

**US AIR FORCE
ACTIVE DUTY
EYE INJURY SUMMARY
CALENDAR YEAR 2005**

Approved for public release, distribution unlimited

2013



CY 2005 US AIR FORCE ACTIVE DUTY (AD) EYE INJURY SUMMARY

INTRODUCTION: In 2010 the Armed Forces Health Surveillance Center (AFHSC) and Tri-Service Vision Conservation and Readiness Program (TSVCRP) of the US Army Public Health Command (USAPHC) began development of an Annual Active Duty Military Eye Injury Summary that would detail cause and type of injury along with demographics of eye injuries (Age, Gender, Rank, Occupational Group).

The first edition of the summary and annual summaries back through calendar year 2000, were produced in the spring of 2011. An analysis of years 2000-2010 was published in the May 2011 Medical Surveillance Monthly Report (MSMR). The AFHSC also developed a Case Definition for Eye Injuries that details the code set and methodology used to develop the summaries. Both the MSMR Article and Case Definition for Eye Injuries are available on the AFHSC website: <http://afhsc.army.mil/home>.

This summary contains detailed data, along with a set of summary tables detailing Ambulatory and Hospitalization rates (per 1000 person-years) for Injury Group, Cause of Injury and Occupational Group. Summary tables for Deployment-Associated Eye Injuries detailing frequency of Eye Injuries by Type of Injury and Occupational Group are also provided. Occupational Group data is for Enlisted members only. Deployment-Associated Eye Injuries are presented without regard to Ambulatory or Hospitalized status.

As one of the underlying goals of the summary is to make eye injury surveillance data accessible and useable, individual annual eye injury summaries for all years and all services (Combined DoD, Army, Navy, Air Force, Marine Corps and Coast Guard) are posted on the USAPHC public website.

For questions or additional information regarding the summaries please contact the TSVCRP:

By Email: usarmy.apg.medcom-phc.mbx.dcpm-tri-service-optometry@mail.mil

Telephone: 410-436-2714 FAX: 410-436-1325

Additional program information and educational materials can be found at: <http://dodvision.com/> and the USAPHC Public Website at: <http://phc.amedd.army.mil/Pages/default.aspx>

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INJURY CODE GROUP DETAILS: The following code groupings were used to develop the summary. Additional details may be found in the AFHSC Case Definition available at: <http://afhsc.army.mil/home>.

