commander's responses to knowledge questions, comparing IFS and their own FS, was statistically significant in all cases in all cases except for one (1AtFSCC occupational health, p<0.079). Each commander group overwhelmingly perceived IFS knowledge to be superior to their own respective flight surgeon's, with the exception of SMEFSCC Occupational Health, which ranked SMEFS significantly better than IFS (Table 5).

PART VI. Commander Comments

Questions Q16, Q30, Q48, Q8. (Appendix B and C)

Comments were solicited as described in methods section. Tabulation revealed 78 out of the 144 (54%) respondents left at least one comment, 87% of which were overwhelmingly positive. Manning deficiencies were a recurrent theme in 23 of the commanders' comments.

TABLE 1. 2008 KWALLIS by CC group
P-Values for Institution Flight Surgeons

Question	N	Mean	sd	p
3	144	1.583	0.585	0.281
4	136	1.860	0.052	0.802
5	137	2.043	0.063	0.097
6	142	1.444	0.670	0.095
7	139	2.000	0.843	0.495
8	139	2.273	0.984	0.872
9	137	1.950	0.252	0.871
10	143	1.937	0.841	0.707
11.1	141	1.801	0.839	0.648
11.2	140	1.557	0.671	0.769
11.3	140	1.579	0.787	0.768
11.4	144	1.438	0.655	0.400
12	**132**	**0.409**	**0.494**	**0.031**
13	78	2.115	0.806	0.210
14.1	117	1.754	0.845	0.798
14.2	115	1.730	0.841	0.445
15.1	140	1.679	0.752	0.226
15.2	142	1.676	0.830	0.402

TABLE 2. 2008-2006 KWALLIS
P-Values for Institution Flight Surgeons

Question	Year	N	Mean	sd	p	Question	Year	N	Mean	sd	p
3	2008	145	1.048	0.215	0.324	**11.2**	**2008**	**141**	**1.560**	**0.669**	**<0.001**
	2006	158	1.114	0.319			**2006**	**146**	**2.089**	**0.813**	
4	2008	137	1.861	0.608	0.824	**11.3**	**2008**	**141**	**1.582**	**0.785**	**<0.001**
	2006	140	1.829	0.508			**2006**	**146**	**1.945**	**0.803**	
5	2008	137	2.044	0.736	0.104	**11.4**	**2008**	**145**	**1.441**	**0.655**	**<0.001**
	2006	140	2.050	0.638			**2006**	**154**	**1.864**	**0.825**	
6	2008	143	1.441	0.698	0.902	**12**	**2008**	**133**	**0.406**	**0.493**	**0.003**
	2006	158	1.570	0.817			**2006**	**146**	**0.199**	**0.400**	
7	2008	140	2.000	0.840	0.207	13	2008	79	2.114	0.800	0.928
	2006	153	2.140	0.896			2006	114	2.123	0.811	
8	2008	140	2.279	0.982	0.708	**14.1**	**2008**	**118**	**1.737**	**0.842**	**0.005**
	2006	141	2.333	1.019			**2006**	**124**	**2.444**	**1.532**	
9	2008	138	1.949	0.251	0.978	**14.2**	**2008**	**116**	**1.733**	**0.838**	**0.003**
	2006	152	1.947	0.252			**2006**	**117**	**2.453**	**1.506**	
10	2008	144	1.944	0.843	0.849	**15.1**	**2008**	**141**	**1.681**	**0.749**	**<0.001**
	2006	155	1.955	0.824			**2006**	**144**	**2.111**	**0.785**	
11.1	**2008**	**142**	**1.803**	**0.836**	**<0.001**	**15.2**	**2008**	**143**	**1.678**	**0.827**	**<0.001**
	2006	**154**	**2.448**	**0.915**			**2006**	**150**	**2.045**	**0.900**	

TABLE 3. Odds Ratio for more favorable commander rating in IFS who fly regularly and frequently vs IFS who do not

Question	Year	OR	p
Q7 - Credibility as physician/clinician†	**2008**	**4.85**	**<0.001**
	2006	**7.81**	**<0.001**
Q8 - Level of respect as aircrew†	**2008**	**4.40**	**<0.001**
	2006	**3.29**	**0.002**
Q10 - Communications skills and efforts†	**2008**	**4.39**	**0.001**
	2006	**6.75**	**<0.001**
Q11.1 - Depth and Breadth of knowledge in Operational Issues††	**2008**	**3.09**	**0.037**
	2006	**2.65**	**0.005**
Q11.2 - Depth and Breadth of knowledge in Flight Safety Issues††	2008	2.88	0.130
	2006	**3.87**	**<0.001**
Q11.3 - Depth and Breadth of knowledge in Occupational Health††	2008	2.39	0.151
	2006	**4.11**	**0.001**
Q11.4 - Depth and Breadth of knowledge in Medicine and Medical Practice††	2008	4.32	0.098
	2006	**3.98**	**0.001**
Q14.1 - Demonstrated preparedness for Mishap response/investigation††	**2008**	**3.17**	**0.029**
	2006	0.88	0.771
Q14.2 - Demonstrated preparedness for Other casualty response††	**2008**	**5.72**	**0.002**
	2006	0.976	0.944
Q15.1 - Flight surgeons' impact on Flying safety††	**2008**	**8.05**	**0.003**
	2006	**5.25**	**<0.001**
Q15.2 - Flight surgeons' impact on Mission Completion††	**2008**	**4.48**	**0.011**
	2006	**7.69**	**<0.001**

† Odds of being rating (Superior or Excellent) vs (Good, Fair or Poor) in those who fly regularly and frequently vs those who do not.

†† Odds of being rating (Very Satisfied or Satisfied) vs (Neutral, Dissatisfied, Very Dissatisfied) in those who fly regularly and frequently vs those who do not.

TABLE 4. KWALLIS Aeromedical Advisor Q34 & Q49 P-Values for FS

Question	Advisor	N	Mean	sd	p
SMEFS					
37 CC Call	**Y**	**22**	**1.090**	**0.294**	**0.001**
	N	**2**	**2.000**	**0.000**	
38 Flt Safety	**Y**	**22**	**1.045**	**0.213**	**0.000**
	N	**2**	**2.000**	**0.000**	
39 Brief	**Y**	**22**	**1.045**	**0.213**	**0.000**
	N	**2**	**2.000**	**0.000**	
42 Fly	**Y**	**22**	**1.182**	**0.395**	**0.012**
	N	**2**	**2.000**	**0.000**	
43 Social	**Y**	**22**	**1.312**	**0.568**	**0.043**
	N	**2**	**2.500**	**0.707**	
45 Deploy	**Y**	**22**	**1.545**	**0.858**	**0.025**
	N	**2**	**2.500**	**0.707**	
1AtFS					
53 Brief	**Y**	**30**	**1.633**	**0.556**	**0.027**
	N	**5**	**2.200**	**0.837**	
55 Fly	**Y**	**28**	**1.143**	**0.356**	**0.007**
	N	**4**	**1.750**	**0.500**	
56 Social	**Y**	**31**	**1.452**	**0.624**	**0.000**
	N	**5**	**2.600**	**0.894**	

TABLE 5. 2008 KWALLIS IFS-FS and Commander FS P-Values and Means for IFS

Commander Type	Question	IFS Mean	FS Mean	IFS-FS p
OGCC				
	Operational	**1.923**	**2.394**	**<0.000**
	Flt Safety	**1.641**	**2.026**	**<0.000**
	Occupation	**1.692**	**1.888**	**<0.000**
	Medicine	**1.589**	**1.684**	**<0.000**
SMEFSCC				
	Operational	**1.640**	**1.909**	**0.003**
	Flt Safety	**1.480**	**1.590**	**0.004**
	Occupation	**1.560**	**1.545**	**0.015**
	Medicine	**1.360**	**1.428**	**0.010**
1AtFSCC				
	Operational	**1.685**	**1.843**	**0.006**
	Flt Safety	**1.485**	**1.580**	**0.011**
	Occupation	1.441	1.617	0.079
	Medicine	**1.277**	**1.588**	**0.004**

TABLE 6. KWALLIS 2008 v 2006 Knowledge Questions P-Values for Institution Flight Surgeons

Grp/Question	Year	N	Mean	sd	p
SGP					
Operational	2008	38	2.394	1.283	NS
	2006	27	1.963	0.759	
Flt Safety	2008	38	2.026	1.102	NS
	2006	27	1.852	0.817	
Occ Health	2008	36	1.889	0.979	NS
	2006	26	1.769	0.710	
Medicine	2008	38	1.684	1.016	NS
	2006	26	1.769	0.652	
SMEFS					
Operational	2008	22	1.909	0.750	NS
	2006	31	2.065	0.892	
Flt Safety	2008	22	1.591	0.734	NS
	2006	31	1.710	0.739	
Occ Health	2008	22	1.545	0.739	NS
	2006	31	1.387	0.615	
Medicine	2008	21	1.429	0.676	NS
	2006	33	1.455	0.711	
1AtFS					
Operational	2008	32	1,844	0.723	NS
	2006	49	2.142	0.890	
Flt Safety	**2008**	**31**	**1.581**	**0.620**	**0.02**
	2006	**49**	**1.959**	**0.762**	
Occ Health	2008	34	1.618	0.695	NS
	2006	47	1.830	0.732	
Medicine	2008	34	1.588	0.657	NS
	2006	49	1.694	0.683	

Discussion

PART I. Installation Flight Surgeons (IFS)

An overall trend was observed in the descriptive analysis of QS1, which included Q3 through Q15. This set of questions examined the five groups of commander evaluations regarding the installation flight surgeons (IFS) as a group. The null hypothesis was that each of the five groups would rate the IFS the same on each question. Commander's responses did not statistically differ from each other (except for Q12), thereby not rejecting the null hypothesis.

All CC groups reported IFS performance favorably. The presence of flight surgeons associated with a squadron had a positive association with SqCCs' impressions of all the IFS; however, these findings were statistically insignificant.

IFS performance responses were favorable; however, there was a significant portion of CCs who rated the performance as "less than excellent". Ten questions used the five-level Likert scale: Superior-Excellent-Good-Fair-Poor-No opinion. Responses to those questions were dichotomized into "excellent or better" and "less than excellent".

A general trend of poorer ratings by NoFSCCs was seen in questions Q7, Q8, Q10, Q11, Q13, and Q15. In each question, NoFSCCs had a higher mean score (poorer rating) than other commanders. This phenomenon was observed in the 2006 survey; however, it is not statistically significant. Future studies may want to examine what type of squadrons these are, to see if there are factors not being controlled for.

CCs evaluated how their flyers regarded the IFS as aircrew in Q8. 1AtFSCC and MultFSCCs both reported 70% rating of "Excellent of Better" compared to 60% for SMEFSCCs and 56% for NoFSCCs. This finding was consistent with the 2006 survey which found MultFSCCs rated the IFS the highest of the groups, while SMEFSCCs had one of the lowest "superior" totals. This might be due to SME squadron bias, viewing their own FS as superior to IFS as a whole.

Poor or fair ratings as aircrew were found in 13 (9%) of 144 CCs. This is a decrease from the 2006 survey where 17 (11%) of 153 were reported as poor or fair. This is not a statistically significant decrease ($p=0.45$).

Flight surgeons who graduate from the Aerospace Medicine Primary (AMP) program receive no formal flight training. Often, AMP students receive only a single familiarization ride in a two-seat trainer before graduating and functioning as an FS. Learning how to become an aircrew member occurs as "on the job training." Effective communication and crew resource management, as well as familiarity with aircraft control, requires many months or years to accomplish. Aircrew credibility

could be improved by including Medical Officer Flight Familiarization Training (MOFFT) for all FSs attending AMP.

The third null hypothesis - H_0 - Commander responses regarding IFS were not influenced by regular and frequent flights by their IFS was evaluated in questions, Q7, Q8, Q10, Q11, Q14, Q15. Overwhelming statistical significance was observed in both 2008 and 2006 datasets, thereby rejecting this null hypothesis. IFS who flew regularly and frequently were rated more favorably than those IFS who did not, with odds ratios ranged from 2.65 - 8.05 time. **This substantiates the argument that Flight Surgeons should *"participate in regular and frequent flying"*** as our credibility in the flying community is directly linked with our frequency of flying. The next survey might include a question of how many flights per month are performed by FS, to better assess the perception of "regular and frequent flying."

Caring for the flyer, both physically and emotionally, has been a cornerstone of flight medicine. To accomplish this, not only do we need to be competent physicians but we must also tend to the psyche of flyers. Flyers will repress or minimize their own ailments; however, they are greatly concerned about the wellbeing of their family members. Providing excellent medical care for the families is paramount for the flyer to maintain focus on the mission.

It is disturbing to see a decrease in CCs who report their families receive their basic medical care primarily from flight medicine (Q12). In 2006, 75% of CCs reported that flight medicine took care of their families. In 2008, it has significantly dropped to 54% ($p<0.001$). Although operations tempo resulting in FS manning shortages might shoulder some of the blame, it is a trend that must be carefully examined and reversed.

Despite the decrease in flyer's families receiving their primary care at flight medicine, the care that is being provided remains high quality. Over 73% rate the care their families receive as Superior or Excellent, 23% Good, 5% Fair, and 0% Poor. These outstanding ratings speak to the high quality of individuals who are selected to become flight surgeons.

Frequency of IFS safety briefings has not significantly changed since the 2006 survey. IFS are reported to brief frequently 46% of the time, while occasionally briefing 49%, and never briefing 5%. Although there was no significant difference between commander groups, the worst impressions came from the NoFSCCs (44% know of only occasional IFS briefings and 19% report "never"). To correct this, examination of NoFSCCs mission should be conducted, evaluating their operational needs, and customizing safety briefings to meet them. Alternatively, NoFSCCs examination may reveal safety briefing needs are already being met by aerospace physiologists.

PART II. Chief of Aerospace Medicine (SGP)

This was a follow-up survey evaluating the effectiveness of Chief of Aerospace Medicine in their leadership role. Ratings were done by the OGCCs. Overall responses were favorable toward their installations' SGPs.

OGCCs overwhelmingly responded (76%) that they consider the SGP to be their primary aeromedical advisor. Furthermore, 93% rate the SGPs' performance in this advisory role as superior or excellent. This is substantiated in the 2006 survey, which had similar results. Clearly, SGPs are highly regarded in the flying community.

SGPs performance ratings on gap analysis and closure (Q25), and to wing leadership in general (Q27), remained favorable and did not statistically change from 2006 survey results. Of respondents with opinions, both questions had less than 12% as fair or poor ratings.

SGP performance as specialist aeromedical consultants to other commanders and supervisors (Q26) has declined since the 2006 survey. Four OGCCs rated their SGP performance as poor. This significantly right-shifted the question results.

64% and 80% of OGCCs see the SGP at Wing Standup and OG meetings either occasionally or frequently. These numbers compare with 2006 survey results and probably represent reasonable values, as rank and local policy considerations may keep these from ever approaching 100%.

Finally, 71% of OGCCs felt their SGPs showed leadership qualities at excellent or better. Only 16% (6 of 37) rated this as fair or poor. This is a significant right-shift when compared to the 2006 survey, where 93% rated SGP leadership qualities as excellent or better. This decline of perceived leadership should be examined more closely.

PART III. Squadron Medical Element Flight Surgeon (SMEFS) and Solo Attached Flight Surgeon (1AtFS)

SMEFSs were rated by their squadron commanders on a range of topics relevant to the SME function. Having 1AtFSs rated by the squadron commanders of the units to which they were attached was included as a FS group with some similarities to compare the performance of the SMEFSs, as well as to directly evaluate how involved 1AtFSs are in the squadrons to which they are attached. The question sets for these two groups were very similar except for the deployment and SME leadership questions asked of SMEFSCCs that were not relevant to the 1AtFSs.

SMEFSs and 1AtFSs were almost universally perceived as the CCs' primary personal aeromedical advisors (92%). The quality of this advice was rated very

high: 86% and 79%, respectively. This high regard by their CC makes one wonder if an attached FS is merely an SME with a different rater. Are they performing the exact same functions for the squadron?

The similarity between SMEFSs and 1AtFSs continues. Both have a high attendance rate to squadron's Commanders Calls and safety briefings. SMEFSs were reported to attend 83% and 88%, respectively; while 1AtFSs were reported to attend 84% and 86%, respectively.

Nearly 25% of SMEFSs are perceived as not flying regularly and frequently with their squadrons. This may be partly explained by operational flying units where there is no opportunity for the SMEFS to do so, such as A-10 and F-22 squadrons. Present survey limitations prevent further investigation of these results.

Similarly, 21% of 1AtFSs were perceived as not flying regularly and frequently with their attached squadron. This may be due to the type of FS attached to the squadron (e.g., SGP may fly only minimal hours each month due to administrative requirements elsewhere on base).

Aeromedical briefings were reported at 88% for SMEFSs and 92% 1AtFSs, while reported social event participation has been reported at 91% and 84%, respectively.

KWALLIS analysis has identified attending Commander's Calls (Q37), Attending Flight Safety Briefings (Q38), presenting at Aeromedical Briefings (Q39,Q53), Regular and Frequent Flying (Q42, Q55), Attending Social Functions (Q43,Q56), and Deploying with the Squadron (Q45) all positively influence commanders' perceptions regarding their FS being their personal aeromedical advisor (Q34, Q49). What has been preached as common sense—being an active participant in the community you work for will increase your likelihood of success—is now statistically supported through this analysis.

PART IV. Flight Surgeon Knowledge

SGPs, SMEFSs, and 1AtFSs all rated well in the four knowledge areas examined across commander groups: line operations, flight safety, occupational health, and medicine and medical practice. There were no significant differences between FS groups regarding these "knowledge questions." Additionally, with the exception of 1AtFSC in Flt Safety, comparison between survey years was the same. The high markings in knowledge areas are uniformly seen across all three FS types as well as between survey periods. This reflects positively on the quality training we received at AMP, as well as on the quality personnel who become FS.

It is interesting to see that when controlling for commander type, each commander group rated the IFS better than their own FS. This might represent a perceived synergistic effect, where strengths of other FS complement other FS weaknesses.

On the whole, the IFS would collectively have higher competencies than any one individual, but this is pure speculation on the author's part.

PART V. Commanders' Comments

Comments were left by 75 (54%) of the CCs. These were mostly favorable, some very highly so. Many included "best ever" type comments. Seven commanders left negative comments, but these mostly focused on individual "problem" flight surgeons and did not reflect on FSs as a whole. There were 23 (29%) comments expressing concern about FS manning at their installations and its negative impact on the mission.

PART VI. Weaknesses

Weaknesses of this study included an imprecise technique to invite commanders to participate in the survey. Although our response numbers were similar to the 2006 survey, we were unable to accurately calculate a denominator of each commander type. This prevented us from calculating a true survey return rate.

Recommendations for future surveys, if using this MAJCOM SGP approach, would be to start communicating with the MAJCOMs earlier and to request actual OG and squadron commander names. This would track commanders who have participated, allowing for reminders to be sent to those commanders who have not yet responded. Additionally, this would select only Operations Group and Squadron Commanders, the targets of this survey, thereby reducing the number of "Neither OG nor Squadron Commander" responses. Finally, by having a specific commander list, the ability for individuals to submit multiple survey responses would be addressed.

Improved design characteristic for future studies would determine whether the SGP rated by the OGCC is a fully trained Resident of Aerospace Medicine (RAM) or an experienced FS. This would give us another data point to see if there is a statistical difference between the two strata of SGPs, possibly identifying discrepancies between the two as well as lending credibility to the RAM program.

Another design consideration would be to add AFSOC-specific categories to Q32 – Squadron Weapon Systems. Expansion of these would provide better resolution of what types of squadron weapon systems we are serving and would reduce the number of "Other" responses, which is currently capturing these commanders.

Acknowledgements

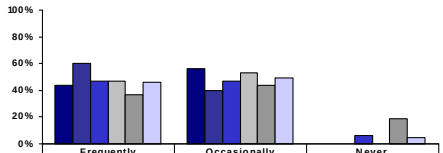
Lt Col Dana Windhorst for providing the 2006 data and documentation.

Major David Duval; who grabbed the RAM by the horns during the author's SERE sabbatical. Duval devised the "SGP Solution" for survey distribution, after encountering countless political obstacles and dead ends. Without his assistance, this survey would still be sitting on a desk.

Special thank you to William Thompson from Eagle Applied Sciences, who reviewed the statistics and encouraged in-depth examination of the data.

Line Support from Installation Flight Surgeons (IFS): Briefings - Q3

- **Do your flight surgeons speak to your personnel at safety briefings, Commanders Calls and other appropriate venues?**



	Frequently	Occasionally	Never
OG CCs	44%	56%	0%
Sq CCs SME	60%	40%	0%
Sq CCs One-FS	47%	47%	6%
Sq CCs Muti-FS	47%	53%	0%
Sq CCs No-FS	37%	44%	19%
All CCs	46%	49%	5%

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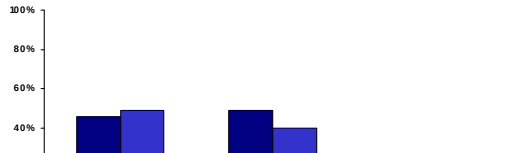
Line Support from Installation Flight Surgeons (IFS): Briefings - Q3 2008 vs 2006

- **Do your flight surgeons speak to your personnel at safety briefings, Commanders Calls and other appropriate venues?**



	Frequently	Occasionally	Never
2008	46%	49%	5%
2006	49%	40%	11%

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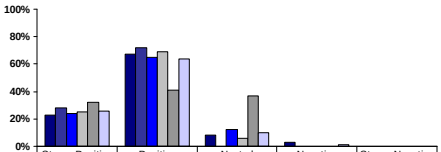
Impact of IFS Briefings on Mission - Q4

- **Please rate the impact of these briefings on your mission.**



	Strong Positive	Positive	Neutral	Negative	Strong Negative
OG CCs	23%	67%	8%	3%	0%
Sq CCs SME	28%	72%	0%	0%	0%
Sq CCs One-FS	24%	65%	12%	0%	0%
Sq CCs Multi-FS	25%	69%	6%	0%	0%
Sq CCs No-FS	32%	41%	37%	0%	0%
All CCs	26%	64%	10%	1%	0%

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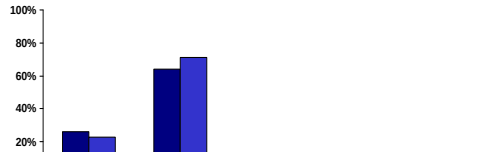
Impact of IFS Briefings on Mission - Q4 2008 vs 2006

- **Please rate the impact of these briefings on your mission.**



	Strong Positive	Positive	Neutral	Negative	Strong Negative
2008	26%	64%	10%	1%	0%
2006	23%	71%	6%	0%	0%

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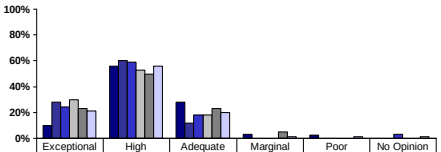
Quality of IFS Briefings - Q5

- **Please rate the overall quality of these briefings**



	Exceptional	High	Adequate	Marginal	Poor	No Opinion
OG CCs	10%	56%	28%	3%	3%	0%
Sq CCs SME	28%	60%	12%	0%	0%	0%
Sq CCs One-FS	24%	59%	18%	0%	0%	3%
Sq CCs Multi-FS	30%	53%	18%	0%	0%	0%
Sq CCs No-FS	23%	50%	23%	5%	0%	0%
All CCs	21%	56%	20%	1%	1%	1%

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Quality of IFS Briefings - Q5 2008 vs 2006

- **Please rate the overall quality of these briefings**

	Exceptional	High	Adequate	Marginal	Poor	No Opinion
2008	21%	56%	20%	1%	1%	1%
2006	18%	59%	23%	0%	0%	0%

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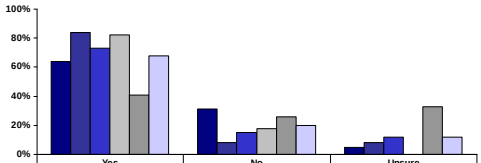
IFS Flying - Q6

- Do your FSs fly regularly and frequently?



	Yes	No	Unsure
Ops CCs	64%	31%	5%
SqCCs SME	84%	8%	8%
SqCCs One-FS	73%	15%	12%
Sq CCc Multi-FS	82%	18%	0%
Sq CCs No-FS	41%	26%	33%
All CCs	68%	20%	12%

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IFS Flying - Q6 2008 vs 2006

- Do your FSs fly regularly and frequently?

	Yes	No	Unsure
2008	68%	20%	12%
2006	64%	15%	21%

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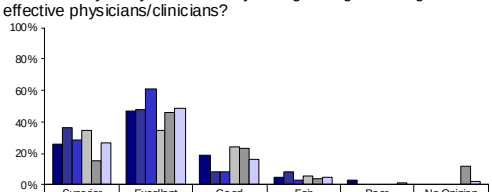
Flyers' Impressions of IFS Clinical Credibility - Q7

- How credible do your flyers consider your flight surgeons as good and effective physicians/clinicians?



	Superior	Excellent	Good	Fair	Poor	No Opinion
OG CCs	26%	47%	19%	5%	3%	0%
Sq CCs SME	36%	48%	8%	8%	0%	0%
Sq CCs One-FS	28%	61%	8%	3%	0%	0%
Sq CCs Multi-FS	35%	35%	24%	6%	0%	0%
Sq CCs No-FS	15%	46%	23%	4%	0%	12%
All CCs	27%	49%	16%	5%	1%	2%

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Flyers' Impressions of IFS Clinical Credibility - Q7 2008 vs 2006

- How credible do your flyers consider your flight surgeons as good and effective physicians/clinicians?

	Superior	Excellent	Good	Fair	Poor	No Opinion
2008	27%	49%	16%	5%	1%	2%
2006	23%	45%	22%	6%	1%	3%

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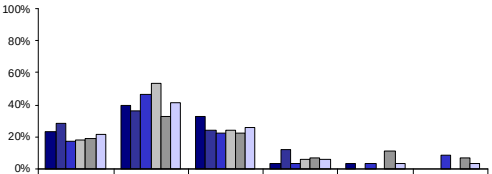
IFS Credibility as Aircrew - Q8

- Please rate your FSs in terms of level of respect accorded them as aircrew



	Superior	Excellent	Good	Fair	Poor	No Opinion
OG CCs	23%	39%	33%	3%	3%	0%
Sq CCs SME	28%	36%	24%	12%	0%	0%
Sq CCs One-FS	17%	47%	22%	3%	3%	8%
Sq CCs Multi-FS	18%	53%	24%	6%	0%	0%
Sq CCs No-FS	19%	33%	22%	7%	11%	7%
All CCs	21%	41%	26%	6%	3%	3%

Integrity - Service - Excellence

IFS Credibility as Aircrew - Q8 2008 vs 2006

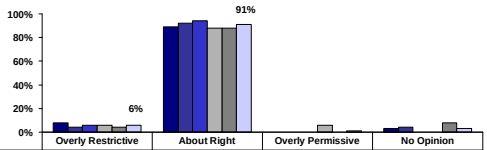
- Please rate your FSs in terms of level of respect accorded them as aircrew

	Superior	Excellent	Good	Fair	Poor	No Opinion
2008	21%	41%	26%	6%	3%	3%
2006	18%	37%	25%	6%	4%	10%

Integrity - Service - Excellence

IFS Determination of Flying Status - Q9

- How 'easy' or 'tough' are your flight surgeons when determining flying status, DNIF or RTFS, when you balance flying safety, the manpower needs of mission completion, and good medical care?

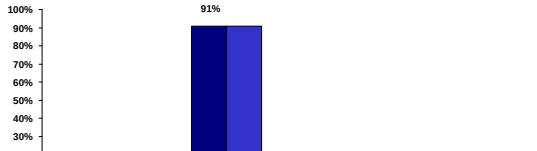


	Overly Restrictive	About Right	Overly Permissive	No Opinion
OG CCs	8%	89%	0%	3%
Sq CCs SME	4%	92%	0%	4%
Sq CCs One-FS	6%	94%	0%	0%
Sq CCs Multi-FS	6%	88%	6%	0%
Sq CCs No-FS	4%	88%	0%	8%
All CCs	6%	91%	1%	3%

Integrity - Service - Excellence

IFS Determination of Flying Status - Q9 2008 vs 2006

- How 'easy' or 'tough' are your flight surgeons when determining flying status, DNIF or RTFS, when you balance flying safety, the manpower needs of mission completion, and good medical care?

