JTDB
JAPAN TRAUMA DATA BANK

Japan Trauma Data Bank Report 2014 (2009-2013)

Japan Trauma Care and Research

The Japanese Association for the Surgery of Trauma
(Trauma Registry Committee)
The Japanese Association for Acute Medicine
(Committee for Clinical Care Evaluation)

Figure 1A Names of All Hospitals Submitting Data to the JTDB (N=234, Part 1)

Teine Keijinkai Hospital
Hokkaido University Hospital
Hokuto Hospital
Hokkaido Medical Center
Sapporo City General Hospital
Nikko Memorial Hospital
Sapporo Medical University Hospital
Asahikawa Red Cross Hospital
Hirosaki University School of Medicine & Hospital
Aomori Prefectural Central Hospital
Hachinohe City Hospital
Iwate Medical University Hospital
Kuji Prefectural Hospital
Osaki Citizen Hospital
Tohoku University Hospital
Sendai City Hospital
Ishinomaki Red Cross Hospital
Sendai Medical Center
Akita Red Cross Hospital
Fukushima Medical University Hospital
Ohta Nishinouchi Hospital
Aizu Central Hospital
Niigata City General Hospital
Niigata University Medical & Dental Hospital
Ibaraki Seinan Medical Hospital
Mito Medical Center
University of Tsukuba Hospital
Tsukuba Medical Center Hospital
Ibaraki Prefectural Central Hospital
Dokkyo Medical University Hospital
Jichi Medical University Hospital
Saiseikai Utunomiya Hospital
Gunma University Hospital
Maebashi Red Cross Hospital
Takasaki General Medical Center
Ota Memorial Hospital
Saitama Red Cross Hospital
Saitama Medical University International Medical Center
Kuki General Hospital
Kawaguchi Municipal Medical Center
Dokkyo Medical University Koshigaya Hospital
National Defense Medical College Hospital
Saitama Medical University Medical Center
Funabashi Municipal Medical Center
Juntendo University Urayasu Hospital
Asahi Central Hospital
Nippon Medical School Chiba Hokusoh Hospital
Chiba University Hospital
Chiba Emergency Medical Center
Matsudo City Hospital
Kameda General Hospital
Kimitsu Chuou Hospital
Jikei University Kashiwa Hospital
Showa University Hospital
Tokyo Medical Center
Department of Social Medicine, School of Medicine, Nihon University
National Disaster Medical Center
Tokyo Metropolitan Hiroo Hospital
Musashino Red Cross Hospital
Nippon Medical School Tama Nagayama Hospital
Tokyo Medical University Hospital
Tokyo Medical University Hachioji Medical Center
Keio University Hospital
St. Luke's International Hospital
Teikyo University Hospital
Toho University Omori Medical Center
National Center for Global Health and Medicine
University of Tokyo Hospital
Showa General Hospital
Tokyo Women's Medical University Medical Center East
Nippon Medical School Hospital
Kyorin University Hospital
Surugadai Nihon University Hospital
Tokyo Women's Medical University Hospital
Ohme Municipal General Hospital
Nihon University Itabashi Hospital
Tokyo Medical and Dental University Hospital
Tokyo Metropolitan Bokutoh Hospital
Showa University Northern Yokohama Hospital
Yokohama Medical Center
Nippon Medical School Musashikosugi Hospital
Saiseikai Yokohama-city East Hospital
St. Marianna University School of Medicine Hospital
Shonan Kamakura General Hospital
Yokohama Municipal Citizens Hospital
Odawara Municipal Hospital
Yokosuka Kyosai Hospital
Hiratsuka City Hospital
Fujisawa City Hospital
Kanto Rosai Hospital
Yokohama Rosai Hospital
Yokohama City University Medical Center
Tokai University Hospital
Showa University Fujigaoka Hospital
Kitasato University Hospital
Yokosuka General Hospital Uwamachi
Yokohama City Minato Red Cross Hospital
Yokohama Sakae Kyosai Hospital
Niigata University Medical & Dental Hospital
Niigata City General Hospital
Kouseiren Takaoaka Hospital
Tonami General Hospital
Toyama Prefectural Central Hospital
Toyama University Hospital
Kanazawa University Hospital
Fukui Prefectural Hospital
Yamanashi Prefectural Central Hospital
Aizawa Hospital
Suwa Red Cross Hospital
Iida Municipal Hospital
Ina Central Hospital
Saku Central Hospital
Shinshu University Hospital
Nagano Red Cross Hospital