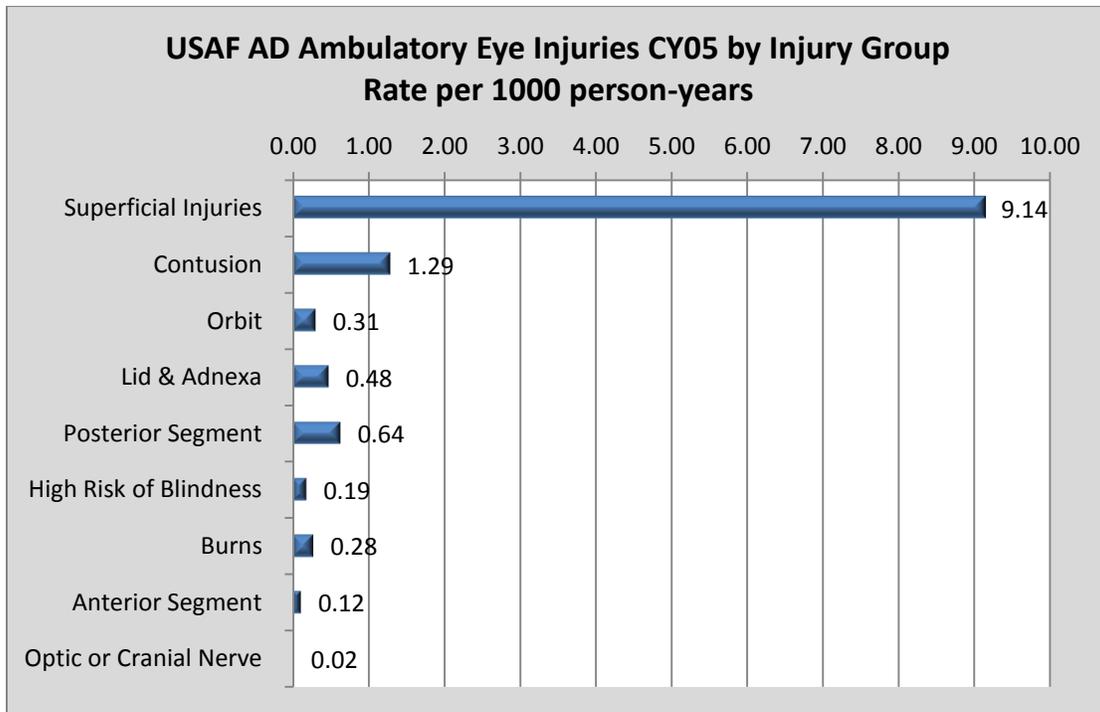
- 1) **Superficial:** all 918 series codes (superficial injury of eye and adnexa) and all 930 series codes (foreign body on external eye).
- 2) **Contusion:** all 921 series codes (contusion of eye and adnexa).
- 3) **Orbit:** All 802 series codes (fracture of face bones), 870.3 and 870.4 (penetrating wound of orbit without and with foreign body) and 376.32 (orbital hemorrhage).
- 4) **Lid/adnexa:** all 870 series codes (open wound of ocular adnexa) with the exception of 870.3 and 870.4 (see orbit above).
- 5) **Posterior segment:** 362.81 (retinal hemorrhage), all 361.0x series codes (retinal detachment with retinal defect), 363.61 (choroidal hemorrhage, unspecified), 363.63 (choroidal rupture), 379.23 (vitreous hemorrhage), 360.00 and 360.01 (purulent and acute endophthalmitis).
- 6) **High risk of blindness:** all 871 series codes (open wound of eyeball).
- 7) **Burns:** all 940 series codes (burn confined to eye and adnexa) as well as all 940.x2 codes (burns to eye with other parts of face, head and neck).
- 8) **Anterior segment:** 364.41 (hyphema), 366.21 and 366.22 (localized and total traumatic cataract), and 364.76 (iridodialysis).
- 9) **Optic/cranial nerve:** 950.0 (optic nerve injury), 950.1 (injury to optic chiasm), 950.9 (injury to optic nerve and pathways, unspecified), 951.0 (injury to oculomotor nerve), 951.1 (injury to trochlear nerve) and 951.3 (injury to abducens nerve).

DETAILS FOR TOTAL NUMBERS: Because patients may have been coded with more than one injury group or cause of injury, the sum of cases by injury group and the sum of cases by causes of injury will be greater than the total number of patients.

