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2014 Aerospace Medical Certification Statistical Handbook

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Final Report



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16. Abstract <p>Introduction. The annual Aerospace Medical Certification Statistical Handbook reports descriptive characteristics of all active U.S. civil aviation airmen and the aviation medical examiners (AMEs) that perform the required medical examinations. The 2014 annual handbook documents the most recent and most widely relevant data on active civil aviation airmen and AMEs.</p> <p>Methods. Medical certification records from 2009-2014 were selected from the Document Imaging Workflow System (DIWS), which is the FAA medical certification database. All medical data were abstracted from the most recent medical examinations, with the exception of medical conditions that were historical and current. Only those with a non-expired medical certificate remained in the dataset.</p> <p>AME records were selected from the Aviation Medical Examiner Information System (AMEIS). The current status of each AME was determined for each year of the study period from 2012-2014, retaining only those with an active status. Airman variables include age, issued and effective medical classes, height, weight, BMI, gender, select medical conditions, special issuances, and FAA region of residence. AME variables include AME type, age, gender, medical specialty, pilot license status, senior examiner status, and region.</p> <p>Results. <i>Airmen:</i> As of December 31, 2014, there were 565,809 medically certified airmen age 16 and older, and 34.7%, 20.8%, and 44.5% were issued a Class 1, Class 2, and Class 3 medical certificate, respectively. Across all medical classes, the average age was 43.0 years, and 93.6% of the airmen were male. The mean BMI for both females and males was 24.1 and 27.2, respectively. Six percent of issued certificates required a special issuance. The most commonly reported medical condition was hypertension with medication, at 10.6%.</p> <p><i>Aviation medical examiners:</i> Of the 3,191 active AMEs, 92.8% were civilian, 1.9% federal, and 5.3% military. Of these, 48% reported their medical specialty as family practice. Their average age was 60.3 years; the majority (53.5%) did not hold a pilot license, and 87% were male.</p> <p>Summary. This report contains widely requested data on the active U.S. civil airman population. This report is updated annually and is used by the aerospace community, including FAA leadership, aerospace researchers, advocacy groups, legislative staff, and the general public.</p>					
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2014 AEROSPACE MEDICAL CERTIFICATION STATISTICAL HANDBOOK

INTRODUCTION

The annual Aerospace Medical Certification Statistical Handbook reports descriptive characteristics of all active U.S. civil aviation airmen and the aviation medical examiners (AMEs) that perform the required medical examinations. The 2014 annual handbook documents the most recent and most widely relevant data on active civil aviation airmen and AMEs.

METHODS

Medical certification records from 2009-2014 were selected from the Document Imaging Workflow System (DIWS), which is the FAA medical certification database. All medical data were abstracted from the most recent medical examinations, with the exception of medical conditions that were historical and current. Only those with a non-expired medical certificate remained in the dataset.

AME records were selected from the Aviation Medical Examiner Information System (AMEIS). The current status of each AME was determined for each year of the study period from 2012-2014, retaining only those with an active status.

Airman variables include age, issued and effective medical classes, height, weight, BMI, gender, select medical conditions, special issuances, and FAA region of residence. AME variables include AME type, age, gender, medical specialty, pilot license status, senior examiner status, and region.

RESULTS

Airmen

As of December 31, 2014, there were 565,809 medically certified airmen age 16 and older, and 34.7%, 20.8%, and 44.5% were issued a 1st Class, 2nd Class, and 3rd Class medical certificate, respectively. Across all medical classes, the average age was 43.0 years, and 93.6% of the airmen were male. The mean BMI for both females and males was 24.1 and 27.2, respectively. Six percent of issued certificates required a special issuance. The most commonly reported medical condition was hypertension with medication, at 10.6%.

Aviation Medical Examiners

Of the 3,191 active AMEs, 92.8% were civilian, 1.9% federal, and 5.3% military. Of these, 48% reported their medical specialty as family practice. Their average age was 60.3 years; the majority (53.5%) did not hold a pilot license, and 87% were male.

SUMMARY

This report contains widely requested data on the active U.S. civil airman population. This report is updated annually and is used by the aerospace community, including FAA leadership, aerospace researchers, advocacy groups, legislative staff, and the general public.

SECTION I.
AVIATION MEDICAL EXAMINERS

This section characterizes the aviation medical examiners during 2014 with some comparative data from 2012 and 2013. All analyses represent data through December 31, 2014, unless otherwise noted. Data may slightly fluctuate annually from systematic changes and corrections to the records.

An aviation medical examiner (AME) is a physician authorized by the Federal Aviation Administration (FAA) to perform airman physical examinations for issuance of FAA medical certificates. These physicians are designated according to the geographical distribution of airmen. There are also military facilities (installations) designated to perform FAA airman examinations of military personnel for issuance of second- and third-class certificates.

AME seminars are held in each region and at Oklahoma City's Civil Aerospace Medical Institute to acquaint these physicians with the regulations and procedures governing the issuance of FAA medical certificates.

Table 1. FAA Aviation Medical Examiners by Year and Type

AME Type	2012 Number (Percent of Total)	2013 Number (Percent of Total)	2014 Number (Percent of Total)
Civilian	3,218 (93.8)	3,101 (93.4)	2,960 (92.8)
Federal	68 (2.0)	67 (2.0)	60 (1.9)
Military	144 (4.2)	154 (4.6)	171 (5.4)
Total	3,430	3,322	3,191

Table 2. Designated FAA Aviation Medical Examiners by Year and Region

Region	Newly Appointed Number (Percent of Total by Year)			All Active Number (Percent of Total by Year)		
	2012	2013	2014	2012	2013	2014
Alaskan	1 (0.6)	1 (0.8)	3 (2.2)	64 (1.9)	55 (1.7)	55 (1.7)
Central	8 (5.0)	6 (4.6)	11 (8.2)	178 (5.2)	172 (5.2)	177 (5.6)
Eastern	11 (6.9)	9 (6.8)	11 (8.2)	370 (10.8)	353 (10.6)	331 (10.4)
Federal/Official	1 (0.6)	1 (0.8)	0 (0.0)	83 (2.4)	80 (2.4)	75 (2.4)
Great Lakes	15 (9.4)	16 (12.0)	15 (11.1)	472 (13.8)	457 (13.8)	445 (14.0)
International	17 (10.7)	19 (14.4)	13 (9.6)	324 (9.5)	323 (9.7)	311 (9.8)
Military	43 (27.0)	28 (21.1)	31 (23.0)	141 (4.1)	151 (4.6)	167 (5.2)
New England	7 (4.4)	2 (1.5)	2 (1.5)	116 (3.4)	103 (3.1)	98 (3.1)
Northwest Mountain	12 (7.6)	8 (6.1)	14 (10.4)	339 (9.9)	320 (9.6)	308 (9.7)
Southern	17 (10.7)	20 (15.2)	17 (12.6)	666 (19.4)	655 (19.7)	592 (18.6)
Southwest	18 (11.3)	13 (9.9)	11 (8.2)	399 (11.6)	384 (11.6)	371 (11.6)
Western-Pacific	9 (5.7)	9 (6.8)	7 (5.2)	278 (8.1)	269 (8.1)	261 (8.2)
Total	159	132	135	3,430	3,322	3,191

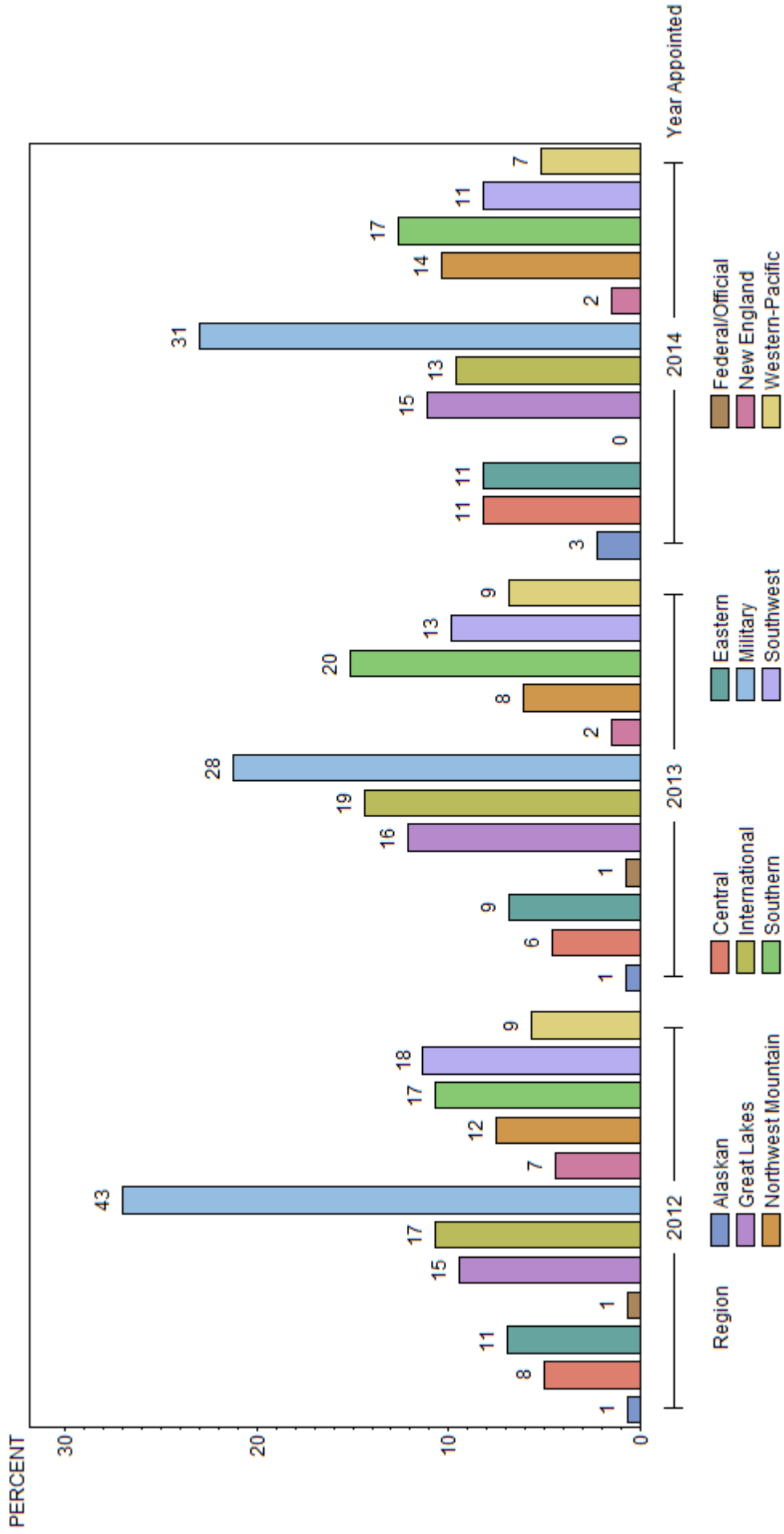


Figure 1. Distribution of Newly Appointed FAA Aviation Medical Examiners by Region and Year

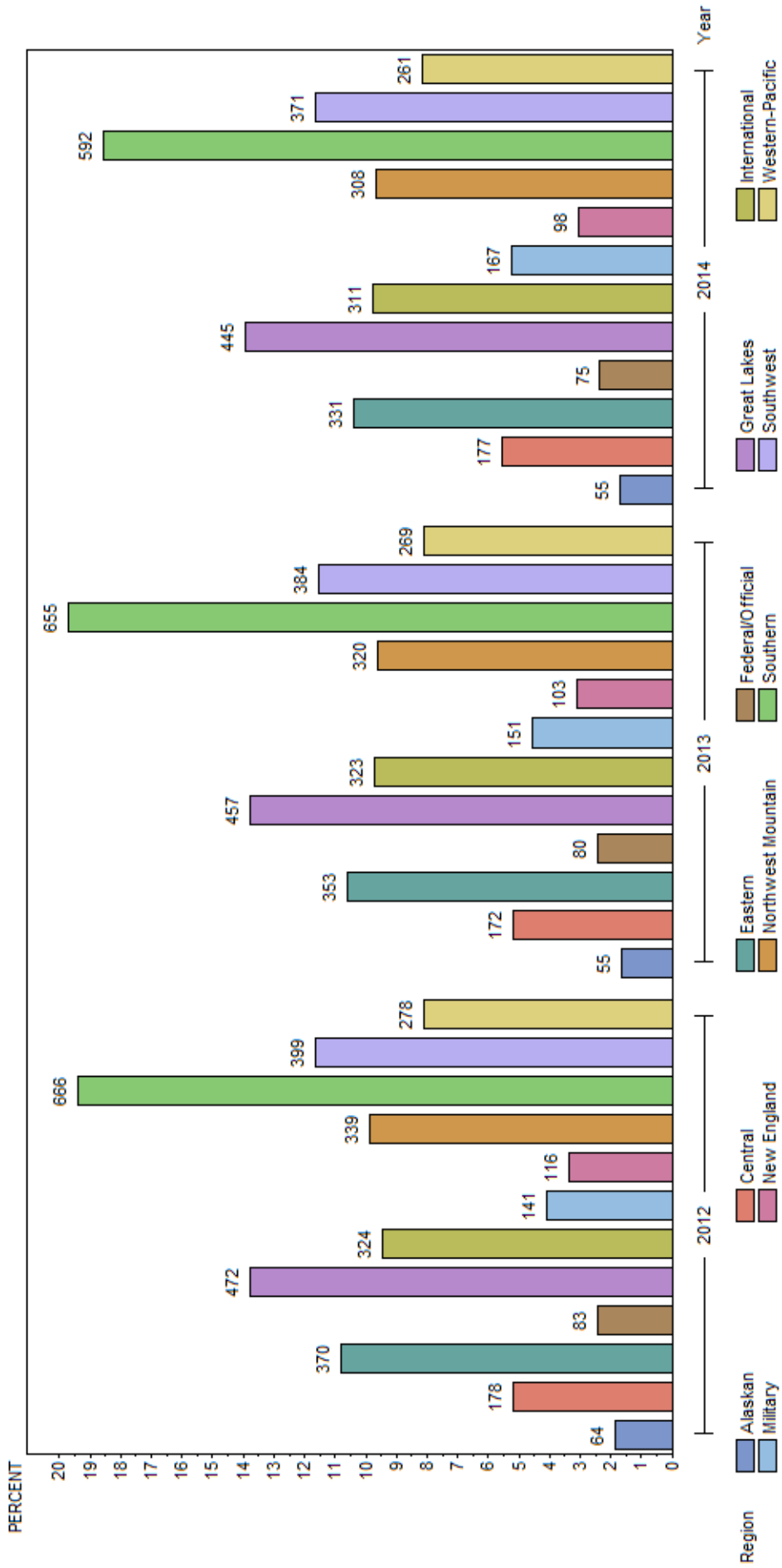


Figure 2. Distribution of Active FAA Aviation Medical Examiners by Region and Year