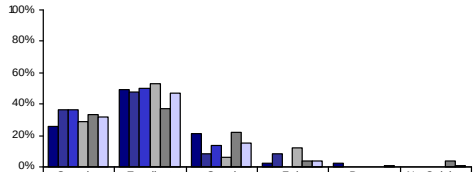


	Overly Restrictive	About Right	Overly Permissive	No Opinion
2008	6%	91%	1%	3%
2006	6%	91%	1%	3%

Integrity - Service - Excellence

IFS Communication - Q10

- Please rate your flight surgeons' communication skills and efforts



	Superior	Excellent	Good	Fair	Poor	No Opinion
OG CCs	26%	49%	21%	2%	2%	0%
Sq CCs SME	36%	48%	8%	8%	0%	0%
Sq CCs One-FS	36%	50%	14%	0%	0%	0%
Sq CCs Multi-FS	29%	53%	6%	12%	0%	0%
Sq CCs No-FS	33%	37%	22%	4%	0%	4%
All CCs	32%	47%	15%	4%	1%	1%

Integrity - Service - Excellence

IFS Communication - Q10 2008 vs 2006

- Please rate your flight surgeons' communication skills and efforts

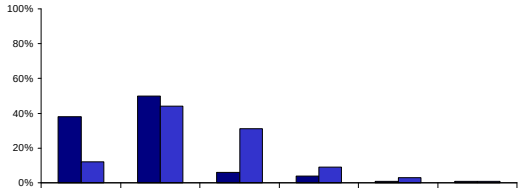
	Superior	Excellent	Good	Fair	Poor	No Opinion
2008	32%	47%	15%	4%	1%	1%
2006	29%	48%	18%	2%	1%	1%

Integrity - Service - Excellence

IFS Knowledge Operational Issues - Q11_1 2008 vs 2006

- Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:

Operational Issue



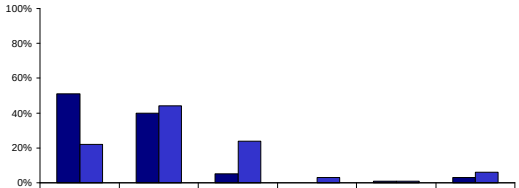
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	No Opinion
2008	38%	50%	6%	4%	1%	1%
2006	12%	44%	31%	9%	3%	1%

Integrity - Service - Excellence p<0.000

IFS Knowledge Flight Safety - Q11_2 2008 vs 2006

- Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:

Flight Safety



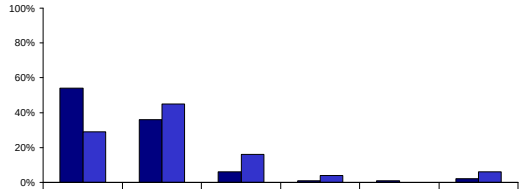
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	No Opinion
2008	51%	40%	5%	0%	1%	3%
2006	22%	44%	24%	3%	1%	6%

Integrity - Service - Excellence p<0.000

IFS Knowledge
Occupational Health - Q11_3
2008 vs 2006

- Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:

Occupational Health



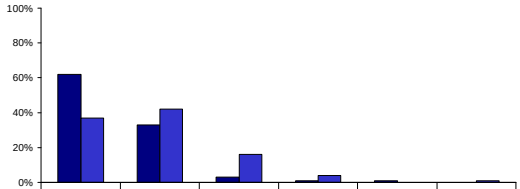
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	No Opinion
2008	54%	36%	6%	1%	1%	2%
2006	29%	45%	16%	4%	0%	6%

Integrity - Service - Excellence p<0.0001

IFS Knowledge
Medicine and Medical Practice - Q11_4
2008 vs 2006

- Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:

Medcine & Medical Practice

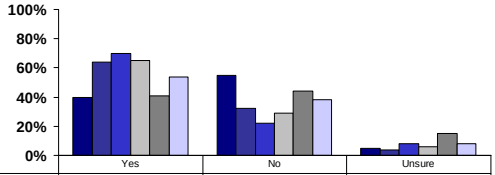


	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	No Opinion
2008	62%	33%	3%	1%	1%	0%
2006	37%	42%	16%	4%	0%	1%

Integrity - Service - Excellence p<0.000

IFS Medical Care of Flyers' Families - Q12

- **Do the families of flyers receive their basic medical care primarily at Flight Medicine?**

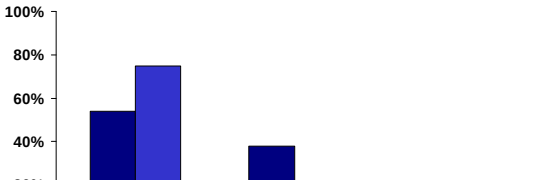


	Yes	No	Unsure
Ops CCs	40%	55%	5%
Sq CCs SME	64%	32%	4%
Sq CCs One-FS	70%	22%	8%
Sq CCs Multi-FS	0.65	0.29	0.06
Sq CCs No-FS	41%	44%	15%
All CCs	54%	38%	8%

Integrity - Service - Excellence

IFS Medical Care of Flyers' Families - Q12
2008 vs 2006

- **Do the families of flyers receive their basic medical care primarily at Flight Medicine?**

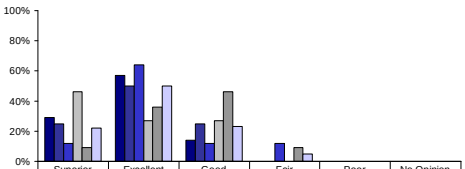


	Yes	No	Unsure
2008	54%	38%	8%
2006	75%	19%	6%

Integrity - Service - Excellence p<0.000

IFS Medical Care of Flyers' Families - Q13

- **How well do your flight surgeons meet the families' health care needs?**

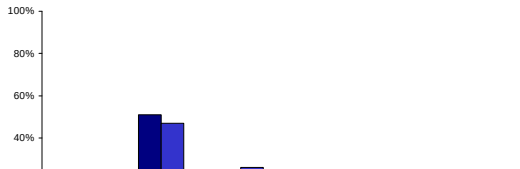


	Superior	Excellent	Good	Fair	Poor	No Opinion
OG CCs	29%	57%	14%	0%	0%	0%
Sq CCs SME	25%	50%	25%	0%	0%	0%
Sq CCs One-FS	0.12	0.64	0.12	0.12	0	0
Sq CCs Multi-FS	46%	27%	27%	0%	0%	0%
Sq CCs No-FS	9%	36%	46%	9%	0%	0%
All CCs	22%	50%	23%	5%	0%	0%

Integrity - Service - Excellence

IFS Medical Care of Flyers' Families - Q13
2008 vs 2006

- **How well do your flight surgeons meet the families' health care needs?**

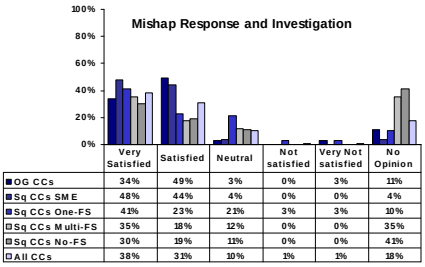


	Superior	Excellent	Good	Fair	Poor	No Opinion
2008	22%	51%	23%	5%	0%	0%
2006	21%	47%	26%	3%	1%	2%

Integrity - Service - Excellence

IFS Readiness – Mishap Response and Investigation - Q14_1

- Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:

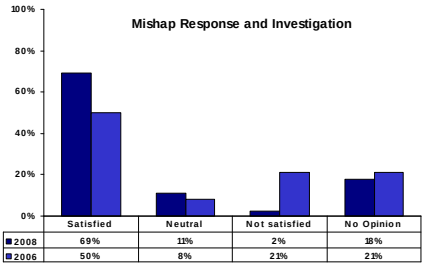


	Very Satisfied	Satisfied	Neutral	Not satisfied	Very Not satisfied	No Opinion
OG CCs	34%	49%	3%	0%	3%	11%
Sq CCs SME	48%	44%	4%	0%	0%	4%
Sq CCs One-FS	41%	23%	21%	3%	3%	10%
Sq CCs Multi-FS	35%	18%	12%	0%	0%	35%
Sq CCs No-FS	30%	19%	11%	0%	0%	41%
All CCs	38%	31%	10%	1%	1%	18%

Integrity - Service - Excellence

IFS Readiness – Mishap Response and Investigation - Q14_1 2008 vs 2006

- Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:

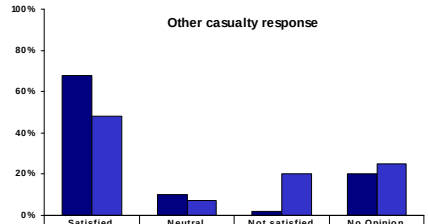


	Satisfied	Neutral	Not satisfied	No Opinion
2008	69%	11%	2%	18%
2006	50%	8%	21%	21%

Integrity - Service - Excellence p<0.000

IFS Readiness – Other casualty response - Q14_2 2008 vs 2006

- Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:

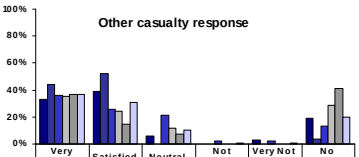


	Satisfied	Neutral	Not satisfied	No Opinion
2008	68%	10%	2%	20%
2006	48%	7%	20%	25%

Integrity - Service - Excellence p<0.003

IFS Readiness – Other casualty response - Q14_2

- Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:

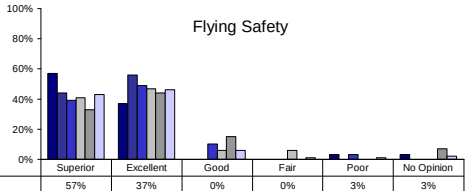


	Very Satisfied	Satisfied	Neutral	Not satisfied	Very Not satisfied	No Opinion
OG CCs	33%	39%	6%	0%	3%	19%
Sq CCs SME	44%	52%	0%	0%	0%	4%
Sq CCs One-FS	36%	26%	21%	2%	2%	13%
Sq CCs Multi-FS	35%	24%	12%	0%	0%	29%
Sq CCs No-FS	37%	15%	7%	0%	0%	41%
All CCs	37%	31%	10%	1%	1%	20%

Integrity - Service - Excellence

IFS Impact on Flying Safety - Q15_1

- Provide your overall rating of your flight surgeons' impact on :

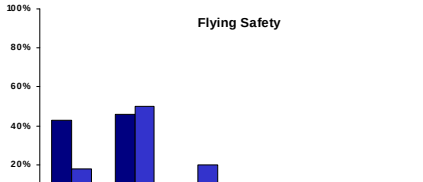


	Superior	Excellent	Good	Fair	Poor	No Opinion
OG CCs	57%	37%	0%	0%	3%	3%
Sq CCs SME	44%	56%	0%	0%	0%	0%
Sq CCs One-FS	39%	49%	10%	0%	3%	0%
Sq CCs Multi-FS	41%	47%	6%	6%	0%	0%
Sq CCs No-FS	33%	44%	15%	0%	0%	7%
All CCs	43%	46%	6%	1%	1%	2%

Integrity - Service - Excellence

IFS Impact on Flying Safety - Q15_1 2008 vs 2006

- Provide your overall rating of your flight surgeons' impact on :

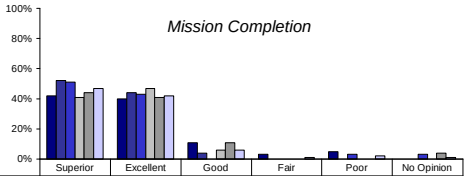


	Superior	Excellent	Good	Fair	Poor	No Opinion
2008	43%	46%	6%	1%	1%	2%
2006	18%	50%	20%	3%	1%	8%

Integrity - Service - Excellence p<0.000

IFS Impact on Mission Completion - Q15_2

- Provide your overall rating of your flight surgeons' impact on :

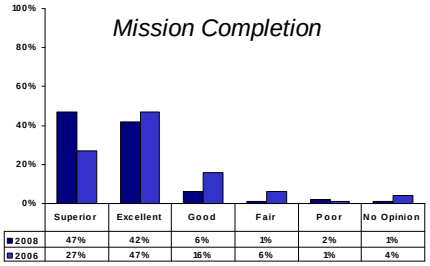


	Superior	Excellent	Good	Fair	Poor	No Opinion
OG CCs	42%	40%	11%	3%	5%	0%
Sq CCs SME	52%	44%	4%	0%	0%	0%
Sq CCs One-FS	51%	43%	0%	0%	3%	3%
Sq CCs Multi-FS	41%	47%	6%	0%	0%	0%
Sq CCs No-FS	44%	41%	11%	0%	0%	4%
All CCs	47%	42%	6%	1%	2%	1%

Integrity - Service - Excellence

IFS Impact on Mission Completion - Q15_2 2008 vs 2006

- Provide your overall rating of your flight surgeons' impact on :



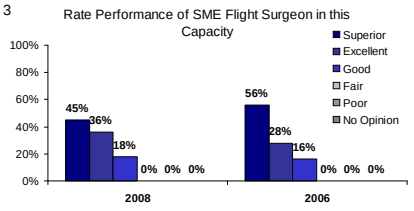
	Superior	Excellent	Good	Fair	Poor	No Opinion
2008	47%	42%	6%	1%	2%	1%
2006	27%	47%	16%	6%	1%	4%

Integrity - Service - Excellence p<0.003

SME FS Support to Sq CC – Q34,35

- Do you consider your SME flight surgeon to be your personal aeromedical advisor regarding flight or missile crew medical issues, flying safety, human factors and human performance enhancement?

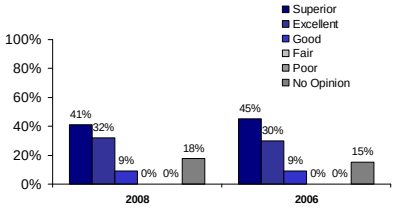
	2008	2006
Yes	92%	97%
No	8%	3



Integrity - Service - Excellence

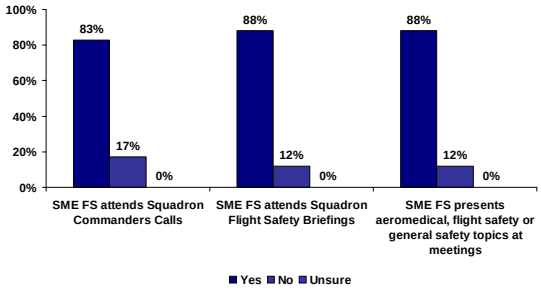
SME FS Unit Training – Q36

- Rate the performance of your SME flight surgeon in providing and arranging medical training for the SME medical personnel



Integrity - Service - Excellence

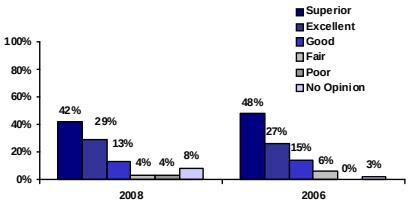
SME FS Safety Briefings / Meeting Attendance – Q37,38,39



Integrity - Service - Excellence

SME FS Unit Supervision – Q41

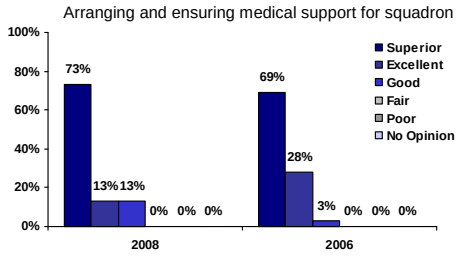
- Rate the performance of your SME flight surgeon in supervising the SME personnel



Integrity - Service - Excellence

SME FS Deployment Support – Q46_1

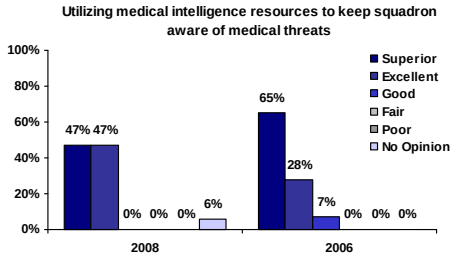
- Rate your SME flight surgeon's performance during deployments in the following areas :



Integrity - Service - Excellence

SME FS Deployment Support – Q46_2

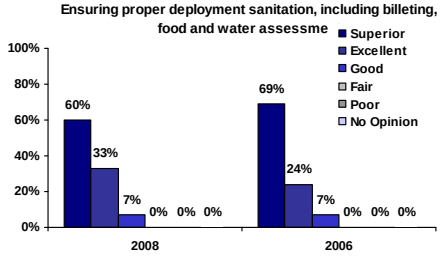
- Rate your SME flight surgeon's performance during deployments in the following areas :



Integrity - Service - Excellence

SME FS Deployment Support – Q46_3

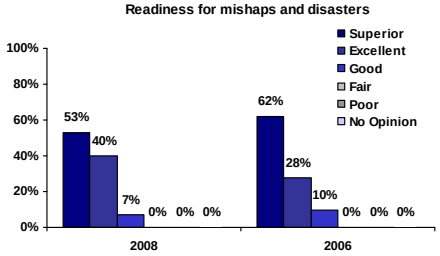
- Rate your SME flight surgeon's performance during deployments in the following areas :



Integrity - Service - Excellence

SME FS Deployment Support – Q46_4

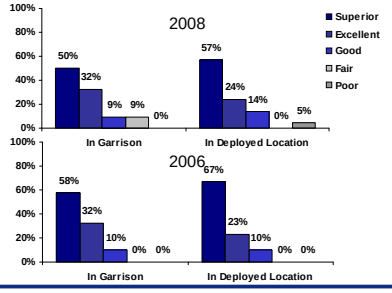
- Rate your SME flight surgeon's performance during deployments in the following areas :



Integrity - Service - Excellence

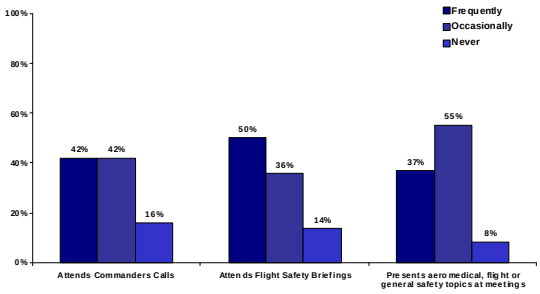
SME FS Leadership In Garrison vs. Deployment – Q47_1, _2

- How well prepared, overall, is your SME Flight Surgeon to lead your SME?



Integrity - Service - Excellence

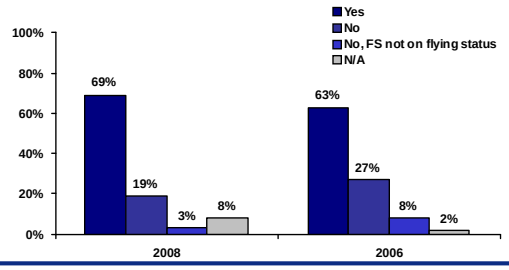
AtFS Safety Briefings / Meeting Attendance – Q51, 52, 53



Integrity - Service - Excellence

AtFS Flying – Q55

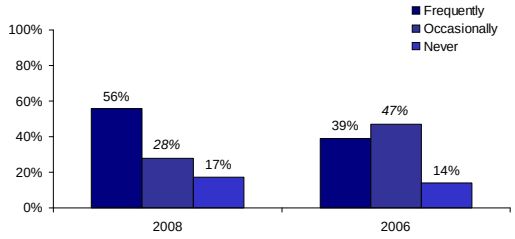
- Does your attached FS fly regularly and frequently with your squadron?



Integrity - Service - Excellence

AtFS Squadron Social Activities – Q56

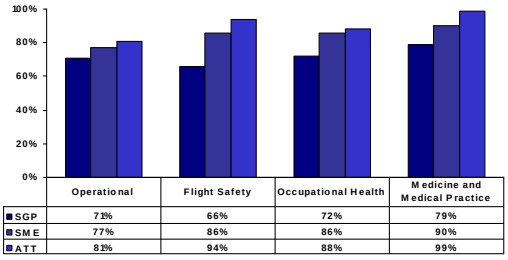
- Is your attached FS involved in squadron social functions?



Integrity - Service - Excellence

FS Knowledge Composite Q28, Q44, Q57

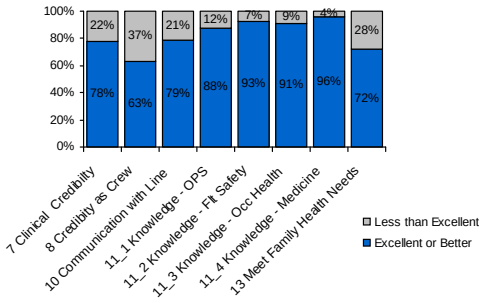
- FS's depth and breadth of knowledge in the following areas reported as percent superior and excellent



	Operational	Flight Safety	Occupational Health	Medicine and Medical Practice
SGP	71%	66%	72%	79%
SME	77%	86%	86%	90%
ATT	81%	94%	88%	99%

Integrity - Service - Excellence

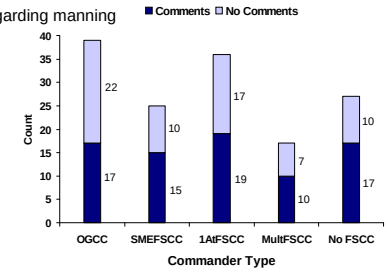
Question Set 1 Summary



Integrity - Service - Excellence

Commander Comments

- 54% (78/144) CC commented
- 87% (69/78) comments positive
- 23 comments regarding manning



Integrity - Service - Excellence

To Lt Col Edgar Rodriguez: who seamlessly converted oxygen into carbon dioxide thereby demonstrating the principles of entropy.
ho seamlessly converted oxygen into carbon dioxide thereby demonstrating the principles of entropy.

List of Appendices

APPENDIX A

Assessment of Flight Surgeon Support of the Line

1. Welcome

The U.S. Air Force is committed to maintaining the readiness of the professional Airmen who serve this nation. The Air Force's ability to consistently answer the call of duty includes a focus on the health of our airmen. Ultimately, it is the health of our force that will maximize readiness and mission success.

The U.S. Air Force School of Aerospace Medicine is partnering with the Air Force Survey Office to gather information from selected line leadership regarding the professional performance of our flight surgeons in the field. We need your help in this partnership.

The survey is completely anonymous and will take 7 to 10 minutes to complete. Your replies will enable the Air Force to better serve its Airmen and maximize force readiness to meet unique mission requirements of the 21st century.

Thank you in advance for your time.

**This survey has been approved by United States Air Force Survey Center. Survey Control Number 08-016

*** 1. Please Enter your survey ID number:**

*** 2. My Operations Group or Squadron operates flying or missile assets and receives Flight Medicine support from an on-installation medical treatment facility.**

- ◯ Yes
- ◯ No

2. Default Section

The first groups of questions apply to all assigned flight surgeons, assessed as a group or average, at your installation.

3. Do your flight surgeons speak to your personnel at safety briefings, Commanders Calls and other appropriate venues?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

4. Please rate the impact of these briefings on your mission.

- ◯ Strong Positive Impact
- ◯ Positive Impact
- ◯ Neutral
- ◯ Negative Impact
- ◯ Strong Negative Impact

Assessment of Flight Surgeon Support of the Line

5. Please rate the overall quality of these briefings.

- ◯ Exceptional Quality
- ◯ High Quality
- ◯ Adequate Quality
- ◯ Marginal Quality
- ◯ Poor Quality
- ◯ No Opinion

6. Do your flight surgeons fly regularly and frequently?

- ◯ Yes
- ◯ No
- ◯ Unsure

7. How credible do your flyers consider your flight surgeons as good and effective physicians/clinicians?

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

8. Please rate your flight surgeons in terms of level of respect accorded them as aircrew.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

9. How 'easy' or 'tough' are your flight surgeons when determining flying status, DNIF or RTFS, when you balance flying safety, the manpower needs of mission completion, and good medical care.

- ◯ Overly Restrictive
- ◯ About right
- ◯ Overly Permissive
- ◯ No Opinion

Assessment of Flight Surgeon Support of the Line

10. Please rate your flight surgeons' communication skills and efforts.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

11. Please rate your installation flight surgeons' depth and breadth of knowledge in the following areas

	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	No Opinion
Operational Issues	◯	◯	◯	◯	◯	◯
Flight Safety Issues	◯	◯	◯	◯	◯	◯
Occupational Health	◯	◯	◯	◯	◯	◯
Medicine and medical practice	◯	◯	◯	◯	◯	◯

12. Do the families of your flyers obtain their basic medical care primarily at the Flight Medicine Clinic?

- ◯ Yes
- ◯ No
- ◯ Unsure

13. How well do your flight surgeons meet the families' health care needs?

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

14. Please rate your level of satisfaction with level of demonstrated preparedness of your flight surgeons for:

	Very Satisfied	Satisfied	Neutral	Disatisfied	Very Disatisfied	No Opinion
Mishap response and investigation	◯	◯	◯	◯	◯	◯
Other casualty response	◯	◯	◯	◯	◯	◯

Assessment of Flight Surgeon Support of the Line

15. Please provide your overall rating of your flight surgeons' impact on ...

	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Disatisfied	No Opinion
Flying safety	◯	◯	◯	◯	◯	◯
Mission completion	◯	◯	◯	◯	◯	◯

16. Are there any comments you wish to make about your flight surgeons, positive, negative or otherwise?

*** 17. Are you...**

- ◯ I am currently, or have been within the last 6 months, an Operations Group Commander
- ◯ I am currently, or have been within the last 6 months, a Squadron Commander
- ◯ I am neither

3. Operations Group Commanders

This group of questions concerns specifically the flight surgeon who is the Chief of Aeromedical Services (SGP) at your installation. This is frequently a different individual than the Aeromedical Squadron Commander, particularly when the latter is not a flight surgeon.

18. How long have you been, or were you, an operations group commander?

- ◯ Less than 6 months
- ◯ 6-12 Months
- ◯ 13-18 Months
- ◯ 19-24 Months
- ◯ Greater than 24 Months

Assessment of Flight Surgeon Support of the Line

19. For which weapon systems are your operations group responsible?

- [ ] Airborne Command and Control
- [ ] Attack/Fighter
- [ ] Bomber
- [ ] Cargo
- [ ] High Performance Trainer
- [ ] Heavy Trainer
- [ ] Reconnaissance
- [ ] Tanker
- [ ] Helicopter
- [ ] Missile and/or Launch Ops
- [ ] UAV
- [ ] Other

20. Do you consider your Chief of Aeromedical Services to be your primary aeromedical advisor regarding flight or missile crew medical issues, flying safety, human factors and human performance enhancement?

- ◯ Yes
- ◯ No
- ◯ Unsure

21. Please rate the performance of your Chief of Aeromedical Services in this capacity.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

22. Does your Chief of Aeromedical Services attend any of your OG meetings?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

Assessment of Flight Surgeon Support of the Line

23. Does your Chief of Aeromedical Services attend Wing Standup?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

24. Please rate your Chief of Aeromedical Services on how well he/she advises wing leadership regarding medical and operational factors that enhance war fighter effectiveness.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

25. Please rate the performance of your Chief of Aeromedical Services in identifying gaps in the capabilities of the human weapons system in your wing, and making recommendations, or implementing plans, to close those gaps.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

26. Please rate the performance of your Chief of Aeromedical Services as a consultant to commanders and supervisors regarding aeromedical problems related to aircraft or life support equipment, mission plans, and human performance enhancement.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

Assessment of Flight Surgeon Support of the Line

27. Please rate your Chief of Aeromedical Services' advice to you and your wing leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

28. Please rate your Chief of Aeromedical Services' depth and breadth of knowledge in the following areas:

	Superior	Excellent	Good	Fair	Poor	No Opinion
Operational Issues	◯	◯	◯	◯	◯	◯
Flight Safety Issues	◯	◯	◯	◯	◯	◯
Occupational Health	◯	◯	◯	◯	◯	◯
Medicine and medical practice	◯	◯	◯	◯	◯	◯

29. How well prepared is your Chief of Aeromedical Services to lead the other flight surgeons at your installation?

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

30. Do you have any further comments, positive, negative or otherwise?

4. Squadron Commander

Assessment of Flight Surgeon Support of the Line

31. How long have (had) you been a squadron commander?

- ◯ Less than 6 months
- ◯ 6-12 Months
- ◯ 13-18 Months
- ◯ 19-24 Months
- ◯ Greater than 24 Months

32. For which weapon system is (was) your squadron responsible?

- ◯ Airborne Command and Control
- ◯ Attack/Fighter
- ◯ Bomber
- ◯ Cargo
- ◯ High Performance Trainer
- ◯ Heavy Trainer
- ◯ Reconnaissance
- ◯ Tanker
- ◯ Helicopter
- ◯ Missile and/or Launch Ops
- ◯ UAV
- ◯ Other

33. My squadron has:

- ◯ A squadron medical element (SME)
- ◯ One (1) attached flight surgeon
- ◯ Multiple attached flight surgeons
- ◯ No SME or attached flight surgeon

5. SME Flight Surgeons

This group of questions concerns specifically your own SME flight surgeon.

34. Do you consider your SME flight surgeon to be your personal aeromedical advisor regarding flying safety, human factors and human performance enhancement?

- ◯ Yes
- ◯ No

Assessment of Flight Surgeon Support of the Line

35. Please rate the performance of your SME flight surgeon in this capacity.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

36. Please rate the performance of your SME flight surgeon in providing and arranging medical training for the SME medical personnel.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

37. Does your SME flight surgeon attend your Commander's Calls?

- ◯ Yes
- ◯ No
- ◯ Unsure

38. Does your SME flight surgeon attend your Flight Safety meetings/briefings?

- ◯ Yes
- ◯ No
- ◯ Unsure

39. Does your SME flight surgeon present aeromedical, flight safety or general safety topics at Commander's Calls and/or Flight Safety meetings/briefings?

- ◯ Yes
- ◯ No

Assessment of Flight Surgeon Support of the Line

40. Please rate your SME flight surgeon's advice to you and your squadron leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

41. Please rate the performance of your SME flight surgeon in supervising the other members of your SME.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

42. Does your SME flight surgeon fly regularly and frequently with your squadron?

- ◯ Yes
- ◯ No

43. Is your SME flight surgeon involved in squadron social functions?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

44. Please rate your SME's flight surgeon's depth and breadth of knowledge in the following areas.

	Superior	Excellent	Good	Fair	Poor	No Opinion
Operational Issues	◯	◯	◯	◯	◯	◯
Flight Safety Issues	◯	◯	◯	◯	◯	◯
Occupational Health	◯	◯	◯	◯	◯	◯
Medicine and medical practice	◯	◯	◯	◯	◯	◯

Assessment of Flight Surgeon Support of the Line

45. While you have been, or were, a squadron commander, did your SME flight surgeon deploy with your unit?

- ◯ Yes
- ◯ No
- ◯ N/A, my unit did not deploy

6. SME Flight Surgeon Deployment

46. Please rate your SME flight surgeon's performance during deployments in the following areas:

	Superior	Excellent	Good	Fair	Poor	No Opinion
Arranging and ensuring adequate medical support of the squadron	◯	◯	◯	◯	◯	◯
Utilizing medical intelligence resources to keep squadron personnel aware of medical threats	◯	◯	◯	◯	◯	◯
Ensuring proper deployment sanitation, including billeting, food and water assessment	◯	◯	◯	◯	◯	◯
Readiness for mishaps and disasters (response plans, checklists and equipment)	◯	◯	◯	◯	◯	◯

7. SME Flight Surgeon #2

47. How well prepared, overall, is your SME flight surgeon to lead your Squadron Medical Element?

	Superior	Excellent	Good	Fair	Poor	No Opinion
In garrison	◯	◯	◯	◯	◯	◯
In deployed location	◯	◯	◯	◯	◯	◯

48. Do you have any further comments, positive, negative or otherwise?

8. Attached Flight Surgeons

This group of questions concerns specifically the flight surgeon attached to your squadron.

Assessment of Flight Surgeon Support of the Line

49. Do you consider your attached flight surgeon to be your personal aeromedical advisor regarding flying safety, human factors and human performance enhancement?

- ◯ Yes
- ◯ No

50. Please rate the performance of your attached flight surgeon in this capacity.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

51. Does your attached flight surgeon attend your Commander's Calls?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

52. Does your attached flight surgeon attend your Flight Safety meetings/briefings?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

53. Does your attached flight surgeon present aeromedical, flight safety or general safety topics at Commander's Calls and/or Flight Safety meetings/briefings?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

54. Please rate your attached flight surgeon advice to you and your squadron leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion.

- ◯ Superior
- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor
- ◯ No Opinion

Assessment of Flight Surgeon Support of the Line

55. Does your attached flight surgeon fly regularly and frequently with your squadron?

- ◯ Yes
- ◯ No
- ◯ No, the attached flight surgeon is not on flying status, or is not qualified
- ◯ N/A

56. Is your attached flight surgeon involved in squadron social functions?

- ◯ Frequently
- ◯ Occasionally
- ◯ Never

57. Please rate your attached flight surgeon's depth and breadth of knowledge in the following areas.

	Superior	Excellent	Good	Fair	Poor	No Opinion
Operational Issues	◯	◯	◯	◯	◯	◯
Flight Safety Issues	◯	◯	◯	◯	◯	◯
Occupational Health	◯	◯	◯	◯	◯	◯
Medicine and medical practice	◯	◯	◯	◯	◯	◯

58. Do you have any further comments, positive, negative or otherwise?

9. End of Survey

Thank you for your participation. Please press 'Done' to complete the survey and upload your answers.

APPENDIX B

OPERATIONS GROUP COMMANDERS – COMMENTS

Comment 1

OPERATIONAL PLATFORM – Airborne Command and Control, Attack/Fighter

Comments:
Very professional group that has the welfare of the pilots and their families as their top priority. Great job.

Invaluable resource to our group.

Comment 2

OPERATIONAL PLATFORM – Attack/Fighter

Comments:

I am continually impressed by the quality of flight surgeons across the AF.

Comment 3

OPERATIONAL PLATFORM – Attack/Fighter

Comments:
I am the OG/CC at the X FW at X AFB. For the past 15 yrs the unit has 1 flight surgeon that was adequate. He deployed with our unit overseas and did a good job. He earned 0-6 and is retiring. The other 4 Flight surgeons that have worked at the X were not deployable because they don't have a clue about medicine or the Air Force. I personally fired the last flight surgeon assigned to the fighter squadron. In two months the FS is deploying to OEF and we are taking a flight surgeon from another unit.

Comment 4

OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Reserve Unit-No Full time medical support of any kind. Must use off-base facilities except for physicals or deployed operation

Comment 5

OPERATIONAL PLATFORM – Attack/Fighter

Comments:
There just aren't enough of them. We lost Doc X to the X Wing 4 months ago. Col X is helping out in the interim.

XX WG does not own Flight Medicine (XX ABW). We are a training unit, not a combat unit. Chief is doing the best he can given the circumstances.

Comment 6

OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Our flight surgeons are limited by civilian practice in the time available to participate with the wing other than UTAs and AT deployments. They are, however, very capable physicians whose knowledge and expertise is invaluable to our reservists.

Comment 7

OPERATIONAL PLATFORM – Bomber

Comments:
The only conflict we have had recently is differentiating priorities within the operations group when the SMEs are pulled for additional duties by the medical group.

The Chief of Aeromedical Services is concerned with administration and function of the flight medical clinic. The squadron level flight surgeons are absolutely critical to operational effectiveness and safety when the medical group doctors are pulled in other directions.

Comment 8

OPERATIONAL PLATFORM – Cargo, Other

Comments:
Great Docs...very professional...extremely knowledgeable.

Comment 9

OPERATIONAL PLATFORM – Cargo, Tanker

Comments:
The reserve flight surgeons have more restrictions when it comes to waiver authority or returning crewmembers to fly status.