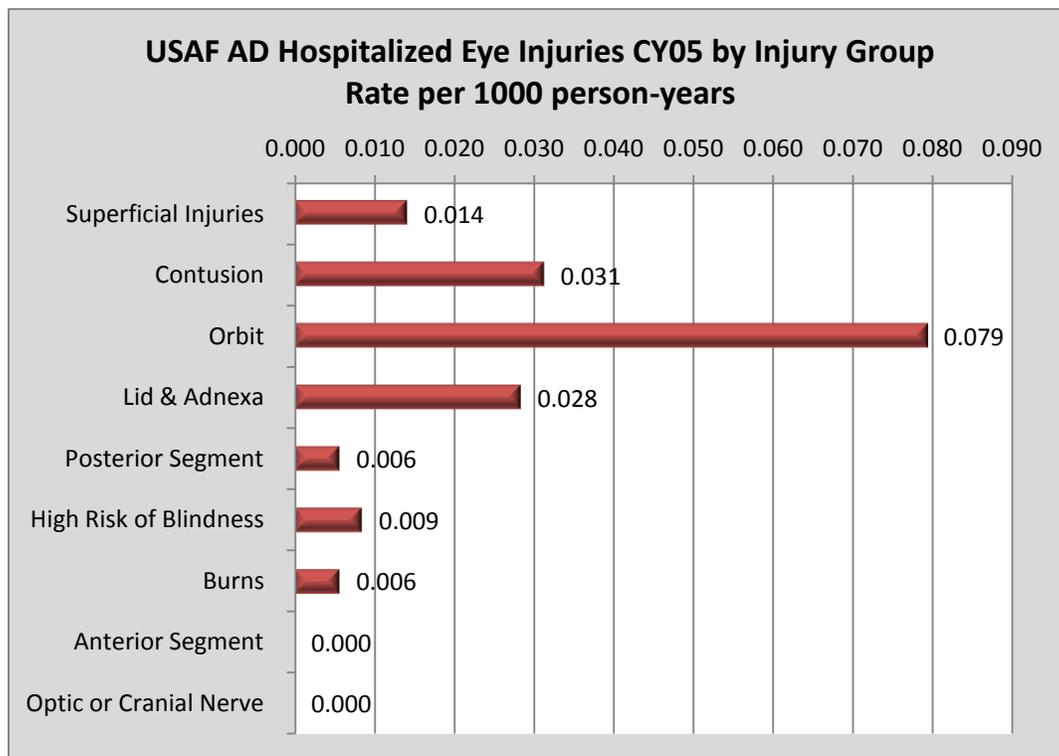
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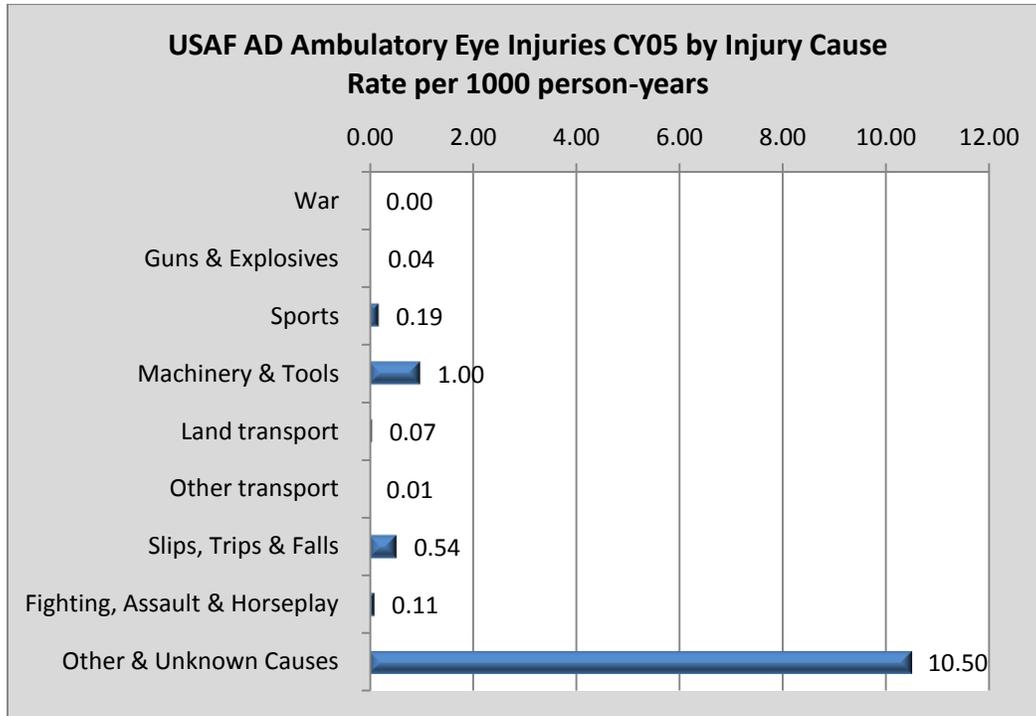
Please note the difference in scale between Ambulatory and Hospitalized graphs