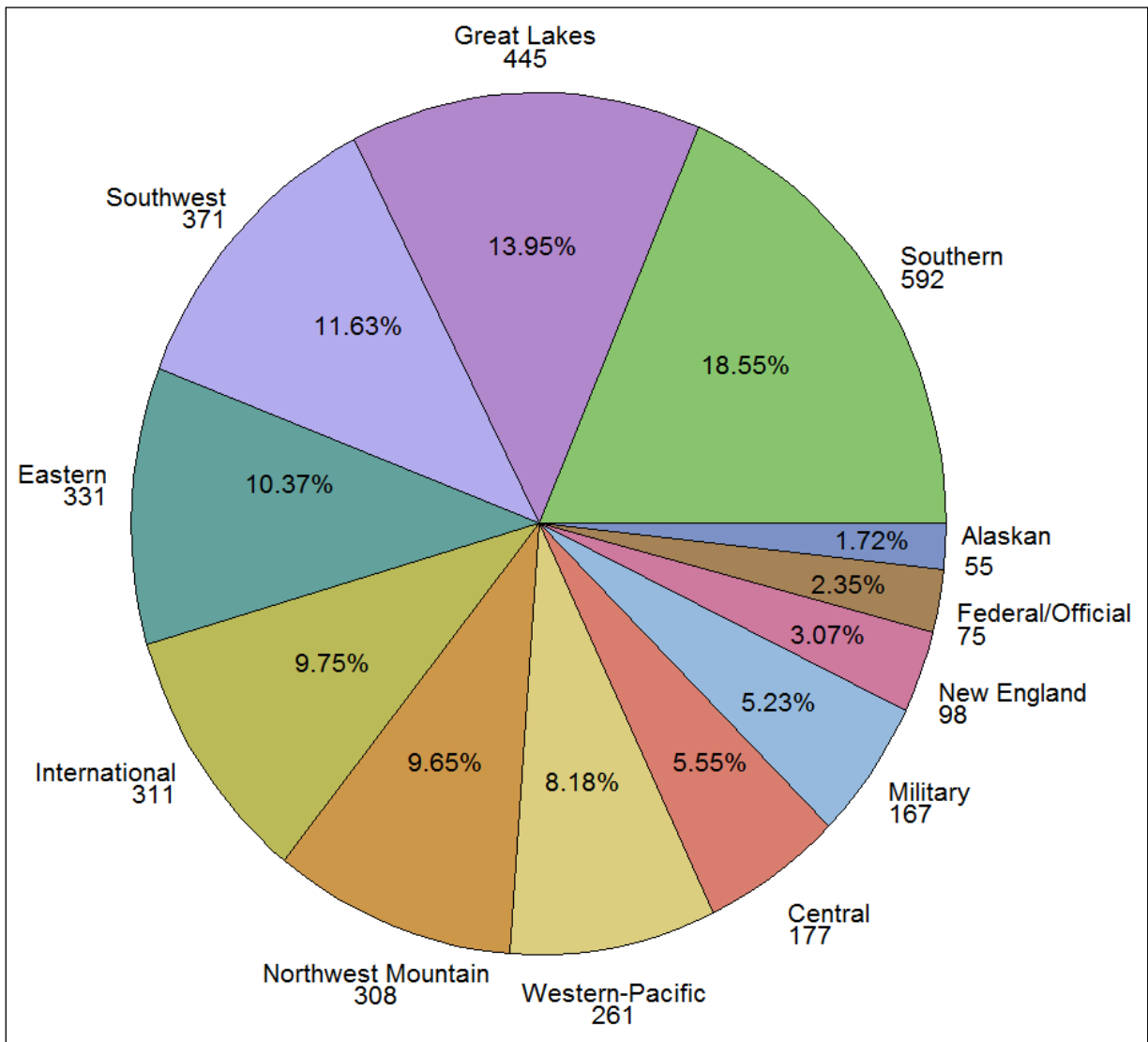


Figure 3. Distribution of Active FAA Aviation Medical Examiners by Region

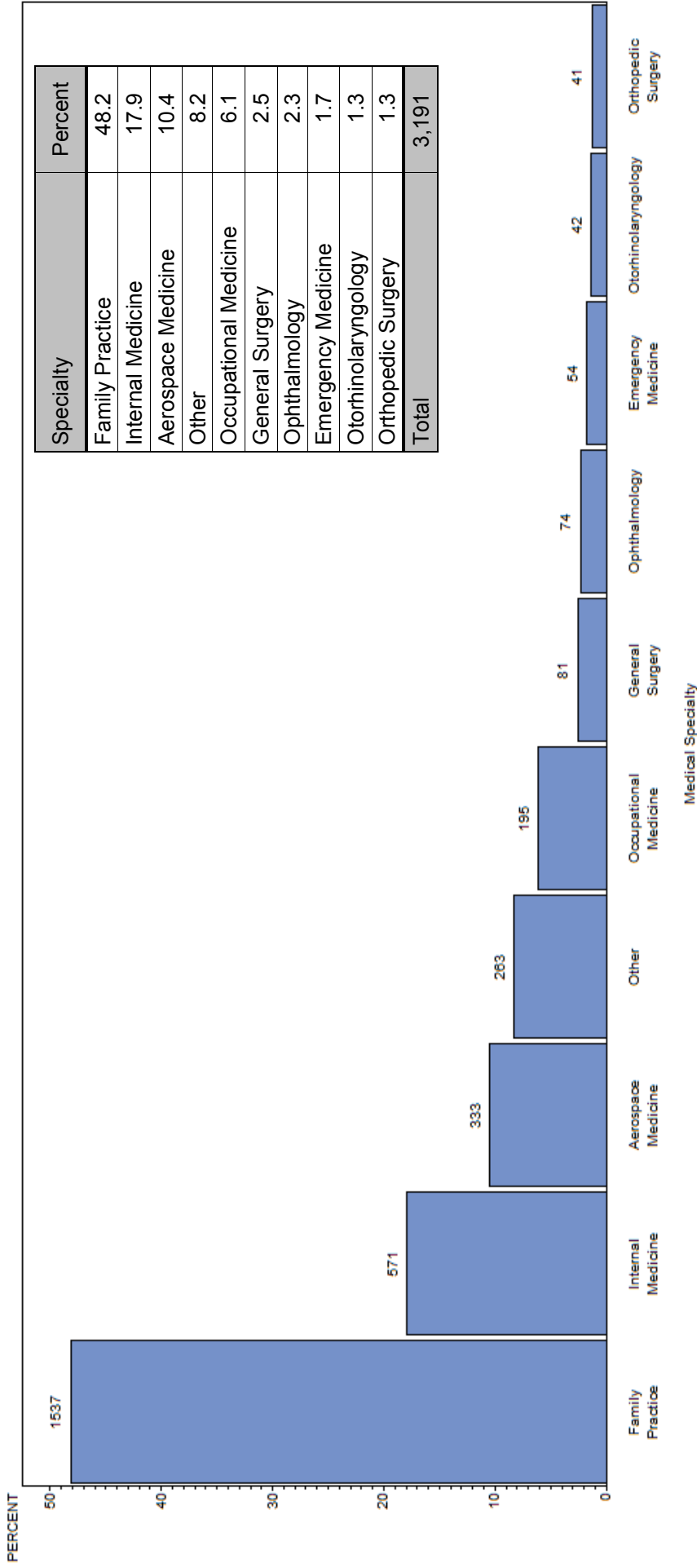


Figure 4. Medical Practice Specialty of Active FAA Aviation Medical Examiners

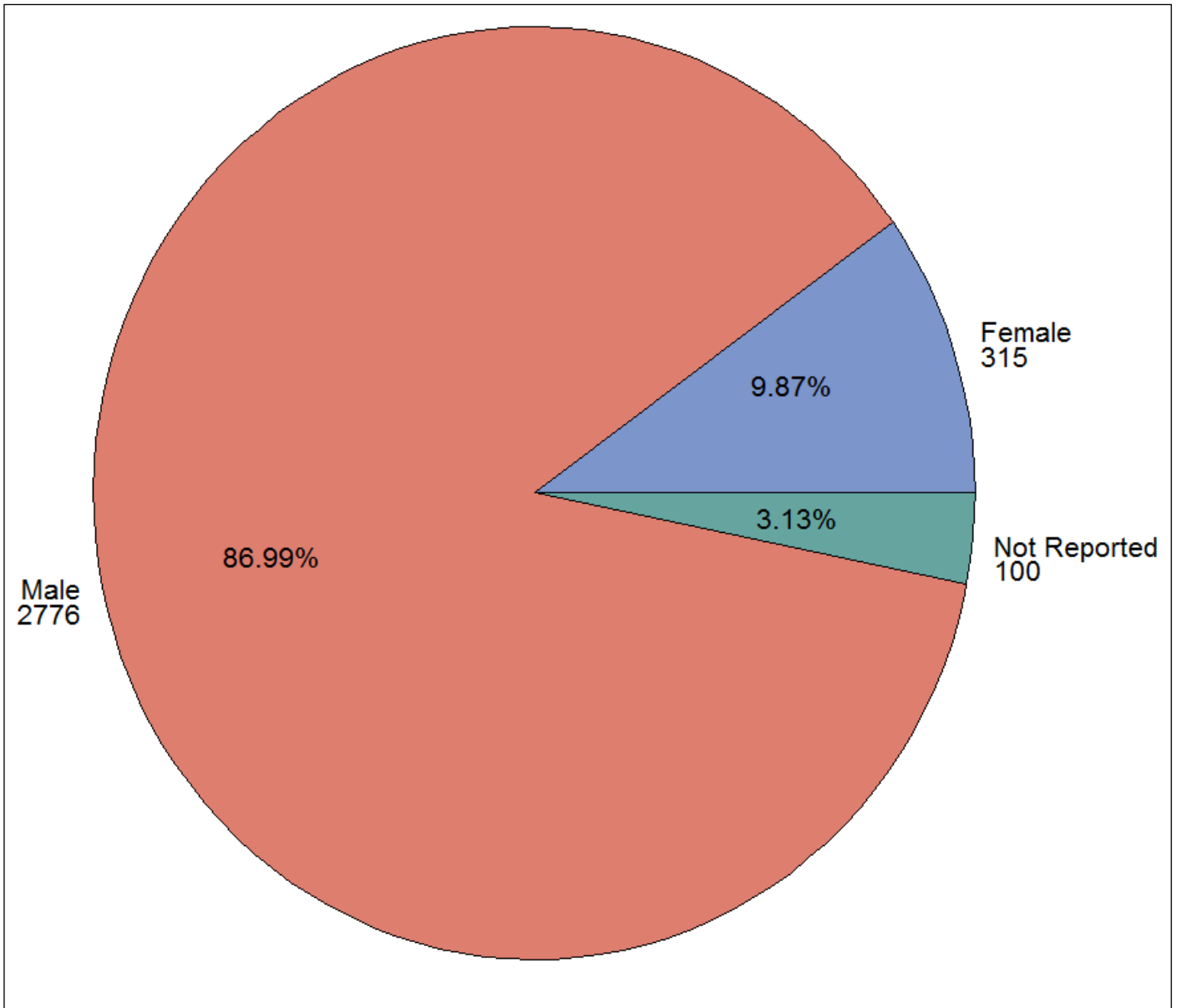


Figure 5. Gender Distribution of Active FAA Aviation Medical Examiners

Table 3. Pilot License Type of Active FAA Aviation Medical Examiners

Pilot License Type	Number (Percent)
Commercial – Instrument Flight Rules	132 (4.1)
Commercial	87 (2.7)
Private – Instrument Flight Rules	112 (3.5)
Private	998 (31.3)
Student	111 (3.5)
Other	44 (1.4)
None	1,707 (53.5)
Total	3,191

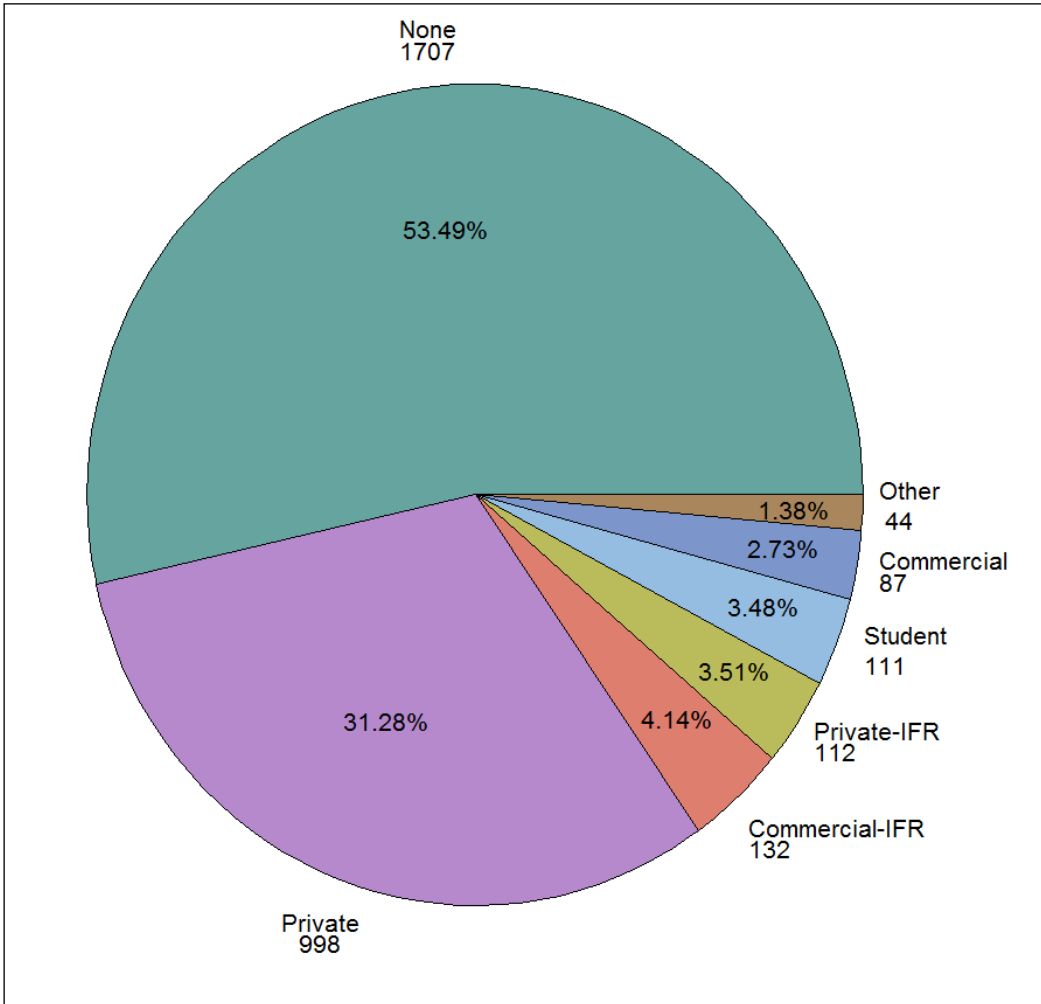


Figure 6. Pilot License Type of Active FAA Aviation Medical Examiners

Table 4. Senior Examiner Status of Active FAA Aviation Medical Examiners

Senior Examiner	Number (Percent)
Yes	2,027 (63.5)
No	1,164 (36.5)
Total	3,191

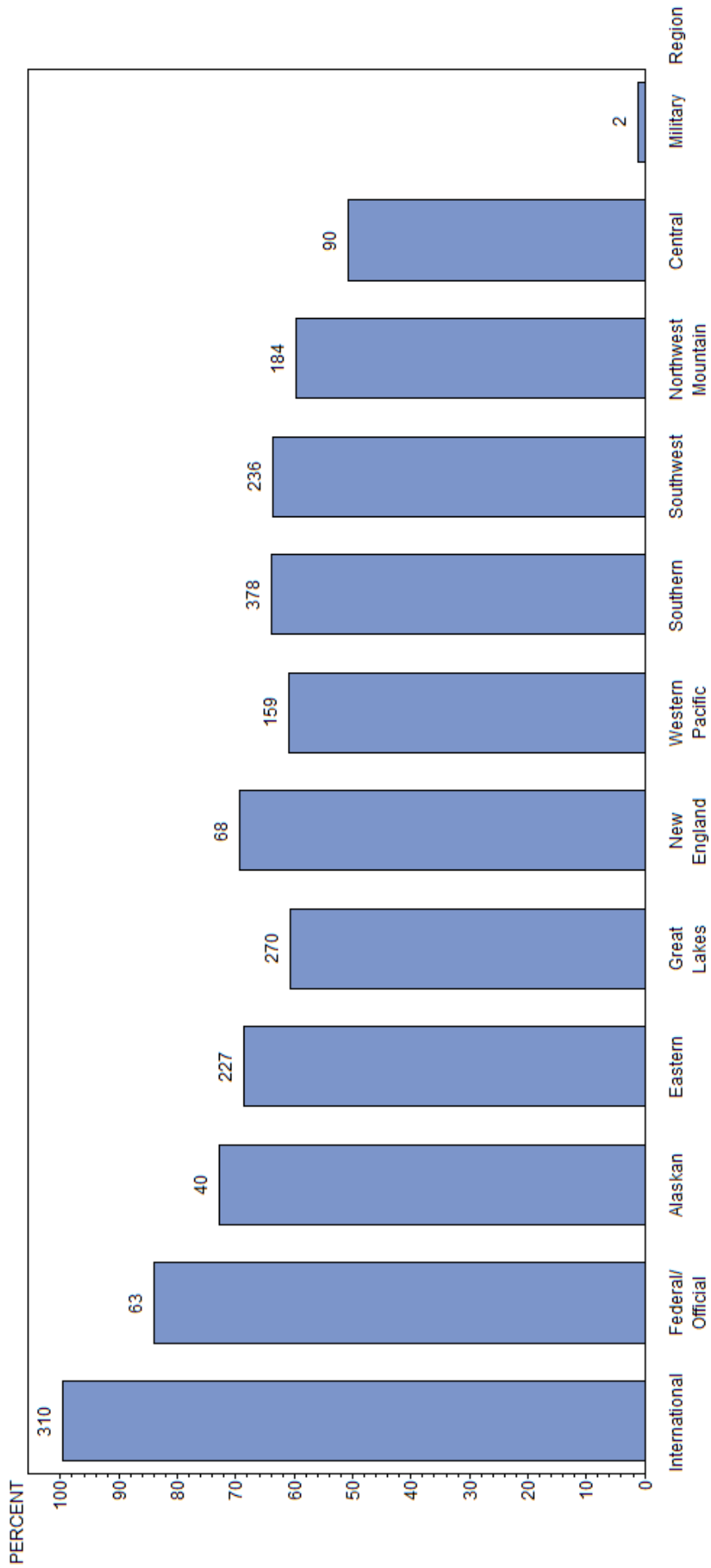


Figure 7. Senior Examiner Status of Active FAA Aviation Medical Examiners by Region