Figure 1B Names of All Hospitals Submitting Data to the JTDB (N=234, Part 2)

Takayama Red Cross Hospital
Ogaki Municipal Hospital
Gero City Kanayama Hospital
Chuno Kosei Hospital
Gifu University Hospital
Numazu City Hospital
Shizuoka Red Cross Hospital
Shizuoka Children's Hospital
Shizuoka Saiseikai General Hospital
Juntendo University Shizuoka Hospital
Seirei Mikatahara General Hospital
Shizuoka General Hospital
Shizuoka Tokushukai Hospital
Toyohashi Municipal Hospital
Daiyukai General Hospital
Fujita Health University Hospital
Nagoya City University Hospital
Handa City Hospital
Aichi Medical University Hospital
Nagoya Ekisaikai Hospital
Social Insurance Chukyo Hospital
Okazaki City Hospital
Mie University Hospital
Omihachiman Community Medical Center
Saiseikai Shigaken Hospital
Kyoto Daini Red Cross Hospital
Kyoto Medical Center
Rakuwakai Otowa Hospital
Fukuchiyama City Hospital
Kyoto Daiichi Red Cross Hospital
Uji-Tokushukai Medical Center
Kyoto Prefectural University of Medicine
Osaka Prefectural Senshu Critical Medical Care Center
Saiseikai Senri Hospital
Osaka General Medical Center
Hanwa Memorial Hospital
Osaka Medical Center
Nakakawachi Medical Center of Acute Medicine
Osaka Mishima Emergency Medical Center
Kinki University Hospital
Kishiwada Tokushukai Hospital
Osaka University Hospital
Osaka City General Hospital
Kansai Medical University Takii Hospital
Osaka City University Hospital
Kansai Medical University Hirakata Hospital
Hyogo Prefectural Nishinomiya Hospital
Hyogo Prefectural Kakogawa Medical Center
Hyogo Prefectural Awaji Hospital
Hospital of Hyogo College of Medicine
Kobe City Medical Center General Hospital
Kobe University Hospital
Hyogo Emergency Medical Center
Toyooka Hospital Tajima Emergency & Critical Care Medical Center
Public Muraoka Hospital
Kansai Rosai Hospital
Steel Memorial Hirohata Hospital Himeji Emergency, Trauma and Critical Center
Nara Prefectural Nara Hospital
Nara Medical University Hospital
Wakayama Medical University Hospital
Tottori University Hospital
Tsuyama Chuo Hospital
Kawasaki Medical School Hospital
Kurashiki Central Hospital
Okayama University Hospital
Hiroshima University Hospital
Kure Medical Center
Fukuyama City Hospital
Hiroshima Prefectural Hospital
Chugoku Rosai Hospital
Kanmon Medical Center
Tokuyama Central Hospital
Yamaguchi Grand Medical Center
Yamaguchi University Hospital
Tokushima Prefectural Kaifu Hospital
Tokushima Prefectural Central Hospital
Tokushima Prefectural Miyoshi Hospital
Taoka Hospital
Kagawa University Hospital
Kagawa Prefectural Central Hospital
Ehime Prefectural Central Hospital
Ehime University Hospital
Kochi Medical Center
Chikamori Hospital
Kochi Red Cross Hospital
Kurume University Hospital
Iizuka Hospital
Ohtemachi Hospital
Kitakyushu Municipal Yahata Hospital
Kyushu University Hospital
Kitakyushu General Hospital
Kokura Memorial Hospital
Fukuoka Wajiro Hospital
Fukuoka Red Cross Hospital
Fukuoka Higashi Medical Center
Saiseikai Fukuoka General Hospital
Fukuoka University Hospital
St. Maria's Hospital
Saga University Hospital
Saga Prefectural Hospital Koseikan
Ureshino Medical Center
Nagasaki University Hospital
Nagasaki Medical Center
Arao Municipal Hospital
Kumamoto Red Cross Hospital
Kumamoto Medical Center
Saiseikai Kumamoto Hospital
Oita University Hospital
Almeida Memorial Hospital
Miyazaki Prefectural Miyazaki Hospital
Miyazaki University Hospital
Miyazaki Zenjinkai Hospital
Miyakonojo Regional Medical Center
Osumikanoya Hospital
Kagoshima City Hospital
Okinawa Prefectural Chubu Hospital
Okinawa Prefectural Hokubu Hospital
Ryukyu University Hospital
Urasoe General Hospital
Nakagami Hospital