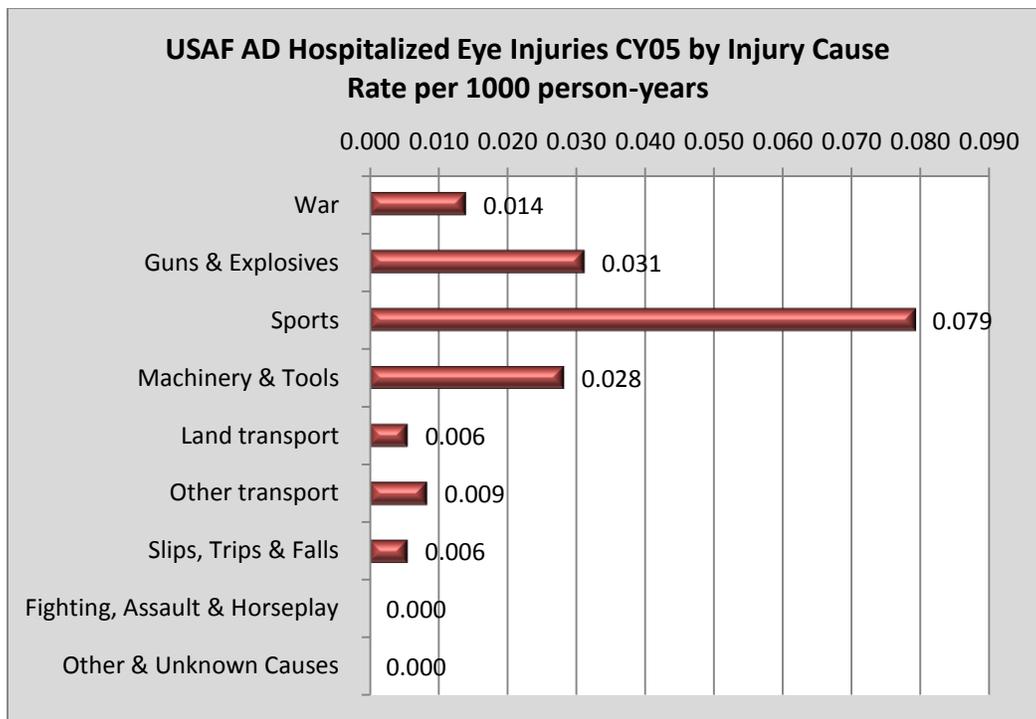
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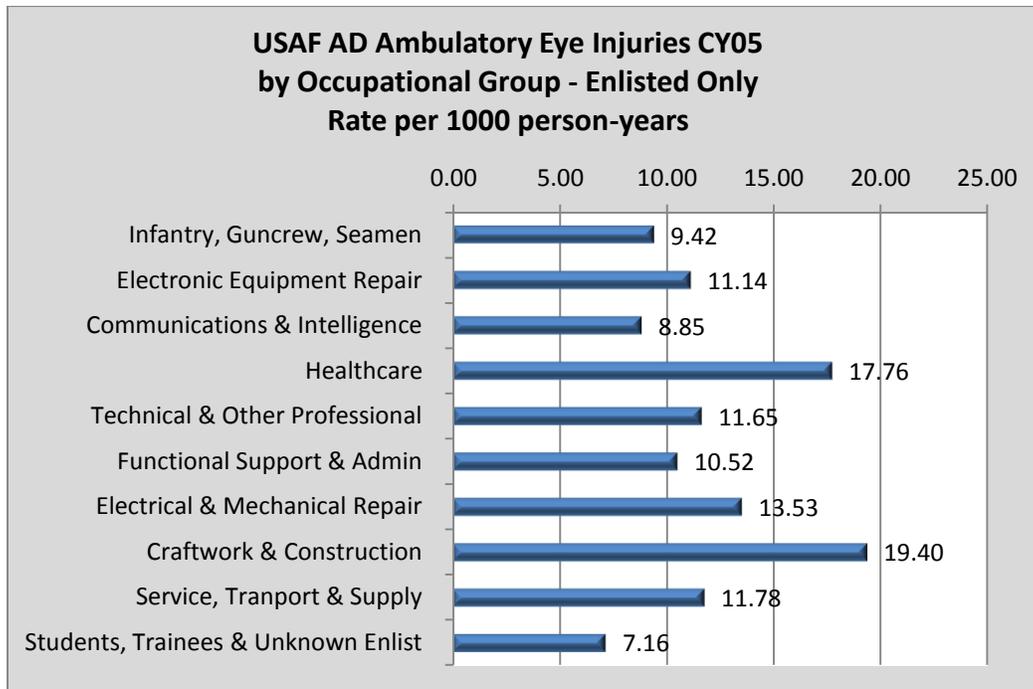
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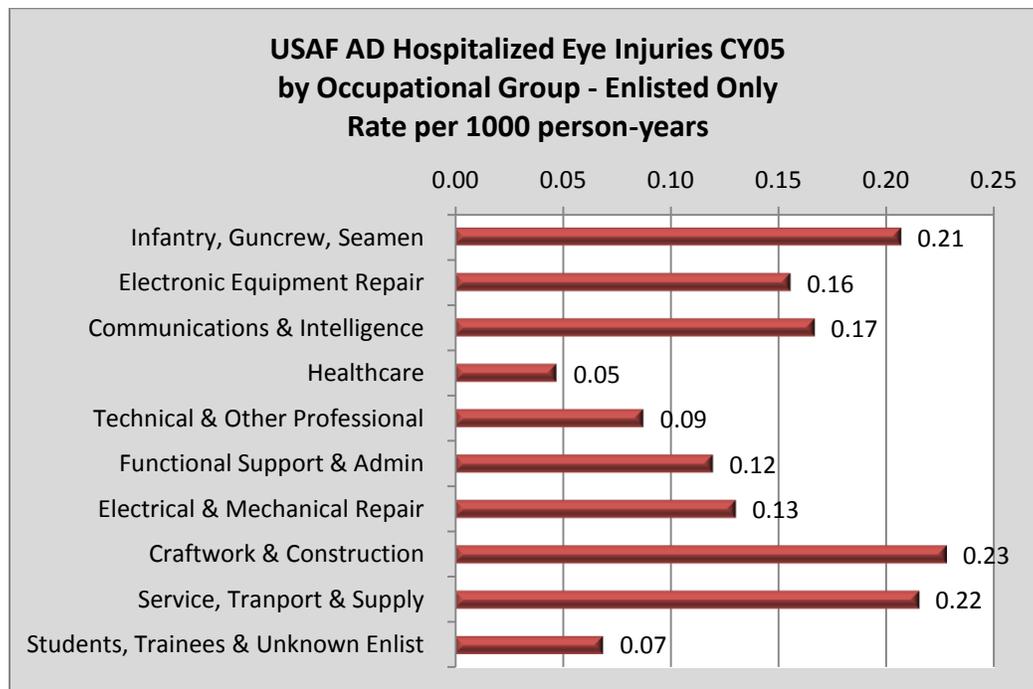
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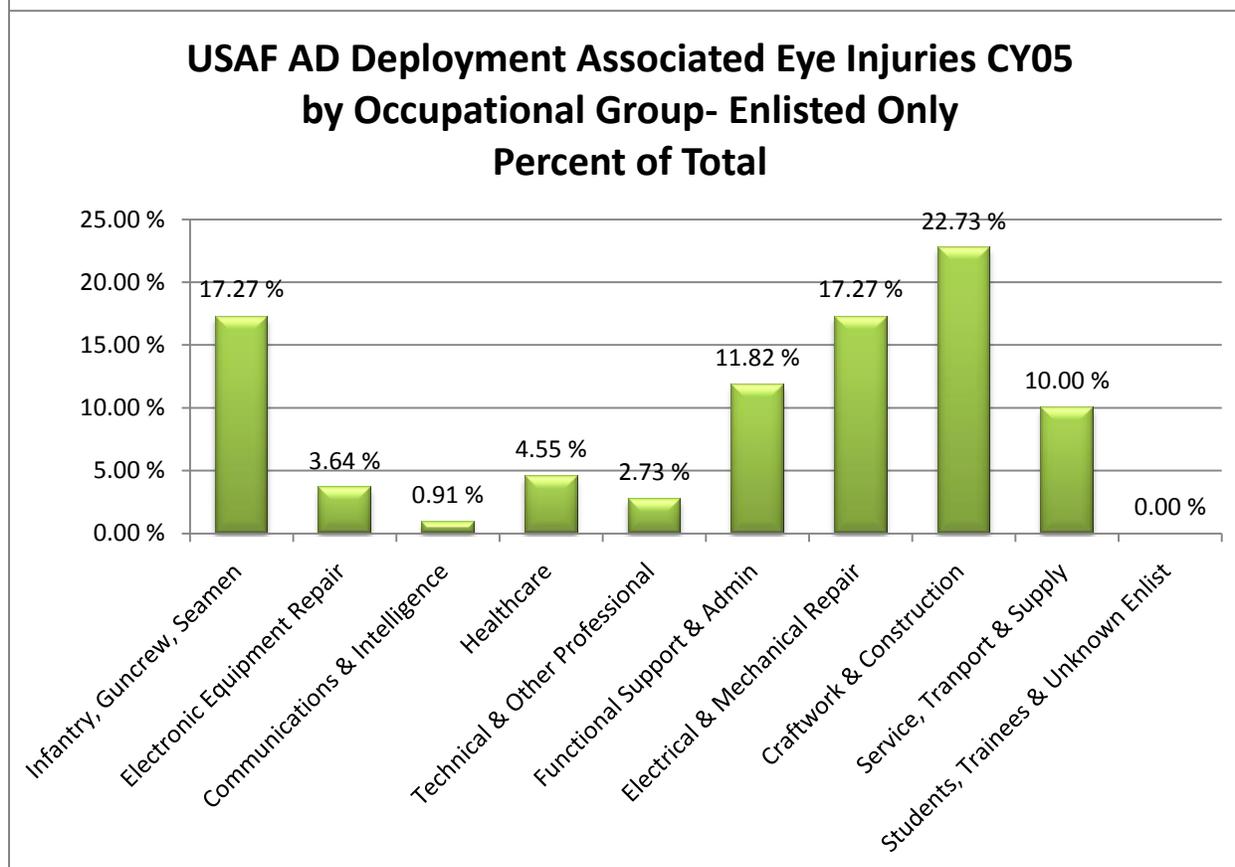
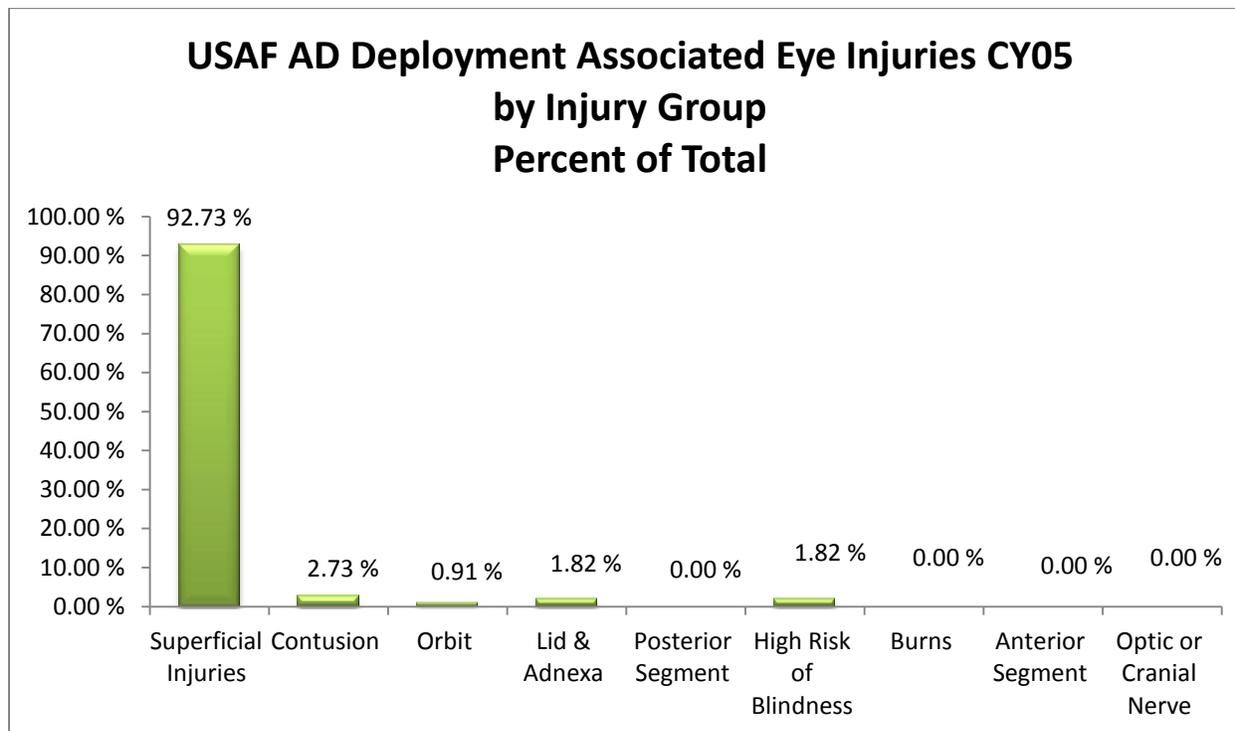
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	2005											
	Ambulatory MTF Visits				Deployment-Associated Healthcare				Hospitalizations			
	Primary		All Diagnoses		Primary		All Diagnoses		Primary		All Diagnoses	
	Count	Rate ¹	Count	Rate	Count	% total ³	Count	% total ³	Count	Rate	Count	Rate
ALL ACTIVE COMPONENT												
Total	3,621	10.25	4,182	11.83	103	100.00	110	100.00	21	0.06	46	0.13
Superficial Injuries	2,900	8.21	3,231	9.14	95	92.23	102	92.73	1	0.00	5	0.01
Contusion	360	1.03	454	1.29	3	2.91	3	2.73	6	0.02	11	0.03
Orbit	78	0.22	109	0.31	1	0.97	1	0.91	15	0.04	28	0.08