Comment 10

OPERATIONAL PLATFORM – Cargo

Comments:
Availability is poor. We have trouble keeping crews flying. Delays are often weeks long to get flyers back on flight status. This command should fund full time FS for each flight wing. TR FSs don't work in the operational reserves.

Comment 11

OPERATIONAL PLATFORM – Cargo

Comments:
Our flight surgeons "get it". They know the rules, they are acutely aware of the current guidance and can discuss the pros and cons on many issues, (anthrax, Lasik, etc.) They have great credibility with the crews and have worked hard to insure they handle things appropriately.

We don't have a med group here, but an AMDS, and ASTS. The flt surgeon I consider the Chief of Aeromedical services is a senior flt surgeon and former AMDS commander who more than likely would have been the med group cc.

Comment 12

OPERATIONAL PLATFORM – Cargo

Comments:
We are a Reserve unit--our flight medicine section has neither the facilities nor the authorization to care for our families. They are also not allowed to diagnose/prescribe medicine for illnesses. That's ridiculous.

Comment 13

OPERATIONAL PLATFORM – Cargo

Comments:
We need a stronger recruiting effort for Flight Surgeons in AFRC. I appreciate the willingness to keep aircrew flying BUT if the aircrew is DNIF...make the call and let's get the proper treatment to get that member RTFS.

Manning has to be addressed. Commands should consider assigning an AGR as the Chief of Aeromedical Services at reserve bases.

Comment 14

OPERATIONAL PLATFORM – Cargo

Comments:
We only have the one flight surgeon.

Comment 15

OPERATIONAL PLATFORM – High Performance Trainer

Comments:
2 is not enough for 1000 pilots with a huge turnover of students each year

Comment 16

OPERATIONAL PLATFORM – High Performance Trainer

Comments:
Lt Col X is the finest Flight Surgeon I have seen in my career. Doc Y and Z have also picked up AETC awards for flight surgeon excellence. I am completely satisfied to have them as part of the OG team.

As stated before. Lt Col X is a top-notch Flight Surgeon.

Comment 17

OPERATIONAL PLATFORM – Other

Comments:
Those Flight Surgeons assigned to the XXX SOG are an operational necessity for our mission. We frequently conduct operations in Africa where medical issues are an integral part of risk management. Additionally, our doctors do MEDCAP missions that are crucial to advancing US goals in OEF-TRANS SAHARA. Additionally, our Army Special Forces partners could not accomplish their mission in Africa without USAF Flight Surgeons.

Lt Col X is a great doctor and leader. When OSS leadership is TDY, they have put him in charge of monitoring the diverse OSS mission, a testament to our trust/confidence in his abilities.

APPENDIX C

SQUADRON COMMANDERS – COMMENTS

Comment 1

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Airborne Command and Control

Comments:
We could not ask for a better flight surgeon for the ### AACS at X AFB. Lt Col X is outstanding.

Comment 2

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
I wish the flight doc's attended more of our social functions (holiday party's and all other social events).

Comment 3

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
As with any opinion on a group of people, it varies depending on which person you are refering to. On balance, with have very strong Flight Surgeon support both organic and host base.

My comments refer to the previous SME Flight surgeon in terms of leadership in garrison. The SME is not commanded by a Flight Surgeon currently. The senior Flight Surgeon is excellent to superior, especially deployed. I have not asked him to lead in garrison, due to a shortage in assigned Flight Surgeons.

Comment 4

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Some issues getting family members appointments in a timely manner. Mission impact to the service member continues to be a problem when dealing with a sick/hurt dependent. The appointment service is the worst I've seen in my AF career. Calling the Flt doctors directly is the only way to get prompt service--they perform flawlessly when aware but is this what it's really supposed to be happening? Suffice to say in my opinion the appointment system is severely flawed. Keeping service members and dependents' healthy is crucial to readiness---problem is with the constrictive appointment scheduling Sq/CC's are spending a much larger portion of their time on these issues; usually after events have become confrontational and personal. Additionally, if the Flt doc's are expected to cover the entire base populace---what direction/priority is given to other support functions within the medical groups--I doubt it's being directed in support/prioritization of accomplishing the Wing mission. Lastly, every 6 months or so the Medical group tries again to take the Flt doctors away from the flying squadrons--if you take away from squadron identification you'll take away from mission readiness--it's really that simple!

When deploying the issue as to whether or not the Flt doctor deploys always becomes a factor (cost vs value) of service in garrison if the doctor deploys forward. Is this not why we have them attached to the squadron? Again, I don't think having the Flt doctor's serving to organizations, two bosses, and 2 missions is constructive. It leads to inefficiencies at all levels and hurts overall readiness.

Comment 5

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Our current team of Flight Surgeons is definitely amongst the best I've seen in 19+ years. Same goes for their squadron and group leadership.

Comment 6

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Bomber

Comments:
Flight surgeons are doing great. There seemingly is a move to prevent flight surgeons from practicing outside of the clinic X AFB, prohibits flight surgeons from practicing on the flight line. In an expeditionary Air Force, this trend must stop!

This is the first USAF assignment for my flight surgeon and he is eager to learn supervisory skills. I do not think his initial training did a good job providing practice on military discipline techniques (LOC, LOR) or rewards (recognition programs, quarterly awards, etc...).

Comment 7

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Cargo

Comments:
Continuity of care among the flyers seems to be a problem. Have had several long term DNIF issues and often times conflicting guidance is given as well as multiple delays when one caregiver jumps in to "take over" the case.

To be respected as flight docs, it's important to fly/interact with the crews as opposed to just sitting on the bunk and logging time.

Comment 8

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Cargo

Comments:
At this point in time, my squadron does not have a flight surgeon attached with the SME. We only have medical technicians at the moment.

Comment 9

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Cargo

Comments:
Continue SME program at all costs. This program dramatically improved medical attention for flyers. It is the equivalent of having a daily housecall from our flight surgeon.

Comment 10

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Other

Comments:
OSM flight CC is only flight surgeon I have and he has only been in the military for two years and has never deployed. He needs to deploy to gain OSM experience.

Comment 11

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Reconnaissance

Comments:
My flight surgeon is very good, but there are areas where he could be better if he were not being pulled in too many directions. These are a fact of reduced/insufficient manning.

Comment 12

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Reconnaissance

Comments:
Question 6: Some of the flight docs fly regularly and frequently.

Due to the nature of LD/HD deployments and the organization of the X RW, X MDG and X OG, my SME is tasked via the X MDG and not by the XX RS. Therefore, this section of questions is difficult to answer as any flight surgeon, regardless of assigned squadron, will be tasked with attending CC Calls, deployments, sees patients, etc. This is not the "traditional" setup, but the XX RS does not deploy and operation in the traditional sense.

Comment 13

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Reconnaissance

Comments:
My experience has been that the flight doc is too busy with routine medical care (flight physicals, etc.) to have time to be part of the squadron. The med group tasks the flight docs, not me. There are not enough flight docs base-wide for the amount of work, so squadron interaction with the flight doc suffers

Comment 14

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Reconnaissance

Comments:
I am the sq CC at X AFB for a Predator Sq. My flt surgeon is qualified as a sensor operator in my aircraft and routinely flies combat sorties with us. He has been so good that we are upgrading him to instructor. While doing this he attends mass briefs/debriefs on a routine basis and such has a great understanding our unique issues flying combat from home station on a 24/7 basis. Regardless of all these facts he is still required to go fly in other aircraft at a separate base in order to fulfill his flying requirement -- though no other crew member in predator is required to do this to maintain currency or flight pay. This hinders his ability to focus on our weapons systems unique issues; I wish this could be resolved as soon as possible.

Comment 15

My Squadron Has – A SQUADRON MEDICAL ELEMENT (SME)
OPERATIONAL PLATFORM – Tanker

Comments:
Capt X is an exceptional flight surgeon. He does an outstanding job taking care of our people.

Comment 16

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Airborne Command and Control

Comments:
Prior to arrival of Dr. X, the GK program was in trouble. It has done a complete turn around and is 100% on track. Awesome effort and results are phenomenal. Thank you.

We only have one Flight Surgeon and the competing effects of a shortage in Family Care providers will often cause US Clinic to move FS to see families. I understand this, but it can NOT be to the detriment of flight medicine. Current Dr. will work 18 hours of day if needed but it's going to wear him out. Thank you.

Comment 17

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Capt X is our assigned Flt Surg, and he is truly outstanding. His care and commitment are second to none.

Comment 18

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
The ones we have are awesome. Have been issues with manning and retention. Probably not different than the pilot side, but need to find a way to keep the ones we have.

New to the USAF, but learning his role quickly.

Comment 19

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Flt Doc manning is getting better, hopefully we can return to the normal ops of having a Flt Doc assigned to each fighter squadron; and be IN the squadron - not just attached. This will enhance relationship with Flt Medicine by having a Flt Surgeon living in the squadron daily with a med tech assigned as well. Better for deployments, squadron mission health and most importantly medical trust.

Due to manning, we finally have a flight doc assigned to the squadron - AMDS/CC has worked very hard to instill a sense of mission in the Flight Surgeons here on base. New flight docs take time to gather experience - living in the squadron and getting to know the pilots, people, and families better will move marks from excellent to superior.

Comment 20

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Not having a designated squadron flight surgeon has had a negative impact on the flyers and their families as compared to previous assignments.

Brand new and yet to get established...see previous comments

Comment 21

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Question 13 was rated as fair, but it is a clinic access problem, not a flight surgeon's ability as a physician, that requires this poor rating.

Comment 22

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Single seat fighter with no 2 seat models. Flt doc must fly with other units

Comment 23

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Bomber

Comments:
This is the best group of flight surgeons at X AFB I've seen in my 20 years in the USAF

Comment 24

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Bomber

Comments:
We have one flight surgeon attached for the entire operations group. I don't have one who flies with us in bombers.

Comment 25

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Cargo

Comments:
All great flt docs here. Desire: flt docs to have direct control of immunizations for aircrew.

Comment 26

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Cargo

Comments:
I am very grateful to the support of all the Flight Surgeons, especially Doc X at X AFB.

Doc X is great. He is always there when we need him.

Comment 27

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Cargo

Comments:
MEB process is very slow wrt to the Flight Surgeon office.

Comment 28

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – High Performance Trainer

Comments:
Flt surgeons have been very helpful and comm lines are very good with the ops ccs on the base.

Comment 29

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – High Performance Trainer

Comments:
Our assigned flight surgeon is young, but doing great things for and with the squadron. I could not ask for a more motivated young professional to be part of this operation

Comment 30

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – High Performance Trainer

Comments:
They are not as cooperative as we need in DNIF/Off DNIF notification.

Comment 31

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Missile and/or Launch Ops

Comments:
Our flight surgeons are first rate. They are responsive and have an outstanding sense of the ICBM mission.

Comment 32

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Other

Comments:
They seem to work very hard. Their office seems to be undermanned. I think they put in a ton of extra hours. The air force needs to address this!

Comment 33

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Other

Comments:
Very responsive to my squadron's needs and flexible on their support of dependent care.

Comment 34

My Squadron Has – ONE (1) ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Tanker

Comments:
Flight surgeons understand our mission better than any other specialty in the Med Group and arguably better than anyone in the Msn Support Group.

Comment 35
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
My Assigned (Attached) Flight Surgeons are among the best I have ever worked with. The screening process appears to be very healthy and intact. No Bozos here.

Best Flight Surgeons I've ever been associated with.

Comment 36
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Cargo

Comments:
I feel that overall the Flt Surgeons office does a good job in meeting mission needs. However, I have gotten several complaints with regards to waivers and waiver processing. My members feel they either get the wrong information or incomplete information in these matters.

Comment 37
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Cargo

Comments:
The biggest problem we have is with waiver processing. The majority of waiver requests are denied yet the FAA has no problem with flying commercially. It is very frustrating.

The squadron likes and respects all of our flight surgeons

Comment 38
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Helicopter

Comments:
I am extremely pleased with the service provided by our flight docs. I am always amazed at how quickly I am informed of medical issues impacting my unit.

Comment 39
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Helicopter

Comments:
The flight medicine staff at X AFB is OUTSTANDING! The flight surgeons and flight nurse/medical technicians/support staff are true professionals and second to none. I'm proud to serve with all of them. LtC X, X HS/CC

Outstanding A+++ professionals. I'd serve with all of them any time, any place.

Comment 40
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Helicopter

Comments:
We could not be more pleased with the level of health care provided by our flight medicine office. All flight surgeons and medical technicians are well respected and play a vital role in our flight operations. They are truly a part of the crew and add immeasurably to our flight safety and operational capability.

Comment 41
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Missile and/or Launch Ops

Comments:
My squadron had two problematic flight surgeons. One who refused to work and the other unable to due to mental health issues. This has negatively impacted the FSO.

My remaining flight surgeon came from the AF Reserves and uses that excuse for his inadequacies. Despite removal of additional duties and sending the member for more training, no improvement has been noted. It is best to separate this member. In my opinion, this flight surgeon is not beneficial for the AD or ARC.

Comment 42
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Other

Comments:
Flight surgeons are basically good docs -- AMP course, as ever, provides only superficial capabilities, based on current ops tempo and lack of FSs there is not enough time/people to fill gaps

Comment 43
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Other

Comments:
We have more than 1 flt surgeon flying with us; while they run the gamut, most are excellent.

Comment 44
My Squadron Has – MULTIPLE ATTACHED FLIGHT SURGEONS
OPERATIONAL PLATFORM – Other

Comments:
Sometimes longer waits due to low manning in the clinic.

Comment 45
My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Airborne Command and Control

Comments:
Decline in FS ability, dedication, and commitment is a pure function of availability. We do not have enough Flight Surgeons and Med Techs available to support the needs and requirements of the unit and associated mission. As a result, care is delayed, and there are impediments to the mission.

Comment 46
My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Airborne Command and Control

Comments:
Undermanned at times, but fully engaged in the success of our squadron and mission. Great working relationship.

Comment 47
My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
The WS was just allocated a FS a few months ago...I have had little interaction since then.

Comment 48

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
A lot of the negative comments are from the 6 months prior to now when the USAFWS did not have an assigned Flt Surgeon. Recently one has been assigned to the USAFWS and he is reversing all of the negative trends except for the lack of accommodation afforded by the Flt Surgeon Office as a whole when it come to taking care of the pilots and families in my squadron.

Comment 49

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
As an OSS/CC at a remote location, families are not an issue for our flight surgeons. Currently the Fighter Squadrons have a flight surgeon assigned to them and rated by the FS/CC. I would like to have the same for my OSS since I have as many or more rated personnel in my squadron than the Fighter Squadrons (tower, RAPCON and pilots).

Comment 50

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
I am authorized a Flight Surgeon, but do not have one assigned to me. I share a flight surgeon with the other A-10 Sq on base. I need my own ASAP as the AEF looms near. Our Flight surgeon does not fly with us (Single seat, with no two-seat aircraft). I also do not have Med Techs, though I am authorized two.

Comment 51

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Our flight surgeon's here are very proactive about making sure the pilots and students are getting exactly what they need to succeed. Dr. X in particular, although very busy in the clinic, is tuned into what's happening in the wing with respect to G-Awareness and other pilot health issues. He also is very responsive to pilot's families.

Comment 52

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Attack/Fighter

Comments:
Undermanned.

Comment 53

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Cargo

Comments:
Had a great Flt Surgeon a while ago. The squadron has been without one for the last 5 months. The others are filling in, but we really need one dedicated to us.

Comment 54

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Cargo

Comments:
Our flight surgeons are great. However, there is too much extra stuff (profile processing, etc.) piled on them.

Comment 55

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Cargo

Comments:
We have great flight surgeon support at X AFB, even though we are a tenant unit on the base. We love to have them fly with us.

Comment 56

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – High Performance Trainer

Comments:
The AF 469 profile system and the AFRC system do no talk to each other. As associations grow with the reserves it is unacceptable that I and Doc X are the one's having to implement a work around system at the unit level. This needs to be done at the Air Force level and completed last October (07) when the 469 was implemented. Bad Bad Bad. We have an outstanding system but we had to do it ourselves and when there is a change in personnel that relationship will go with us.

Comment 57

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Missile and/or Launch Ops

Comments:
PRP is demanding; flt docs have been very pro-active in working medicine w/the mission.

Comment 58

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Other

Comments:
I do not have a flight surgeon assigned and the operators in the squadron are paying heavily. The lack of immediate medical oversight and involvement with the EMT-P (PJs) in my squadron has proven critical due to decreasing medical capabilities and preparedness. It is vital that my medical section quickly come back up to speed, and that starts with an assigned Flight Doctor.

Comment 59

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – Reconnaissance

Comments:
I think they'd all be great if they weren't hamstrung by the paperwork beast. Most patients I know use civilian medicine to the max extent possible because you call, you get an appointment quickly/easily, no wait in the office, and you are on your way. In many cases, I don't get treatment when I should because I feel the military system is set up to discourage me from using it by being too cumbersome/difficult. Overall, flt surgeons have been superior in terms of customer service to other docs, and far superior relative to other health care professionals. I appreciate the ones who cut thru the garbage to get you in, out, and back to the fight - some actually understand that concept. Others seem offended by the fact that I am in their office.

Comment 60

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – UAV

Comments:
Overly restrictive comment - Our FS follows the regs and the regs are overly restrictive for UAS OPS - X doesn't serve families - really not applicable.