Figure 2

Number of Hospitals Submitting to the JTDB by Region

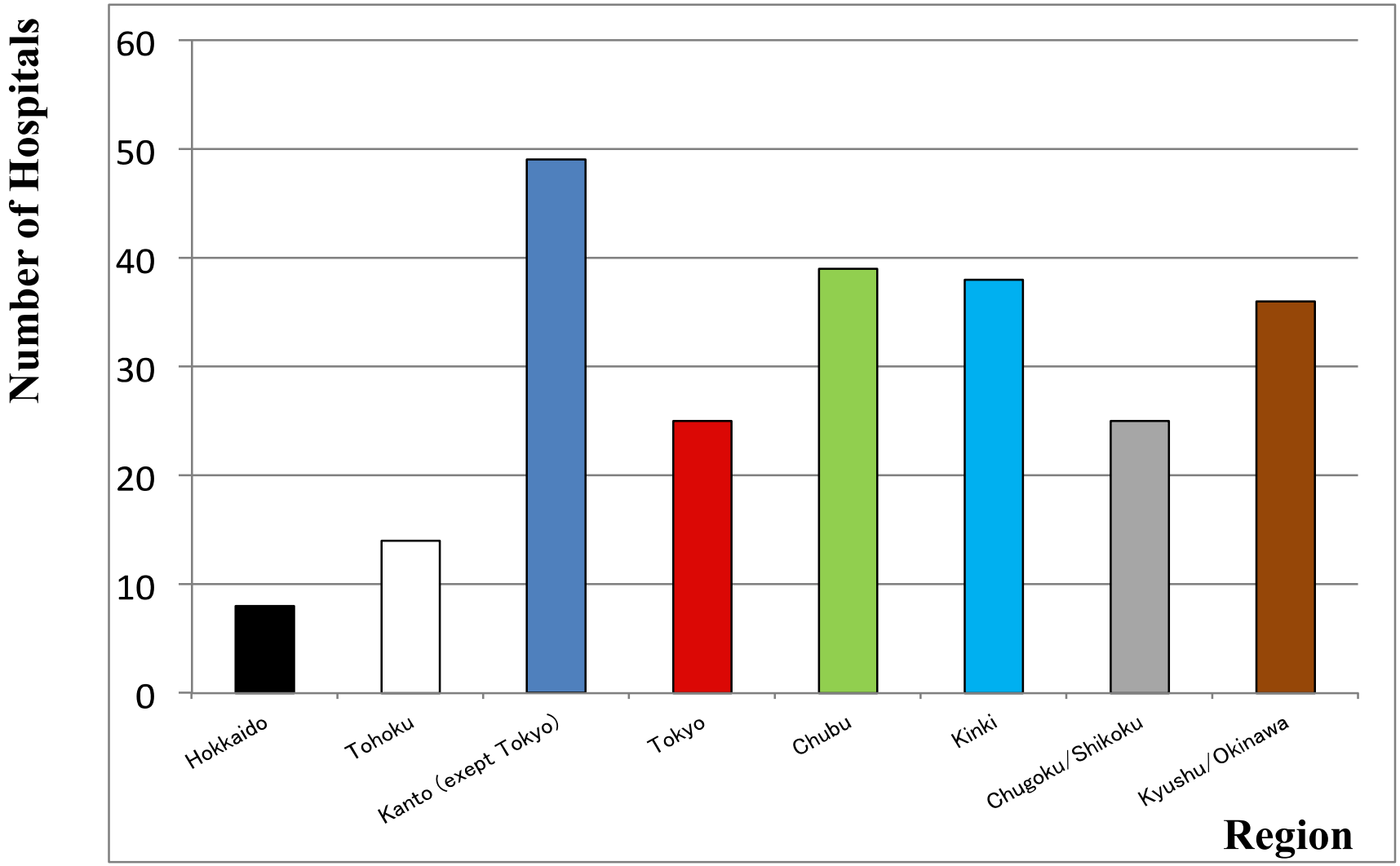


Figure 3