Lid & Adnexa	151	0.43	169	0.48	2	1.94	2	1.82	2	0.01	10	0.03
Posterior Segment	142	0.40	225	0.64	0	0.00	0	0.00	2	0.01	2	0.01
High Risk of Blindness	56	0.16	66	0.19	2	1.94	2	1.82	3	0.01	3	0.01
Burns	85	0.24	98	0.28	0	0.00	0	0.00	2	0.01	2	0.01
Anterior Segment	31	0.09	41	0.12	0	0.00	0	0.00	0	0.00	0	0.00
Optic or Cranial Nerve	4	0.01	8	0.02	0	0.00	0	0.00	0	0.00	0	0.00
Male	2,904	10.22	3,356	11.81	87	84.47	94	85.45	18	0.06	40	0.14
Female	717	10.36	826	11.93	16	15.53	16	14.55	3	0.04	6	0.09
War	0	0.00	0	0.00	not assessed ²				1	0.00	1	0.00
Guns & Explosives	11	0.03	13	0.04					1	0.00	1	0.00
Sports	60	0.17	68	0.19					3	0.01	3	0.01
Machinery & Tools	329	0.93	353	1.00					0	0.00	1	0.00
Land transport	16	0.05	23	0.07					5	0.01	10	0.03
Other transport	1	0.00	3	0.01					1	0.00	2	0.01
Slips, Trips & Falls	171	0.48	190	0.54					3	0.01	5	0.01
Fighting, Assault & Horseplay	27	0.08	40	0.11					8	0.02	14	0.04
Other & Unknown Causes	3,192	9.03	3,711	10.50					9	0.03	24	0.07