Comment 61

My Squadron Has – NO SME or ATTACHED FLIGHT SURGEON
OPERATIONAL PLATFORM – UAV

Comments:
The flight surgeons are not attached to my squadron due to the classification requirement to enter my facility. That said, the flight surgeons have been bending over backwards to make X AFB medical clinic suited to the needs of our disparate and geographically separated unit. I appreciate their efforts.

```
. ************************************************************
. ***** IFS Examine if answer results vary by commander type.
. tabstat q3 _3_ _4_ _5_ q6 _7_ _8_, by(cmdtype) statistic(n mean sd), if year==2008

Summary statistics: N, mean, sd
  by categories of: cmdtype

    cmdtype |        q3       _3_       _4_       _5_        q6       _7_       _8_
------------+---------------------------------------------------------------------
      OG CC |        39        39        39        39        39        38        39
            |  1.564103         1  1.897436  2.307692  1.410256  2.105263  2.230769
            |  .5023561         0  .6405126  .7997975  .5946228  .9526485  .9308044
------------+---------------------------------------------------------------------
     SQ SME |        25        25        25        25        25        25        25
            |       1.4         1      1.72      1.84      1.24      1.88       2.2
            |        .5         0  .4582576  .6244998  .5972158  .8812869         1
------------+---------------------------------------------------------------------
   SQ 1 ATT |        36        36        34        33        34        36        33
            |  1.583333  1.055556  1.882353  1.909091  1.382353  1.861111  2.212121
            |  .6035609  .2323107  .5910805  .6306562  .6969503  .6825489  .8929437
------------+---------------------------------------------------------------------
SQ Mult ATT |        17        17        16        17        17        17        17
            |  1.529412         1    1.8125  1.882353  1.176471         2  2.176471
            |  .5144958         0  .5439056  .6966305  .3929526  .9354143  .8089572
------------+---------------------------------------------------------------------
    SQ None |        27        27        22        22        27        23        25
            |  1.814815  1.185185  1.954545  2.090909  1.925926  2.173913      2.56
            |  .7357381  .3958474  .7854191  .8111773  .8738036  .7776523  1.260952
------------+---------------------------------------------------------------------

. tabstat _9_ _10_ _111_ _112_ _113_ _114_ _12_, by(cmdtype) statistic(n mean sd), if year==2008

Summary statistics: N, mean, sd
  by categories of: cmdtype

    cmdtype |       _9_      _10_     _111_     _112_     _113_     _114_      _12_
------------+---------------------------------------------------------------------
      OG CC |        37        39        39        39        39        39        36
            |  1.918919  2.076923  1.923077  1.641026  1.692308  1.589744  .5833333
            |  .2767247  .8998425  1.035797  .8425269  .8630986  .9380256        .5
------------+---------------------------------------------------------------------
     SQ SME |        24        25        25        25        25        25        24
            |  1.958333      1.88      1.64      1.48      1.56      1.36  .3333333
            |  .2041241  .8812869  .6377042  .5859465  .7681146  .5686241  .4815434
------------+---------------------------------------------------------------------
   SQ 1 ATT |        35        36        35        35        34        36        33
            |  1.942857  1.777778  1.685714  1.485714  1.441176  1.277778  .2424242
            |  .2355041  .6808025  .6311254  .5621089  .6125543  .4542568  .4351941
------------+---------------------------------------------------------------------
SQ Mult ATT |        17        17        17        17        17        17        16
            |         2         2  1.764706  1.470588  1.470588  1.411765     .3125
            |  .3535534  .9354143  .9701425  .6242643  .6242643  .5072997  .4787136
------------+---------------------------------------------------------------------
    SQ None |        24        26        25        24        25        27        23
            |  1.958333  1.961538      1.96  1.666667      1.68  1.518519  .5217391
            |  .2041241   .870897  .8406347  .6370221  .9882645  .5091751  .5107539
------------+---------------------------------------------------------------------
```

```
. tabstat _13_ _141_ _142_ _151_ _152_, by(cmdtype) statistic(n mean sd), if year==2008

Summary statistics: N, mean, sd
  by categories of: cmdtype

    cmdtype |      _13_     _141_     _142_     _151_     _152_
------------+----------------------------------------------------
      OG CC |        15        35        34        39        39
            |  1.933333  1.914286  1.970588  1.794872  1.897436
            |  .7037316  1.039554  1.029424  .8328609  1.046168
------------+----------------------------------------------------
     SQ SME |        16        24        24        25        25
            |         2  1.541667  1.541667      1.56      1.48
            |  .7302967    .58823  .5089774  .5066228  .5859465
------------+----------------------------------------------------
   SQ 1 ATT |        25        31        29        34        35
            |      2.24  1.741935  1.758621       1.5  1.542857
            |  .8306624  .8151786  .8724011  .7881701  .7800022
------------+----------------------------------------------------
SQ Mult ATT |        11        11        12        17        17
            |  1.818182  1.636364  1.666667  1.764706  1.764706
            |  .8738629  .8090398  .7784989  .8313702  .8313702
------------+----------------------------------------------------
    SQ None |        11        16        16        25        26
            |  2.545455    1.6875       1.5       1.8  1.653846
            |  .8201995  .7932003  .7302967  .7071068  .6894814
------------+----------------------------------------------------

. kwallis q3 if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2833.00 |
  |      SQ SME |  25 |  1535.00 |
  |    SQ 1 ATT |  36 |  2602.50 |
  | SQ Mult ATT |  17 |  1194.50 |
  |     SQ None |  27 |  2275.00 |
  +-----------------------------+

chi-squared =     3.966 with 4 d.f.
probability =     0.4106

chi-squared with ties =     5.057 with 4 d.f.
probability =     0.2815

. kwallis _4_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2724.50 |
  |      SQ SME |  25 |  1539.00 |
  |    SQ 1 ATT |  34 |  2385.00 |
  | SQ Mult ATT |  16 |  1064.00 |
  |     SQ None |  22 |  1603.50 |
  +-----------------------------+

chi-squared =     1.195 with 4 d.f.
probability =     0.8789

chi-squared with ties =     1.639 with 4 d.f.
probability =     0.8017
```

```
. kwallis _5_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  3146.50 |
  |      SQ SME |  25 |  1485.00 |
  |    SQ 1 ATT |  33 |  2080.00 |
  | SQ Mult ATT |  17 |  1047.00 |
  |     SQ None |  22 |  1557.50 |
  +-----------------------------+

chi-squared =     6.293 with 4 d.f.
probability =     0.1783

chi-squared with ties =     7.856 with 4 d.f.
probability =     0.0970

. kwallis q6 if year==2008 & q6<3, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  37 |  2544.50 |
  |      SQ SME |  23 |  1240.50 |
  |    SQ 1 ATT |  30 |  1767.50 |
  | SQ Mult ATT |  17 |  1012.00 |
  |     SQ None |  18 |  1310.50 |
  +-----------------------------+

chi-squared =     4.234 with 4 d.f.
probability =     0.3752

chi-squared with ties =     7.921 with 4 d.f.
probability =     0.0945

. kwallis _7_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  38 |  2793.50 |
  |      SQ SME |  25 |  1585.00 |
  |    SQ 1 ATT |  36 |  2335.50 |
  | SQ Mult ATT |  17 |  1184.00 |
  |     SQ None |  23 |  1832.00 |
  +-----------------------------+

chi-squared =     2.866 with 4 d.f.
probability =     0.5804

chi-squared with ties =     3.388 with 4 d.f.
probability =     0.4952
```

```
. kwallis _8_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2711.00 |
  |      SQ SME |  25 |  1688.00 |
  |    SQ 1 ATT |  33 |  2244.50 |
  | SQ Mult ATT |  17 |  1149.00 |
  |     SQ None |  25 |  1937.50 |
  +-----------------------------+

chi-squared =     1.109 with 4 d.f.
probability =     0.8929

chi-squared with ties =     1.240 with 4 d.f.
probability =     0.8715

. kwallis _9_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  37 |  2478.50 |
  |      SQ SME |  24 |  1672.00 |
  |    SQ 1 ATT |  35 |  2401.50 |
  | SQ Mult ATT |  17 |  1229.00 |
  |     SQ None |  24 |  1672.00 |
  +-----------------------------+

chi-squared =     0.229 with 4 d.f.
probability =     0.9939

chi-squared with ties =     1.244 with 4 d.f.
probability =     0.8708

. kwallis _10_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  3051.00 |
  |      SQ SME |  25 |  1707.50 |
  |    SQ 1 ATT |  36 |  2382.00 |
  | SQ Mult ATT |  17 |  1246.50 |
  |     SQ None |  26 |  1909.00 |
  +-----------------------------+

chi-squared =     1.844 with 4 d.f.
probability =     0.7645

chi-squared with ties =     2.155 with 4 d.f.
probability =     0.7073
```

```
. kwallis _111_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2868.50 |
  |      SQ SME |  25 |  1641.50 |
  |    SQ 1 ATT |  35 |  2393.50 |
  | SQ Mult ATT |  17 |  1123.00 |
  |     SQ None |  25 |  1984.50 |
  +-----------------------------+

chi-squared =     2.024 with 4 d.f.
probability =     0.7314

chi-squared with ties =     2.480 with 4 d.f.
probability =     0.6482

. kwallis _112_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2824.00 |
  |      SQ SME |  25 |  1678.50 |
  |    SQ 1 ATT |  35 |  2376.00 |
  | SQ Mult ATT |  17 |  1120.50 |
  |     SQ None |  24 |  1871.00 |
  +-----------------------------+

chi-squared =     1.433 with 4 d.f.
probability =     0.8385

chi-squared with ties =     1.820 with 4 d.f.
probability =     0.7687

. kwallis _113_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2955.50 |
  |      SQ SME |  25 |  1743.00 |
  |    SQ 1 ATT |  34 |  2217.00 |
  | SQ Mult ATT |  17 |  1140.50 |
  |     SQ None |  25 |  1814.00 |
  +-----------------------------+

chi-squared =     1.435 with 4 d.f.
probability =     0.8381

chi-squared with ties =     1.827 with 4 d.f.
probability =     0.7675
```

```
. kwallis _114_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +------------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2945.50 |
  |      SQ SME |  25 |  1715.50 |
  |    SQ 1 ATT |  36 |  2328.00 |
  | SQ Mult ATT |  17 |  1256.50 |
  |     SQ None |  27 |  2194.50 |
  +------------------------------+

chi-squared =     2.906 with 4 d.f.
probability =     0.5737

chi-squared with ties =     4.043 with 4 d.f.
probability =     0.4002

. kwallis _12_ if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +------------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  36 |  2808.00 |
  |      SQ SME |  24 |  1476.00 |
  |    SQ 1 ATT |  33 |  1831.50 |
  | SQ Mult ATT |  16 |   962.00 |
  |     SQ None |  23 |  1700.50 |
  +------------------------------+

chi-squared =     7.707 with 4 d.f.
probability =     0.1029

chi-squared with ties =    10.627 with 4 d.f.
probability =     0.0311

. kwallis _13_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +------------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  15 |   528.50 |
  |      SQ SME |  16 |   594.00 |
  |    SQ 1 ATT |  25 |  1045.00 |
  | SQ Mult ATT |  11 |   352.50 |
  |     SQ None |  11 |   561.00 |
  +------------------------------+

chi-squared =     4.988 with 4 d.f.
probability =     0.2885

chi-squared with ties =     5.853 with 4 d.f.
probability =     0.2104
```

```
. kwallis _141_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  35 |  2220.50 |
  |      SQ SME |  24 |  1284.00 |
  |    SQ 1 ATT |  31 |  1862.50 |
  | SQ Mult ATT |  11 |   610.00 |
  |     SQ None |  16 |   926.00 |
  +-----------------------------+

chi-squared =     1.401 with 4 d.f.
probability =     0.8441

chi-squared with ties =     1.662 with 4 d.f.
probability =     0.7976

. kwallis _142_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  34 |  2209.50 |
  |      SQ SME |  24 |  1285.00 |
  |    SQ 1 ATT |  29 |  1713.50 |
  | SQ Mult ATT |  12 |   677.00 |
  |     SQ None |  16 |   785.00 |
  +-----------------------------+

chi-squared =     3.129 with 4 d.f.
probability =     0.5365

chi-squared with ties =     3.723 with 4 d.f.
probability =     0.4448

. kwallis _151_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  2958.50 |
  |      SQ SME |  25 |  1683.50 |
  |    SQ 1 ATT |  34 |  2011.00 |
  | SQ Mult ATT |  17 |  1255.50 |
  |     SQ None |  25 |  1961.50 |
  +-----------------------------+

chi-squared =     4.576 with 4 d.f.
probability =     0.3337

chi-squared with ties =     5.662 with 4 d.f.
probability =     0.2259
```

```
. kwallis _152_ if year==2008, by(cmdtype)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------------+
  |     cmdtype | Obs | Rank Sum |
  |-------------+-----+----------|
  |       OG CC |  39 |  3080.50 |
  |      SQ SME |  25 |  1601.00 |
  |    SQ 1 ATT |  35 |  2274.00 |
  | SQ Mult ATT |  17 |  1301.00 |
  |     SQ None |  26 |  1896.50 |
  +-----------------------------+

chi-squared =     3.282 with 4 d.f.
probability =     0.5118

chi-squared with ties =     4.029 with 4 d.f.
probability =     0.4021
```

```
. ************************************************************
. ***** IFS 2008 vs 2006 statistical evaluation of difference.
. tabstat _3_ _4_ _5_ q6 _7_ _8_ _9_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |       _3_       _4_       _5_        q6       _7_       _8_       _9_
-------+--------------------------------------------------------------------------
  2006 |       158       140       140       158       153       141       152
       |  1.113924  1.828571      2.05   1.56962  2.137255  2.333333  1.947368
       |  .3187292  .5081049  .6383995  .8167599  .8963289   1.01887  .2518665
-------+--------------------------------------------------------------------------
  2008 |       145       137       137       143       140       140       138
       |  1.048276  1.861314  2.043796  1.440559         2  2.278571  1.949275
       |  .2150915   .608548  .7363325  .6983116  .8396642  .9823468  .2512004
-------+--------------------------------------------------------------------------

. tabstat _10_ _111_ _112_ _113_ _114_ _12_ _13_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |      _10_     _111_     _112_     _113_     _114_      _12_      _13_
-------+--------------------------------------------------------------------------
  2006 |       155       154       146       146       154       146       114
       |  1.954839  2.448052  2.089041  1.945205  1.863636  .1986301  2.122807
       |  .8244789  .9149607  .8130083  .8032762  .8250029  .4003423  .8107721
-------+--------------------------------------------------------------------------
  2008 |       144       142       141       141       145       133        79
       |  1.944444  1.802817  1.560284   1.58156  1.441379   .406015  2.113924
       |   .842721  .8357223  .6694219  .7851845  .6548522  .4929441   .800438
-------+--------------------------------------------------------------------------

. tabstat _141_ _142_ _151_ _152_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |     _141_     _142_     _151_     _152_
-------+----------------------------------------
  2006 |       124       117       144       150
       |  2.443548  2.452991  2.111111  2.046667
       |   1.53179  1.505712  .7854544  .8999379
-------+----------------------------------------
  2008 |       118       116       141       143
       |  1.737288  1.732759  1.680851  1.678322
       |  .8415286  .8377792  .7494679  .8273613
-------+----------------------------------------

. kwallis _3_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 158 | 24768.00 |
  | 2008 | 145 | 21288.00 |
  +-----------------------+

chi-squared =     0.974 with 1 d.f.
probability =     0.3236

chi-squared with ties =     4.290 with 1 d.f.
probability =     0.0383
```

```
. kwallis _4_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 140 | 19312.00 |
  | 2008 | 137 | 19191.00 |
  +-----------------------+

chi-squared =     0.049 with 1 d.f.
probability =     0.8242

chi-squared with ties =     0.073 with 1 d.f.
probability =     0.7873

. kwallis _5_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 140 | 19675.00 |
  | 2008 | 137 | 18828.00 |
  +-----------------------+

chi-squared =     0.104 with 1 d.f.
probability =     0.7471

chi-squared with ties =     0.132 with 1 d.f.
probability =     0.7167

. kwallis q6, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 158 | 24574.00 |
  | 2008 | 143 | 20877.00 |
  +-----------------------+

chi-squared =     0.902 with 1 d.f.
probability =     0.3424

chi-squared with ties =     1.278 with 1 d.f.
probability =     0.2582

. kwallis _7_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 153 | 23404.50 |
  | 2008 | 140 | 19666.50 |
  +-----------------------+

chi-squared =     1.590 with 1 d.f.
probability =     0.2073

chi-squared with ties =     1.846 with 1 d.f.
probability =     0.1743
```

```
. kwallis _8_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 141 | 20136.00 |
  | 2008 | 140 | 19485.00 |
  +-----------------------+

chi-squared =     0.140 with 1 d.f.
probability =     0.7081

chi-squared with ties =     0.156 with 1 d.f.
probability =     0.6929

. kwallis _9_, by(yr)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 152 | 22096.50 |
  | 2008 | 138 | 20098.50 |
  +-----------------------+

chi-squared =     0.001 with 1 d.f.
probability =     0.9777

chi-squared with ties =     0.004 with 1 d.f.
probability =     0.9480

. kwallis _10_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 155 | 23392.00 |
  | 2008 | 144 | 21458.00 |
  +-----------------------+

chi-squared =     0.036 with 1 d.f.
probability =     0.8493

chi-squared with ties =     0.042 with 1 d.f.
probability =     0.8372

. kwallis _111_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 154 | 27380.00 |
  | 2008 | 142 | 16576.00 |
  +-----------------------+

chi-squared =    37.598 with 1 d.f.
probability =     0.0001

chi-squared with ties =    43.224 with 1 d.f.
probability =     0.0001
```

```
. kwallis _112_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 146 | 24813.50 |
  | 2008 | 141 | 16514.50 |
  +-----------------------+

chi-squared =    29.066 with 1 d.f.
probability =     0.0001

chi-squared with ties =    34.029 with 1 d.f.
probability =     0.0001

. kwallis _113_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 146 | 23826.50 |
  | 2008 | 141 | 17501.50 |
  +-----------------------+

chi-squared =    15.897 with 1 d.f.
probability =     0.0001

chi-squared with ties =    18.816 with 1 d.f.
probability =     0.0001

. kwallis _114_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 154 | 26373.50 |
  | 2008 | 145 | 18476.50 |
  +-----------------------+

chi-squared =    19.195 with 1 d.f.
probability =     0.0001

chi-squared with ties =    23.341 with 1 d.f.
probability =     0.0001

. kwallis _12_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 146 | 18426.50 |
  | 2008 | 133 | 20633.50 |
  +-----------------------+

chi-squared =     8.948 with 1 d.f.
probability =     0.0028

chi-squared with ties =    14.272 with 1 d.f.
probability =     0.0002
```

```
. kwallis _13_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 114 | 11092.50 |
  | 2008 |  79 |  7628.50 |
  +-----------------------+

chi-squared =     0.008 with 1 d.f.
probability =     0.9280

chi-squared with ties =     0.010 with 1 d.f.
probability =     0.9221

. kwallis _141_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 124 | 16614.00 |
  | 2008 | 118 | 12789.00 |
  +-----------------------+

chi-squared =     8.087 with 1 d.f.
probability =     0.0045

chi-squared with ties =     9.078 with 1 d.f.
probability =     0.0026

. kwallis _142_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 117 | 15241.50 |
  | 2008 | 116 | 12019.50 |
  +-----------------------+

chi-squared =     9.107 with 1 d.f.
probability =     0.0025

chi-squared with ties =    10.223 with 1 d.f.
probability =     0.0014

. kwallis _151_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 144 | 23797.00 |
  | 2008 | 141 | 16958.00 |
  +-----------------------+

chi-squared =    21.227 with 1 d.f.
probability =     0.0001

chi-squared with ties =    25.407 with 1 d.f.
probability =     0.0001
```

```
. kwallis _152_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 | 150 | 24716.50 |
  | 2008 | 143 | 18354.50 |
  +-----------------------+

chi-squared =    13.530 with 1 d.f.
probability =     0.0002

chi-squared with ties =    15.881 with 1 d.f.
probability =     0.0001
```

```
. ************************************************************
. ***** OG CC 2008 vs 2006 statistical evaluation of differences.
. tabstat _20_ _21_ q22 q23 _24_ _25_ _26_, statistics (n mean sd), if cmdtype==1, by(yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |      _20_      _21_       q22       q23      _24_      _25_      _26_
-------+--------------------------------------------------------------------------
  2006 |        30        24        30        30        27        25        26
       |       1.2     1.625  2.066667  1.533333  1.962963      2.12  1.846154
       |  .4068381  .5757792  .7849153  .7302967  .8077262  .9273618  .7316998
-------+--------------------------------------------------------------------------
  2008 |        38        29        39        39        38        34        37
       |  1.236842  1.689655  2.230769  1.897436  2.315789  2.382353  2.351351
       |  .4308515  .6037649  .6673411  .7179969  1.164921  1.128547  1.110961
-------+--------------------------------------------------------------------------

. tabstat _27_ _281_ _282_ _283_ _284_ _29_, statistics (n mean sd), if cmdtype==1, by(yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |      _27_     _281_     _282_     _283_     _284_      _29_
-------+------------------------------------------------------------
  2006 |        26        27        27        26        26        26
       |  2.115385  1.962963  1.851852  1.769231  1.769231  1.730769
       |  .9089301  .7586162  .7181013  .7103629  .6516252  .7243034
-------+------------------------------------------------------------
  2008 |        38        38        38        36        38        37
       |  2.473684  2.394737  2.026316  1.888889  1.684211   2.27027
       |  1.224454  1.284828  1.102499  .9791477  1.016227  1.261583
-------+------------------------------------------------------------

. *Question #20
. kwallis _20_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  30 |  1014.00 |
  | 2008 |  38 |  1332.00 |
  +-----------------------+

chi-squared =     0.067 with 1 d.f.
probability =     0.7953

chi-squared with ties =     0.130 with 1 d.f.
probability =     0.7180

. kwallis _21_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  24 |   630.00 |
  | 2008 |  29 |   801.00 |
  +-----------------------+

chi-squared =     0.103 with 1 d.f.
probability =     0.7477

chi-squared with ties =     0.134 with 1 d.f.
probability =     0.7147
```

```
. kwallis q22 if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  30 |   985.00 |
  | 2008 |  39 |  1430.00 |
  +-----------------------+

chi-squared =     0.619 with 1 d.f.
probability =     0.4314

chi-squared with ties =     0.727 with 1 d.f.
probability =     0.3939

. kwallis q23 if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  30 |   885.00 |
  | 2008 |  39 |  1530.00 |
  +-----------------------+

chi-squared =     3.989 with 1 d.f.
probability =     0.0458

chi-squared with ties =     4.677 with 1 d.f.
probability =     0.0306

. kwallis _24_ if cmdtype==1, by(yr)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  27 |   820.00 |
  | 2008 |  38 |  1325.00 |
  +-----------------------+

chi-squared =     0.893 with 1 d.f.
probability =     0.3446

chi-squared with ties =     1.016 with 1 d.f.
probability =     0.3134

. kwallis _25_ if cmdtype==1, by(yr)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  25 |   703.50 |
  | 2008 |  34 |  1066.50 |
  +-----------------------+

chi-squared =     0.509 with 1 d.f.
probability =     0.4757

chi-squared with ties =     0.563 with 1 d.f.
probability =     0.4529
```

```
. kwallis _26_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  26 |   717.50 |
  | 2008 |  37 |  1298.50 |
  +-----------------------+

chi-squared =     2.555 with 1 d.f.
probability =     0.1099

chi-squared with ties =     3.012 with 1 d.f.
probability =     0.0827

. kwallis _27_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  26 |   775.00 |
  | 2008 |  38 |  1305.00 |
  +-----------------------+

chi-squared =     0.916 with 1 d.f.
probability =     0.3386

chi-squared with ties =     1.008 with 1 d.f.
probability =     0.3154

. kwallis _281_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  27 |   826.00 |
  | 2008 |  38 |  1319.00 |
  +-----------------------+

chi-squared =     0.749 with 1 d.f.
probability =     0.3869

chi-squared with ties =     0.850 with 1 d.f.
probability =     0.3565

. kwallis _282_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  27 |   873.00 |
  | 2008 |  38 |  1272.00 |
  +-----------------------+

chi-squared =     0.057 with 1 d.f.
probability =     0.8106

chi-squared with ties =     0.064 with 1 d.f.
probability =     0.7996
```

```
. kwallis _283_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  26 |   805.00 |
  | 2008 |  36 |  1148.00 |
  +-----------------------+

chi-squared =     0.040 with 1 d.f.
probability =     0.8417

chi-squared with ties =     0.046 with 1 d.f.
probability =     0.8307

. kwallis _284_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  26 |   924.50 |
  | 2008 |  38 |  1155.50 |
  +-----------------------+

chi-squared =     1.181 with 1 d.f.
probability =     0.2772

chi-squared with ties =     1.411 with 1 d.f.
probability =     0.2349

. kwallis _29_ if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  26 |   725.50 |
  | 2008 |  37 |  1290.50 |
  +-----------------------+

chi-squared =     2.211 with 1 d.f.
probability =     0.1371

chi-squared with ties =     2.557 with 1 d.f.
probability =     0.1098

. ***** SQ CC SME 2008 vs 2006 statistical evaluation of difference.
. tabstat  q34 _35_ _36_ _37_ _38_ _39_ _40_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |       q34      _35_      _36_      _37_      _38_      _39_      _40_
-------+--------------------------------------------------------------------------
  2006 |        34        32        28        32        32        31        32
       |  1.058824   1.59375  1.571429     1.125   1.21875  1.322581     1.625
       |  .2388326  .7560242  .6900656  .3360108  .4200134   .475191  .7513429
-------+--------------------------------------------------------------------------
  2008 |        24        22        20        24        24        24        21
       |  1.083333  1.727273       1.6  1.166667     1.125     1.125  1.666667
       |  .2823299  .7672969   .680557  .3806935   .337832   .337832  .7302967
-------+--------------------------------------------------------------------------
```

```
. tabstat _41_ _42_ _43_ _441_ _442_ _443_ _444_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |      _41_      _42_      _43_     _441_     _442_     _443_     _444_
-------+------------------------------------------------------------------------
  2006 |        32        33        30        31        31        31        33
       |   1.78125  1.181818  1.233333  2.064516  1.709677  1.387097  1.454545
       |  .9413229  .3916747  .4301831  .8920196  .7390782  .6152192  .7111131
-------+------------------------------------------------------------------------
  2008 |        22        24        22        22        22        22        21
       |  1.909091      1.25  1.272727  1.909091  1.590909  1.545455  1.428571
       |    1.1088  .4423259  .4558423  .7501804  .7341397  .7385489  .6761234
-------+------------------------------------------------------------------------

. tabstat _45_ _461_ _462_ _463_ _464_ _471_ _472_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |      _45_     _461_     _462_     _463_     _464_     _471_     _472_
-------+------------------------------------------------------------------------
  2006 |        32        29        29        29        29        31        30
       |   1.09375  1.344828  1.413793   1.37931  1.482759  1.516129  1.433333
       |  .2961446   .552647  .6277648  .6218517  .6876819  .6768046  .6789106
-------+------------------------------------------------------------------------
  2008 |        18        15        14        15        15        22        21
       |  1.166667       1.4       1.5  1.466667  1.533333  1.772727  1.714286
       |  .3834825  .7367884  .5188745  .6399405  .6399405  .9725675  1.055597
-------+------------------------------------------------------------------------

. kwallis q34 if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  33 |   936.00 |
  | 2008 |  24 |   717.00 |
  +-----------------------+

chi-squared =     0.115 with 1 d.f.
probability =     0.7343

chi-squared with ties =     0.770 with 1 d.f.
probability =     0.3802

. kwallis _35_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  32 |   844.00 |
  | 2008 |  22 |   641.00 |
  +-----------------------+

chi-squared =     0.402 with 1 d.f.
probability =     0.5262

chi-squared with ties =     0.487 with 1 d.f.
probability =     0.4853
```

```
. kwallis _36_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  28 |   678.00 |
  | 2008 |  20 |   498.00 |
  +-----------------------+

chi-squared =     0.028 with 1 d.f.
probability =     0.8671

chi-squared with ties =     0.035 with 1 d.f.
probability =     0.8521

. kwallis _37_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  32 |   896.00 |
  | 2008 |  24 |   700.00 |
  +-----------------------+

chi-squared =     0.070 with 1 d.f.
probability =     0.7911

chi-squared with ties =     0.191 with 1 d.f.
probability =     0.6621

. kwallis _38_ if cmdtype==2, by(yr)

Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  32 |   948.00 |
  | 2008 |  24 |   648.00 |
  +-----------------------+

chi-squared =     0.355 with 1 d.f.
probability =     0.5511

chi-squared with ties =     0.807 with 1 d.f.
probability =     0.3690

. kwallis _39_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   941.50 |
  | 2008 |  24 |   598.50 |
  +-----------------------+

chi-squared =     1.556 with 1 d.f.
probability =     0.2123

chi-squared with ties =     2.873 with 1 d.f.
probability =     0.0901
```

```
. kwallis _40_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  32 |   850.00 |
  | 2008 |  21 |   581.00 |
  +-----------------------+

chi-squared =     0.065 with 1 d.f.
probability =     0.7990

chi-squared with ties =     0.079 with 1 d.f.
probability =     0.7785

. kwallis _41_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  32 |   863.00 |
  | 2008 |  22 |   622.00 |
  +-----------------------+

chi-squared =     0.090 with 1 d.f.
probability =     0.7647

chi-squared with ties =     0.104 with 1 d.f.
probability =     0.7468

. kwallis _42_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  33 |   930.00 |
  | 2008 |  24 |   723.00 |
  +-----------------------+

chi-squared =     0.190 with 1 d.f.
probability =     0.6626

chi-squared with ties =     0.382 with 1 d.f.
probability =     0.5366

. kwallis _43_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  30 |   782.00 |
  | 2008 |  22 |   596.00 |
  +-----------------------+

chi-squared =     0.058 with 1 d.f.
probability =     0.8097

chi-squared with ties =     0.103 with 1 d.f.
probability =     0.7482
```

```
. kwallis _441_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   868.00 |
  | 2008 |  22 |   563.00 |
  +-----------------------+

chi-squared =     0.313 with 1 d.f.
probability =     0.5758

chi-squared with ties =     0.351 with 1 d.f.
probability =     0.5533

. kwallis _442_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   868.50 |
  | 2008 |  22 |   562.50 |
  +-----------------------+

chi-squared =     0.323 with 1 d.f.
probability =     0.5696

chi-squared with ties =     0.388 with 1 d.f.
probability =     0.5332

. kwallis _443_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   801.50 |
  | 2008 |  22 |   629.50 |
  +-----------------------+

chi-squared =     0.411 with 1 d.f.
probability =     0.5216

chi-squared with ties =     0.573 with 1 d.f.
probability =     0.4492

. kwallis _444_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  33 |   910.50 |
  | 2008 |  21 |   574.50 |
  +-----------------------+

chi-squared =     0.003 with 1 d.f.
probability =     0.9575

chi-squared with ties =     0.004 with 1 d.f.
probability =     0.9489
```

```
. kwallis _45_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  32 |   795.00 |
  | 2008 |  18 |   480.00 |
  +-----------------------+

chi-squared =     0.180 with 1 d.f.
probability =     0.6712

chi-squared with ties =     0.568 with 1 d.f.
probability =     0.4509

. kwallis _461_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  29 |   655.00 |
  | 2008 |  15 |   335.00 |
  +-----------------------+

chi-squared =     0.004 with 1 d.f.
probability =     0.9506

chi-squared with ties =     0.006 with 1 d.f.
probability =     0.9382

. kwallis _462_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  29 |   613.50 |
  | 2008 |  14 |   332.50 |
  +-----------------------+

chi-squared =     0.403 with 1 d.f.
probability =     0.5254

chi-squared with ties =     0.547 with 1 d.f.
probability =     0.4594

. kwallis _463_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  29 |   634.50 |
  | 2008 |  15 |   355.50 |
  +-----------------------+

chi-squared =     0.199 with 1 d.f.
probability =     0.6558

chi-squared with ties =     0.286 with 1 d.f.
probability =     0.5925
```

```
. kwallis _464_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  29 |   638.50 |
  | 2008 |  15 |   351.50 |
  +-----------------------+

chi-squared =     0.120 with 1 d.f.
probability =     0.7289

chi-squared with ties =     0.158 with 1 d.f.
probability =     0.6911

. kwallis _471_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   797.00 |
  | 2008 |  22 |   634.00 |
  +-----------------------+

chi-squared =     0.521 with 1 d.f.
probability =     0.4703

chi-squared with ties =     0.650 with 1 d.f.
probability =     0.4203

. kwallis _472_ if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  30 |   742.00 |
  | 2008 |  21 |   584.00 |
  +-----------------------+

chi-squared =     0.529 with 1 d.f.
probability =     0.4671

chi-squared with ties =     0.716 with 1 d.f.
probability =     0.3974

.
. ***** Q47_1 vs Q47 - Better prepared Deployed or in Garrison for 2008 and 2006
. tabstat _441_ _442_ _443_ _444_ _45_, statistics (n mean sd) by(yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |     _441_     _442_     _443_     _444_      _45_
-------+----------------------------------------------------
  2006 |        31        31        31        33        32
       |  2.064516  1.709677  1.387097  1.454545   1.09375
       |  .8920196  .7390782  .6152192  .7111131  .2961446
-------+----------------------------------------------------
  2008 |        22        22        22        21        18
       |  1.909091  1.590909  1.545455  1.428571  1.166667
       |  .7501804  .7341397  .7385489  .6761234  .3834825
-------+----------------------------------------------------
```

```
. tabstat _461_ _462_ _463_ _464_ _471_  _472_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |     _461_     _462_     _463_     _464_     _471_     _472_
-------+------------------------------------------------------------
  2006 |        29        29        29        29        31        30
       |  1.344828  1.413793   1.37931  1.482759  1.516129  1.433333
       |   .552647  .6277648  .6218517  .6876819  .6768046  .6789106
-------+------------------------------------------------------------
  2008 |        15        14        15        15        22        21
       |       1.4       1.5  1.466667  1.533333  1.772727  1.714286
       |  .7367884  .5188745  .6399405  .6399405  .9725675  1.055597
-------+------------------------------------------------------------
 Total |        44        43        44        44        53        51
       |  1.363636   1.44186  1.409091       1.5  1.622642   1.54902
       |  .6134504  .5896862  .6220066  .6647259  .8139745  .8558908
-----------------------------------------------------------------------

. kwallis _471_ if year==2008, by(_472_)
Kruskal-Wallis equality-of-populations rank test

  +-------------------------+
  | _472_ | Obs | Rank Sum |
  |-------+-----+----------|
  |     1 |  12 |    80.50 |
  |     2 |   5 |    72.50 |
  |     3 |   3 |    57.50 |
  |     5 |   1 |    20.50 |
  +-------------------------+

chi-squared =    14.873 with 3 d.f.
probability =     0.0019

chi-squared with ties =    17.852 with 3 d.f.
probability =     0.0005

. kwallis _471_ if year==2006, by(_472_)
Kruskal-Wallis equality-of-populations rank test

  +-------------------------+
  | _472_ | Obs | Rank Sum |
  |-------+-----+----------|
  |     1 |  20 |   227.00 |
  |     2 |   7 |   157.50 |
  |     3 |   3 |    80.50 |
  +-------------------------+

chi-squared =    13.842 with 2 d.f.
probability =     0.0010

chi-squared with ties =    17.727 with 2 d.f.
probability =     0.0001
```

```
. kwallis _471_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   797.00 |
  | 2008 |  22 |   634.00 |
  +-----------------------+

chi-squared =     0.521 with 1 d.f.
probability =     0.4703

chi-squared with ties =     0.650 with 1 d.f.
probability =     0.4203

. kwallis _472_, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  30 |   742.00 |
  | 2008 |  21 |   584.00 |
  +-----------------------+

chi-squared =     0.529 with 1 d.f.
probability =     0.4671

chi-squared with ties =     0.716 with 1 d.f.
probability =     0.3974

. ***** SQ CC ATT 2008 vs 2006 statistical evaluation of difference.
. tabstat  _49_ _50_ q51 q52 q53 _54_ q55, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |      _49_      _50_       q51       q52       q53      _54_       q55
-------+--------------------------------------------------------------------------
  2006 |        49        48        49        49        49        49        49
       |  1.020408  1.791667  1.734694  1.653061  1.755102         2  1.489796
       |  .1428571  .7706956  .6382107  .6630429  .6624013  .8416254  .7394381
-------+--------------------------------------------------------------------------
  2008 |        36        30        51        51        50        33        51
       |  1.138889  1.566667  1.686275  1.588235       1.7  1.848485  1.411765
       |  .3507362  .5683208  .6779438  .6686246  .6144518  .7953463  .8288901
-------+--------------------------------------------------------------------------

. tabstat  q56 _571_ _572_ _573_ _574_, statistics (n mean sd) by (yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |       q56     _571_     _572_     _573_     _574_
-------+----------------------------------------------------
  2006 |        49        49        49        47        49
       |  1.755102  2.142857  1.979592  1.829787  1.693878
       |  .6931394  .8897565  .7497165  .7318573  .6832545
-------+----------------------------------------------------
  2008 |        51        32        31        34        34
       |  1.627451   1.84375  1.580645  1.617647  1.588235
       |  .7472827  .7233156  .6204404  .6969503  .6567896
-------+----------------------------------------------------
```

```
. kwallis _49_ if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2002.50 |
  | 2008 |  36 |  1652.50 |
  +-----------------------+

chi-squared =     0.864 with 1 d.f.
probability =     0.3527

chi-squared with ties =     4.388 with 1 d.f.
probability =     0.0362

. kwallis _50_ if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  48 |  1996.00 |
  | 2008 |  30 |  1085.00 |
  +-----------------------+

chi-squared =     1.055 with 1 d.f.
probability =     0.3044

chi-squared with ties =     1.309 with 1 d.f.
probability =     0.2526

. kwallis q51 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2110.00 |
  | 2008 |  36 |  1545.00 |
  +-----------------------+

chi-squared =     0.001 with 1 d.f.
probability =     0.9786

chi-squared with ties =     0.001 with 1 d.f.
probability =     0.9765

. kwallis q52 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2129.50 |
  | 2008 |  36 |  1525.50 |
  +-----------------------+

chi-squared =     0.040 with 1 d.f.
probability =     0.8414

chi-squared with ties =     0.049 with 1 d.f.
probability =     0.8256
```

```
. kwallis q53 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2105.50 |
  | 2008 |  35 |  1464.50 |
  +-----------------------+

chi-squared =     0.044 with 1 d.f.
probability =     0.8347

chi-squared with ties =     0.054 with 1 d.f.
probability =     0.8161

. kwallis _54_ if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2115.00 |
  | 2008 |  33 |  1288.00 |
  +-----------------------+

chi-squared =     0.594 with 1 d.f.
probability =     0.4409

chi-squared with ties =     0.690 with 1 d.f.
probability =     0.4063

. kwallis q55 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2147.50 |
  | 2008 |  36 |  1507.50 |
  +-----------------------+

chi-squared =     0.130 with 1 d.f.
probability =     0.7187

chi-squared with ties =     0.185 with 1 d.f.
probability =     0.6670

. kwallis q56 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2221.00 |
  | 2008 |  36 |  1434.00 |
  +-----------------------+

chi-squared =     1.028 with 1 d.f.
probability =     0.3106

chi-squared with ties =     1.222 with 1 d.f.
probability =     0.2690
```

```
. kwallis _571_ if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2144.00 |
  | 2008 |  32 |  1177.00 |
  +-----------------------+

chi-squared =     1.701 with 1 d.f.
probability =     0.1922

chi-squared with ties =     2.016 with 1 d.f.
probability =     0.1557

. kwallis _572_ if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2208.50 |
  | 2008 |  31 |  1031.50 |
  +-----------------------+

chi-squared =     4.894 with 1 d.f.
probability =     0.0270

chi-squared with ties =     6.132 with 1 d.f.
probability =     0.0133

. kwallis _573_ if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  47 |  2054.00 |
  | 2008 |  34 |  1267.00 |
  +-----------------------+

chi-squared =     1.477 with 1 d.f.
probability =     0.2242

chi-squared with ties =     1.768 with 1 d.f.
probability =     0.1836

. kwallis _574_ if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2126.50 |
  | 2008 |  34 |  1359.50 |
  +-----------------------+

chi-squared =     0.402 with 1 d.f.
probability =     0.5259

chi-squared with ties =     0.498 with 1 d.f.
probability =     0.4802
```

```
. ************************************************************
. ***** Depth and Breadth of Knowledge IFS, SGP, SME, At1FSCC
. ***** Q28-SGP  Q44-SME  Q57-At1FSCC combined into _1 _2 _3 _4
. ***** CMP Breadth and Depth of knowledge for CMD TYPE in 2008
. tabstat  _1 _2 _3 _4, statistic (n mean sd), if year==2008 & cmdtype <=3, by(cmdtype)

Summary statistics: N, mean, sd
  by categories of: cmdtype

    cmdtype |        _1        _2        _3        _4
------------+----------------------------------------
      OG CC |        38        38        36        38
            |  2.394737  2.026316  1.888889  1.684211
            |  1.284828  1.102499  .9791477  1.016227
------------+----------------------------------------
     SQ SME |        22        22        22        21
            |  1.909091  1.590909  1.545455  1.428571
            |  .7501804  .7341397  .7385489  .6761234
------------+----------------------------------------
   SQ 1 ATT |        32        31        34        34
            |   1.84375  1.580645  1.617647  1.588235
            |  .7233156  .6204404  .6969503  .6567896
------------+----------------------------------------

. kwallis _1 if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +---------------------------+
  |  cmdtype | Obs | Rank Sum |
  |----------+-----+----------|
  |    OG CC |  38 |  1954.00 |
  |   SQ SME |  22 |   973.00 |
  | SQ 1 ATT |  32 |  1351.00 |
  +---------------------------+

chi-squared =     2.273 with 2 d.f.
probability =     0.3210

chi-squared with ties =     2.613 with 2 d.f.
probability =     0.2707

. kwallis _2 if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +---------------------------+
  |  cmdtype | Obs | Rank Sum |
  |----------+-----+----------|
  |    OG CC |  38 |  1948.00 |
  |   SQ SME |  22 |   920.00 |
  | SQ 1 ATT |  31 |  1318.00 |
  +---------------------------+

chi-squared =     2.600 with 2 d.f.
probability =     0.2726

chi-squared with ties =     3.051 with 2 d.f.
probability =     0.2175
```

```
. kwallis _3 if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +---------------------------+
  |  cmdtype | Obs | Rank Sum |
  |----------+-----+----------|
  |    OG CC |  36 |  1829.50 |
  |   SQ SME |  22 |   922.00 |
  | SQ 1 ATT |  34 |  1526.50 |
  +---------------------------+

chi-squared =     1.715 with 2 d.f.
probability =     0.4242

chi-squared with ties =     2.045 with 2 d.f.
probability =     0.3597

. kwallis _4 if year==2008, by(cmdtype)
Kruskal-Wallis equality-of-populations rank test

  +---------------------------+
  |  cmdtype | Obs | Rank Sum |
  |----------+-----+----------|
  |    OG CC |  38 |  1806.00 |
  |   SQ SME |  21 |   894.50 |
  | SQ 1 ATT |  34 |  1670.50 |
  +---------------------------+

chi-squared =     0.786 with 2 d.f.
probability =     0.6750