Number of Patients by Age

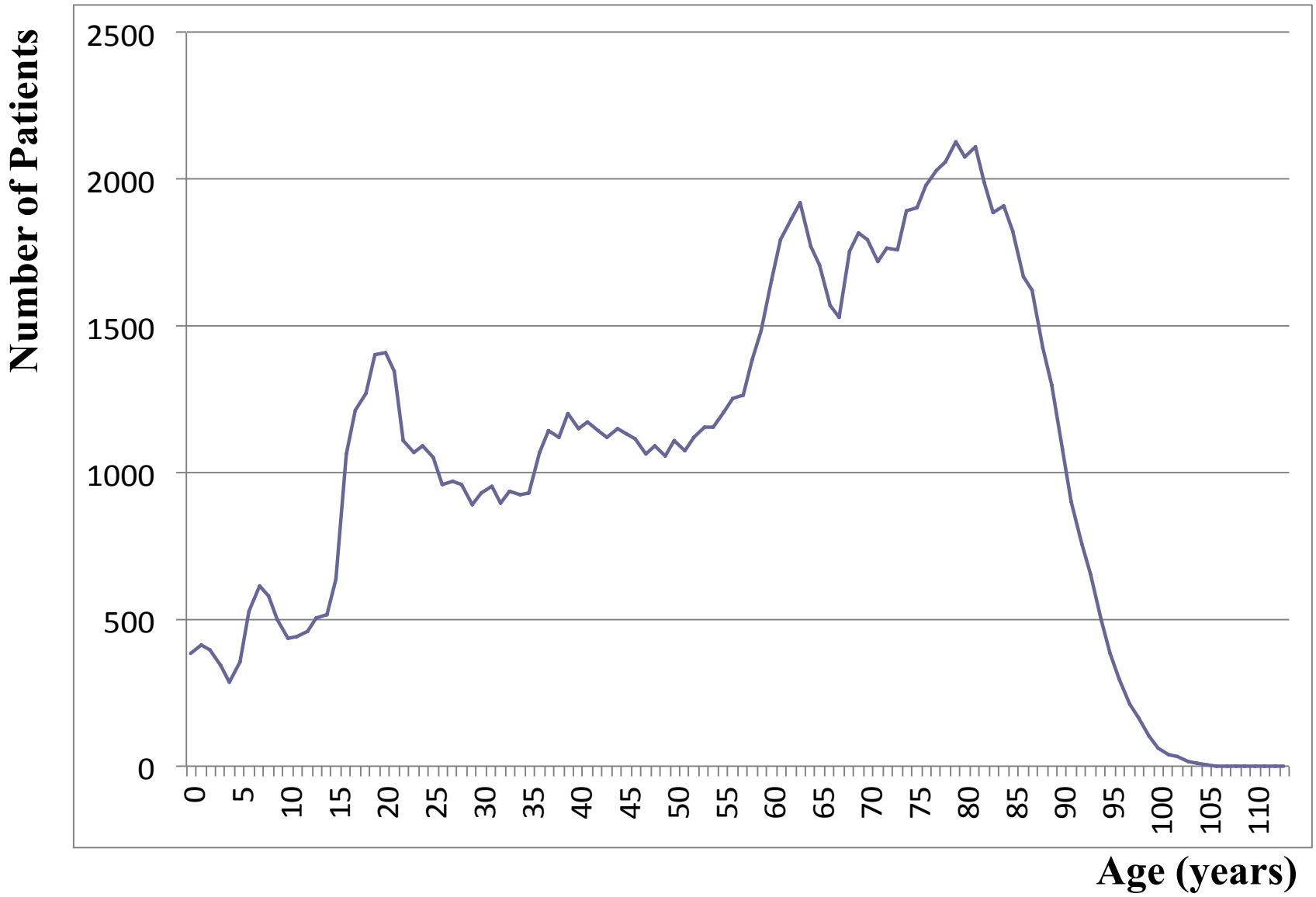


Figure 4

Patients by Age and Gender

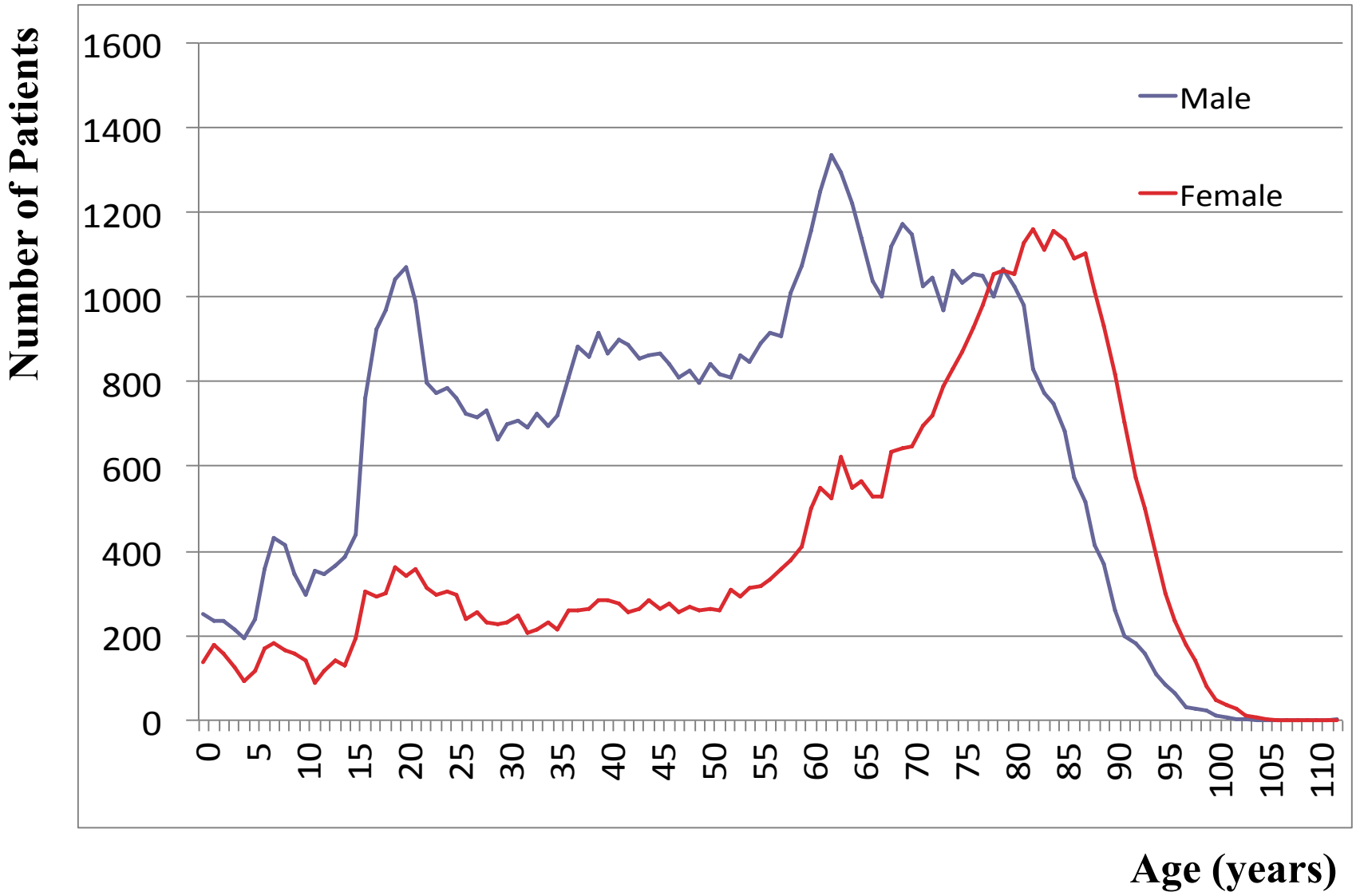


Figure 5

Patients by mechanism of injury

Motor vehicle traffic includes pedal cyclist and pedestrian victims.