ENLISTED (all diagnoses combined)												
Enlisted	2,900	10.35	3,351	11.96	94	91.26	100	90.91	19	0.07	39	0.14
<20	125	5.67	151	6.84	3	2.91	3	2.73	2	0.09	5	0.23
20-24	1,034	10.15	1,178	11.56	45	43.69	49	44.55	7	0.07	16	0.16
25-29	653	11.01	761	12.83	28	27.18	29	26.36	5	0.08	7	0.12
30-34	399	10.73	460	12.37	8	7.77	8	7.27	2	0.05	5	0.13
35-39	373	10.19	429	11.71	4	3.88	4	3.64	3	0.08	3	0.08
>=40	316	13.63	372	16.05	6	5.83	7	6.36	0	0.00	3	0.13
E0-E4	1,284	10.38	1,476	11.93	60	58.25	63	57.27	12	0.10	23	0.19
E5-E9	1,616	10.33	1,875	11.98	34	33.01	37	33.64	7	0.04	16	0.10
Infantry, Guncrew, Seamen	236	8.15	273	9.42	17	16.50	19	17.27	2	0.07	6	0.21
Electronic Equipment Repair	239	9.31	286	11.14	4	3.88	4	3.64	3	0.12	4	0.16
Communications & Intelligence	186	7.76	212	8.85	1	0.97	1	0.91	2	0.08	4	0.17
Healthcare	336	15.91	375	17.76	4	3.88	5	4.55	1	0.05	1	0.05
Technical & Other Professional	115	10.07	133	11.65	2	1.94	3	2.73	1	0.09	1	0.09