chi-squared with ties =     1.007 with 2 d.f.
probability =     0.6045

.
. ***** CMP Breadth and Depth of knowledge YR holding cmdtype const
. tabstat  _1 _2 _3 _4, statistic (n mean sd), if cmdtype==1, by(yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |        _1        _2        _3        _4
-------+----------------------------------------
  2006 |        27        27        26        26
       |  1.962963  1.851852  1.769231  1.769231
       |  .7586162  .7181013  .7103629  .6516252
-------+----------------------------------------
  2008 |        38        38        36        38
       |  2.394737  2.026316  1.888889  1.684211
       |  1.284828  1.102499  .9791477  1.016227
-------+----------------------------------------

. tabstat  _1 _2 _3 _4, statistic (n mean sd), if cmdtype==2, by(yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |        _1        _2        _3        _4
-------+----------------------------------------
  2006 |        31        31        31        33
       |  2.064516  1.709677  1.387097  1.454545
       |  .8920196  .7390782  .6152192  .7111131
-------+----------------------------------------
  2008 |        22        22        22        21
       |  1.909091  1.590909  1.545455  1.428571
       |  .7501804  .7341397  .7385489  .6761234
-------+----------------------------------------
```

```
. tabstat  _1 _2 _3 _4, statistic (n mean sd), if cmdtype==3, by(yr)

Summary statistics: N, mean, sd
  by categories of: yr

    yr |        _1        _2        _3        _4
-------+----------------------------------------
  2006 |        49        49        47        49
       |  2.142857  1.959184  1.829787  1.693878
       |  .8897565  .7626484  .7318573  .6832545
-------+----------------------------------------
  2008 |        32        31        34        34
       |   1.84375  1.580645  1.617647  1.588235
       |  .7233156  .6204404  .6969503  .6567896
-------+----------------------------------------

. kwallis _1 if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  27 |   826.00 |
  | 2008 |  38 |  1319.00 |
  +-----------------------+

chi-squared =     0.749 with 1 d.f.
probability =     0.3869

chi-squared with ties =     0.850 with 1 d.f.
probability =     0.3565

. kwallis _1 if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   868.00 |
  | 2008 |  22 |   563.00 |
  +-----------------------+

chi-squared =     0.313 with 1 d.f.
probability =     0.5758

chi-squared with ties =     0.351 with 1 d.f.
probability =     0.5533

. kwallis _1 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2144.00 |
  | 2008 |  32 |  1177.00 |
  +-----------------------+

chi-squared =     1.701 with 1 d.f.
probability =     0.1922

chi-squared with ties =     2.016 with 1 d.f.
probability =     0.1557
```

```
. kwallis _2 if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  27 |   873.00 |
  | 2008 |  38 |  1272.00 |
  +-----------------------+

chi-squared =     0.057 with 1 d.f.
probability =     0.8106

chi-squared with ties =     0.064 with 1 d.f.
probability =     0.7996

. kwallis _2 if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   868.50 |
  | 2008 |  22 |   562.50 |
  +-----------------------+

chi-squared =     0.323 with 1 d.f.
probability =     0.5696

chi-squared with ties =     0.388 with 1 d.f.
probability =     0.5332

. kwallis _2 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2194.00 |
  | 2008 |  31 |  1046.00 |
  +-----------------------+

chi-squared =     4.281 with 1 d.f.
probability =     0.0385

chi-squared with ties =     5.318 with 1 d.f.
probability =     0.0211

. kwallis _3 if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  26 |   805.00 |
  | 2008 |  36 |  1148.00 |
  +-----------------------+

chi-squared =     0.040 with 1 d.f.
probability =     0.8417

chi-squared with ties =     0.046 with 1 d.f.
probability =     0.8307
```

```
. kwallis _3 if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  31 |   801.50 |
  | 2008 |  22 |   629.50 |
  +-----------------------+

chi-squared =     0.411 with 1 d.f.
probability =     0.5216

chi-squared with ties =     0.573 with 1 d.f.
probability =     0.4492

. kwallis _3 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  47 |  2054.00 |
  | 2008 |  34 |  1267.00 |
  +-----------------------+

chi-squared =     1.477 with 1 d.f.
probability =     0.2242

chi-squared with ties =     1.768 with 1 d.f.
probability =     0.1836

. kwallis _4 if cmdtype==1, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  26 |   924.50 |
  | 2008 |  38 |  1155.50 |
  +-----------------------+

chi-squared =     1.181 with 1 d.f.
probability =     0.2772

chi-squared with ties =     1.411 with 1 d.f.
probability =     0.2349

. kwallis _4 if cmdtype==2, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  33 |   910.50 |
  | 2008 |  21 |   574.50 |
  +-----------------------+

chi-squared =     0.003 with 1 d.f.
probability =     0.9575

chi-squared with ties =     0.004 with 1 d.f.
probability =     0.9489
```

```
. kwallis _4 if cmdtype==3, by(yr)
Kruskal-Wallis equality-of-populations rank test

  +-----------------------+
  |   yr | Obs | Rank Sum |
  |------+-----+----------|
  | 2006 |  49 |  2126.50 |
  | 2008 |  34 |  1359.50 |
  +-----------------------+

chi-squared =     0.402 with 1 d.f.
probability =     0.5259

chi-squared with ties =     0.498 with 1 d.f.
probability =     0.4802

. ***** CMP Breadth and Depth of Knowledge of IFS and SGP in 2008
. tabstat _111_ _1 _112_ _2 _113_ _3 _114_ _4, statistic (n mean sd), if cmdtype==1 & year==2008

   stats |     _111_        _1     _112_        _2     _113_        _3     _114_        _4
---------+----------------------------------------------------------------------------------
       N |        39        38        39        38        39        36        39        38
    mean |  1.923077  2.394737  1.641026  2.026316  1.692308  1.888889  1.589744  1.684211
      sd |  1.035797  1.284828  .8425269  1.102499  .8630986  .9791477  .9380256  1.016227
---------------------------------------------------------------------------------------------

. kwallis _111_ if year==2008 & cmdtype==1, by(_1)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _1 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |   9 |    84.00 |
  |  2 |  18 |   333.00 |
  |  3 |   2 |    48.00 |
  |  4 |   5 |   156.50 |
  |  5 |   4 |   119.50 |
  +---------------------+

chi-squared =    17.130 with 4 d.f.
probability =     0.0018

chi-squared with ties =    20.757 with 4 d.f.
probability =     0.0004

. kwallis _112_ if year==2008 & cmdtype==1, by(_2)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _2 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  16 |   185.00 |
  |  2 |  10 |   190.00 |
  |  3 |   8 |   245.50 |
  |  4 |   3 |    82.50 |
  |  5 |   1 |    38.00 |
  +---------------------+

chi-squared =    20.616 with 4 d.f.
probability =     0.0004

chi-squared with ties =    25.634 with 4 d.f.
probability =     0.0001
```

```
. kwallis _113_ if year==2008 & cmdtype==1, by(_3)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _3 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  16 |   167.50 |
  |  2 |  10 |   212.00 |
  |  3 |   9 |   250.50 |
  |  5 |   1 |    36.00 |
  +---------------------+

chi-squared =    19.776 with 3 d.f.
probability =     0.0002

chi-squared with ties =    23.909 with 3 d.f.
probability =     0.0001

. kwallis _114_ if year==2008 & cmdtype==1, by(_4)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _4 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  23 |   309.00 |
  |  2 |   7 |   173.00 |
  |  3 |   6 |   184.00 |
  |  4 |   1 |    37.00 |
  |  5 |   1 |    38.00 |
  +---------------------+

chi-squared =    19.701 with 4 d.f.
probability =     0.0006

chi-squared with ties =    25.921 with 4 d.f.
probability =     0.0001

. ***** CMP Breadth and Depth of Knowledge of IFS and SME in 2008
. tabstat _111_ _1 _112_ _2 _113_ _3 _114_ _4, statistic (n mean sd), if cmdtype==2 & year==2008

   stats |     _111_        _1     _112_        _2     _113_        _3     _114_        _4
---------+--------------------------------------------------------------------------------
       N |        25        22        25        22        25        22        25        21
    mean |      1.64  1.909091      1.48  1.590909      1.56  1.545455      1.36  1.428571
      sd |  .6377042  .7501804  .5859465  .7341397  .7681146  .7385489  .5686241  .6761234
-------------------------------------------------------------------------------------------

. kwallis _111_ if year==2008 & cmdtype==2, by(_1)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _1 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |   7 |    38.50 |
  |  2 |  10 |   149.50 |
  |  3 |   5 |    65.00 |
  +---------------------+

chi-squared =     9.066 with 2 d.f.
probability =     0.0107

chi-squared with ties =    11.584 with 2 d.f.
probability =     0.0031
```

```
. kwallis _112_ if year==2008 & cmdtype==2, by(_2)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _2 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  12 |    94.50 |
  |  2 |   7 |   112.00 |
  |  3 |   3 |    46.50 |
  +---------------------+

chi-squared =     8.240 with 2 d.f.
probability =     0.0162

chi-squared with ties =    11.030 with 2 d.f.
probability =     0.0040

. kwallis _113_ if year==2008 & cmdtype==2, by(_3)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _3 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  13 |   112.00 |
  |  2 |   6 |    94.50 |
  |  3 |   3 |    46.50 |
  +---------------------+

chi-squared =     6.274 with 2 d.f.
probability =     0.0434

chi-squared with ties =     8.398 with 2 d.f.
probability =     0.0150

. kwallis _114_ if year==2008 & cmdtype==2, by(_4)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _4 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  14 |   122.00 |
  |  2 |   5 |    80.00 |
  |  3 |   2 |    29.00 |
  +---------------------+

chi-squared =     5.783 with 2 d.f.
probability =     0.0555

chi-squared with ties =     9.277 with 2 d.f.
probability =     0.0097

.
. ***** CMP Breadth and Depth of Knowledge of IFS and At1FSCC in 2008
. tabstat _111_ _1 _112_ _2 _113_ _3 _114_ _4, statistic (n mean sd), if cmdtype==3 & year==2008

   stats |     _111_        _1     _112_        _2     _113_        _3     _114_        _4
---------+--------------------------------------------------------------------------------
       N |        35        32        35        31        34        34        36        34
    mean |  1.685714   1.84375  1.485714  1.580645  1.441176  1.617647  1.277778  1.588235
      sd |  .6311254  .7233156  .5621089  .6204404  .6125543  .6969503  .4542568  .6567896
--------------------------------------------------------------------------------------------
```

```
. kwallis _111_ if year==2008 & cmdtype==3, by(_1)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _1 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  11 |   111.50 |
  |  2 |  14 |   250.00 |
  |  3 |   6 |   134.50 |
  +---------------------+

chi-squared =     8.148 with 2 d.f.
probability =     0.0170

chi-squared with ties =    10.246 with 2 d.f.
probability =     0.0060

. kwallis _112_ if year==2008 & cmdtype==3, by(_2)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _2 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  15 |   181.00 |
  |  2 |  14 |   264.00 |
  |  3 |   2 |    51.00 |
  +---------------------+

chi-squared =     6.373 with 2 d.f.
probability =     0.0413

chi-squared with ties =     8.945 with 2 d.f.
probability =     0.0114

. kwallis _113_ if year==2008 & cmdtype==3, by(_3)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _3 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  16 |   228.50 |
  |  2 |  13 |   236.00 |
  |  3 |   4 |    96.50 |
  +---------------------+

chi-squared =     3.622 with 2 d.f.
probability =     0.1635

chi-squared with ties =     5.066 with 2 d.f.
probability =     0.0794

. kwallis _114_ if year==2008 & cmdtype==3, by(_4)
Kruskal-Wallis equality-of-populations rank test

  +---------------------+
  | _4 | Obs | Rank Sum |
  |----+-----+----------|
  |  1 |  17 |   229.50 |
  |  2 |  14 |   291.00 |
  |  3 |   3 |    74.50 |
  +---------------------+

chi-squared =     5.894 with 2 d.f.
probability =     0.0525

chi-squared with ties =    10.909 with 2 d.f.
probability =     0.0043
```

```
. ************************************************************
. ***** Significance of Regular Frequent Flights in IFS.
. table Fly, by(yr) c(n _7_ mean _7_ sd _7_)
-------------------------------------------
yr and    |
Fly       |     N(_7_)   mean(_7_)     sd(_7_)
----------+--------------------------------
2006      |
      Yes |        101   1.8415842    .7447506
       No |         52   2.7115386    .8930349
----------+--------------------------------
2008      |
      Yes |         96     1.78125    .7427279
       No |         44   2.4772727    .8487648
-------------------------------------------

. kwallis __7_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  96 |  6168.00 |
  |  No |  44 |  3702.00 |
  +----------------------+

chi-squared =     7.253 with 1 d.f.
probability =     0.0071

chi-squared with ties =    14.359 with 1 d.f.
probability =     0.0002

. logistic __7_ Fly if year==2008
Logistic regression                               Number of obs   =        140
                                                  LR chi2(1)      =      13.61
                                                  Prob > chi2     =     0.0002
Log likelihood = -65.937078                       Pseudo R2       =     0.0935
------------------------------------------------------------------------------
       __7_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
        Fly |   4.846154   2.108242     3.63   0.000     2.065835    11.36839
------------------------------------------------------------------------------

. kwallis __7_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes | 101 |  6652.00 |
  |  No |  52 |  5129.00 |
  +----------------------+

chi-squared =    18.778 with 1 d.f.
probability =     0.0001

chi-squared with ties =    30.147 with 1 d.f.
probability =     0.0001


. logistic __7_ Fly if year==2006
Logistic regression                               Number of obs   =        153
                                                  LR chi2(1)      =      29.66
                                                  Prob > chi2     =     0.0000
Log likelihood =  -77.85837                       Pseudo R2       =     0.1600

------------------------------------------------------------------------------
       __7_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
        Fly |   7.818182   3.098613     5.19   0.000     3.595386    17.00067
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _8_ mean _8_ sd _8_)

-------------------------------------------
yr and    |
Fly       |     N(_8_)   mean(_8_)     sd(_8_)
----------+--------------------------------
2006      |
      Yes |        100   2.1199999    .9020739
       No |         41   2.8536584    1.108174
----------+--------------------------------
2008      |
      Yes |         97   2.0412371    .8529059
       No |         43   2.8139534     1.05234
-------------------------------------------

. kwallis _8_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  97 |  5969.00 |
  |  No |  43 |  3901.00 |
  +----------------------+

chi-squared =    15.426 with 1 d.f.
probability =     0.0001

chi-squared with ties =    17.234 with 1 d.f.
probability =     0.0001

. logistic __8_ Fly if year==2008
Logistic regression                             Number of obs   =        140
                                                LR chi2(1)      =      15.21
                                                Prob > chi2     =     0.0001
Log likelihood = -84.211577                     Pseudo R2       =     0.0828

------------------------------------------------------------------------------
        __8_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   4.404706   1.712598     3.81   0.000     2.055703    9.437857
------------------------------------------------------------------------------

. kwallis _8_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes | 100 |  6335.00 |
  |  No |  41 |  3676.00 |
  +----------------------+

chi-squared =    12.062 with 1 d.f.
probability =     0.0005

chi-squared with ties =    13.377 with 1 d.f.
probability =     0.0003
. logistic __8_ Fly if year==2006
Logistic regression                             Number of obs   =        141
                                                LR chi2(1)      =       9.86
                                                Prob > chi2     =     0.0017
Log likelihood = -88.904966                     Pseudo R2       =     0.0525

------------------------------------------------------------------------------
        __8_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   3.294118    1.26774     3.10   0.002     1.549368    7.003638
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _10_ mean _10_ sd _10_)

-------------------------------------------
yr and    |
Fly       |    N(_10_)  mean(_10_)    sd(_10_)
----------+--------------------------------
2006      |
      Yes |        101   1.7128713     .637756
       No |         54   2.4074075    .9420676
----------+--------------------------------
2008      |
      Yes |         97   1.7525773    .7504295
       No |         47   2.3404255    .8914228
-------------------------------------------

. kwallis __10_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  97 |  6441.50 |
  |  No |  47 |  3998.50 |
  +----------------------+

chi-squared =     6.340 with 1 d.f.
probability =     0.0118

chi-squared with ties =    12.814 with 1 d.f.
probability =     0.0003

. logistic __10_ Fly if year==2008
Logistic regression                             Number of obs   =        144
                                                LR chi2(1)      =      12.22
                                                Prob > chi2     =     0.0005
Log likelihood = -67.581395                     Pseudo R2       =     0.0829

------------------------------------------------------------------------------
       __10_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   4.396552   1.891722     3.44   0.001     1.891743    10.21791
------------------------------------------------------------------------------

. kwallis __10_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes | 101 |  6986.50 |
  |  No |  54 |  5103.50 |
  +----------------------+

chi-squared =    11.209 with 1 d.f.
probability =     0.0008

chi-squared with ties =    22.296 with 1 d.f.
probability =     0.0001
. logistic __10_ Fly if year==2006
Logistic regression                             Number of obs   =        155
                                                LR chi2(1)      =      21.61
                                                Prob > chi2     =     0.0000
Log likelihood = -69.448274                     Pseudo R2       =     0.1347

------------------------------------------------------------------------------
       __10_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   6.751613     2.9174     4.42   0.000     2.894675    15.74763
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _111_ mean _111_ sd _111_)

------------------------------------------------------------
yr and    |
Fly       |         N(_111_)       mean(_111_)         sd(_111_)
----------+-------------------------------------------------
2006      |
      Yes |              101  2.21782183647156          .7430204
       No |               53  2.88679242134094          1.049915
----------+-------------------------------------------------
2008      |
      Yes |               96  1.63541662693024           .782974
       No |               46  2.15217399597168          .8424143
------------------------------------------------------------

. kwallis __111_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  96 |  6593.00 |
  |  No |  46 |  3560.00 |
  +----------------------+

chi-squared =     1.396 with 1 d.f.
probability =     0.2375

chi-squared with ties =     4.653 with 1 d.f.
probability =     0.0310

. logistic __111_ Fly if year==2008
Logistic regression                               Number of obs   =        142
                                                  LR chi2(1)      =       4.38
                                                  Prob > chi2     =     0.0364
Log likelihood = -47.805939                       Pseudo R2       =     0.0438

------------------------------------------------------------------------------
      __111_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   3.092664   1.671838     2.09   0.037     1.071985    8.922302
------------------------------------------------------------------------------

. kwallis __111_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes | 101 |  7189.50 |
  |  No |  53 |  4745.50 |
  +----------------------+

chi-squared =     5.887 with 1 d.f.
probability =     0.0153

chi-squared with ties =     8.012 with 1 d.f.
probability =     0.0046
. logistic __111_ Fly if year==2006
Logistic regression                               Number of obs   =        154
                                                  LR chi2(1)      =       8.05
                                                  Prob > chi2     =     0.0045
Log likelihood = -101.14171                       Pseudo R2       =     0.0383

------------------------------------------------------------------------------
      __111_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   2.657143   .9259493     2.80   0.005     1.342122    5.260631
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _112_ mean _112_ sd _112_)

------------------------------------------------------------
yr and    |
Fly       |         N(_112_)       mean(_112_)         sd(_112_)
----------+-------------------------------------------------
2006      |
      Yes |              101  1.90099012851715          .7000707
       No |               45  2.51111102104187          .8949917
----------+-------------------------------------------------
2008      |
      Yes |               96  1.38541662693024          .5688362
       No |               45  1.93333327770233          .7198485
------------------------------------------------------------

. kwallis __112_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  96 |  6666.00 |
  |  No |  45 |  3345.00 |
  +----------------------+

chi-squared =     0.440 with 1 d.f.
probability =     0.5071

chi-squared with ties =     2.455 with 1 d.f.
probability =     0.1171

. logistic __112_ Fly if year==2008
Logistic regression                               Number of obs   =        141
                                                  LR chi2(1)      =       2.29
                                                  Prob > chi2     =     0.1302
Log likelihood = -32.325144                       Pseudo R2       =     0.0342

------------------------------------------------------------------------------
      __112_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |      2.875   2.003977     1.52   0.130      .733365    11.27082
------------------------------------------------------------------------------

. kwallis __112_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes | 101 |  6762.50 |
  |  No |  45 |  3968.50 |
  +----------------------+

chi-squared =     7.848 with 1 d.f.
probability =     0.0051

chi-squared with ties =    12.765 with 1 d.f.
probability =     0.0004


. logistic __112_ Fly if year==2006
Logistic regression                               Number of obs   =        146
                                                  LR chi2(1)      =      12.33
                                                  Prob > chi2     =     0.0004
Log likelihood = -81.442656                       Pseudo R2       =     0.0704

------------------------------------------------------------------------------
      __112_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   3.873913    1.50674     3.48   0.000     1.807503    8.302727
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _111_ mean _113_ sd _113_)

-------------------------------------------------------------------
yr and    |
Fly       |         N(_111_)       mean(_113_)         sd(_113_)
----------+--------------------------------------------------------
2006      |
      Yes |              101  1.78787875175476          .6891688
       No |               53  2.27659583091736          .9255345
----------+--------------------------------------------------------
2008      |
      Yes |               96  1.45360827445984          .7219854
       No |               46  1.86363637447357          .8515624
-------------------------------------------------------------------

. kwallis __113_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  97 |  6728.00 |
  |  No |  44 |  3283.00 |
  +----------------------+

chi-squared =     0.501 with 1 d.f.
probability =     0.4793

chi-squared with ties =     2.143 with 1 d.f.
probability =     0.1432

. logistic __113_ Fly if year==2008
Logistic regression                               Number of obs   =        141
                                                  LR chi2(1)      =       2.01
                                                  Prob > chi2     =     0.1559
Log likelihood = -40.033706                       Pseudo R2       =     0.0245

------------------------------------------------------------------------------
      __113_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   2.394737   1.457914     1.43   0.151     .7261846    7.897117
------------------------------------------------------------------------------

. kwallis __113_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  99 |  6691.00 |
  |  No |  47 |  4040.00 |
  +----------------------+

chi-squared =     6.014 with 1 d.f.
probability =     0.0142

chi-squared with ties =    11.986 with 1 d.f.
probability =     0.0005

. logistic __113_ Fly if year==2006
Logistic regression                               Number of obs   =        146
                                                  LR chi2(1)      =      11.42
                                                  Prob > chi2     =     0.0007
Log likelihood = -69.777323                       Pseudo R2       =     0.0756

------------------------------------------------------------------------------
      __113_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   4.106101    1.73523     3.34   0.001      1.79355    9.400385
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _114_ mean _114_ sd _114_)

------------------------------------------------------------
yr and    |
Fly       |         N(_114_)       mean(_114_)         sd(_114_)
----------+-------------------------------------------------
2006      |
      Yes |              100  1.64999997615814          .7159792
       No |               54  2.25925922393799          .8727572
----------+-------------------------------------------------
2008      |
      Yes |               97   1.2886598110199          .5392658
       No |               48              1.75          .7579367
------------------------------------------------------------

. kwallis __114_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  97 |  6935.00 |
  |  No |  48 |  3650.00 |
  +----------------------+

chi-squared =     0.376 with 1 d.f.
probability =     0.5396

chi-squared with ties =     3.162 with 1 d.f.
probability =     0.0754

. logistic __114_ Fly if year==2008
Logistic regression                               Number of obs   =        145
                                                  LR chi2(1)      =       2.95
                                                  Prob > chi2     =     0.0860
Log likelihood = -23.510493                       Pseudo R2       =     0.0590

------------------------------------------------------------------------------
      __114_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   4.318182   3.821661     1.65   0.098     .7620331    24.46966
------------------------------------------------------------------------------

. kwallis __114_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes | 100 |  7124.00 |
  |  No |  54 |  4811.00 |
  +----------------------+

chi-squared =     5.618 with 1 d.f.
probability =     0.0178

chi-squared with ties =    11.648 with 1 d.f.
probability =     0.0006

. logistic __114_ Fly if year==2006
Logistic regression                               Number of obs   =        154
                                                  LR chi2(1)      =      11.24
                                                  Prob > chi2     =     0.0008
Log likelihood = -71.716115                       Pseudo R2       =     0.0727

------------------------------------------------------------------------------
      __114_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   3.980952   1.669626     3.29   0.001     1.749806    9.056993
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _141_ mean _141_ sd _141_)

-----------------------------------------------
yr and    |
Fly       |    N(_141_)  mean(_141_)    sd(_141_)
----------+------------------------------------
2006      |
      Yes |          89      2.52809     1.631298
       No |          35    2.2285714     1.238731
----------+------------------------------------
2008      |
      Yes |          85          1.6     .7590721
       No |          33     2.090909     .9474847
-----------------------------------------------

. kwallis __141_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  85 |  4823.50 |
  |  No |  33 |  2197.50 |
  +----------------------+

chi-squared =     1.968 with 1 d.f.
probability =     0.1606

chi-squared with ties =     5.075 with 1 d.f.
probability =     0.0243

. logistic __141_ Fly if year==2008
Logistic regression                               Number of obs   =        118
                                                  LR chi2(1)      =       4.69
                                                  Prob > chi2     =     0.0303
Log likelihood = -48.051038                       Pseudo R2       =     0.0466

------------------------------------------------------------------------------
     __141_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
         Fly |   3.166667    1.66678     2.19   0.029     1.128681    8.884511
------------------------------------------------------------------------------

. kwallis __141_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  89 |  5606.00 |
  |  No |  35 |  2144.00 |
  +----------------------+

chi-squared =     0.058 with 1 d.f.
probability =     0.8092

chi-squared with ties =     0.084 with 1 d.f.
probability =     0.7719

. logistic __141_ Fly if year==2006
Logistic regression                               Number of obs   =        124
                                                  LR chi2(1)      =       0.09
                                                  Prob > chi2     =     0.7704
Log likelihood = -81.186128                       Pseudo R2       =     0.0005

------------------------------------------------------------------------------
     __141_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
         Fly |   .8853755   .3703493    -0.29   0.771     .3900076    2.009935
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _142_ mean _142_ sd _142_)

-----------------------------------------------
yr and    |
Fly       |    N(_142_)  mean(_142_)    sd(_142_)
----------+------------------------------------
2006      |
      Yes |          86    2.5116279     1.592218
       No |          31    2.2903225     1.243478
----------+------------------------------------
2008      |
      Yes |          81    1.5679013     .7235031
       No |          35    2.1142857      .963188
-----------------------------------------------

. kwallis __142_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  81 |  4398.00 |
  |  No |  35 |  2388.00 |
  +----------------------+

chi-squared =     4.194 with 1 d.f.
probability =     0.0406

chi-squared with ties =    11.178 with 1 d.f.
probability =     0.0008

. logistic __142_ Fly if year==2008
Logistic regression                               Number of obs   =        116
                                                  LR chi2(1)      =      10.32
                                                  Prob > chi2     =     0.0013
Log likelihood = -43.175258                       Pseudo R2       =     0.1067

------------------------------------------------------------------------------
     __142_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
        Fly |   5.729167   3.203017     3.12   0.002     1.915175    17.13856
------------------------------------------------------------------------------

. kwallis __142_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  86 |  5081.50 |
  |  No |  31 |  1821.50 |
  +----------------------+

chi-squared =     0.002 with 1 d.f.
probability =     0.9631

chi-squared with ties =     0.003 with 1 d.f.
probability =     0.9555

. logistic __142_ Fly if year==2006
Logistic regression                               Number of obs   =        117
                                                  LR chi2(1)      =       0.00
                                                  Prob > chi2     =     0.9553
Log likelihood = -76.379049                       Pseudo R2       =     0.0000

------------------------------------------------------------------------------
     __142_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
        Fly |   .9758065   .4268514    -0.06   0.955     .4140175    2.299898
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _151_ mean _151_ sd _151_)

-----------------------------------------------
yr and    |
Fly       |    N(_151_)  mean(_151_)    sd(_151_)
----------+------------------------------------
2006      |
      Yes |         100         1.91     .6681045
       No |          44    2.5681818     .8462703
----------+------------------------------------
2008      |
      Yes |          97    1.5257732     .6469928
       No |          44    2.0227273     .8487648
-----------------------------------------------

. kwallis __151_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  97 |  6516.50 |
  |  No |  44 |  3494.50 |
  +----------------------+

chi-squared =     2.718 with 1 d.f.
probability =     0.0992

chi-squared with ties =    11.635 with 1 d.f.
probability =     0.0006

. logistic __151_ Fly if year==2008
Logistic regression                               Number of obs   =        141
                                                  LR chi2(1)      =      10.73
                                                  Prob > chi2     =     0.0011
Log likelihood = -35.673559                       Pseudo R2       =     0.1308

------------------------------------------------------------------------------
      __151_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   8.057143   5.603358     3.00   0.003     2.061632    31.48843
------------------------------------------------------------------------------

. kwallis __151_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes | 100 |  6502.00 |
  |  No |  44 |  3938.00 |
  +----------------------+

chi-squared =    10.524 with 1 d.f.
probability =     0.0012

chi-squared with ties =    18.057 with 1 d.f.
probability =     0.0001

. logistic __151_ Fly if year==2006
Logistic regression                               Number of obs   =        144
                                                  LR chi2(1)      =      17.27
                                                  Prob > chi2     =     0.0000
Log likelihood = -74.465464                       Pseudo R2       =     0.1039

------------------------------------------------------------------------------
      __151_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |       5.25   2.134586     4.08   0.000     2.366307     11.6479
------------------------------------------------------------------------------
```

```
. table Fly, by(yr) c(n _152_ mean _152_ sd _152_)

-----------------------------------------------
yr and    |
Fly       |    N(_152_)  mean(_152_)    sd(_152_)
----------+------------------------------------
2006      |
      Yes |          99    1.7979798     .7556562
       No |          51    2.5294118     .9664976
----------+------------------------------------
2008      |
      Yes |          97    1.5154639     .7515734
       No |          46    2.0217392     .8816432
-----------------------------------------------
. kwallis __152_ if year==2008, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  97 |  6662.50 |
  |  No |  46 |  3633.50 |
  +----------------------+

chi-squared =     1.930 with 1 d.f.
probability =     0.1647

chi-squared with ties =     7.286 with 1 d.f.
probability =     0.0070

. logistic __152_ Fly if year==2008
Logistic regression                               Number of obs   =        143
                                                  LR chi2(1)      =       6.78
                                                  Prob > chi2     =     0.0092
Log likelihood = -42.433747                       Pseudo R2       =     0.0740

------------------------------------------------------------------------------
      __152_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   4.475676   2.643995     2.54   0.011     1.406091    14.24636
------------------------------------------------------------------------------

. kwallis __152_ if year==2006, by(Fly)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | Fly | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  99 |  6517.50 |
  |  No |  51 |  4807.50 |
  +----------------------+

chi-squared =    14.415 with 1 d.f.
probability =     0.0001

chi-squared with ties =    26.343 with 1 d.f.
probability =     0.0001

. logistic __152_ Fly if year==2006
Logistic regression                               Number of obs   =        150
                                                  LR chi2(1)      =      25.57
                                                  Prob > chi2     =     0.0000
Log likelihood = -69.875079                       Pseudo R2       =     0.1547

------------------------------------------------------------------------------
      __152_ | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         Fly |   7.692308   3.270138     4.80   0.000     3.343456    17.69773
------------------------------------------------------------------------------
```

```
. ************************************************************
. ***** Q34 Consider SME to be Aeromedical Advisor affect by... in 2008
. kwallis q34 if year==2008 & q37<3, by(q37)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | q37 | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  20 |   230.00 |
  |  No |   4 |    70.00 |
  +----------------------+

chi-squared =     2.400 with 1 d.f.
probability =     0.1213

chi-squared with ties =    10.455 with 1 d.f.
probability =     0.0012

. tabstat q37, statistic (n mean sd), if year==2008, by(q34)

Summary for variables: q37
     by categories of: q34 (Q34)

   q34 |         N      mean        sd
-------+------------------------------
   Yes |        22  1.090909  .2942449
    No |         2         2         0
-------+------------------------------
 Total |        24  1.166667  .3806935
--------------------------------------
. kwallis q34 if year==2008 & q38<3, by(q38)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | q38 | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  21 |   241.50 |
  |  No |   3 |    58.50 |
  +----------------------+

chi-squared =     3.360 with 1 d.f.
probability =     0.0668
chi-squared with ties =    14.636 with 1 d.f.
probability =     0.0001

. tabstat q38, statistic (n mean sd), if year==2008, by(q34)
Summary for variables: q38
     by categories of: q34 (Q34)

   q34 |         N      mean        sd
-------+------------------------------
   Yes |        22  1.045455  .2132007
    No |         2         2         0
-------+------------------------------
 Total |        24     1.125   .337832
--------------------------------------
. kwallis q34 if year==2008 & q39<3, by(q39)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | q39 | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  21 |   241.50 |
  |  No |   3 |    58.50 |
  +----------------------+

chi-squared =     3.360 with 1 d.f.
probability =     0.0668

chi-squared with ties =    14.636 with 1 d.f.
probability =     0.0001
```

```
. tabstat q39, statistic (n mean sd), if year==2008, by(q34)
Summary for variables: q39
     by categories of: q34 (Q34)

   q34 |         N      mean        sd
-------+------------------------------
   Yes |        22  1.045455  .2132007
    No |         2         2         0
-------+------------------------------
 Total |        24     1.125   .337832
--------------------------------------

. kwallis q34 if year==2008, by(q42)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | q42 | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  18 |   207.00 |
  |  No |   6 |    93.00 |
  +----------------------+

chi-squared =     1.440 with 1 d.f.
probability =     0.2301

chi-squared with ties =     6.273 with 1 d.f.
probability =     0.0123

. tabstat q42, statistic (n mean sd), if year==2008, by (q34)
Summary for variables: q42
     by categories of: q34 (Q34)

   q34 |         N      mean        sd
-------+------------------------------
   Yes |        22  1.181818   .394771
    No |         2         2         0
-------+------------------------------
 Total |        24      1.25  .4423259
--------------------------------------
. kwallis q34 if year ==2008, by(q43)
Kruskal-Wallis equality-of-populations rank test
  +--------------------------------+
  |          q43 | Obs | Rank Sum |
  |--------------+-----+----------|
  |   Frequently |  16 |   184.00 |
  | Occasionally |   6 |    81.00 |
  |        Never |   2 |    35.00 |
  +--------------------------------+

chi-squared =     1.440 with 2 d.f.
probability =     0.4868

chi-squared with ties =     6.273 with 2 d.f.
probability =     0.0434

. tabstat q43, statistic (n mean sd), if year==2008, by (q34)
Summary for variables: q43
     by categories of: q34 (Q34)

   q34 |         N      mean        sd
-------+------------------------------
   Yes |        22  1.318182  .5679004
    No |         2       2.5  .7071068
-------+------------------------------
 Total |        24  1.416667  .6538625
--------------------------------------
```

```
. kwallis q34 if year==2008& q45<3, by(q45)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | q45 | Obs | Rank Sum |
  |-----+-----+----------|
  | Yes |  15 |   135.00 |
  |  No |   3 |    36.00 |
  +----------------------+

chi-squared =     0.789 with 1 d.f.
probability =     0.3743

chi-squared with ties =     5.000 with 1 d.f.
probability =     0.0253

. tabstat q45, statistic (n mean sd), if year==2008, by(q34)
Summary for variables: q45
     by categories of: q34 (Q34)

   q34 |         N      mean        sd
-------+------------------------------
   Yes |        22  1.545455  .8578641
    No |         2       2.5  .7071068
-------+------------------------------
 Total |        24     1.625  .8753881
------------------------------------
. ***** Q49 Consider 1AtFSCC to be Aeromedical Advisor affect by ... in 2008
. kwallis q49 if year==2008 & cmdtype==3, by(q53)
Kruskal-Wallis equality-of-populations rank test

  +--------------------------------+
  |          q53 | Obs | Rank Sum |
  |--------------+-----+----------|
  |   Frequently |  13 |   219.00 |
  | Occasionally |  19 |   329.50 |
  |        Never |   3 |    81.50 |
  +--------------------------------+

chi-squared =     2.644 with 2 d.f.
probability =     0.2666

chi-squared with ties =     7.192 with 2 d.f.
probability =     0.0274

. tabstat q53, statistic (n mean sd),  if year==2008 & cmdtype==3, by(q49)
Summary for variables: q53
     by categories of: q49 (Q49)

   q49 |         N      mean        sd
-------+------------------------------
   Yes |        30  1.633333  .5560534
    No |         5       2.2    .83666
-------+------------------------------
 Total |        35  1.714286  .6217352
------------------------------------
. kwallis q49 if year==2008 & q55<3 & cmdtype==3, by(q55)
Kruskal-Wallis equality-of-populations rank test

  +----------------------+
  | q55 | Obs | Rank Sum |
  |-----+-----+----------|
  |   1 |  25 |   378.50 |
  |   2 |   7 |   149.50 |
  +----------------------+

chi-squared =     2.402 with 1 d.f.
probability =     0.1212

chi-squared with ties =     7.313 with 1 d.f.
probability =     0.0068
```

```
. tabstat q55, statistic (n mean sd),  if year==2008 & q55<3 & cmdtype==3, by(q49)
Summary for variables: q55
     by categories of: q49 (Q49)

   q49 |         N      mean        sd
-------+------------------------------
   Yes |        28  1.142857  .3563483
    No |         4      1.75        .5
-------+------------------------------
 Total |        32   1.21875  .4200134
--------------------------------------
. kwallis q49 if year ==2008 & cmdtype==3, by(q56)
Kruskal-Wallis equality-of-populations rank test

  +-------------------------------+
  |          q56 | Obs | Rank Sum |
  |--------------+-----+----------|
  |   Frequently |  20 |   338.00 |
  | Occasionally |  10 |   160.00 |
  |        Never |   6 |   168.00 |
  +-------------------------------+

chi-squared =     5.903 with 2 d.f.
probability =     0.0523

chi-squared with ties =    16.439 with 2 d.f.
probability =     0.0003

. tabstat q56, statistic (n mean sd),  if year==2008 & cmdtype==3, by(q49)
Summary for variables: q56
     by categories of: q49 (Q49)

   q49 |         N      mean        sd
-------+------------------------------
   Yes |        31  1.451613  .6238969
    No |         5       2.6  .8944272
-------+------------------------------
 Total |        36  1.611111   .766356
--------------------------------------
```