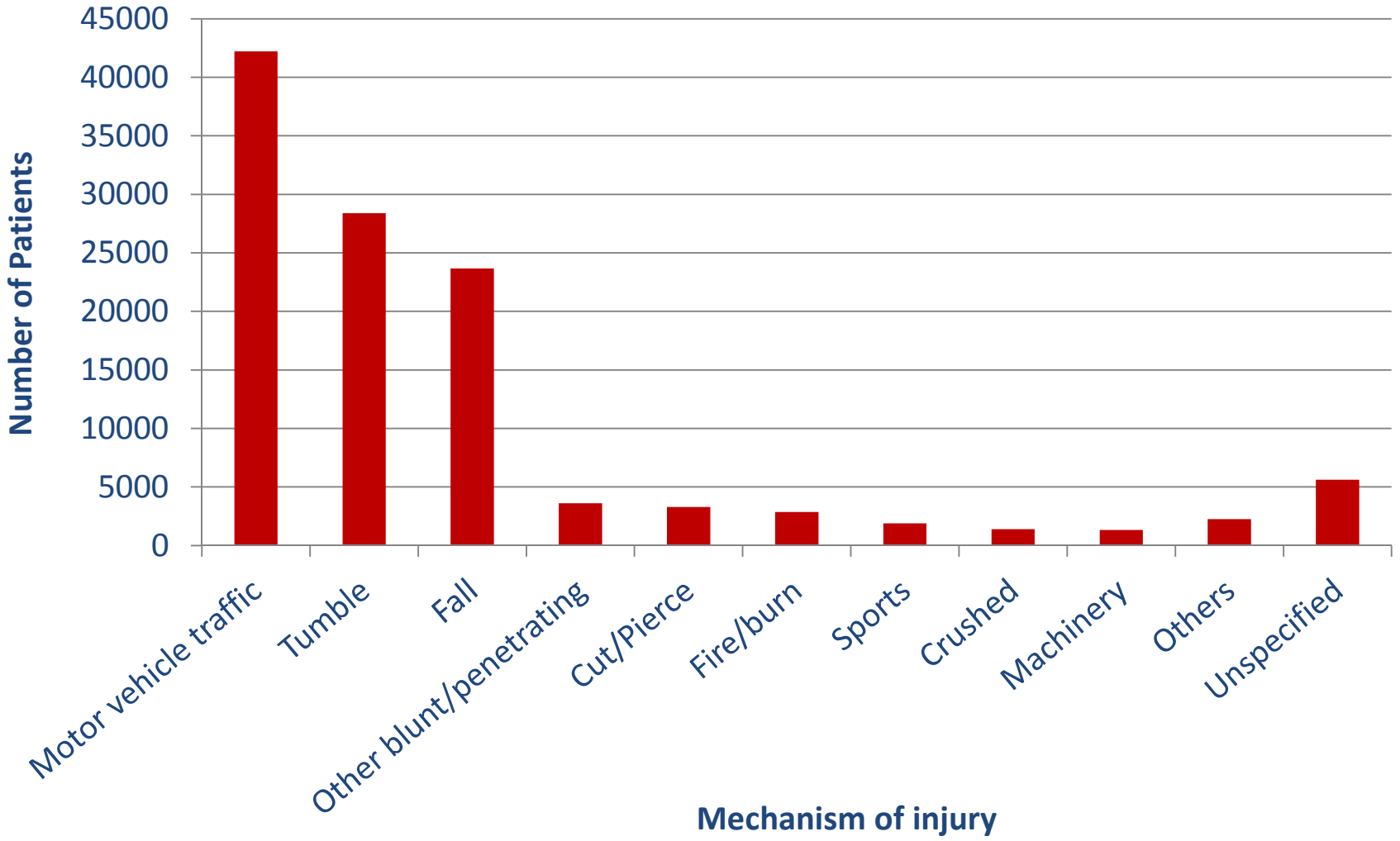


Table 5

Patients by mechanism of injury

Mechanism of injury	Patients (n)	Patients by mechanism of injury
Motor vehicle traffic	42207	36.24 %
Tumble	28381	24.37 %
Fall	23669	20.32 %
Other blunt/penetrating	3614	3.10 %
Cut/Pierce	3280	2.82 %
Fire/burn	2860	2.46 %
Sports	1881	7.95 %
Crushed	1395	1.20 %
Machinery	1325	1.14 %
Transport, others	1052	0.90 %
Falling objects	847	0.73 %
Explosion	212	0.18 %
Stake	98	0.08 %
Firearm	36	0.03 %
Unspecified	5609	4.82 %
Total	116466	100.00 %