Table 5. Age by Gender of Active FAA Aviation Medical Examiners

		Number	Mean	Median	Standard Deviation	Minimum	Maximum
Overall		3,191	60.3	60.8	11.4	30.0	92.1
Gender	Female	315	52.6	53.1	9.9	30.2	80.3
	Male	2,776	61.0	61.5	11.2	30.0	92.1
	Not Reported	100	64.5	64.5	9.7	31.4	88.5

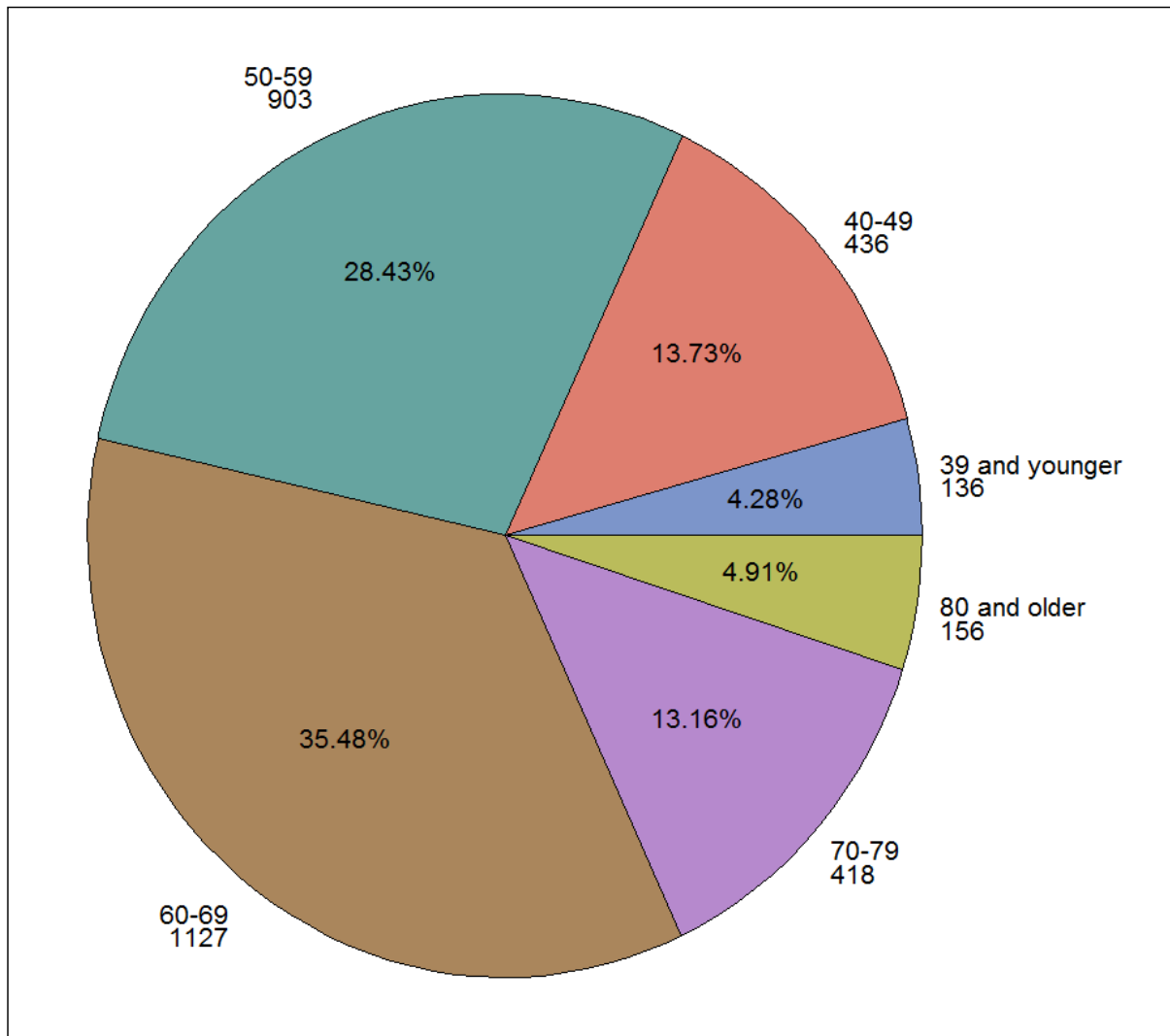


Figure 8. Age Group of Active FAA Aviation Medical Examiners

SECTION II.
AIRMAN MEDICAL CERTIFICATION

The Aerospace Medical Certification Division is the central screening facility and repository within the Federal Aviation Administration for the collection, investigation, adjudication, and analysis of medical data.

Activities of the Aerospace Medical Certification Division are presented in this section. Data are presented by calendar year and represent the most recent medical examination data for all active civil aviation airmen in the United States and its territories, as of December 31, 2014. Data may slightly fluctuate annually from systematic changes and corrections to the records.

Class issued represents the medical class certificate that was issued at the time of the examination. As of July 24, 2008, if the airman is under 40, first- and second-class certificates are valid for 1 year, and third-class certificates are valid for 5 years. If the airman is 40 and older, first-class certificates are valid for 6 months, second-class for 1 year, and third-class for 2 years. The length of certificate validity varies for those requiring a special issuance.

Effective medical class is determined by class issued, the age of the airman, time since exam, and whether the airman had a time-limited certificate. A certificate can be issued as a higher class (i.e., first-class) and become valid as a lower class certificate (e.g., third-class) as the validity period expires for each higher class.

All medical data were abstracted from the most recent medical examinations, with the exception of medical conditions. Medical conditions are determined by whether the airman has ever reported the condition on any past or current medical examination. Body mass index (BMI) classifications are as follows: *Underweight* (less than 18.5), *Normal* (18.5 to 24.9), *Overweight* (25 to 29.9), and *Obese* (greater than or equal to 30).

Table 6. Number of Medical Applications Processed by Year

Year	Number of Applications	Percent Change From Previous Year
2004	444,250	N/A
2005	438,415	-1.3
2006	440,271	0.4
2007	452,592	2.8
*2008	425,274	-6.0
2009	397,174	-6.6
2010	394,722	-0.6
2011	400,125	1.4
2012	396,349	-0.9
2013	394,447	-0.5
2014	391,663	-0.7

*Policy change July 24, 2008 lengthened the time of certificate validity for those under 40 years of age.

Table 7. Issued and Effective Medical Class by Region

Region *	First			Second			Third			Total Active Airmen					
	1st Class Certified	Effective Class			2nd Class Certified	Effective Class			3rd Class Certified	Effective Class	Total Airmen Certified	Percent of Total Airmen	Effective Class		
		1	2	3		2	3	3					1	2	3
Alaskan	1,992	1,540	191	261	2,013	1,355	658	3,760	3,760	3,760	1	1,540	1,546	4,679	
Central	4,928	3,379	506	1,043	5,211	3,301	1,910	12,422	12,422	12,422	4	3,379	3,807	15,375	
Eastern	18,973	13,398	1,494	4,081	12,220	7,026	5,194	29,369	29,369	29,369	11	13,398	8,520	38,644	
Great Lakes	26,063	18,023	1,822	6,218	13,455	8,039	5,416	35,158	35,158	35,158	13	18,023	9,861	46,792	
New England	5,997	4,359	460	1,178	3,539	2,133	1,406	9,978	9,978	9,978	3	4,359	2,593	12,562	
Northwest-Mountain	19,453	13,896	1,713	3,844	13,844	8,071	5,773	25,396	25,396	25,396	10	13,896	9,784	35,013	
Southern	44,437	31,669	4,051	8,717	24,297	14,764	9,533	48,057	48,057	48,057	21	31,669	18,815	66,307	
Southwest	22,156	15,507	1,978	4,671	15,704	9,891	5,813	30,428	30,428	30,428	12	15,507	11,869	40,912	
Western-Pacific	24,551	16,681	2,212	5,658	17,958	10,559	7,399	38,641	38,641	38,641	14	16,681	12,771	51,698	
US Total	168,550	118,452	14,427	35,671	108,241	65,139	43,102	233,209	233,209	233,209	90	118,452	79,566	311,982	
Military	20	13	2	5	1,689	673	1,016	3,802	3,802	3,802	1	13	675	4,823	
International	27,593	10,398	2,097	15,098	7,789	3,054	4,735	14,683	14,683	14,683	9	10,398	5,151	34,516	
Total	196,163	128,863	16,526	50,774	117,719	68,866	48,853	251,694	251,694	251,694	100	128,863	85,392	351,321	
Percent of Total Certified Airmen	34.7				20.8			44.5			100.0	22.8	15.1	62.1	

*233 airmen with unknown region

Table 8. Issued Medical Class by State of Residence and Gender

State of Residence *	Issued Medical Class						Total Airmen	
	First		Second		Third		Female	Male
	Female	Male	Female	Male	Female	Male		
Alabama	46	1,174	76	2,246	207	3,436	329	6,856
Alaska	165	1,827	154	1,859	384	3,376	703	7,062
Arizona	388	6,102	233	3,444	461	6,175	1,082	15,721
Arkansas	40	878	44	1,330	135	2,276	219	4,484
California	983	13,049	790	11,027	2,335	26,274	4,108	50,350
Colorado	498	6,127	173	2,624	532	5,685	1,203	14,436
Connecticut	75	1,529	43	728	156	2,307	274	4,564
Delaware	26	422	13	253	43	518	82	1,193
District of Columbia	12	120	10	82	41	281	63	483
Florida	1,201	19,862	612	9,848	1,660	18,104	3,473	47,814
Georgia	337	7,322	173	2,971	416	6,101	926	16,394
Hawaii	151	1,286	67	712	81	599	299	2,597
Idaho	47	799	75	1,325	160	2,112	282	4,236
Illinois	392	5,345	173	2,404	398	6,054	963	13,803
Indiana	177	2,910	87	1,429	246	3,898	510	8,237
Iowa	30	640	45	1,009	157	2,716	232	4,365
Kansas	65	1,236	80	1,550	243	3,274	388	6,060
Kentucky	113	2,112	45	876	150	2,068	308	5,056
Louisiana	49	1,221	49	1,543	137	2,268	235	5,032
Maine	32	439	29	522	78	1,072	139	2,033
Maryland	95	1,760	110	1,510	368	3,460	573	6,730
Massachusetts	123	1,825	64	1,138	314	3,692	501	6,655
Michigan	271	4,034	109	1,986	392	5,618	772	11,638
Minnesota	271	4,210	138	1,896	288	4,632	697	10,738
Mississippi	43	925	36	982	124	1,734	203	3,641
Missouri	115	2,189	76	1,721	263	3,846	454	7,756
Montana	44	626	68	985	145	1,643	257	3,254
Nebraska	30	623	14	716	109	1,814	153	3,153
Nevada	145	2,244	99	1,444	207	2,271	451	5,959
New Hampshire	69	1,316	51	629	81	1,259	201	3,204
New Jersey	166	2,596	96	1,387	234	3,533	496	7,516
New Mexico	32	533	66	933	138	1,618	236	3,084
New York	279	4,237	177	2,502	536	6,821	992	13,560
North Carolina	238	4,158	119	2,331	402	5,726	759	12,215
North Dakota	49	1,388	31	765	66	1,166	146	3,319
Ohio	219	4,332	144	2,242	422	6,309	785	12,883
Oklahoma	81	1,462	102	1,777	310	3,720	493	6,959
Oregon	133	1,517	162	2,262	340	3,572	635	7,351
Pennsylvania	233	4,391	196	2,617	396	6,027	825	13,035
Rhode Island	23	279	10	133	31	428	64	840
South Carolina	82	1,835	55	1,162	171	2,832	308	5,829
South Dakota	26	318	22	550	74	984	122	1,852
Tennessee	189	3,974	133	2,236	279	4,058	601	10,268
Texas	806	17,054	584	9,276	1,426	18,400	2,816	44,730
Utah	152	2,943	142	2,058	130	2,185	424	7,186
Vermont	22	265	13	179	41	519	76	963
Virginia	255	3,990	161	2,612	505	5,526	921	12,128
Washington	454	5,845	250	3,301	634	7,214	1,338	16,360
West Virginia	19	289	18	378	64	871	101	1,538
Wisconsin	100	2,021	91	1,388	332	4,279	523	7,688
Wyoming	19	249	29	390	76	968	124	1,607
US Territories	63	1,003	38	581	59	890	160	2,474
Military	1	19	68	1,621	352	3,450	421	5,090
International	1,556	26,037	379	7,410	1,021	13,662	2,956	47,109
Total	11,230	184,887	6,822	110,880	18,350	233,321	36,402	529,088

*319 airmen missing state

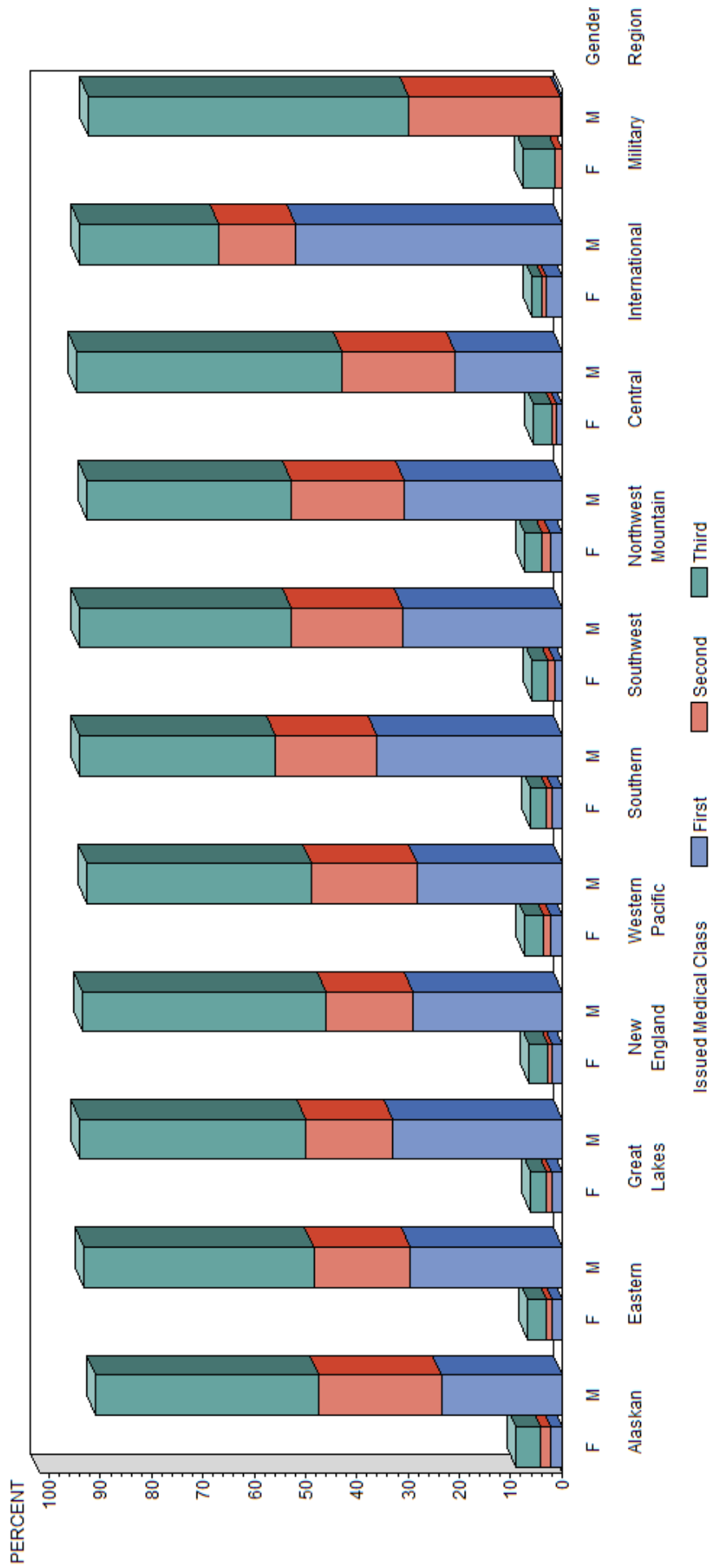


Figure 9. Issued Medical Class by Region and Gender

Table 9. Age as of 12/31/2014 of all Active Airmen by Effective Medical Class

Effective Medical Class	Number of Airmen	Mean	Median	Standard Deviation
First	128,863	44.0	45.3	12.6
Second	85,393	49.6	50.4	13.7
Third	351,553	43.2	40.5	16.9
All Classes	565,809	44.4	44.0	15.7