Headquarters U.S. Air Force

Integrity - Service - Excellence

2008 State of the Flight Surgeon:

Assessment of Active Duty Flight Surgeon Operational Support to the Line

Prepared by
Robert R. York Jr., MD, MPH, MS

U.S. AIR FORCE

Survey Purpose

- This is a repeat of Lt Col Dana Windhorst's 2006 State of the Flight Surgeon Survey: Assessment of Active Duty Flight Surgeon Operational Support to the Line.
- The survey was designed to assess the performance of the Flight Surgeons in their operational mission support and medical care roles.

Integrity - Service - Excellence

Survey Design

- Survey subjects were flying or missile/launch operations commanders
  - Operations Group Commanders
  - Squadron Commanders
- Three categories of questions:
  - General questions were asked of all respondents, regarding overall flight surgeon support at their installations (IFS)
  - Ops Group Commanders (OGCC) were surveyed regarding the performance of their SGPs
  - Commanders of squadrons (SME-SqCC) with an assigned SME FS were surveyed regarding the performance of those SME FSs
  - Commanders of squadrons (AtFS-SqCC) with a solitary attached FS (AtFS), were surveyed regarding the performance of those AtFSs

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Return Rates for Survey

Command	Population	Completed Surveys	% Returns	CI	Error Rate
Ops Group CCs 2006	58	31	53	90†	(+/-) 10
Ops Group CCs 2008		39	68††	95	(+/-) 5
Squadron CCs 2006	188	122	65	95	(+/-) 5
Squadron CCs 2008		105	54††	95	(+/-) 5

†N=32 surveys completed to attain 90% Confidence Interval
†† 2006 denominator used.

Flight Surgeon Squadron Level Support

	Squadron Totals 2008	2006
One Assigned FS (SME)	25	31
One Attached FS	36	49
Multiple Attached FS	17	16
No SME or Attached FS	27	26
Total	105	122

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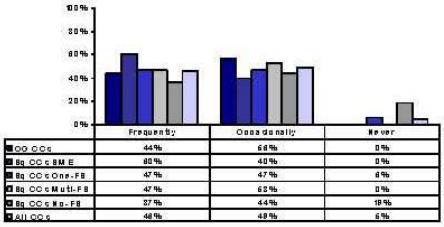
Line Support from Installation Flight Surgeons (IFS): Briefings - Q3

- Do your flight surgeons speak to your personnel at safety briefings, Commanders Calls and other appropriate venues?



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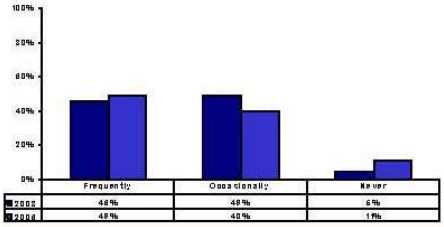
Line Support from Installation Flight Surgeons (IFS): Briefings - Q3 2008 vs 2006

- Do your flight surgeons speak to your personnel at safety briefings, Commanders Calls and other appropriate venues?



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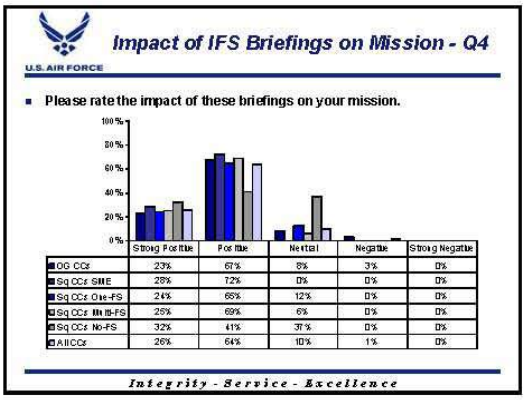
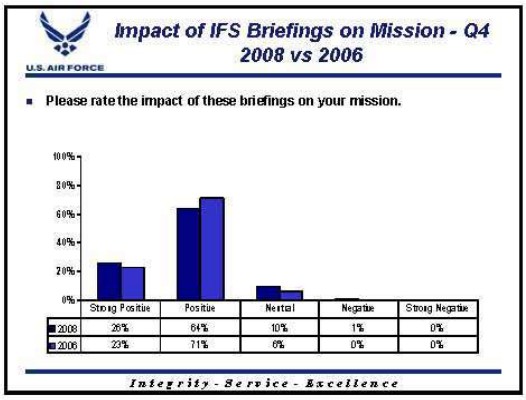
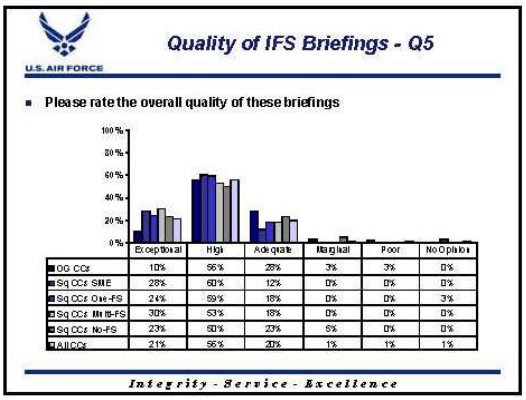


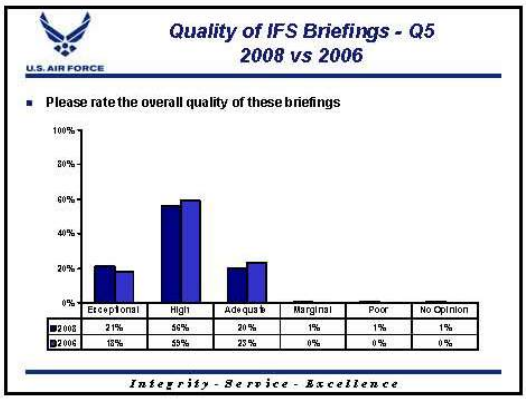
	Strong Positive	Positive	Neutral	Negative	Strong Negative
OG CCs	23%	67%	8%	3%	0%
Sq CCs: SME	28%	72%	0%	0%	0%
Sq CCs: One-FS	24%	65%	12%	0%	0%
Sq CCs: Multi-FS	26%	69%	6%	0%	0%
Sq CCs: No-FS	32%	41%	37%	0%	0%
All CCs	26%	64%	10%	1%	0%



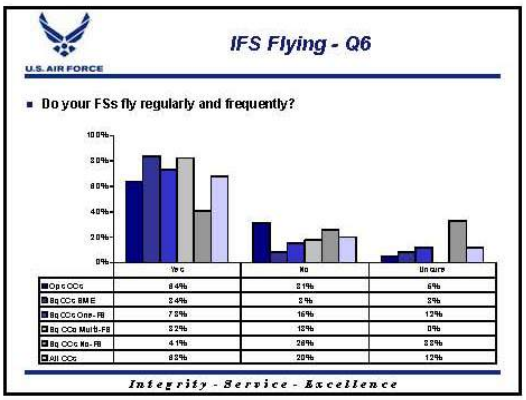
	Strong Positive	Positive	Neutral	Negative	Strong Negative
2008	26%	64%	10%	1%	0%
2006	23%	71%	6%	0%	0%



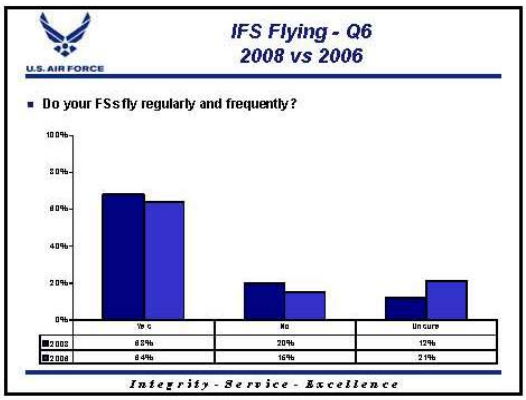
	Exceptional	High	Adequate	Marginal	Poor	No Opinion
OG CCs	10%	56%	28%	3%	3%	0%
Sq CCs: SME	28%	60%	12%	0%	0%	0%
Sq CCs: One-FS	24%	59%	18%	0%	0%	3%
Sq CCs: Multi-FS	30%	53%	18%	0%	0%	0%
Sq CCs: No-FS	23%	50%	23%	6%	0%	0%
All CCs	21%	56%	20%	1%	1%	1%



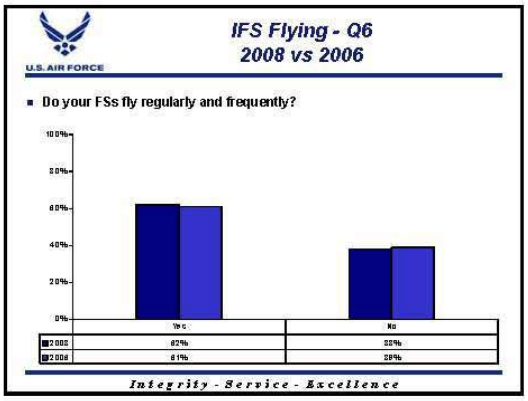
	Exceptional	High	Adequate	Marginal	Poor	No Opinion
2008	21%	56%	20%	1%	1%	1%
2006	18%	59%	23%	0%	0%	0%



	Yes	No	Unsure
Ops CCs	84%	11%	6%
Sq CCs: SME	84%	8%	8%
Sq CCs: One-FS	75%	16%	12%
Sq CCs: Multi-FS	82%	12%	6%
Sq CCs: No-FS	41%	26%	33%
All CCs	69%	20%	12%



	Yes	No	Unsure
2008	69%	20%	12%
2006	84%	16%	11%


IFS Flying - Q6
2008 vs 2006
U.S. AIR FORCE
Do your FSs fly regularly and frequently?
100%
80%
60%
40%
20%
0%
Yes
No
2008 82% 38%
2006 81% 38%
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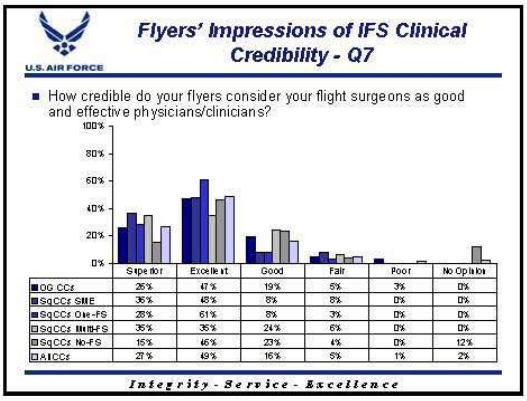
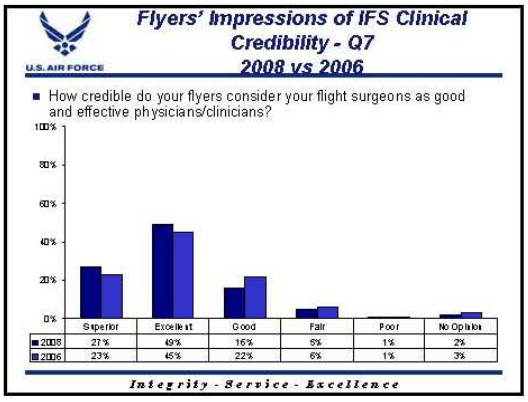
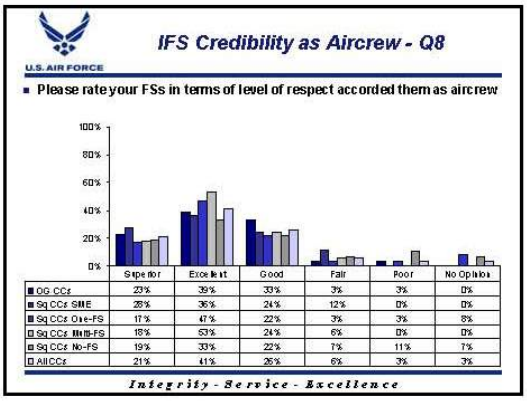
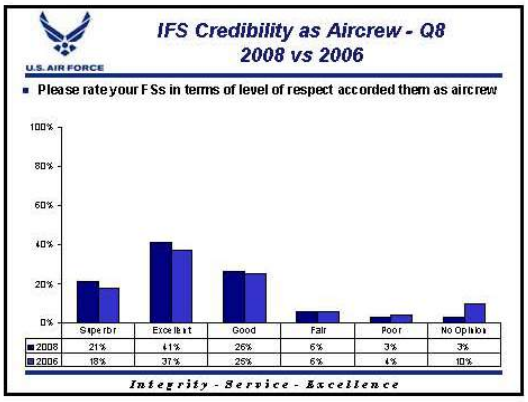
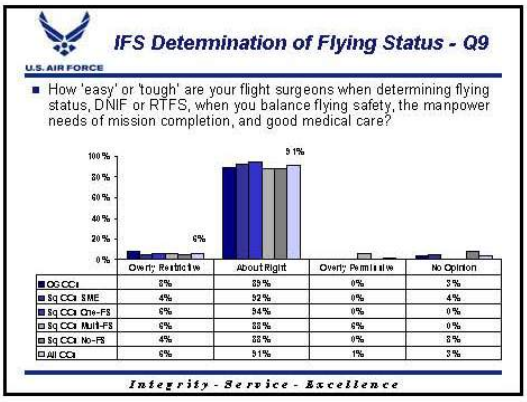
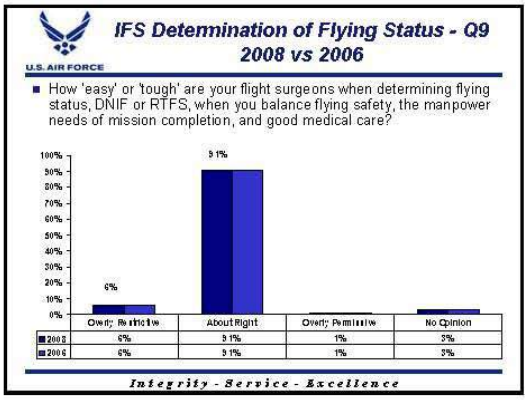

Flyers' Impressions of IFS Clinical Credibility - Q7
U.S. AIR FORCE
How credible do your flyers consider your flight surgeons as good and effective physicians/clinicians?
100%
80%
60%
40%
20%
0%
Superior Excellent Good Fair Poor No Opinion
OG CCs 26% 47% 19% 5% 3% 0%
Sq CCs SME 36% 48% 8% 8% 0% 0%
Sq CCs One-FS 28% 61% 8% 3% 0% 0%
Sq CCs Multi-FS 35% 35% 24% 6% 0% 0%
Sq CCs No-FS 15% 46% 23% 4% 0% 12%
All CCs 27% 49% 16% 5% 1% 2%
Integrity - Service - Excellence

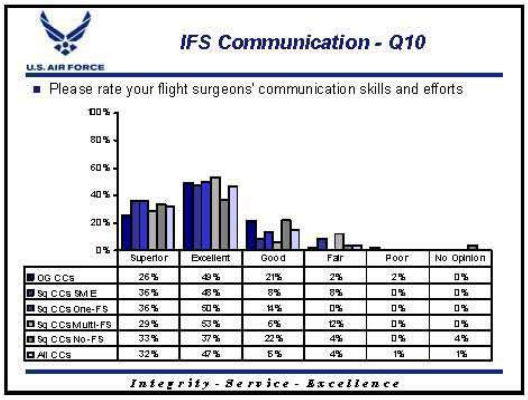

Flyers' Impressions of IFS Clinical Credibility - Q7 2008 vs 2006
U.S. AIR FORCE
How credible do your flyers consider your flight surgeons as good and effective physicians/clinicians?
100%
80%
60%
40%
20%
0%
Superior Excellent Good Fair Poor No Opinion
2008 27% 49% 16% 5% 1% 2%
2006 23% 45% 22% 6% 1% 3%
Integrity - Service - Excellence

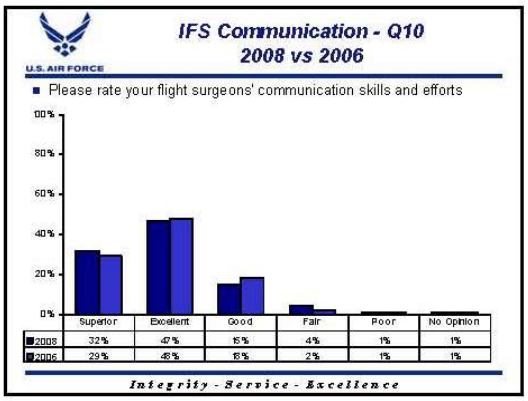

IFS Credibility as Aircrew - Q8
U.S. AIR FORCE
Please rate your FSs in terms of level of respect accorded them as aircrew
100%
80%
60%
40%
20%
0%
Superior Excellent Good Fair Poor No Opinion
OG CCs 23% 39% 33% 3% 3% 0%
Sq CCs SME 28% 36% 24% 12% 0% 0%
Sq CCs One-FS 17% 47% 22% 3% 3% 8%
Sq CCs Multi-FS 18% 53% 24% 6% 0% 0%
Sq CCs No-FS 19% 33% 22% 7% 11% 7%
All CCs 21% 41% 26% 6% 3% 3%
Integrity - Service - Excellence

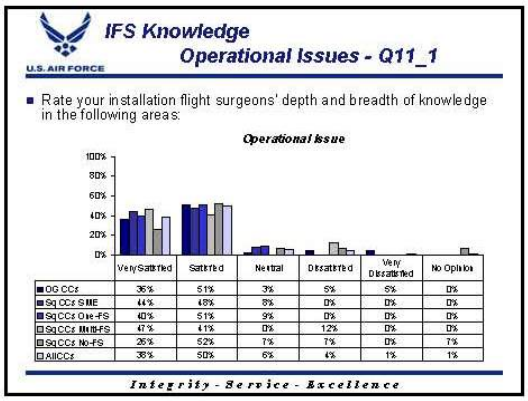

IFS Credibility as Aircrew - Q8
2008 vs 2006
U.S. AIR FORCE
Please rate your FSs in terms of level of respect accorded them as aircrew
100%
80%
60%
40%
20%
0%
Superior Excellent Good Fair Poor No Opinion
2008 21% 41% 26% 6% 3% 3%
2006 18% 37% 25% 6% 4% 10%
Integrity - Service - Excellence

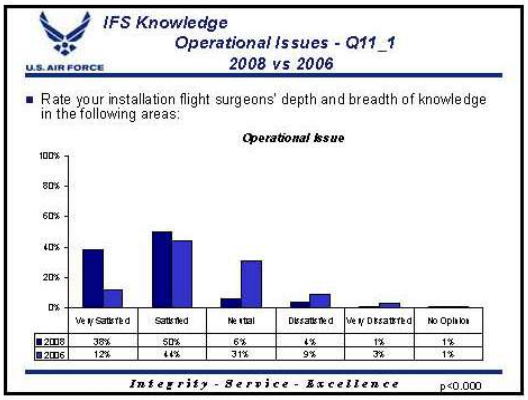

IFS Determination of Flying Status - Q9
U.S. AIR FORCE
How 'easy' or 'tough' are your flight surgeons when determining flying status, DNIF or RTFS, when you balance flying safety, the manpower needs of mission completion, and good medical care?
100%
80%
60%
40%
20%
0%
6%
91%
Overly Restrictive About Right Overly Permissive No Opinion
OG CCs 6% 89% 0% 5%
Sq CCs SME 4% 92% 0% 4%
Sq CCs One-FS 6% 94% 0% 0%
Sq CCs Multi-FS 6% 88% 6% 0%
Sq CCs No-FS 4% 88% 0% 8%
All CCs 6% 91% 1% 3%
Integrity - Service - Excellence

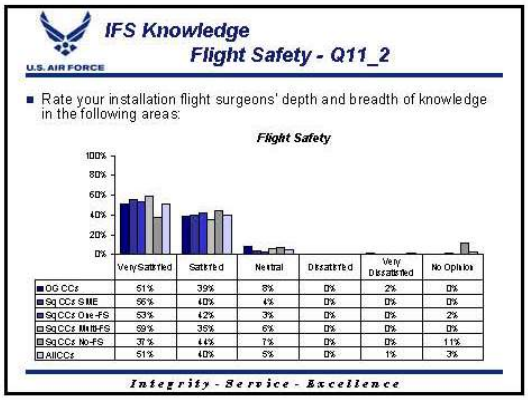

IFS Determination of Flying Status - Q9
2008 vs 2006
U.S. AIR FORCE
How 'easy' or 'tough' are your flight surgeons when determining flying status, DNIF or RTFS, when you balance flying safety, the manpower needs of mission completion, and good medical care?
Overly Restrictive
About Right
Overly Permissive
No Opinion
2008 6% 91% 1% 3%
2006 6% 91% 1% 3%
Integrity - Service - Excellence

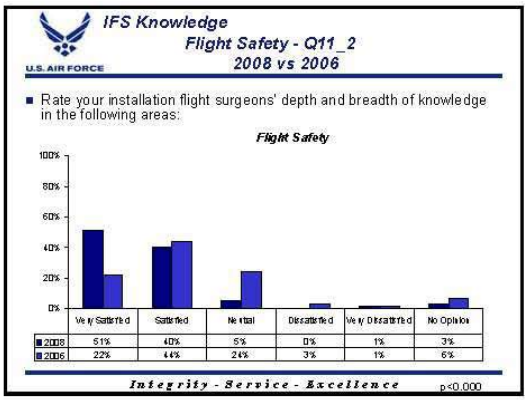

IFS Communication - Q10
U.S. AIR FORCE
Please rate your flight surgeons' communication skills and efforts
Superior Excellent Good Fair Poor No Opinion
OG CCs 26% 49% 21% 2% 2% 0%
Sq CCs SME 36% 48% 8% 8% 0% 0%
Sq CCs One-FS 36% 50% 14% 0% 0% 0%
Sq CCs Multi-FS 29% 53% 6% 12% 0% 0%
Sq CCs No-FS 33% 37% 22% 4% 0% 4%
All CCs 32% 47% 15% 4% 1% 1%
Integrity - Service - Excellence

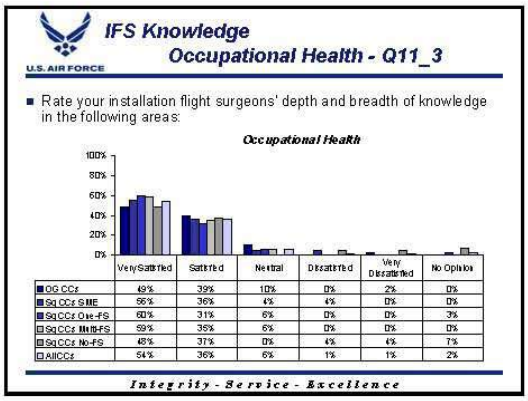

IFS Communication - Q10
2008 vs 2006
U.S. AIR FORCE
Please rate your flight surgeons' communication skills and efforts
Superior Excellent Good Fair Poor No Opinion
2008 32% 47% 15% 4% 1% 1%
2006 29% 48% 18% 2% 1% 1%
Integrity - Service - Excellence

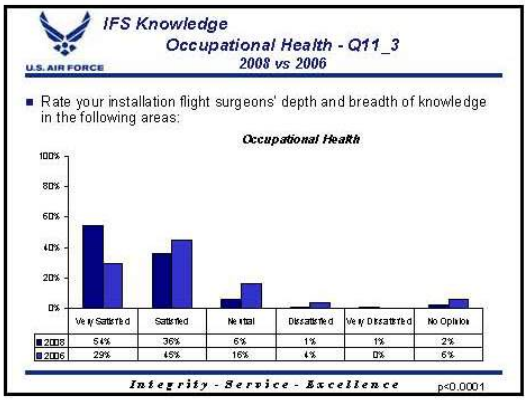

IFS Knowledge
Operational Issues - Q11_1
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Operational Issue
Very Satisfied Satisfied Neutral Dissatisfied Very Dissatisfied No Opinion
OG CCs 35% 51% 3% 5% 5% 0%
Sq CCs SME 44% 48% 8% 0% 0% 0%
Sq CCs One-FS 40% 51% 9% 0% 0% 0%
Sq CCs Multi-FS 47% 41% 0% 12% 0% 0%
Sq CCs No-FS 26% 52% 7% 7% 0% 7%
All CCs 36% 50% 6% 4% 1% 1%
Integrity - Service - Excellence

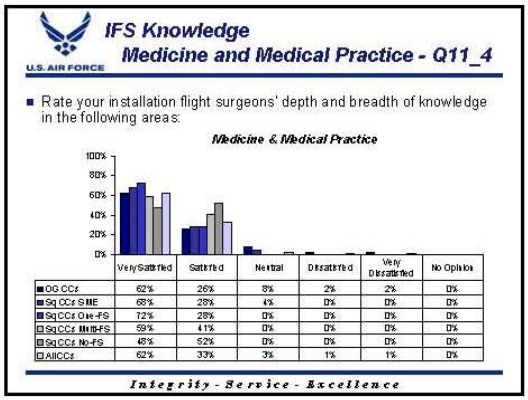

IFS Knowledge
Operational Issues - Q11_1
2008 vs 2006
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Operational Issue
Very Satisfied Satisfied Neutral Dissatisfied Very Dissatisfied No Opinion
2008 38% 50% 6% 4% 1% 1%
2006 12% 44% 31% 9% 3% 1%
Integrity - Service - Excellence p<0.000

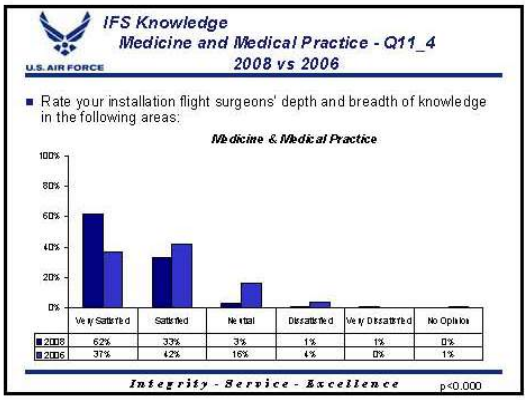

IFS Knowledge
Flight Safety - Q11_2
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Flight Safety
Very Satisfied Satisfied Neutral Dissatisfied Very Dissatisfied No Opinion
OG CCs 51% 39% 8% 0% 2% 0%
Sq CCs SME 56% 40% 4% 0% 0% 0%
Sq CCs One-FS 53% 42% 3% 0% 0% 2%
Sq CCs Multi-FS 59% 35% 6% 0% 0% 0%
Sq CCs No-FS 37% 44% 7% 0% 0% 11%
All CCs 51% 40% 5% 0% 1% 3%
Integrity - Service - Excellence

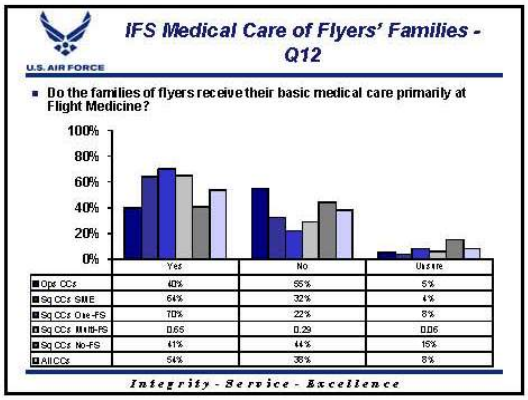

IFS Knowledge
Flight Safety - Q11_2
2008 vs 2006
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Flight Safety
100%
80%
60%
40%
20%
0%
Very Satisfied | Satisfied | Neutral | Dissatisfied | Very Dissatisfied | No Opinion
2008 | 51% | 40% | 5% | 0% | 1% | 3%
2006 | 22% | 44% | 24% | 3% | 1% | 6%
Integrity - Service - Excellence
p<0.000

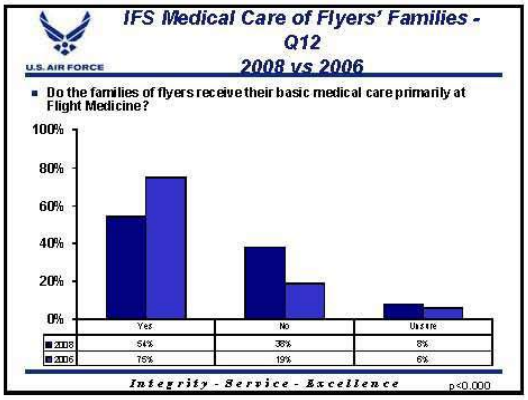

IFS Knowledge
Occupational Health - Q11_3
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Occupational Health
100%
80%
60%
40%
20%
0%
Very Satisfied | Satisfied | Neutral | Dissatisfied | Very Dissatisfied | No Opinion
OG CCs | 49% | 39% | 10% | 0% | 2% | 0%
Sq CCs: SME | 56% | 36% | 4% | 4% | 0% | 0%
Sq CCs: One-FS | 60% | 31% | 6% | 0% | 0% | 3%
Sq CCs: Multi-FS | 59% | 35% | 6% | 0% | 0% | 0%
Sq CCs: No-FS | 48% | 37% | 0% | 4% | 4% | 7%
All CCs | 54% | 36% | 6% | 1% | 1% | 2%
Integrity - Service - Excellence