Functional Support & Admin	522	8.93	615	10.52	13	12.62	13	11.82	3	0.05	7	0.12
Electrical & Mechanical Repair	802	11.62	934	13.53	19	18.45	19	17.27	5	0.07	9	0.13
Craftwork & Construction	228	17.34	255	19.40	24	23.30	25	22.73	1	0.08	3	0.23
Service, Transport & Supply	145	10.41	164	11.78	10	9.71	11	10.00	1	0.07	3	0.22
Students, Trainees & Unknown Enlist	91	6.27	104	7.16	0	0.00	0	0.00	0	0.00	1	0.07
OFFICER (all diagnoses combined)												
Officer	721	9.85	831	11.35	9	8.74	10	9.09	2	0.03	7	0.10
<20	-	-	-	-	0	0.00	0	0.00	-	-	-	-
20-24	53	6.31	60	7.14	0	0.00	0	0.00	1	0.12	2	0.24
25-29	135	7.85	160	9.30	5	4.85	5	4.55	0	0.00	1	0.06
30-34	164	10.41	185	11.74	1	0.97	1	0.91	1	0.06	1	0.06
35-39	175	12.27	199	13.95	1	0.97	2	1.82	0	0.00	1	0.07
>=40	194	11.04	227	12.91	2	1.94	2	1.82	0	0.00	2	0.11
O0-O3,W0-W3	406	9.35	472	10.87	7	6.80	8	7.27	2	0.05	5	0.12
O4-O10,W4-W5	315	10.58	359	12.05	2	1.94	2	1.82	0	0.00	2	0.07