Table 10. Age Groups of all Active Airmen by Effective Medical Class

Age Group (as of 12/31/2014)	Effective Medical Class Number (Percent)		
	First	Second	Third
16-19	3,316 (2.57)	1,443 (1.69)	10,447 (2.97)
20-24	6,996 (5.43)	3,287 (3.85)	45,537 (12.95)
25-29	10,809 (8.39)	4,479 (5.25)	49,431 (14.06)
30-34	14,495 (11.25)	4,900 (5.74)	37,361 (10.63)
35-39	14,449 (11.21)	4,853 (5.68)	30,088 (8.56)
40-44	13,526 (10.50)	10,113 (11.84)	27,779 (7.90)
45-49	16,630 (12.91)	12,563 (14.71)	21,481 (6.11)
50-54	19,383 (15.04)	12,720 (14.90)	27,012 (7.68)
55-59	17,225 (13.37)	10,702 (12.53)	29,705 (8.45)
60-64	9,601 (7.45)	8,273 (9.69)	26,639 (7.58)
65+	2,433 (1.89)	12,060 (14.12)	46,073 (13.11)
Total	128,863	85,393	351,553

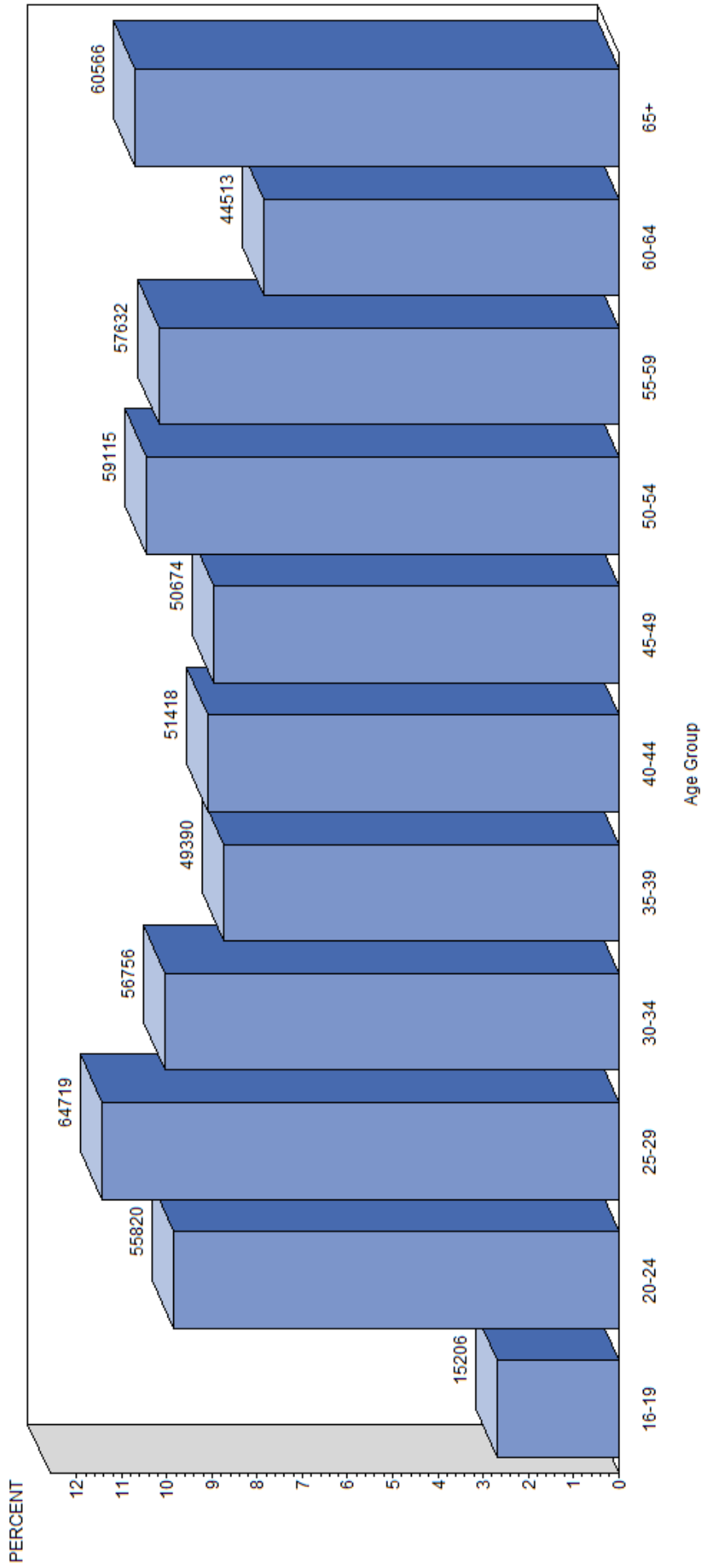


Figure 10. Age Groups as of 12/31/2014 of all Active Aimens

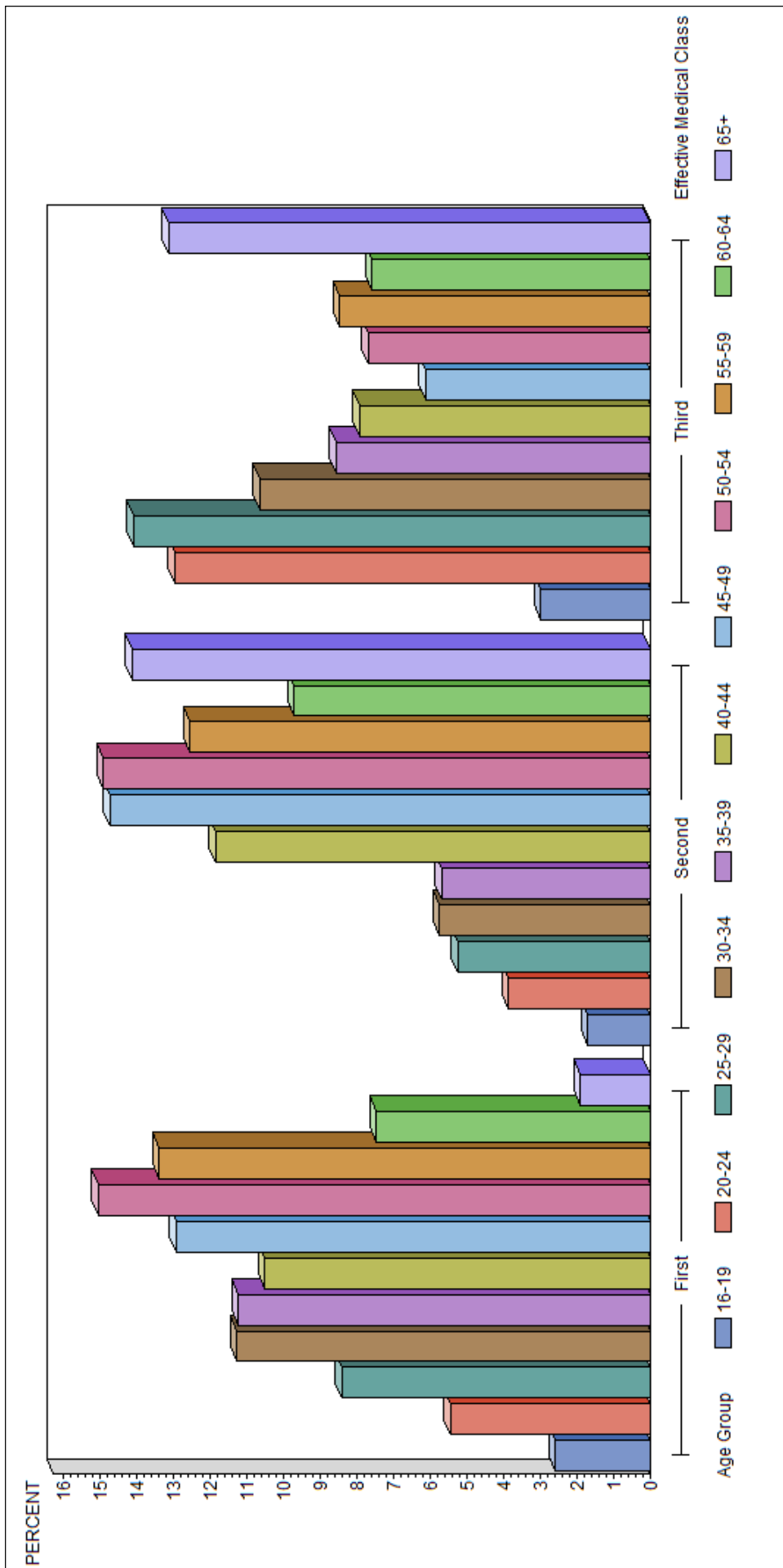


Figure 11. Age Groups as of 12/31/2014 by Effective Medical Class for all Active Airmen

Table 11. Age at Exam Summary Statistics for Active Airmen by Issued Medical Class

Issued Medical Class	Number of Airmen	Mean	Median	Standard Deviation
First	196,233	40.5	40.7	13.9
Second	117,756	43.6	43.7	16.1
Third	251,820	44.7	45.5	17.7
All Classes	565,809	43.0	43.1	16.3

Table 12. Age Groups for all Active Airmen by Issued Medical Class

Age Group (at time of exam)	Issued Medical Class Number (Percent)		
	First	Second	Third
16-19	13,624 (6.94)	6,736 (5.72)	17,768 (7.06)
20-24	20,863 (10.63)	12,015 (10.20)	30,823 (12.24)
25-29	21,427 (10.92)	12,237 (10.39)	23,189 (9.21)
30-34	21,878 (11.15)	10,910 (9.26)	19,365 (7.69)
35-39	18,463 (9.41)	10,850 (9.21)	20,729 (8.23)
40-44	18,382 (9.37)	8,801 (7.47)	12,323 (4.89)
45-49	21,954 (11.19)	11,155 (9.47)	18,502 (7.35)
50-54	23,713 (12.08)	12,047 (10.23)	23,956 (9.51)
55-59	20,058 (10.22)	11,088 (9.42)	26,048 (10.34)
60-64	12,044 (6.14)	8,869 (7.53)	22,364 (8.88)
65+	3,827 (1.95)	13,048 (11.08)	36,753 (14.59)
Total	196,233	117,756	251,820