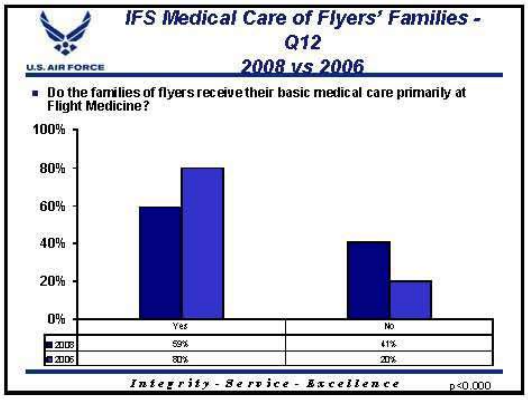

IFS Knowledge
Occupational Health - Q11_3
2008 vs 2006
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Occupational Health
100%
80%
60%
40%
20%
0%
Very Satisfied | Satisfied | Neutral | Dissatisfied | Very Dissatisfied | No Opinion
2008 | 54% | 36% | 6% | 1% | 1% | 2%
2006 | 29% | 45% | 16% | 4% | 0% | 6%
Integrity - Service - Excellence
p<0.0001

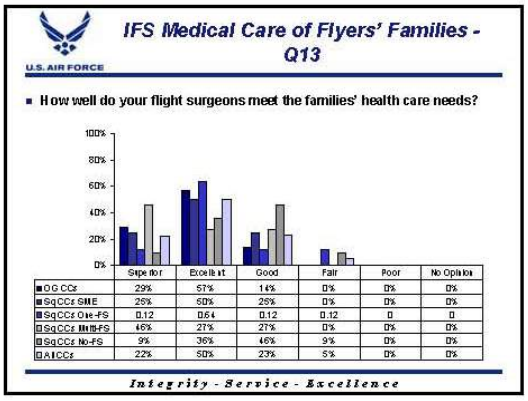

IFS Knowledge
Medicine and Medical Practice - Q11_4
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Medicine & Medical Practice
100%
80%
60%
40%
20%
0%
Very Satisfied | Satisfied | Neutral | Dissatisfied | Very Dissatisfied | No Opinion
OG CCs | 62% | 26% | 8% | 2% | 2% | 0%
Sq CCs: SME | 68% | 28% | 4% | 0% | 0% | 0%
Sq CCs: One-FS | 72% | 28% | 0% | 0% | 0% | 0%
Sq CCs: Multi-FS | 59% | 41% | 0% | 0% | 0% | 0%
Sq CCs: No-FS | 48% | 52% | 0% | 0% | 0% | 0%
All CCs | 62% | 33% | 3% | 1% | 1% | 0%
Integrity - Service - Excellence

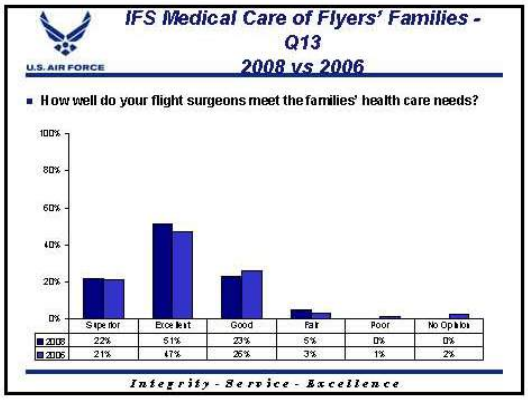

IFS Knowledge
Medicine and Medical Practice - Q11_4
2008 vs 2006
U.S. AIR FORCE
Rate your installation flight surgeons' depth and breadth of knowledge in the following areas:
Medicine & Medical Practice
100%
80%
60%
40%
20%
0%
Very Satisfied | Satisfied | Neutral | Dissatisfied | Very Dissatisfied | No Opinion
2008 | 62% | 33% | 3% | 1% | 1% | 0%
2006 | 37% | 42% | 16% | 4% | 0% | 1%
Integrity - Service - Excellence
p<0.000

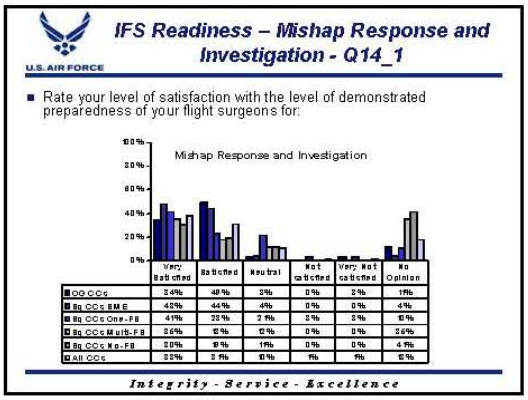

IFS Medical Care of Flyers' Families - Q12
U.S. AIR FORCE
Do the families of flyers receive their basic medical care primarily at Flight Medicine?
100%
80%
60%
40%
20%
0%
Yes | No | Unsure
Ops CCs | 40% | 55% | 5%
Sq CCs: SME | 64% | 32% | 4%
Sq CCs: One-FS | 70% | 22% | 8%
Sq CCs: Multi-FS | 0.65 | 0.29 | 0.06
Sq CCs: No-FS | 41% | 44% | 15%
All CCs | 54% | 38% | 8%
Integrity - Service - Excellence

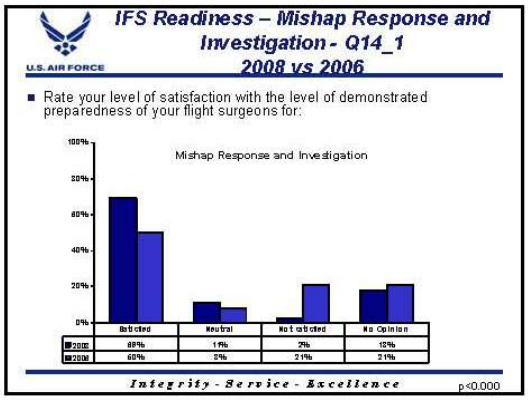

IFS Medical Care of Flyers' Families - Q12
2008 vs 2006
Do the families of flyers receive their basic medical care primarily at Flight Medicine?
100%
80%
60%
40%
20%
0%
Yes
No
Unsure
2008 54% 38% 8%
2006 75% 19% 6%
Integrity - Service - Excellence
p<0.000

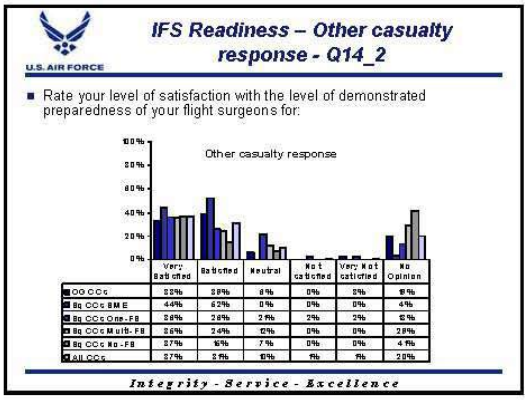

IFS Medical Care of Flyers' Families - Q12
2008 vs 2006
Do the families of flyers receive their basic medical care primarily at Flight Medicine?
100%
80%
60%
40%
20%
0%
Yes
No
2008 59% 41%
2006 80% 20%
Integrity - Service - Excellence
p<0.000

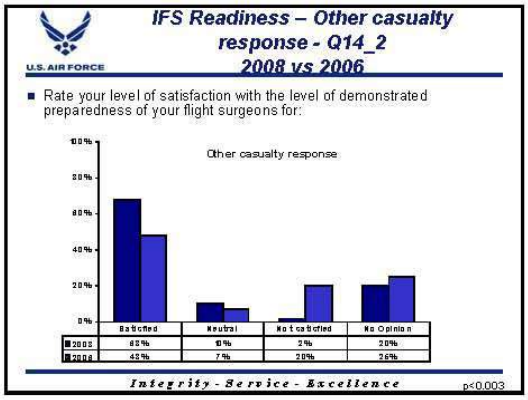

IFS Medical Care of Flyers' Families - Q13
How well do your flight surgeons meet the families' health care needs?
Superior Excellent Good Fair Poor No Opinion
OG CCs 29% 57% 14% 0% 0% 0%
SqCCs SME 25% 50% 25% 0% 0% 0%
SqCCs One-FS 0.12 0.64 0.12 0.12 0 0
SqCCs Multi-FS 46% 27% 27% 0% 0% 0%
SqCCs No-FS 9% 36% 45% 9% 0% 0%
All CCs 22% 50% 23% 5% 0% 0%
Integrity - Service - Excellence

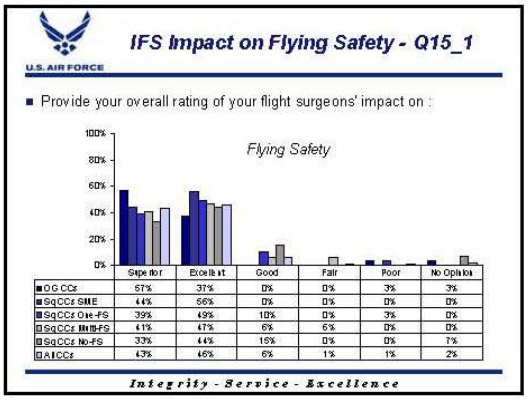

IFS Medical Care of Flyers' Families - Q13
2008 vs 2006
How well do your flight surgeons meet the families' health care needs?
Superior Excellent Good Fair Poor No Opinion
2008 22% 51% 23% 5% 0% 0%
2006 21% 47% 25% 3% 1% 2%
Integrity - Service - Excellence

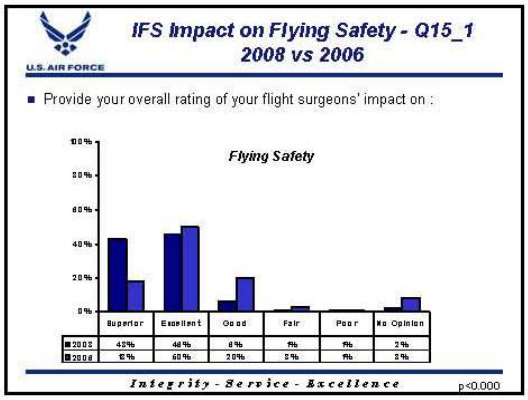

IFS Readiness – Mishap Response and Investigation - Q14_1
Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:
Mishap Response and Investigation
Very Satisfied Satisfied Neutral Not satisfied Very Not satisfied No Opinion
OG CCs 24% 48% 24% 0% 0% 4%
Sq CCs SME 42% 44% 4% 0% 0% 4%
Sq CCs One-FS 41% 35% 24% 0% 0% 0%
Sq CCs Multi-FS 36% 18% 18% 0% 0% 28%
Sq CCs No-FS 20% 18% 18% 0% 0% 44%
All CCs 33% 31% 16% 1% 1% 16%
Integrity - Service - Excellence

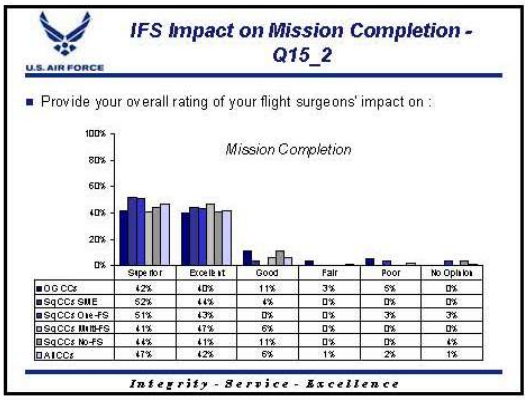

IFS Readiness – Mishap Response and Investigation - Q14_1
2008 vs 2006
Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:
Mishap Response and Investigation
Satisfied Neutral Not satisfied No Opinion
2008 68% 11% 7% 13%
2006 68% 8% 21% 21%
Integrity - Service - Excellence
p<0.000


IFS Readiness – Other casualty response - Q14_2
U.S. AIR FORCE
Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:
Other casualty response
Very Satisfied
Satisfied
Neutral
Not satisfied
Very Not satisfied
No Opinion
OG CCs 33% 39% 6% 0% 6% 16%
Sq CCs SME 44% 52% 0% 0% 0% 4%
Sq CCs One-FS 36% 39% 2% 2% 2% 18%
Sq CCs Multi-FS 36% 34% 0% 0% 0% 29%
Sq CCs No-FS 37% 15% 7% 0% 0% 41%
All CCs 37% 36% 10% 1% 1% 25%
Integrity - Service - Excellence


IFS Readiness – Other casualty response - Q14_2 2008 vs 2006
U.S. AIR FORCE
Rate your level of satisfaction with the level of demonstrated preparedness of your flight surgeons for:
Other casualty response
Satisfied
Neutral
Not satisfied
No Opinion
2003 62% 10% 2% 26%
2008 42% 7% 20% 26%
Integrity - Service - Excellence
p<0.003


IFS Impact on Flying Safety - Q15_1
U.S. AIR FORCE
Provide your overall rating of your flight surgeons' impact on :
Flying Safety
Superior
Excellent
Good
Fair
Poor
No Opinion
OG CCs 57% 37% 0% 0% 3% 3%
Sq CCs SME 44% 56% 0% 0% 0% 0%
Sq CCs One-FS 39% 49% 10% 0% 3% 0%
Sq CCs Multi-FS 41% 47% 6% 6% 0% 0%
Sq CCs No-FS 33% 44% 15% 0% 0% 7%
All CCs 43% 46% 6% 1% 1% 2%
Integrity - Service - Excellence


IFS Impact on Flying Safety - Q15_1 2008 vs 2006
U.S. AIR FORCE
Provide your overall rating of your flight surgeons' impact on :
Flying Safety
Superior
Excellent
Good
Fair
Poor
No Opinion
2003 42% 46% 8% 0% 0% 2%
2008 18% 60% 20% 2% 0% 0%
Integrity - Service - Excellence
p<0.000


IFS Impact on Mission Completion - Q15_2
U.S. AIR FORCE
Provide your overall rating of your flight surgeons' impact on :
Mission Completion
Superior
Excellent
Good
Fair
Poor
No Opinion
OG CCs 42% 40% 11% 3% 5% 0%
Sq CCs SME 52% 44% 4% 0% 0% 0%
Sq CCs One-FS 51% 43% 0% 0% 3% 3%
Sq CCs Multi-FS 41% 47% 6% 0% 0% 0%
Sq CCs No-FS 44% 41% 11% 0% 0% 4%
All CCs 47% 42% 6% 1% 2% 1%
Integrity - Service - Excellence


IFS Impact on Mission Completion - Q15_2 2008 vs 2006
U.S. AIR FORCE
Provide your overall rating of your flight surgeons' impact on :
Mission Completion
Superior
Excellent
Good
Fair
Poor
No Opinion
2003 47% 42% 8% 0% 2% 0%
2008 27% 47% 18% 8% 0% 4%
Integrity - Service - Excellence
p<0.003

U.S. AIR FORCE

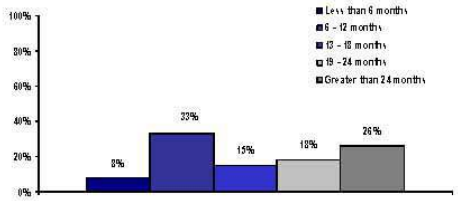
Operations Group Commanders (OG CC) on the Chief of Aeromedical Services (SGP)

Integrity - Service - Excellence

U.S. AIR FORCE

OG CC Time in Command - Q18

- How long have you been, or were you, an operations group commander?

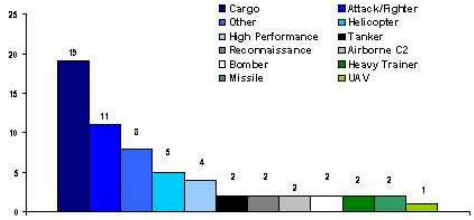


Integrity - Service - Excellence

U.S. AIR FORCE

Operations Group Weapon Systems Q19

- For what weapon systems is (was) your operations group responsible?



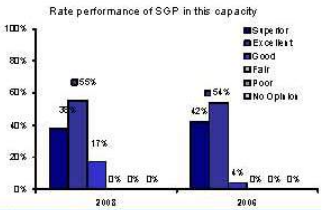
Integrity - Service - Excellence

U.S. AIR FORCE

SGP Support to OG CC - Q20, 21

- **Do you consider your SGP to be your primary aeromedical advisor regarding flight or missile crew medical issues, flying safety, human factors and human performance enhancement?**

	2008	2006
Yes	76%	80%
No	24%	20%

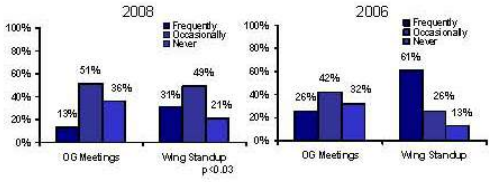


Integrity - Service - Excellence

U.S. AIR FORCE

SGP Attendance at OG and Wing Meetings – Q22, 23

- How often does your SGP attend:

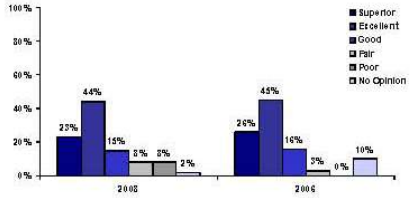


Integrity - Service - Excellence

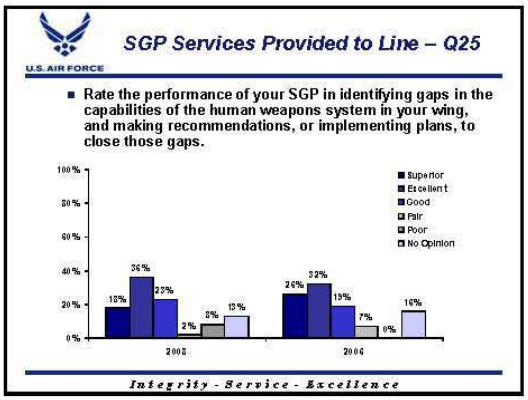
U.S. AIR FORCE

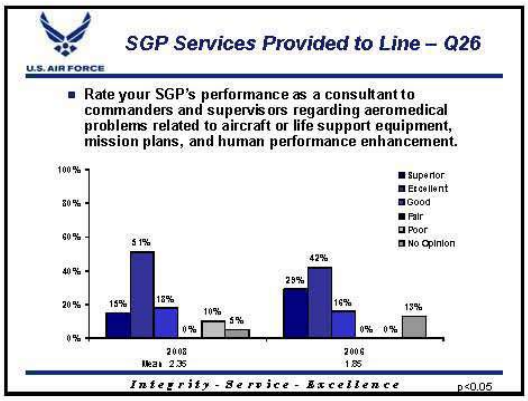
SGP Services Provided to Line – Q24

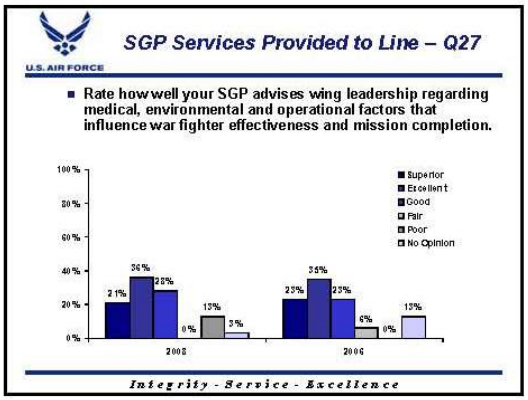
- **Rate your Chief of Aeromedical Services on how well he/she advises wing leadership regarding medical and operational factors that enhances war fighter effectiveness.**

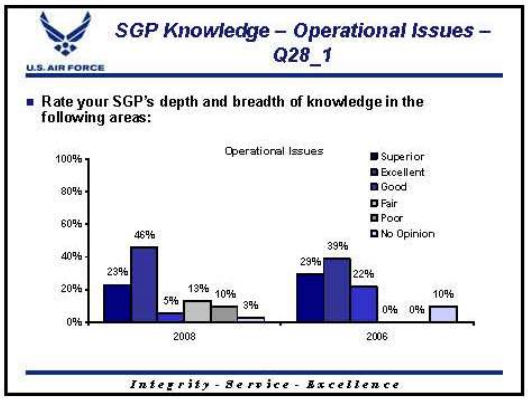


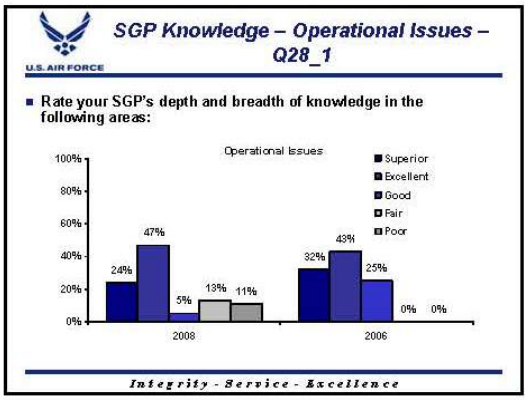
Integrity - Service - Excellence

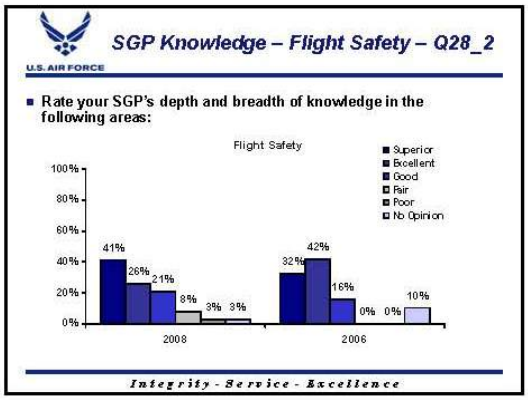

SGP Services Provided to Line – Q25
U.S. AIR FORCE
Rate the performance of your SGP in identifying gaps in the capabilities of the human weapons system in your wing, and making recommendations, or implementing plans, to close those gaps.
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
18%
36%
23%
2%
8%
13%
26%
32%
19%
7%
0%
16%
2008
2006
Integrity - Service - Excellence

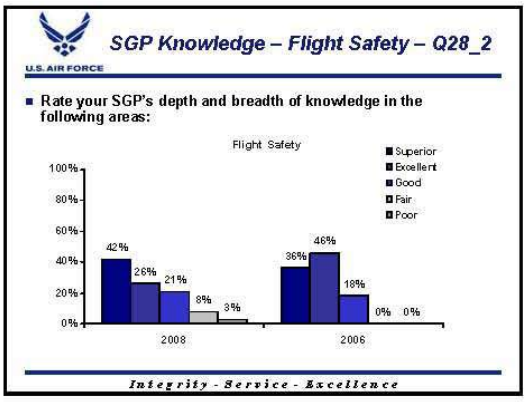

SGP Services Provided to Line – Q26
U.S. AIR FORCE
Rate your SGP's performance as a consultant to commanders and supervisors regarding aeromedical problems related to aircraft or life support equipment, mission plans, and human performance enhancement.
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
15%
51%
18%
0%
10%
5%
29%
42%
16%
0%
0%
13%
2008
Mean 2.35
2006
1.85
Integrity - Service - Excellence
p<0.05

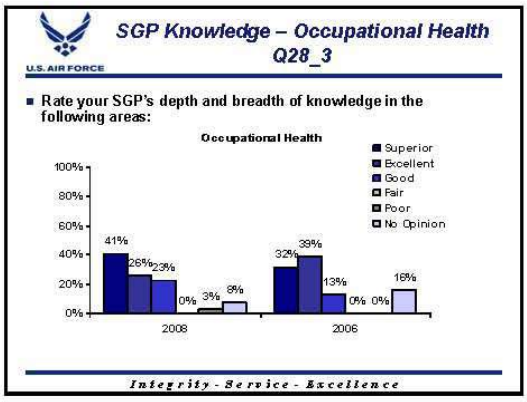

SGP Services Provided to Line – Q27
U.S. AIR FORCE
Rate how well your SGP advises wing leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion.
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
21%
36%
28%
0%
13%
3%
23%
35%
25%
6%
0%
15%
2008
2006
Integrity - Service - Excellence

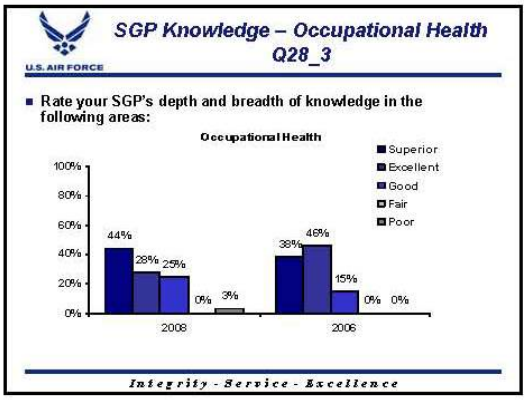

SGP Knowledge – Operational Issues – Q28_1
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Operational Issues
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
23%
46%
5%
13%
10%
3%
29%
39%
22%
0%
0%
10%
2008
2006
Integrity - Service - Excellence

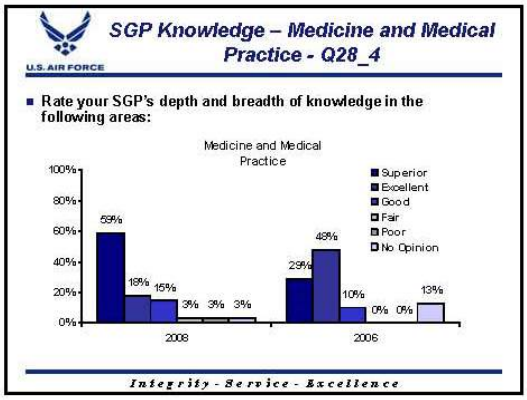

SGP Knowledge – Operational Issues – Q28_1
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Operational Issues
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
24%
47%
5%
13%
11%
32%
43%
25%
0%
0%
2008
2006
Integrity - Service - Excellence

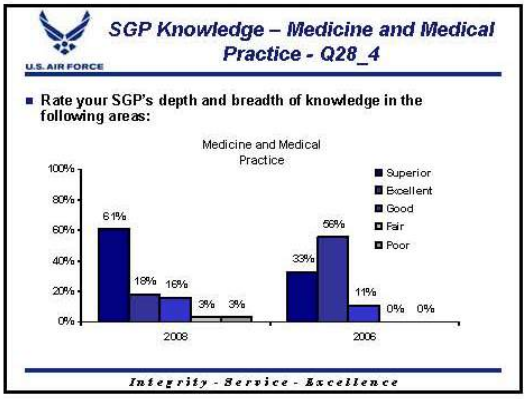

SGP Knowledge – Flight Safety – Q28_2
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Flight Safety
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
41%
26%
21%
8%
3%
3%
32%
42%
16%
0%
0%
10%
2008
2006
Integrity - Service - Excellence

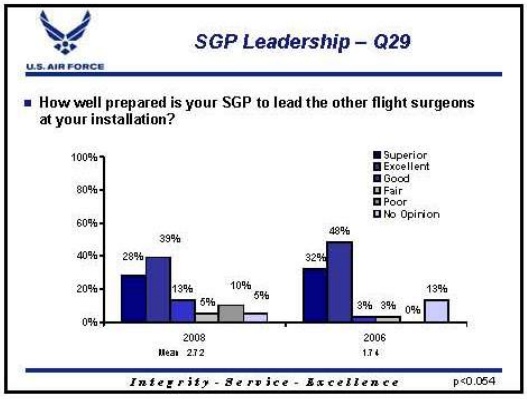

SGP Knowledge – Flight Safety – Q28_2
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Flight Safety
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
42%
26%
21%
8%
3%
36%
46%
18%
0%
0%
2008
2006
Integrity - Service - Excellence


SGP Knowledge – Occupational Health Q28_3
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Occupational Health
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
41%
26%
23%
0%
3%
8%
32%
39%
13%
0%
0%
16%
2008
2006
Integrity - Service - Excellence


SGP Knowledge – Occupational Health Q28_3
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Occupational Health
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
44%
28%
25%
0%
3%
38%
46%
15%
0%
0%
2008
2006
Integrity - Service - Excellence

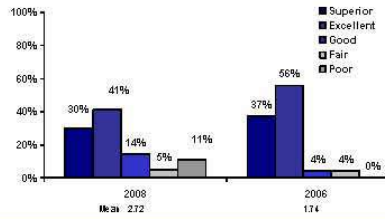

SGP Knowledge – Medicine and Medical Practice - Q28_4
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Medicine and Medical Practice
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
59%
18%
15%
3%
3%
3%
29%
48%
10%
0%
0%
13%
2008
2006
Integrity - Service - Excellence


SGP Knowledge – Medicine and Medical Practice - Q28_4
U.S. AIR FORCE
Rate your SGP's depth and breadth of knowledge in the following areas:
Medicine and Medical Practice
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
61%
18%
16%
3%
3%
33%
56%
11%
0%
0%
2008
2006
Integrity - Service - Excellence


SGP Leadership – Q29
U.S. AIR FORCE
How well prepared is your SGP to lead the other flight surgeons at your installation?
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
28%
39%
13%
5%
10%
5%
32%
48%
3%
3%
0%
13%
2008
2006
Mean 2.72
1.74
Integrity - Service - Excellence
p<0.054

SGP Leadership – Q29

- How well prepared is your SGP to lead the other flight surgeons at your installation?



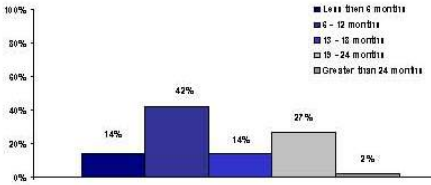
Integrity - Service - Excellence p<0.054

Squadron Commanders (Sq CC)

Integrity - Service - Excellence

Sq CC Time in Command – Q31

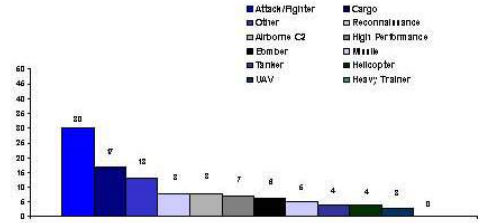
- How long have you been, or were you, as squadron commander?



Integrity - Service - Excellence

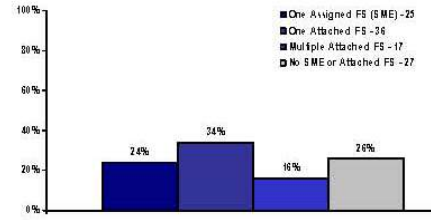
Squadron Command Weapon Systems – Q32

- What weapon systems is (was) your squadron responsible?



Integrity - Service - Excellence

Squadrons With Assigned Versus Attached FS – Q34



Integrity - Service - Excellence

Squadron Commanders with Assigned Squadron Medical Element Flight Surgeon (SME FS)

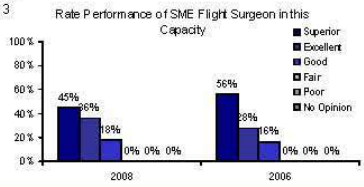
Integrity - Service - Excellence

SME FS Support to Sq CC – Q34,35

U.S. AIR FORCE

- Do you consider your SME flight surgeon to be your personal aeromedical advisor regarding flight or missile crew medical issues, flying safety, human factors and human performance enhancement?