General/Flag Ofc & Executives	5	7.18	6	8.62	0	0.00	0	0.00	0	0.00	0	0.00
Tactical Operations Off.	236	9.84	270	11.25	3	2.91	3	2.73	0	0.00	3	0.13
Intelligence Off.	37	9.47	40	10.23	0	0.00	0	0.00	0	0.00	0	0.00
Engineering & Maintenance Off.	111	9.86	133	11.82	3	2.91	3	2.73	0	0.00	0	0.00
Healthcare Off.	122	10.53	140	12.08	2	1.94	2	1.82	1	0.09	1	0.09
Scientists & Professional Off.	50	10.24	57	11.68	0	0.00	0	0.00	0	0.00	0	0.00
Administrative Off.	68	12.94	79	15.04	0	0.00	0	0.00	0	0.00	0	0.00
Supply & Logistics Off.	68	10.22	78	11.72	1	0.97	2	1.82	0	0.00	1	0.15
Students, Trainees & Unknown Off.	24	4.82	28	5.63	0	0.00	0	0.00	1	0.20	2	0.40

1. Rates are per 1,000 person-years.

2. Use of ICD-9-CM E-codes for "cause of injury" is largely incomplete for theater healthcare records and therefore omitted.

3. Person-time is not available for deployers so the proportion of the total number of diagnoses is shown.

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