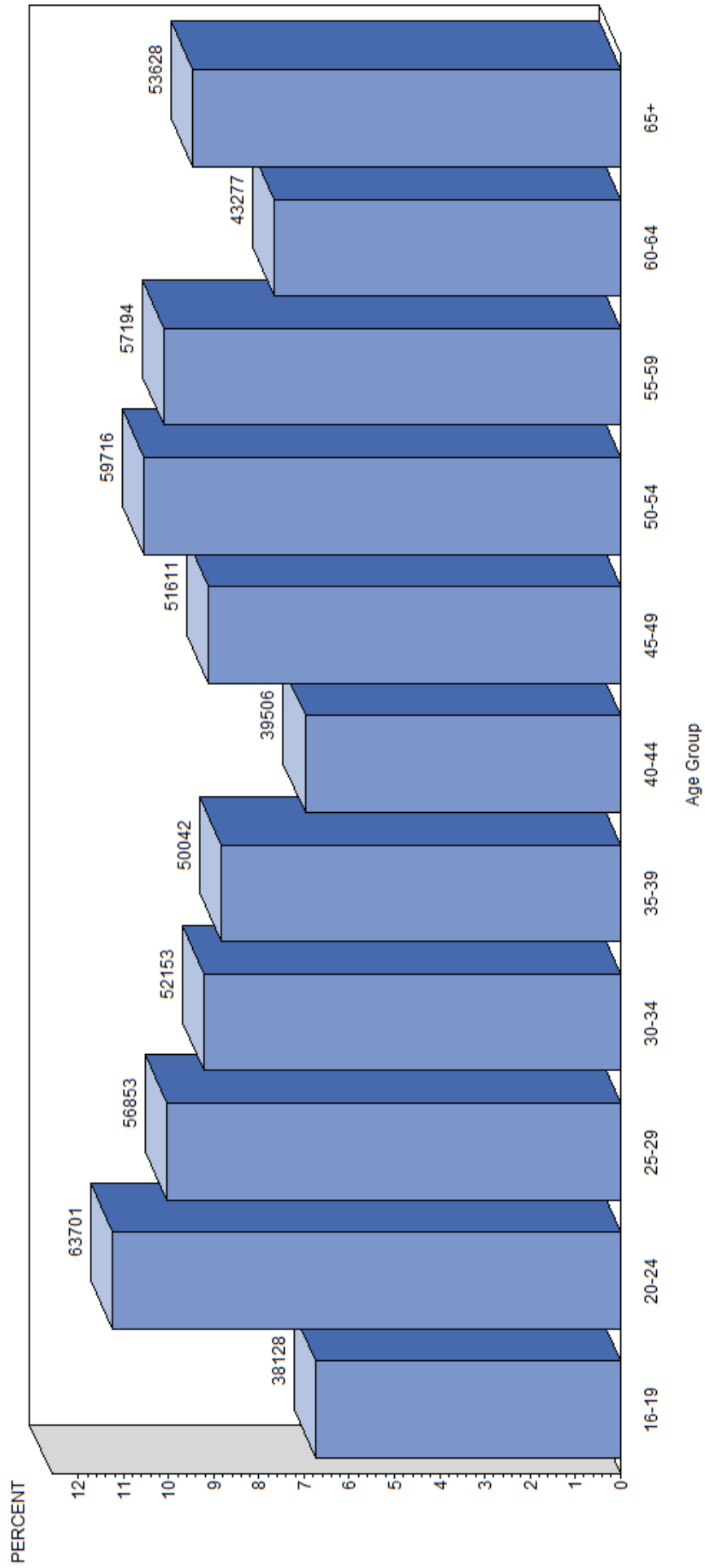


Figure 12. Age Group of all Active Airmen at Time of Exam

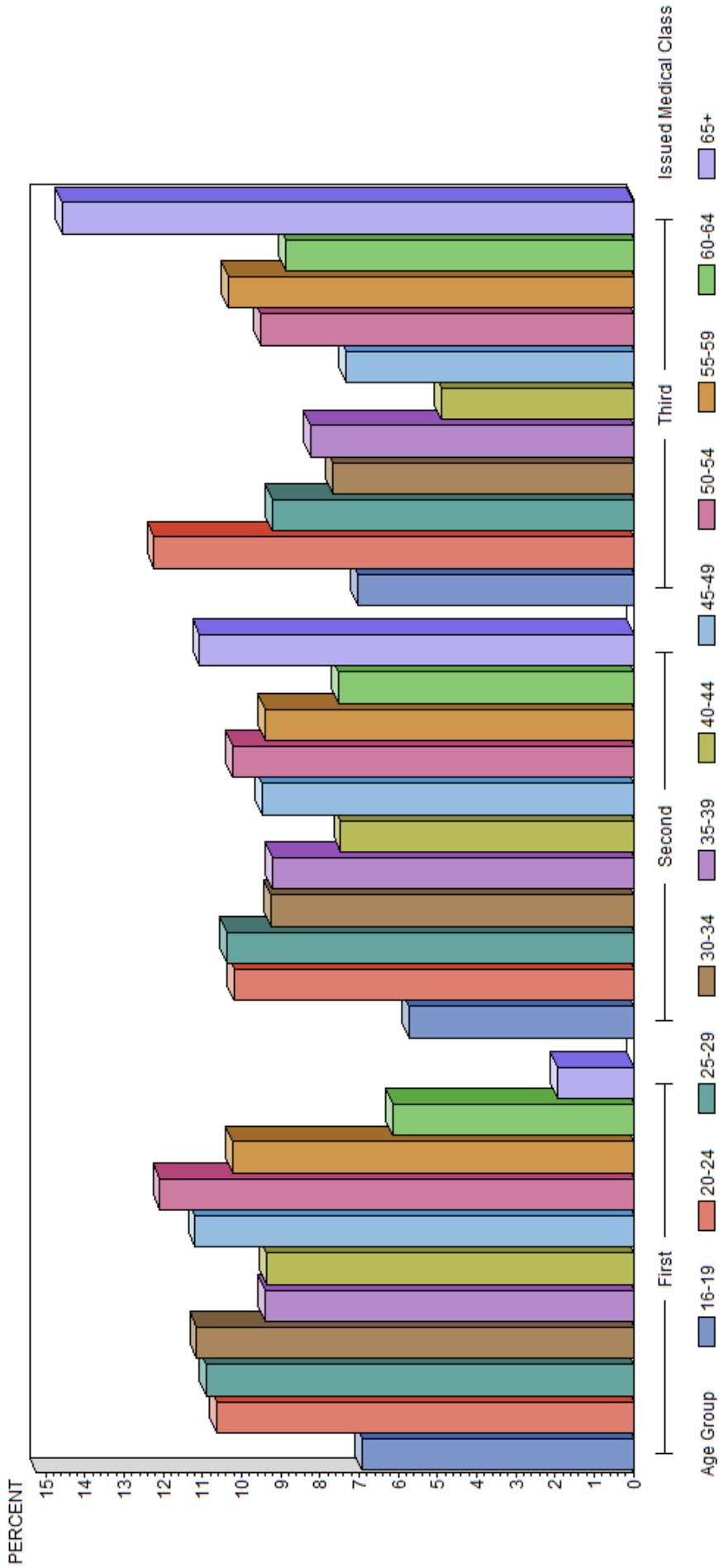


Figure 13. Age Groups by Issued Medical Class for all Active Airmen at Time of Exam

Table 13. Age at Time of Exam by Issued Medical Class and Gender

Age Group	Issued Medical Class						Total Airmen	
	First		Second		Third		Female	Male
	Female	Male	Female	Male	Female	Male		
16-19	1,548	12,076	899	5,837	2,626	15,142	5,073	33,055
20-24	1,791	19,072	1,044	10,971	3,427	27,396	6,262	57,439
25-29	1,618	19,809	1,021	11,216	2,223	20,966	4,862	51,991
30-34	1,507	20,371	821	10,089	1,691	17,674	4,019	48,134
35-39	1,173	17,290	730	10,120	1,493	19,236	3,396	46,646
40-44	939	17,443	439	8,362	789	11,534	2,167	37,339
45-49	985	20,969	485	10,670	1,088	17,414	2,558	49,053
50-54	889	22,824	495	11,552	1,331	22,625	2,715	57,001
55-59	566	19,492	394	10,694	1,386	24,662	2,346	54,848
60-64	202	11,842	256	8,613	1,027	21,337	1,485	41,792
65+	22	3,805	243	12,805	1,289	35,464	1,554	52,074
Total	11,240	184,993	6,827	110,929	18,370	233,450	36,437	529,372

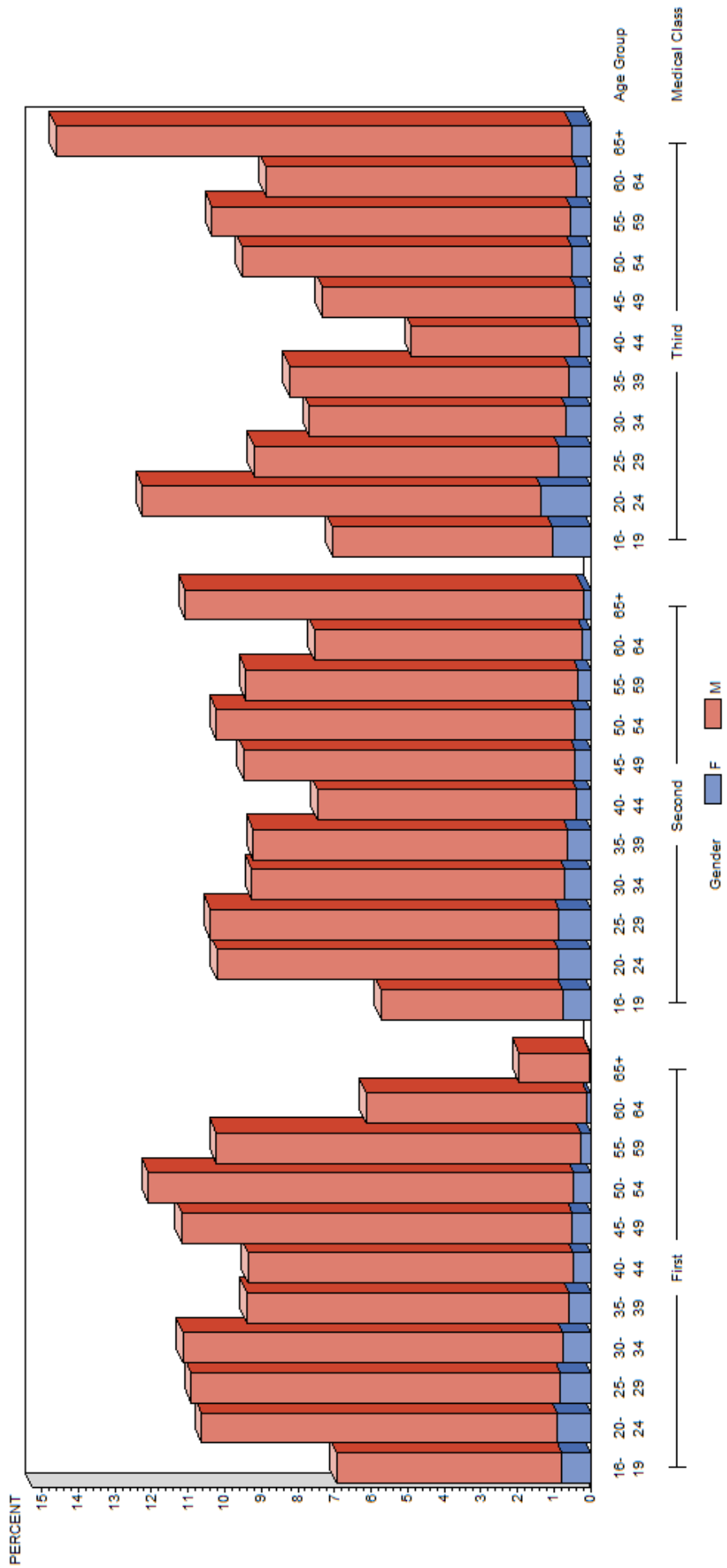


Figure 14. Age Group at Time of Exam by Gender and Issued Medical Class

Table 14. Height (Inches) of all Active Airmen by Gender and Issued Medical Class

Issued Medical Class*	Gender	Number of Airmen	Mean	Median	Standard Deviation
First	Females	11,240	65.5	65.0	2.7
	Males	184,986	70.6	71.0	2.7
Second	Females	6,827	65.3	65.0	2.8
	Males	110,927	70.5	70.0	2.7
Third	Females	18,368	65.3	65.0	2.9
	Males	233,436	70.5	70.0	2.8
All Classes	Females	36,435	65.4	65.0	2.8
	Males	529,349	70.5	71.0	2.7

*25 airmen missing height

Table 15. Height (Inches) by Issued Medical Class and Gender

Height*	Issued Medical Class						Total Airmen	
	First		Second		Third		Female	Male
	Female	Male	Female	Male	Female	Male		
<59	61	139	49	120	157	273	267	532
59	49	49	42	65	107	117	198	231
60	193	97	119	134	378	256	690	487
61	358	99	229	106	695	241	1,282	446
62	743	169	544	123	1,453	381	2,740	673
63	1,095	387	713	304	1,947	737	3,755	1,428
64	1,626	1,257	1,024	757	2,539	1,859	5,189	3,873
65	1,626	2,773	932	1,728	2,547	3,852	5,105	8,353
66	1,683	6,592	1,024	4,071	2,551	8,624	5,258	19,287
67	1,422	11,359	790	6,773	2,119	14,577	4,331	32,709
68	1,018	17,793	535	10,699	1,563	22,297	3,116	50,789
69	632	22,601	365	13,765	979	28,085	1,976	64,451
70	387	28,055	213	16,978	625	35,725	1,225	80,758
71	180	24,929	114	15,237	319	32,131	613	72,297
72	100	27,352	71	16,504	193	33,675	364	77,531
73	28	16,407	31	9,343	77	19,984	136	45,734
74	15	12,479	16	7,137	63	15,087	94	34,703
75	8	6,530	7	3,588	27	7,883	42	18,001
76	9	3,842	4	2,183	18	4,736	31	10,761
77	2	1,269	1	767	3	1,660	6	3,696
78+	5	808	4	545	8	1,256	17	2,609
Total	11,240	184,986	6,827	110,927	18,368	233,436	36,435	529,349