	2008	2006
Yes	92%	97%
No	8%	3

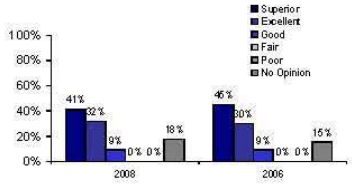


Integrity - Service - Excellence

SME FS Unit Training – Q36

U.S. AIR FORCE

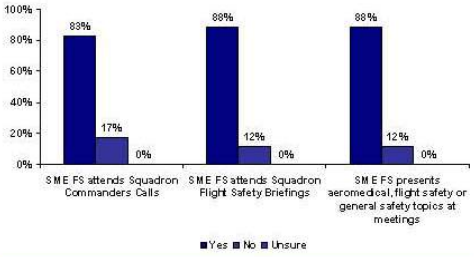
- Rate the performance of your SME flight surgeon in providing and arranging medical training for the SME medical personnel



Integrity - Service - Excellence

SME FS Safety Briefings / Meeting Attendance – Q37,38,39

U.S. AIR FORCE

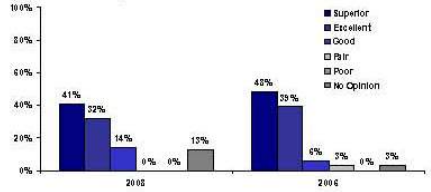


Integrity - Service - Excellence

SME FS Services Provided to Sq CC – Q40

U.S. AIR FORCE

- Rate your SME flight surgeon's advice to you and your squadron leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion

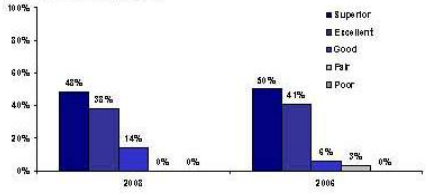


Integrity - Service - Excellence

SME FS Services Provided to Sq CC – Q40

U.S. AIR FORCE

- Rate your SME flight surgeon's advice to you and your squadron leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion



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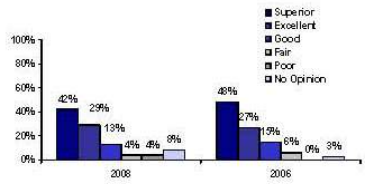
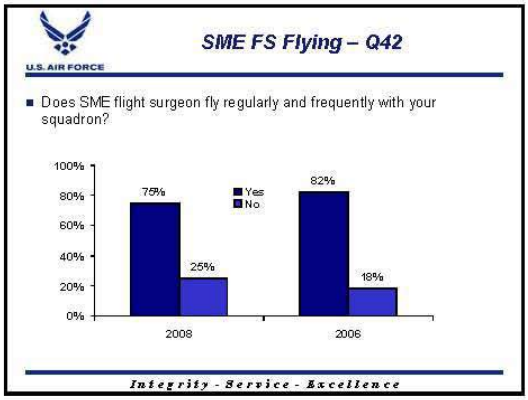
SME FS Unit Supervision – Q41

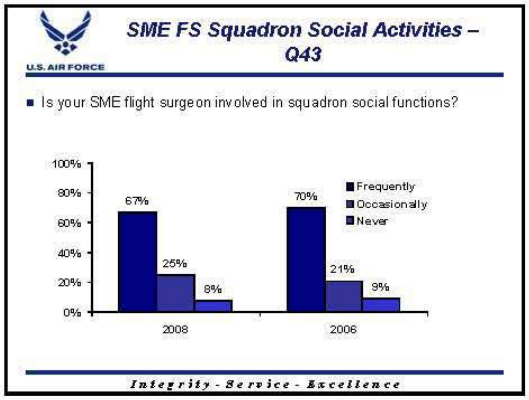
U.S. AIR FORCE

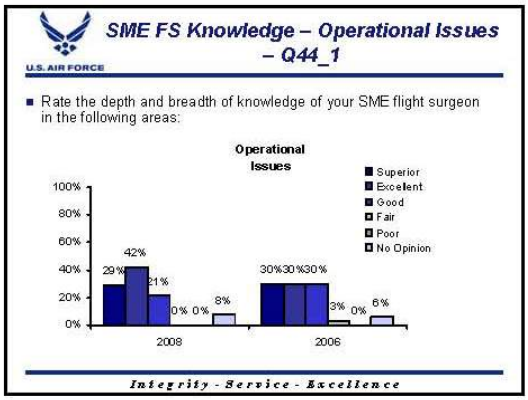
- Rate the performance of your SME flight surgeon in supervising the SME personnel

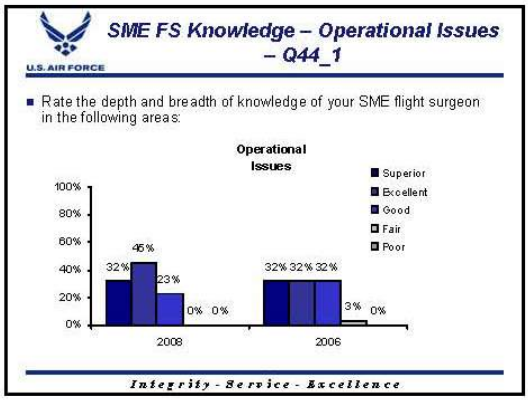


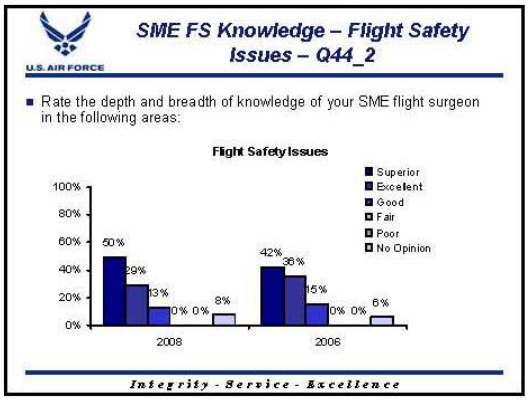
Integrity - Service - Excellence

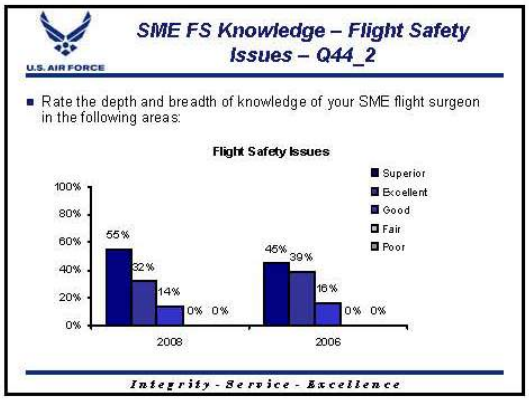

SME FS Flying – Q42
U.S. AIR FORCE
Does SME flight surgeon fly regularly and frequently with your squadron?
100%
80%
60%
40%
20%
0%
75%
25%
82%
18%
Yes
No
2008
2006
Integrity - Service - Excellence

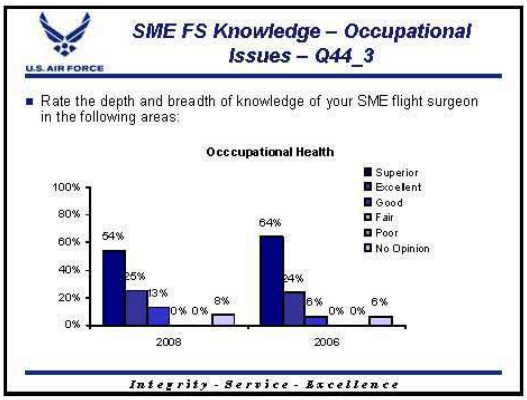

SME FS Squadron Social Activities – Q43
U.S. AIR FORCE
Is your SME flight surgeon involved in squadron social functions?
100%
80%
60%
40%
20%
0%
67%
25%
8%
70%
21%
9%
Frequently
Occasionally
Never
2008
2006
Integrity - Service - Excellence

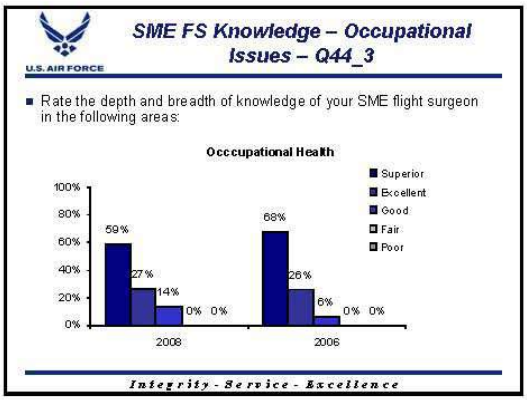

SME FS Knowledge – Operational Issues – Q44_1
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Operational Issues
100%
80%
60%
40%
20%
0%
29%
42%
21%
0%
0%
8%
30%
30%
30%
3%
0%
6%
Superior
Excellent
Good
Fair
Poor
No Opinion
2008
2006
Integrity - Service - Excellence

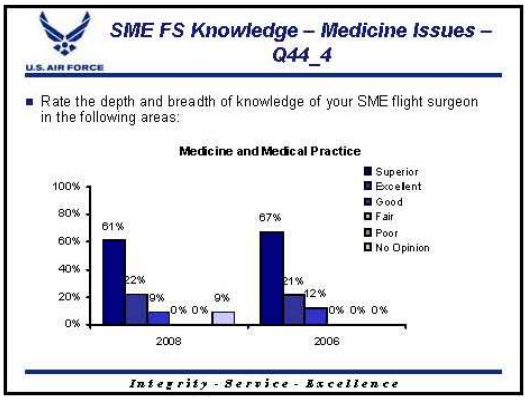

SME FS Knowledge – Operational Issues – Q44_1
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Operational Issues
100%
80%
60%
40%
20%
0%
32%
45%
23%
0%
0%
32%
32%
32%
3%
0%
Superior
Excellent
Good
Fair
Poor
2008
2006
Integrity - Service - Excellence

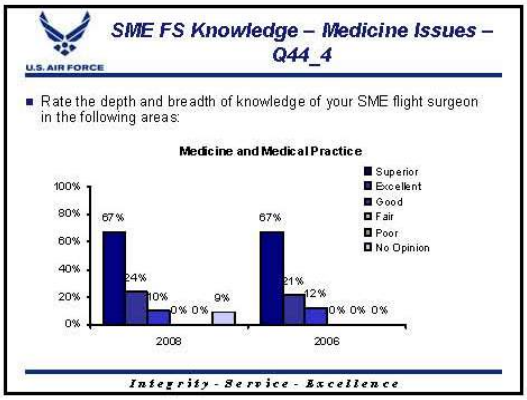

SME FS Knowledge – Flight Safety Issues – Q44_2
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Flight Safety Issues
100%
80%
60%
40%
20%
0%
50%
29%
13%
0%
0%
8%
42%
36%
15%
0%
0%
6%
Superior
Excellent
Good
Fair
Poor
No Opinion
2008
2006
Integrity - Service - Excellence

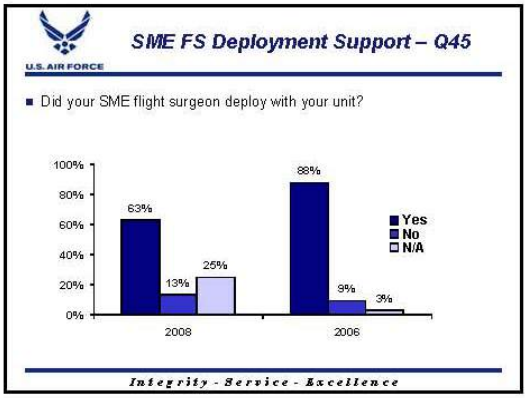

SME FS Knowledge – Flight Safety Issues – Q44_2
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Flight Safety Issues
100%
80%
60%
40%
20%
0%
55%
32%
14%
0%
0%
45%
39%
16%
0%
0%
Superior
Excellent
Good
Fair
Poor
2008
2006
Integrity - Service - Excellence

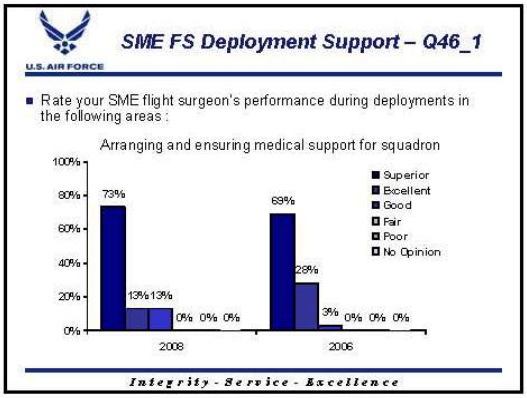

SME FS Knowledge – Occupational Issues – Q44_3
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Occcupational Health
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
54%
25%
13%
0% 0%
8%
64%
24%
8%
0% 0%
6%
2008
2006
Integrity - Service - Excellence


SME FS Knowledge – Occupational Issues – Q44_3
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Occcupational Health
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
59%
27%
14%
0% 0%
68%
26%
6%
0% 0%
2008
2006
Integrity - Service - Excellence


SME FS Knowledge – Medicine Issues – Q44_4
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Medicine and Medical Practice
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
61%
22%
9%
0% 0%
9%
67%
21%
12%
0% 0% 0%
2008
2006
Integrity - Service - Excellence

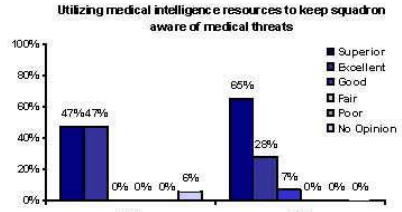

SME FS Knowledge – Medicine Issues – Q44_4
U.S. AIR FORCE
Rate the depth and breadth of knowledge of your SME flight surgeon in the following areas:
Medicine and Medical Practice
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
67%
24%
10%
0% 0%
9%
67%
21%
12%
0% 0% 0%
2008
2006
Integrity - Service - Excellence


SME FS Deployment Support – Q45
U.S. AIR FORCE
Did your SME flight surgeon deploy with your unit?
Yes
No
N/A
100%
80%
60%
40%
20%
0%
63%
13%
25%
88%
9%
3%
2008
2006
Integrity - Service - Excellence


SME FS Deployment Support – Q46_1
U.S. AIR FORCE
Rate your SME flight surgeon's performance during deployments in the following areas :
Arranging and ensuring medical support for squadron
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
73%
13%
13%
0% 0% 0%
69%
28%
3%
0% 0% 0%
2008
2006
Integrity - Service - Excellence

SME FS Deployment Support – Q46_2

- Rate your SME flight surgeon's performance during deployments in the following areas :



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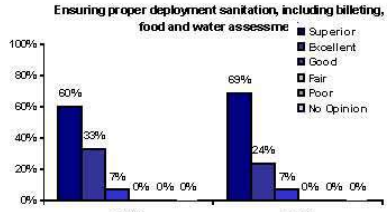
SME FS Deployment Support – Q46_3

- Rate your SME flight surgeon's performance during deployments in the following areas :



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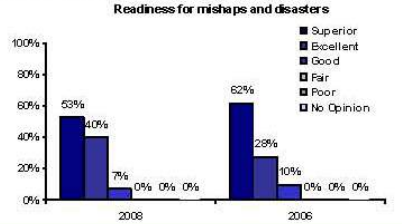
SME FS Deployment Support – Q46_4

- Rate your SME flight surgeon's performance during deployments in the following areas :



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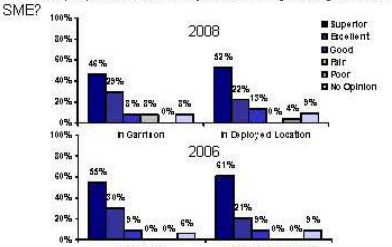
SME FS Leadership In Garrison vs. Deployment – Q47_1, _2

- How well prepared, overall, is your SME Flight Surgeon to lead your SME?



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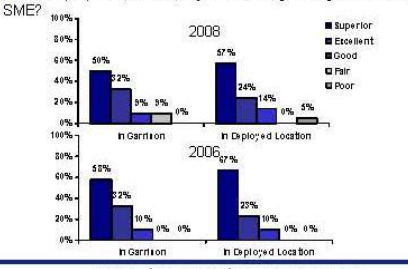
SME FS Leadership In Garrison vs. Deployment – Q47_1, _2

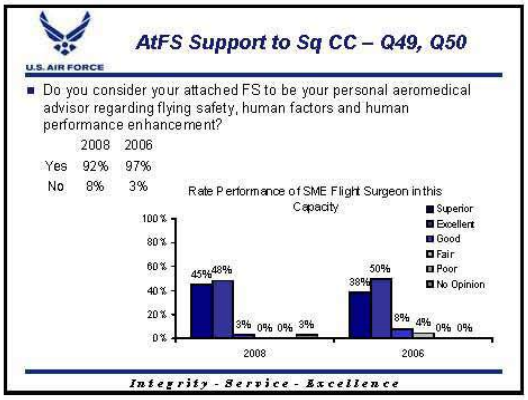
- How well prepared, overall, is your SME Flight Surgeon to lead your SME?

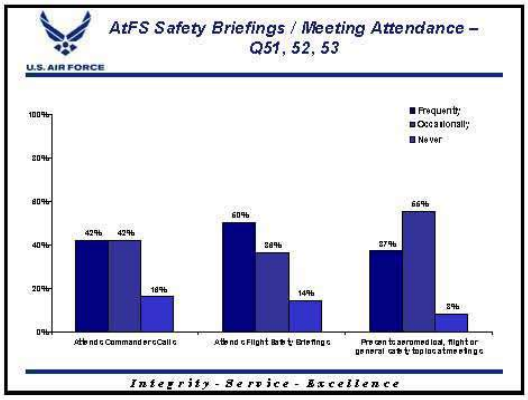


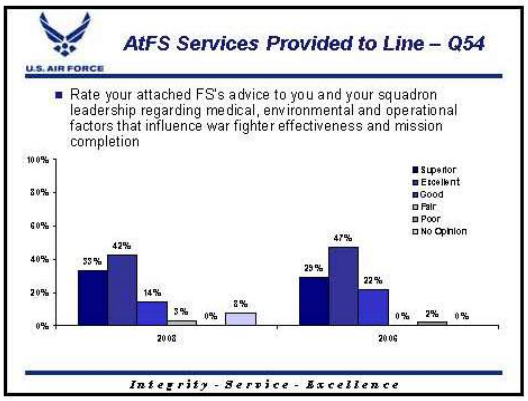
Integrity - Service - Excellence p<0.000

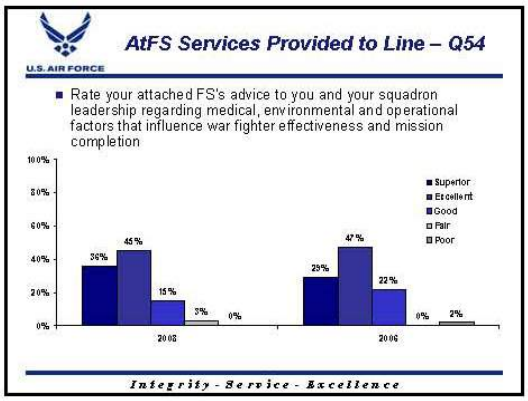
Squadron Commanders with One Attached Flight Surgeon (AtFS)

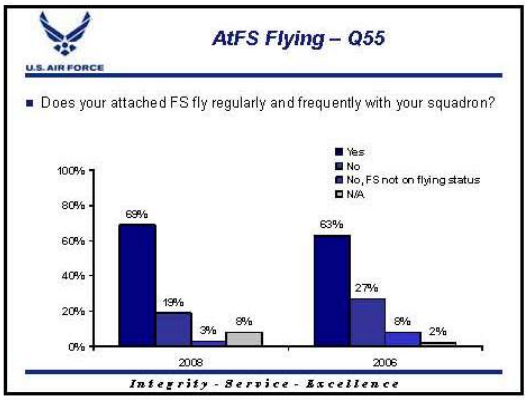
Integrity - Service - Excellence

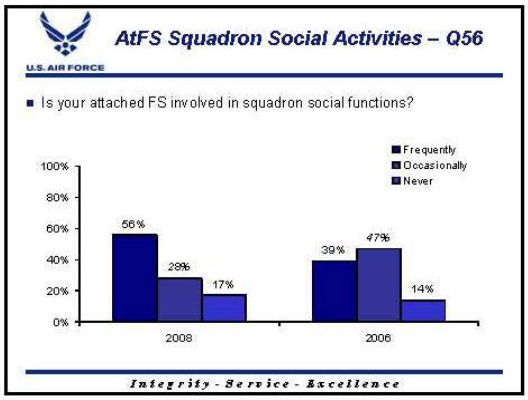

AtFS Support to Sq CC – Q49, Q50
U.S. AIR FORCE
Do you consider your attached FS to be your personal aeromedical advisor regarding flying safety, human factors and human performance enhancement?
2008 2006
Yes 92% 97%
No 8% 3%
Rate Performance of SME Flight Surgeon in this Capacity
Superior
Excellent
Good
Fair
Poor
No Opinion
45% 48% 3% 0% 0% 3%
38% 50% 8% 4% 0% 0%
2008
2006
Integrity - Service - Excellence

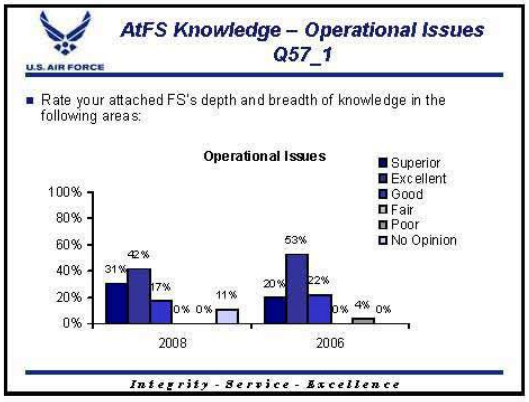

AtFS Safety Briefings / Meeting Attendance – Q51, 52, 53
U.S. AIR FORCE
Frequently
Occasionally
Never
42% 42% 16%
60% 38% 14%
57% 66% 8%
Attends Commanders Calls
Attends Flight Safety Briefings
Presents aeromedical, flight or general safety topics at meetings
Integrity - Service - Excellence

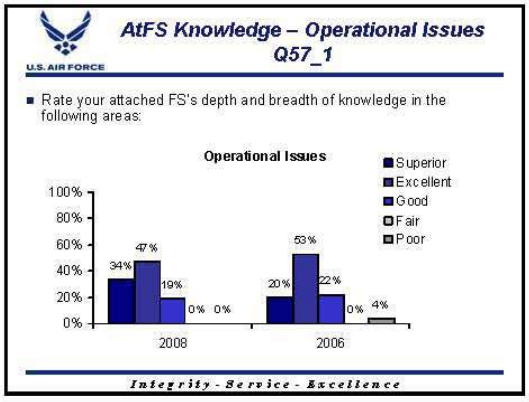

AtFS Services Provided to Line – Q54
U.S. AIR FORCE
Rate your attached FS's advice to you and your squadron leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion
Superior
Excellent
Good
Fair
Poor
No Opinion
33% 42% 14% 3% 0% 8%
25% 47% 22% 0% 2% 0%
2008
2006
Integrity - Service - Excellence

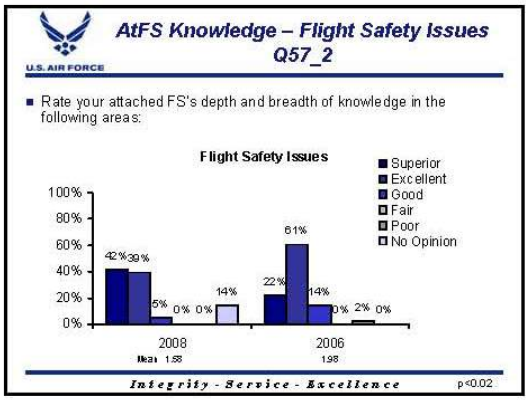

AtFS Services Provided to Line – Q54
U.S. AIR FORCE
Rate your attached FS's advice to you and your squadron leadership regarding medical, environmental and operational factors that influence war fighter effectiveness and mission completion
Superior
Excellent
Good
Fair
Poor
36% 45% 15% 3% 0%
25% 47% 22% 0% 2%
2008
2006
Integrity - Service - Excellence

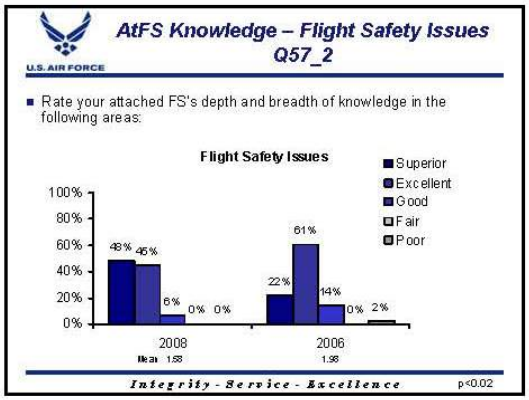

AtFS Flying – Q55
U.S. AIR FORCE
Does your attached FS fly regularly and frequently with your squadron?
Yes
No
No, FS not on flying status
N/A
69% 19% 3% 8%
63% 27% 8% 2%
2008
2006
Integrity - Service - Excellence

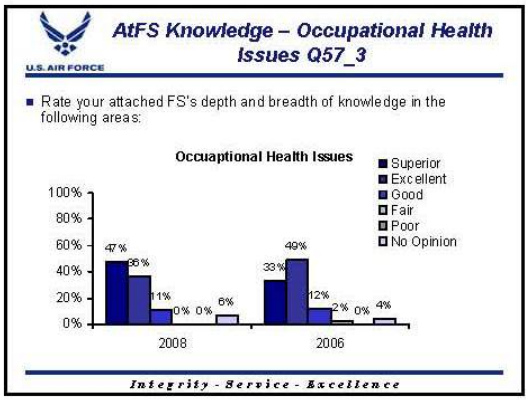

AtFS Squadron Social Activities – Q56
U.S. AIR FORCE
Is your attached FS involved in squadron social functions?
Frequently
Occasionally
Never
56% 28% 17%
39% 47% 14%
2008
2006
Integrity - Service - Excellence

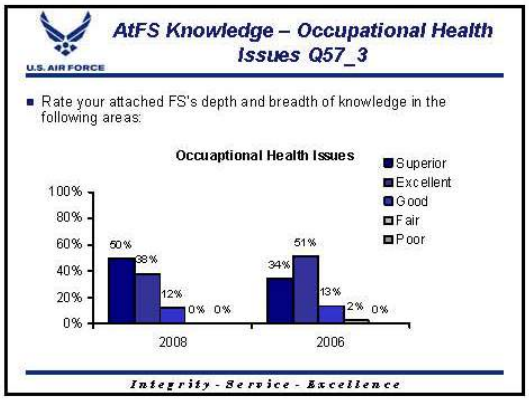

AtFS Knowledge – Operational Issues Q57_1
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Operational Issues
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
31%
42%
17%
0%
0%
11%
20%
53%
22%
0%
4%
0%
2008
2006
Integrity - Service - Excellence

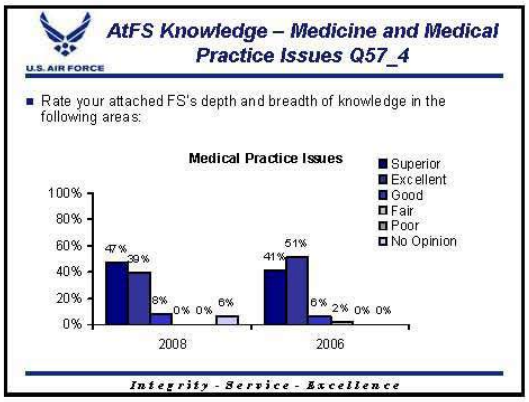

AtFS Knowledge – Operational Issues Q57_1
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Operational Issues
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
34%
47%
19%
0%
0%
20%
53%
22%
0%
4%
2008
2006
Integrity - Service - Excellence

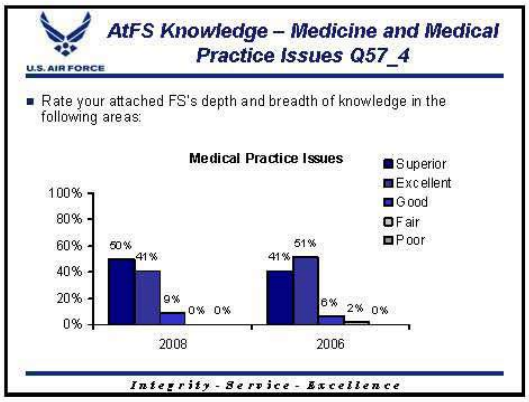

AtFS Knowledge – Flight Safety Issues Q57_2
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Flight Safety Issues
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
42%
39%
5%
0%
0%
14%
22%
61%
14%
0%
2%
0%
2008
2006
Mean 1.58
1.98
Integrity - Service - Excellence
p<0.02

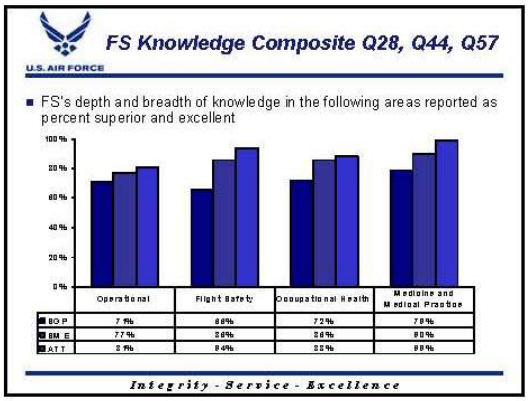

AtFS Knowledge – Flight Safety Issues Q57_2
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Flight Safety Issues
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
48%
45%
6%
0%
0%
22%
61%
14%
0%
2%
2008
2006
Mean 1.58
1.98
Integrity - Service - Excellence
p<0.02

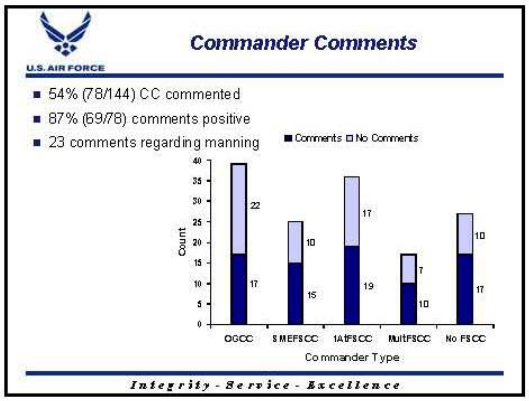

AtFS Knowledge – Occupational Health Issues Q57_3
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Occuaptional Health Issues
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
47%
36%
11%
0%
0%
6%
33%
49%
12%
2%
0%
4%
2008
2006
Integrity - Service - Excellence


AtFS Knowledge – Occupational Health Issues Q57_3
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Occuaptional Health Issues
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
50%
38%
12%
0%
0%
34%
51%
13%
2%
0%
2008
2006
Integrity - Service - Excellence


AtFS Knowledge – Medicine and Medical Practice Issues Q57_4
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Medical Practice Issues
Superior
Excellent
Good
Fair
Poor
No Opinion
100%
80%
60%
40%
20%
0%
47%
39%
9%
0%
0%
6%
41%
51%
6%
2%
0%
0%
2008
2006
Integrity - Service - Excellence


AtFS Knowledge – Medicine and Medical Practice Issues Q57_4
U.S. AIR FORCE
Rate your attached FS's depth and breadth of knowledge in the following areas:
Medical Practice Issues
Superior
Excellent
Good
Fair
Poor
100%
80%
60%
40%
20%
0%
50%
41%
9%
0%
0%
41%
51%
6%
2%
0%
2008
2006
Integrity - Service - Excellence


FS Knowledge Composite Q28, Q44, Q57
U.S. AIR FORCE
FS's depth and breadth of knowledge in the following areas reported as percent superior and excellent
Operational
Flight Safety
Occupational Health
Medicine and Medical Practice
BOP
BME
ATT
Integrity - Service - Excellence


Commander Comments
U.S. AIR FORCE
54% (78/144) CC commented
87% (69/78) comments positive
23 comments regarding manning
Comments
No Comments
Count
22
17
10
15
17
19
7
10
10
17
OGCC
SMEFSCC
1AFSCC
MultFSCC
No FSCC
Commander Type
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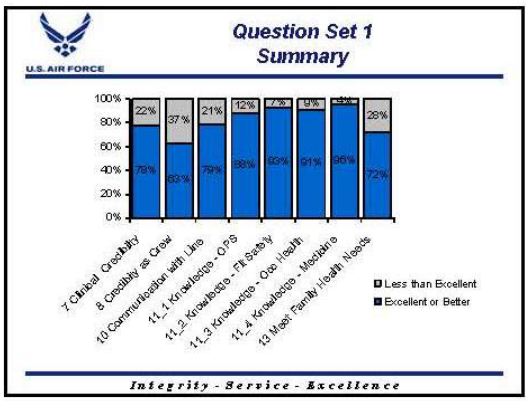
Question Set 1 Summary
U.S. AIR FORCE
100%
80%
60%
40%
20%
0%
22%
37%
21%
12%
7%
9%
3%
28%
78%
63%
79%
88%
93%
91%
96%
72%
7 Clinical Credibility
8 Credibility as Crew
10 Communication with Line
11_1 Knowledge - OPS
11_2 Knowledge - Flt Safety
11_3 Knowledge - Occ Health
11_4 Knowledge - Medicine
13 Meet Family Health Needs
Less than Excellent
Excellent or Better
Integrity - Service - Excellence

FIN!