Figure 6

Mechanism of injury by age

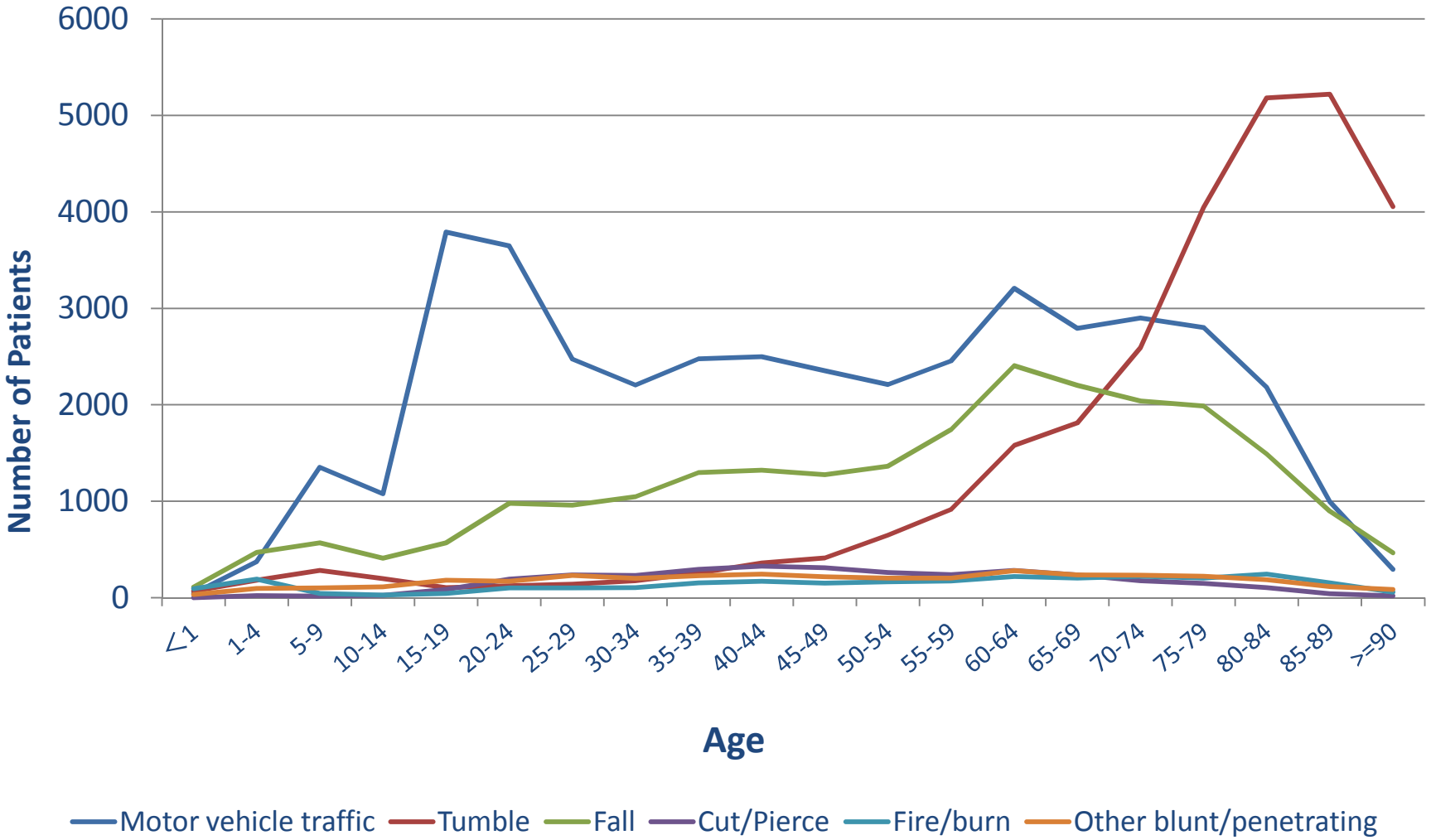


Table 6

Mechanism of injury by range of age

Range of Age (yr)	Motor vehicle traffic(n)	% of total range of age (%)	Fall (n)	% of total range of age (%)	Tumble (n)	% of total range of age (%)	Cut/Pierce (n)	% of total range of age (%)	Fire/Burn (n)	% of total range of age (%)	Other blunt /penetrating (n)	% of total range of age (%)
<1	45	0.11	69	0.24	112	0.47	2	0.06	95	3.32	34	0.94
1-4	376	0.89	182	0.64	471	1.99	23	0.70	192	6.71	97	2.68
5-9	1352	3.20	285	1.00	570	2.41	18	0.55	44	1.54	104	2.88
10-14	1077	2.55	198	0.70	410	1.73	26	0.79	29	1.01	115	3.18
15-19	3791	8.98	105	0.37	569	2.40	85	2.59	46	1.61	181	5.01
20-24	3646	8.64	124	0.44	979	4.14	193	5.88	102	3.57	170	4.70
25-29	2474	5.86	141	0.50	960	4.06	237	7.23	104	3.64	233	6.45
30-34	2206	5.23	178	0.63	1049	4.43	231	7.04	105	3.67	201	5.56