*25 airmen missing height

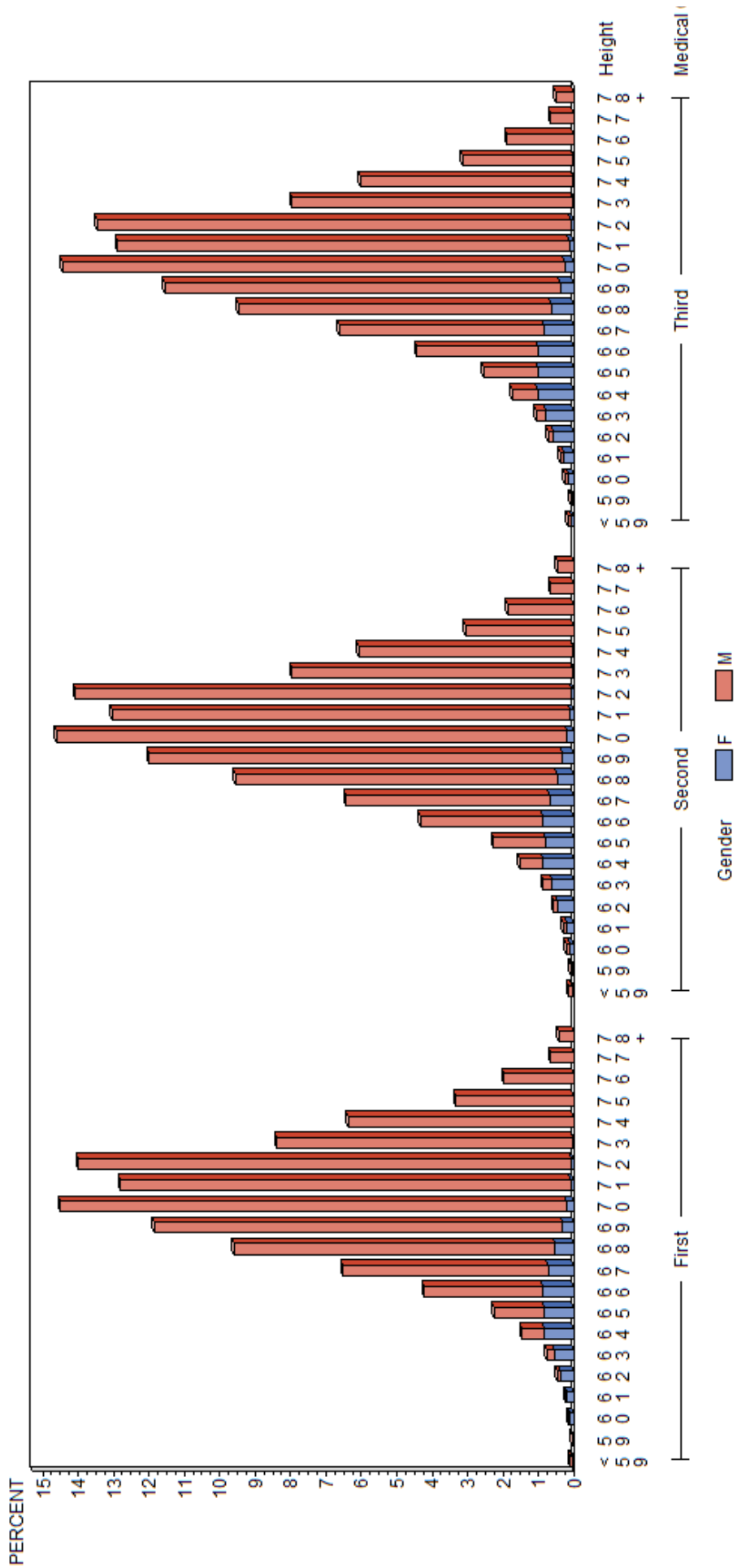


Figure 15. Height (Inches) by Gender and Issued Medical Class

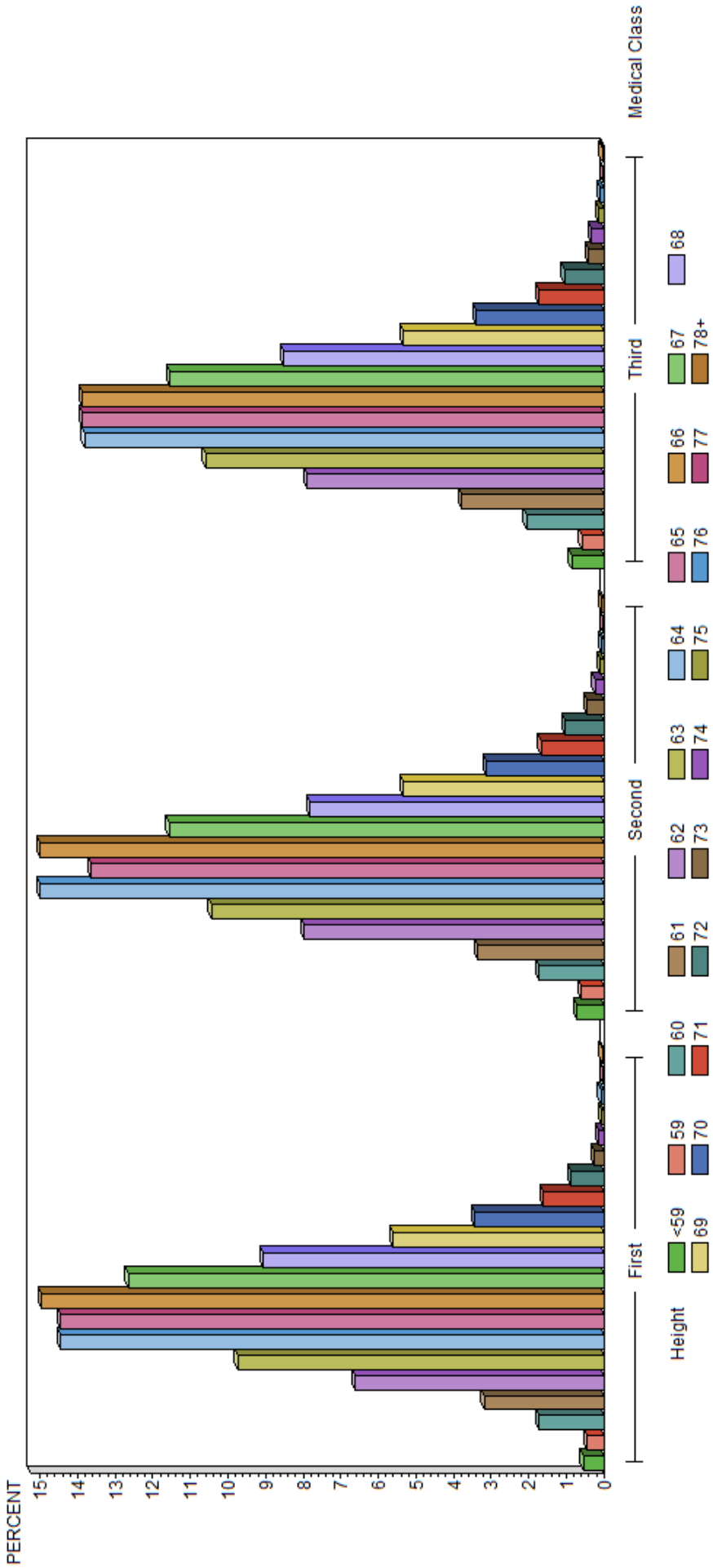


Figure 16. Height (Inches) by Issued Medical Class – Females Only

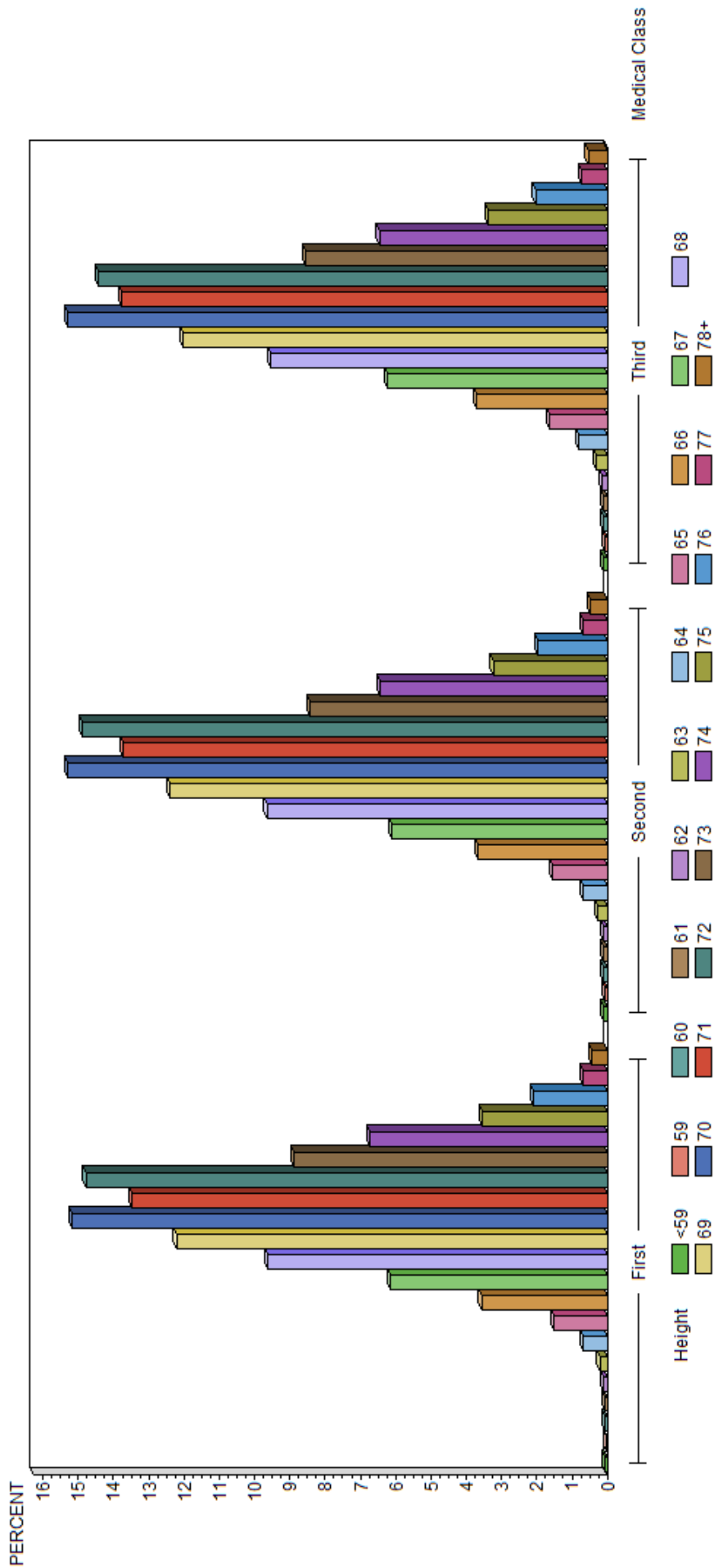


Figure 17. Height (Inches) by Issued Medical Class – Males Only

Table 16. Weight (Pounds) of all Active Airmen by Gender and Issued Medical Class

Issued Medical Class*		Number of Airmen	Mean	Median	Standard Deviation
First	Females	11,236	144.7	140.0	28.5
	Males	184,978	190.3	187.0	33.2
Second	Females	6,827	148.9	142.0	32.0
	Males	110,919	194.6	191.0	34.4
Third	Females	18,368	146.4	140.0	29.5
	Males	233,427	193.5	190.0	34.7
All Classes	Females	36,431	146.4	140.0	29.7
	Males	529,324	192.6	189.0	34.1

*54 missing weight

Table 17. Weight (Pounds) by Issued Medical Class and Gender

Weight*	Issued Medical Class						Total Airmen	
	First		Second		Third		Female	Male
	Female	Male	Female	Male	Female	Male		
<100	120	51	47	28	164	76	331	155
100-109	400	168	241	71	683	161	1,324	400
110-119	1,156	626	655	278	1,789	673	3,600	1,577
120-129	1,881	1,907	1,010	938	2,791	2,094	5,682	4,939
130-139	2,014	4,505	1,131	2,302	3,263	4,962	6,408	11,769
140-149	1,752	8,378	1,005	4,190	2,788	9,533	5,545	22,101
150-159	1,200	14,025	748	7,018	2,115	16,110	4,063	37,153
160-169	902	19,071	574	10,223	1,481	22,755	2,957	52,049
170-179	554	23,573	373	13,008	1,022	27,868	1,949	64,449
180-189	433	25,066	323	14,485	750	30,788	1,506	70,339
190-199	269	22,542	198	13,507	473	27,898	940	63,947
200-209	167	18,326	150	11,832	302	23,888	619	54,046
210-219	123	14,408	114	9,354	212	18,635	449	42,397
220-229	84	10,465	85	7,440	184	14,593	353	32,498
230-239	67	7,353	45	5,217	123	10,617	235	23,187
240-249	35	5,033	37	3,590	74	7,302	146	15,925
250-259	29	3,369	29	2,496	53	5,126	111	10,991
260-269	17	2,129	22	1,677	33	3,389	72	7,195
270-279	5	1,374	12	1,074	28	2,332	45	4,780
280+	28	2,609	28	2,191	40	4,627	96	9,427
Total	11,236	184,978	6,827	110,919	18,368	233,427	36,431	529,324

*54 airmen missing weight

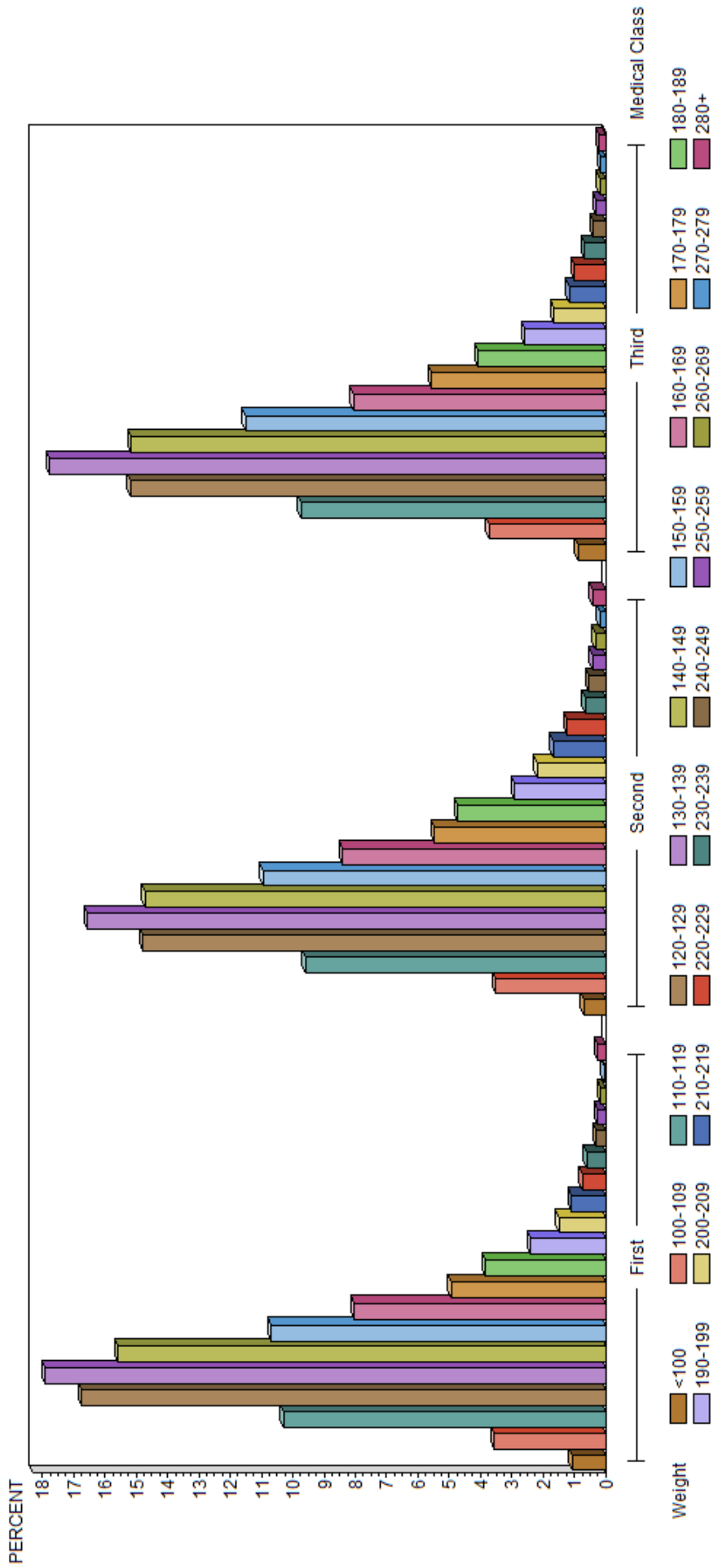


Figure 18. Weight (Pounds) by Gender and Issued Medical Class

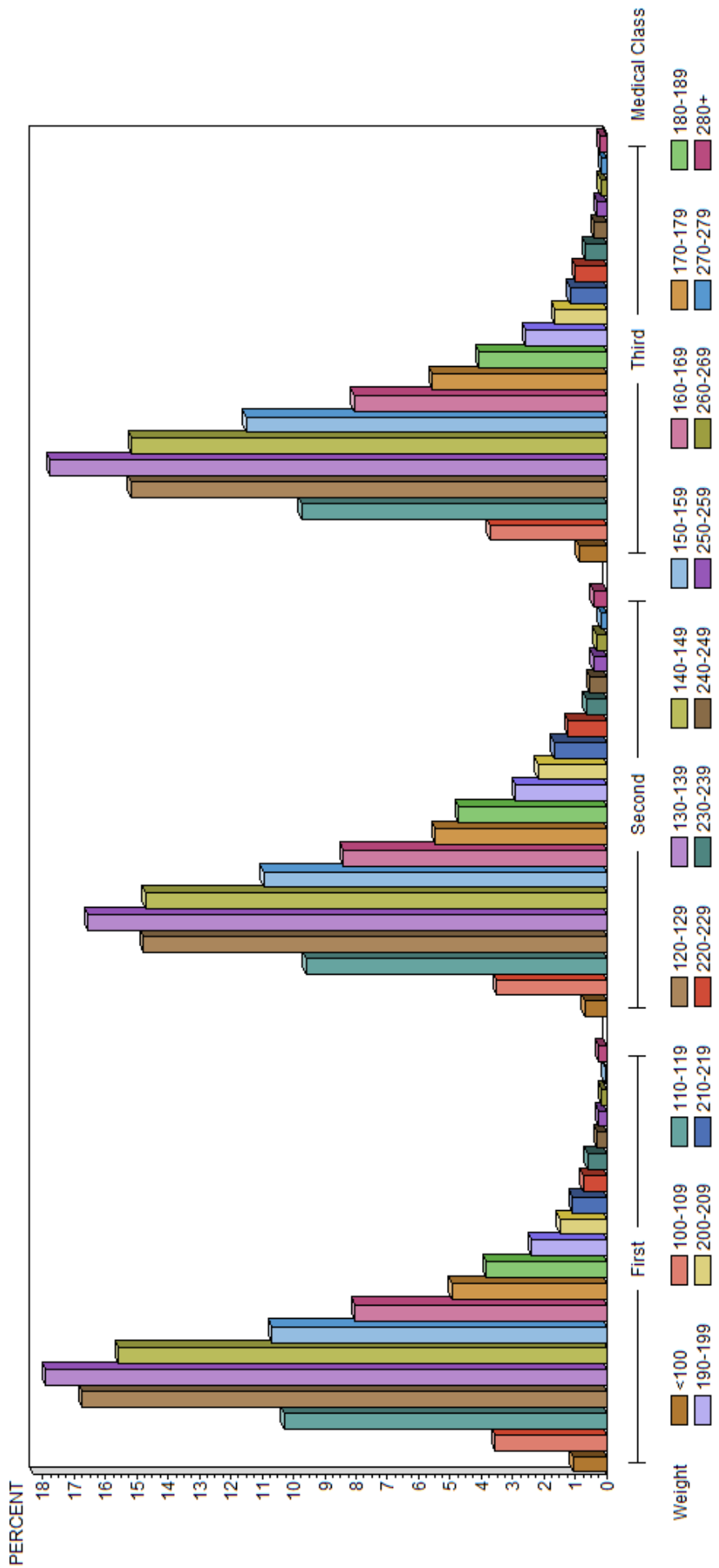


Figure 19. Weight (Pounds) by Issued Medical Class – Females Only

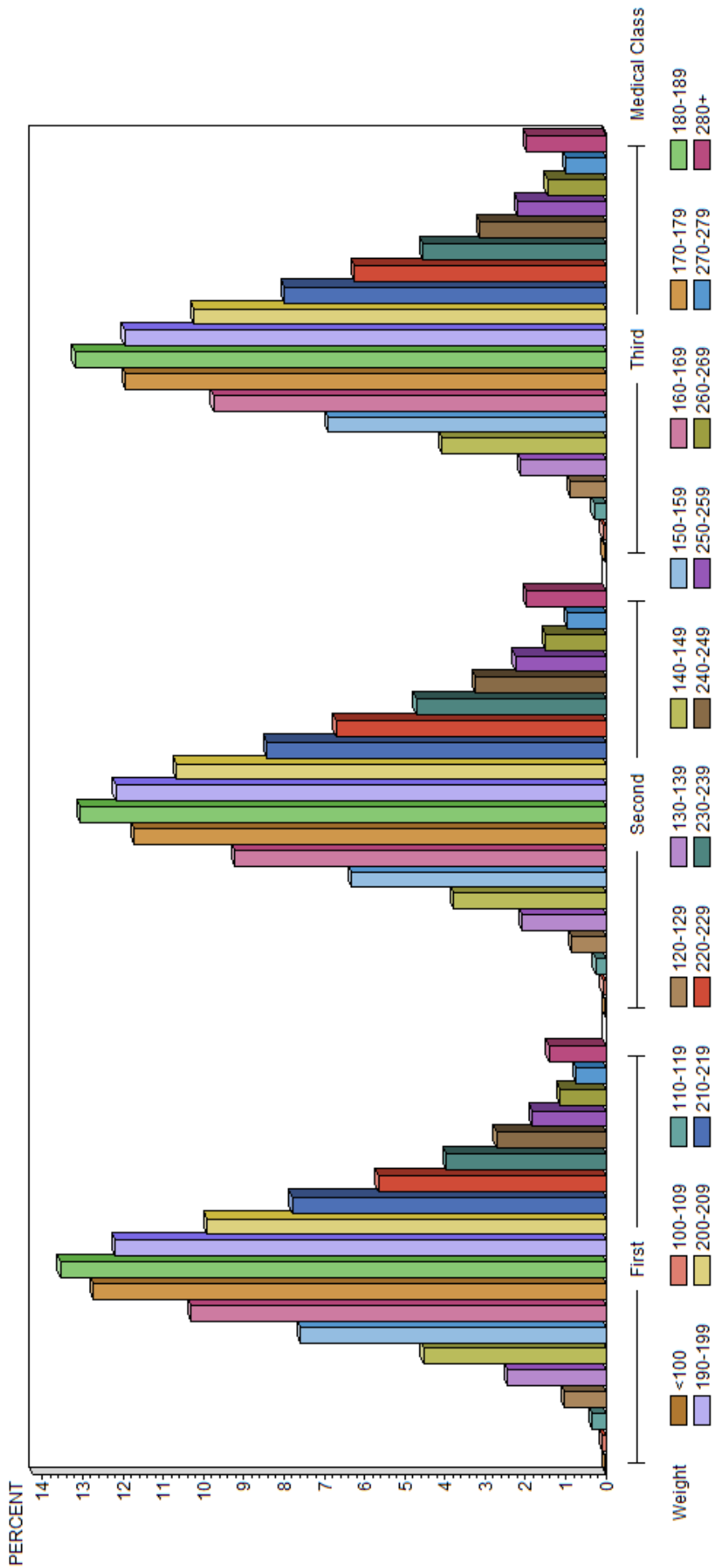


Figure 20. Weight (Pounds) by Issued Medical Class – Males only

Table 18. BMI of all Active Airmen by Gender and Issued Medical Class

Issued Medical Class*		Number of Airmen	Mean	Median	Standard Deviation
First	Females	11,236	23.7	22.8	4.3
	Males	184,972	26.8	26.4	4.2
Second	Females	6,827	24.5	23.4	4.9
	Males	110,917	27.5	27.0	4.5
Third	Females	18,366	24.1	23.2	4.5
	Males	233,414	27.4	26.8	4.5
All Classes	Females	36,429	24.1	23.1	4.5
	Males	529,303	27.2	26.7	4.4

*77 airmen missing BMI

Table 19. BMI Category by Issued Medical Class and Gender

BMI*	Issued Medical Class						Total Airmen	
	First		Second		Third		Total Airmen	
	Female	Male	Female	Male	Female	Male	Female	Male
Underweight	525	1,710	254	796	720	1,831	1,499	4,337
Normal	7,403	62,031	4,106	31,728	11,659	70,966	23,168	164,725
Overweight	2,380	85,537	1,617	51,004	4,173	105,158	8,170	241,699
Obese	928	35,694	850	27,389	1,814	55,459	3,592	118,542
Total	11,236	184,972	6,827	110,917	18,366	233,414	36,429	529,303

*77 airmen missing BMI and/or gender

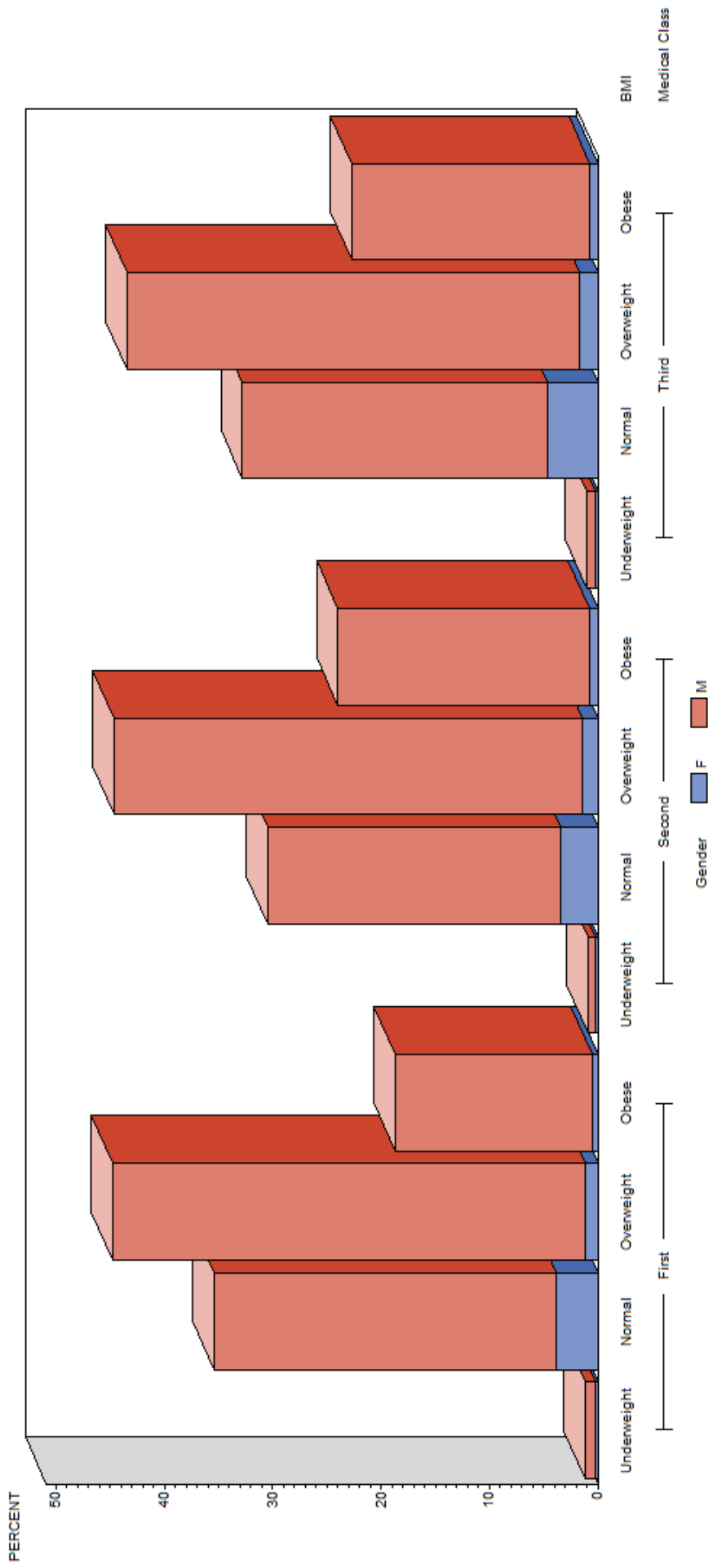


Figure 21. BMI by Gender and Issued Medical Class

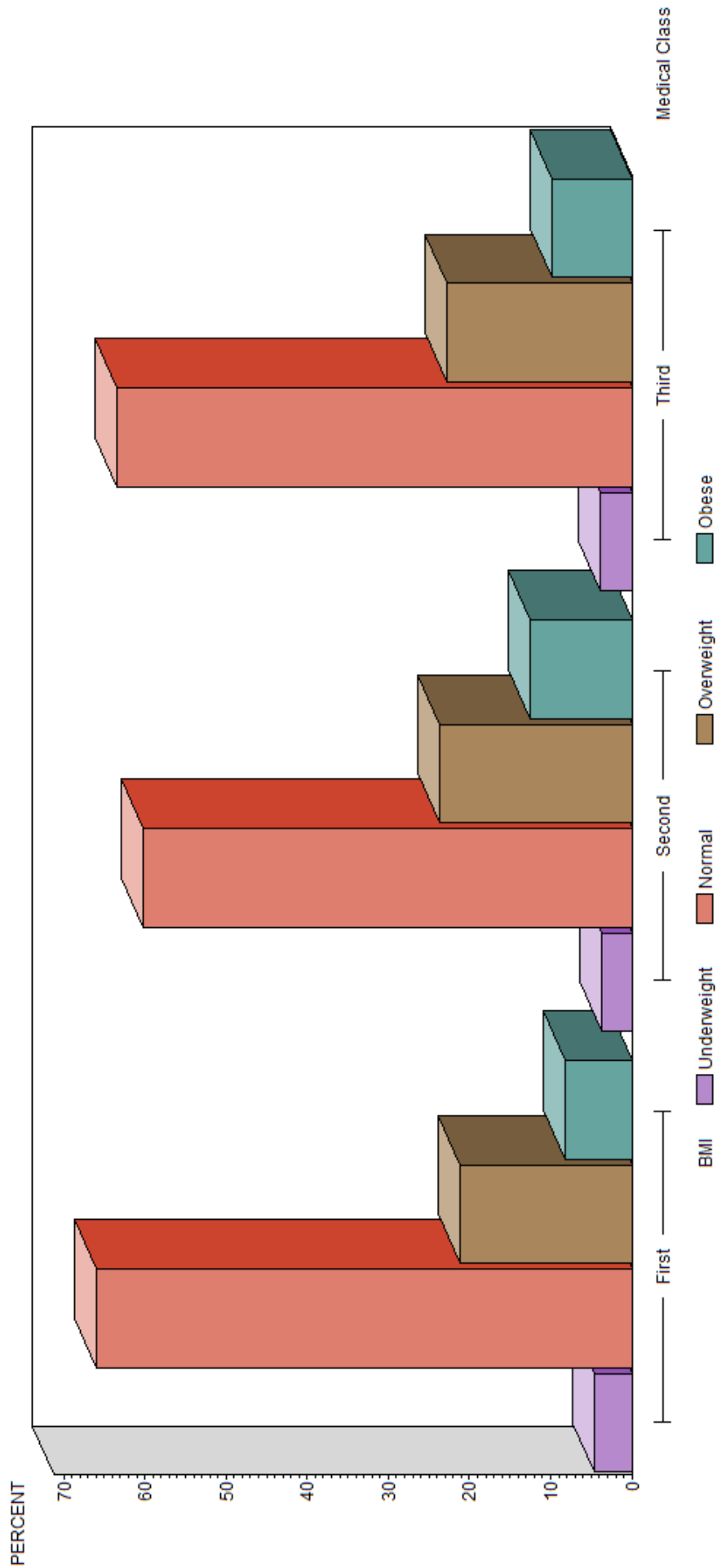


Figure 22. BMI by Issued Medical Class – Females only

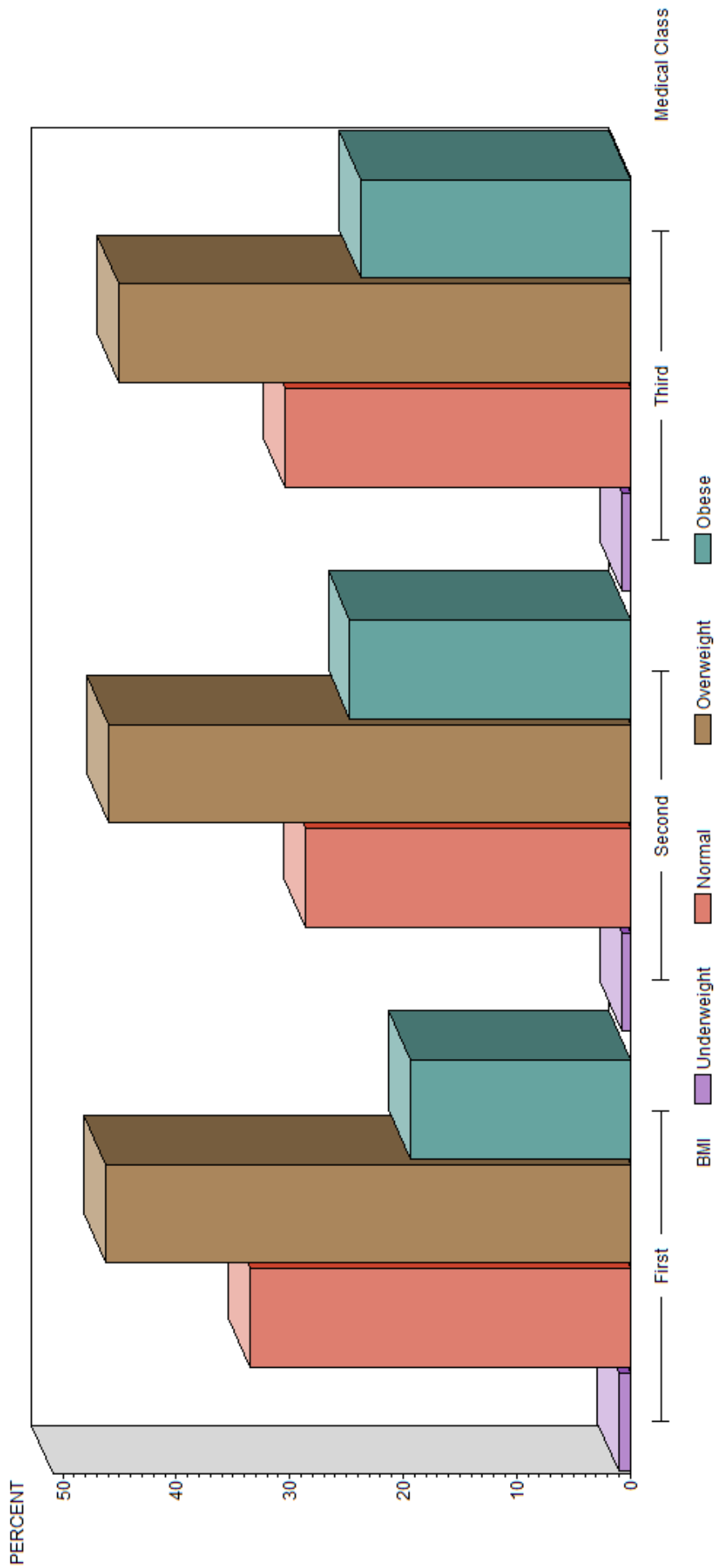


Figure 23. BMI by Issued Medical Class – Males only

Table 20. Special Issuance by Issued Medical Class, Gender, Age, and BMI

		Special Issuance	
		Yes (Percent)	No (Percent)
Class Issued	First	9,183 (4.68)	187,050 (95.32)
	Second	6,159 (5.23)	111,597 (94.77)
	Third	18,775 (7.46)	233,045 (92.54)
Gender	Female	982 (2.70)	35,455 (97.30)
	Male	33,135 (6.26)	496,237 (93.74)
Age at Exam	16-19	433 (1.14)	37,695 (98.86)
	20-24	557 (0.87)	63,144 (99.13)
	25-29	770 (1.35)	56,083 (98.65)
	30-34	1,006 (1.93)	51,147 (98.07)
	35-39	1,176 (2.35)	48,866 (97.65)
	40-44	1,598 (4.04)	37,908 (95.96)
	45-49	2,751 (5.33)	48,860 (94.67)
	50-54	4,292 (7.19)	55,424 (92.81)
	55-59	5,726 (10.01)	51,468 (89.99)
	60-64	5,597 (12.93)	37,680 (87.07)
	65+	10,211 (19.04)	43,417 (80.96)
BMI*	Underweight	122 (2.09)	5,714 (97.91)
	Normal	6,826 (3.63)	181,067 (96.37)
	Overweight	15,583 (6.24)	234,286 (93.76)
	Obese	11,584 (9.48)	110,550 (90.52)
Total		34,117 (6.03)	531,692 (93.97)

*77 airmen missing BMI

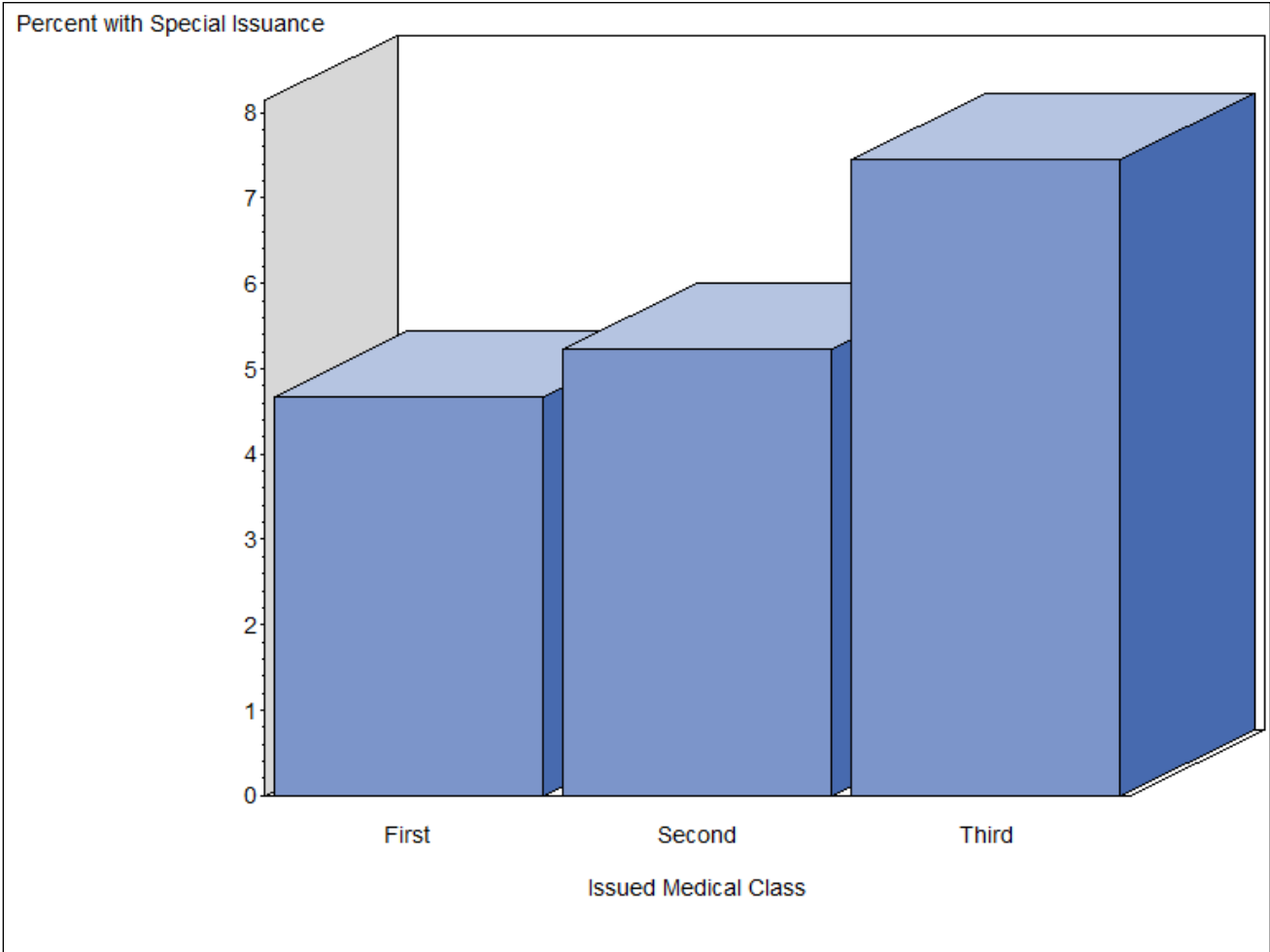


Figure 24. Special Issuance by Issued Medical Class

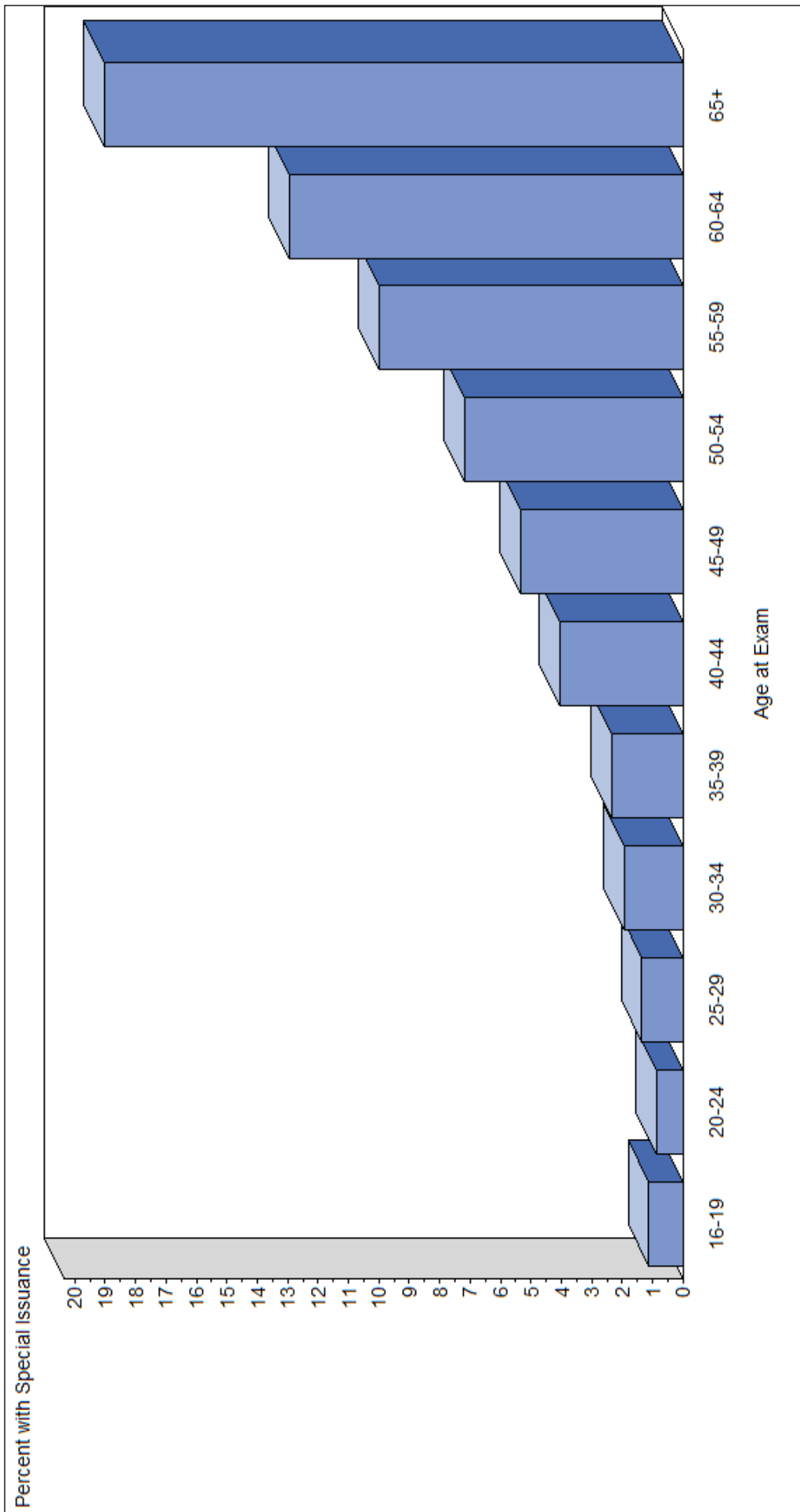


Figure 25. Special Issuance by Age Group at Time of Exam

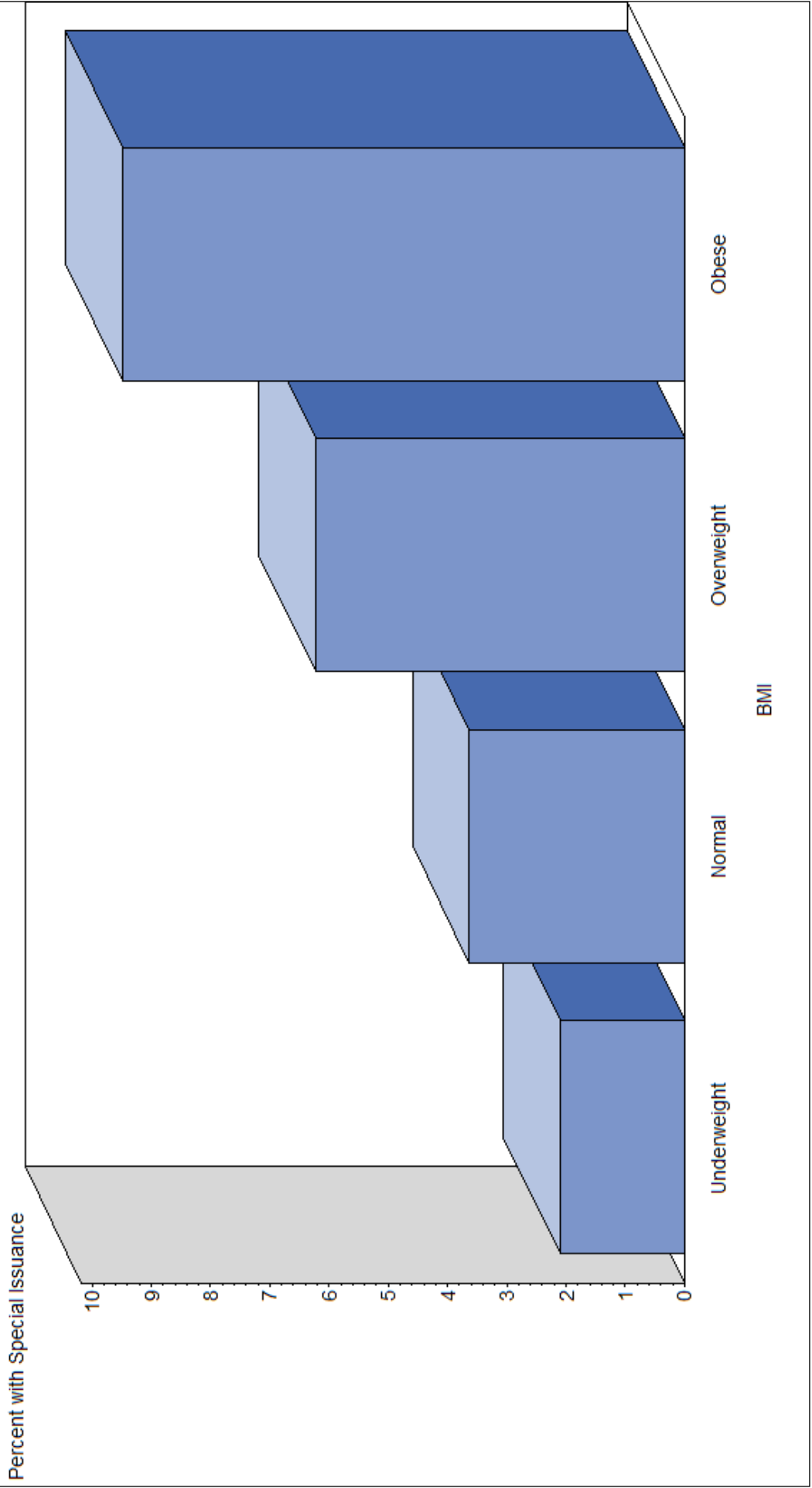


Figure 26. Special Issuance by BMI Category

Table 21. Top 15 Reported Medical Conditions

Pathology Description	Number	Percent
Hypertension with medication	59,858	10.58
Other miscellaneous allergic conditions*	36,526	6.46
Hernias – inguinal, femoral, umbilical, hiatal	27,977	4.94
Urolithiasis – stones or calculus of kidney, ureter, bladder	22,369	3.95
Other esophagus, stomach, and duodenal conditions – severe gastritis, esophageal reflux, achalasia, GERD, gastroplasty, dysphagia, dyspepsia, thrombus abdomen aorta [#]	21,229	3.75
Male genital system – prostatic, varicocele, hydrocele, transurethral resection of prostate (TURP), spermatocele, benign prostatic hypertrophy (BPH)	20,155	3.56
Other lower extremities conditions – operations, fractures, dislocation, knee replacement, knee reconstruction, ACL reconstruction [§]	15,470	2.73
Other skin conditions – includes acne, abnormal pigmentation, vitiligo, psoriasis, keratosis, neurofibroma, (basal cell carcinoma), adenoma, ganglio neuroma, fibroma, fibroadenoma, neuroma, Morton’s neuroma, hemangioma [‡]	15,219	2.69
Ruptured intervertebral disk, nucleus pulposus, spinal fusion, laminectomy and spinal stenosis, compression disc, other back surgeries	14,055	2.48
Hay fever	13,377	2.36
Asthma	11,640	2.06
Other general heart pathology (abnormal ECG, open heart surgery, etc.). Wolff-Parkinson-White syndrome, ablation, AV block, right bundle branch block, left bundle branch block [†]	10,997	1.94
Hypothyroidism, underactive thyroid, euthyroid, Hashimoto	10,336	1.83
Other intestinal conditions -- diverticulitis, polyposis, appendicitis, appendectomy, colon cancer, rectal cancer, appendix cancer, colon resection	9,533	1.68
Other shoulder conditions--operations, trauma, recurrent dislocations, frozen shoulder, rotator cuff surgery, etc.	9,418	1.66

* Excludes hay fever and asthma

[#] Excludes ulcers, gastrectomy, lapband staple bypass, gastric bypass, hernias, esophageal varices

[‡] Excludes dermatitis, pilonidal cyst, significant scarring, melanoma, squamous cell carcinoma

[§] Excludes deformity of toes, foot, or leg, diseases (synovitis, arthritis, bursitis, osteomyelitis, neoplasms, polymyalgia rheumatica, etc.), rheumatoid arthritis, unstable knee (locked knee, herniated meniscus, no patella)

[†] Excludes cardiomyopathy, pacemaker, cardiac stents, cardiac angioplasty

Table 22. Medical Conditions by Issued Medical Class

		Issued Medical Class			Total
		First	Second	Third	
Vision	Color vision deficiency*	1,551 (0.79)	1,589 (1.35)	5,576 (2.21)	8,716 (1.54)
	Monocular vision	286 (0.15)	351 (0.30)	1,200 (0.48)	1,837 (0.32)
Transplants	Lung transplant	1 (0.00)	0 (0.00)	4 (0.00)	5 (0.00)
	Heart transplant	0 (0.00)	1 (0.00)	1 (0.00)	2 (0.00)
	Liver transplant	6 (0.00)	9 (0.01)	29 (0.01)	44 (0.01)
	Kidney transplant	6 (0.00)	9 (0.01)	29 (0.01)	44 (0.01)
Cardiac	Myocardial infarction	639 (0.33)	352 (0.30)	1,928 (0.77)	2,919 (0.52)
	Coronary angioplasty with a stent	908 (0.46)	486 (0.41)	2,926 (1.16)	4,320 (0.76)
	Coronary angioplasty procedure	155 (0.08)	114 (0.10)	507 (0.20)	776 (0.14)
	Coronary artery bypass surgery	358 (0.18)	223 (0.19)	1,549 (0.62)	2,130 (0.38)
	Implanted pacemaker	85 (0.04)	71 (0.06)	363 (0.14)	519 (0.09)
	Aortic valve conditions*	610 (0.31)	379 (0.32)	1,299 (0.52)	2,288 (0.40)
	Mitral valve conditions#	840 (0.43)	483 (0.41)	1,668 (0.66)	2,991 (0.53)
	Hypertension with medication	14,968 (7.63)	11,932 (10.13)	32,958 (13.09)	59,858 (10.58)

Table 22 (Continued). Medical Conditions by Issued Medical Class

		Medical Class Issued			Total
		First	Second	Third	
Alcohol and Drugs	Alcohol abuse/dependence	2,184 (1.11)	991 (0.84)	1,626 (0.65)	4,801 (0.85)
	Drug abuse/dependence	859 (0.44)	513 (0.44)	748 (0.30)	2,120 (0.37)
	Alcohol/Drug case monitored	1,208 (0.62)	85 (0.07)	18 (0.01)	1,311 (0.23)
	Alcohol-related offense [‡]	10,589 (5.40)	6,851 (5.82)	12,221 (4.85)	29,661 (5.24)
	Drug-related offense/misuse [§]	659 (0.34)	575 (0.49)	937 (0.37)	2,171 (0.38)
Other conditions of interest	Sleep apnea	2,155 (1.10)	1,562 (1.33)	3,554 (1.41)	7,271 (1.29)
	Applied for SSRI use	139 (0.07)	99 (0.08)	373 (0.15)	611 (0.11)
	SSRI special issuance	70 (0.04)	21 (0.02)	96 (0.04)	187 (0.03)
	Diabetes [†]	1,285 (0.65)	1,403 (1.19)	4,463 (1.77)	7,151 (1.26)

[‡]Color vision deficiency at initial screening test

*Includes aortic valvular disease, aortic stenosis, aortic regurgitation, aortic insufficiency, bicuspid aortic valve, also replacement, ruptured aorta or lacerated, aortic bruit

#Includes mitral valve disease, mitral stenosis, mitral regurgitation, mitral insufficiency. Does not include valve replacement.

[‡]Includes DUI, DWI, public intoxication, wet/reckless, .04-.09 blood alcohol

[§]Includes drug offenses and positive drug test other than Drug Industry Program (Failed Drug Testing)

[†]Controlled by hypoglycemic drugs or insulin