35-39	2476	5.87	256	0.90	1299	5.49	294	8.96	156	5.45	230	6.36
40-44	2498	5.92	360	1.27	1323	5.59	329	10.03	170	5.94	245	6.78
45-49	2354	5.58	413	1.46	1277	5.40	311	9.48	153	5.35	219	6.06
50-54	2209	5.23	650	2.29	1364	5.76	262	7.99	167	5.84	205	5.67
55-59	2454	5.81	916	3.23	1743	7.36	241	7.35	173	6.05	203	5.62
60-64	3207	7.60	1577	5.56	2404	10.16	285	8.69	220	7.69	281	7.78
65-69	2792	6.62	1811	6.38	2203	9.31	237	7.23	205	7.17	238	6.59
70-74	2901	6.87	2592	9.13	2041	8.62	176	5.37	224	7.83	234	6.47
75-79	2802	6.64	4047	14.26	1987	8.39	150	4.57	205	7.17	224	6.20
80-84	2179	5.16	5181	18.26	1489	6.29	106	3.23	245	8.57	189	5.23
85-89	997	2.36	5220	18.39	896	3.79	41	1.25	154	5.38	117	3.24
>=90	296	0.70	4054	14.28	465	1.96	20	0.61	59	2.06	85	2.35
Unspecified	75	0.18	22	0.08	58	0.25	13	0.40	12	0.42	9	0.25
Total	42207	100	28381	100	23669	100	3280	100	2860	100	3614	100

Figure 7

Deaths by mechanism of injury

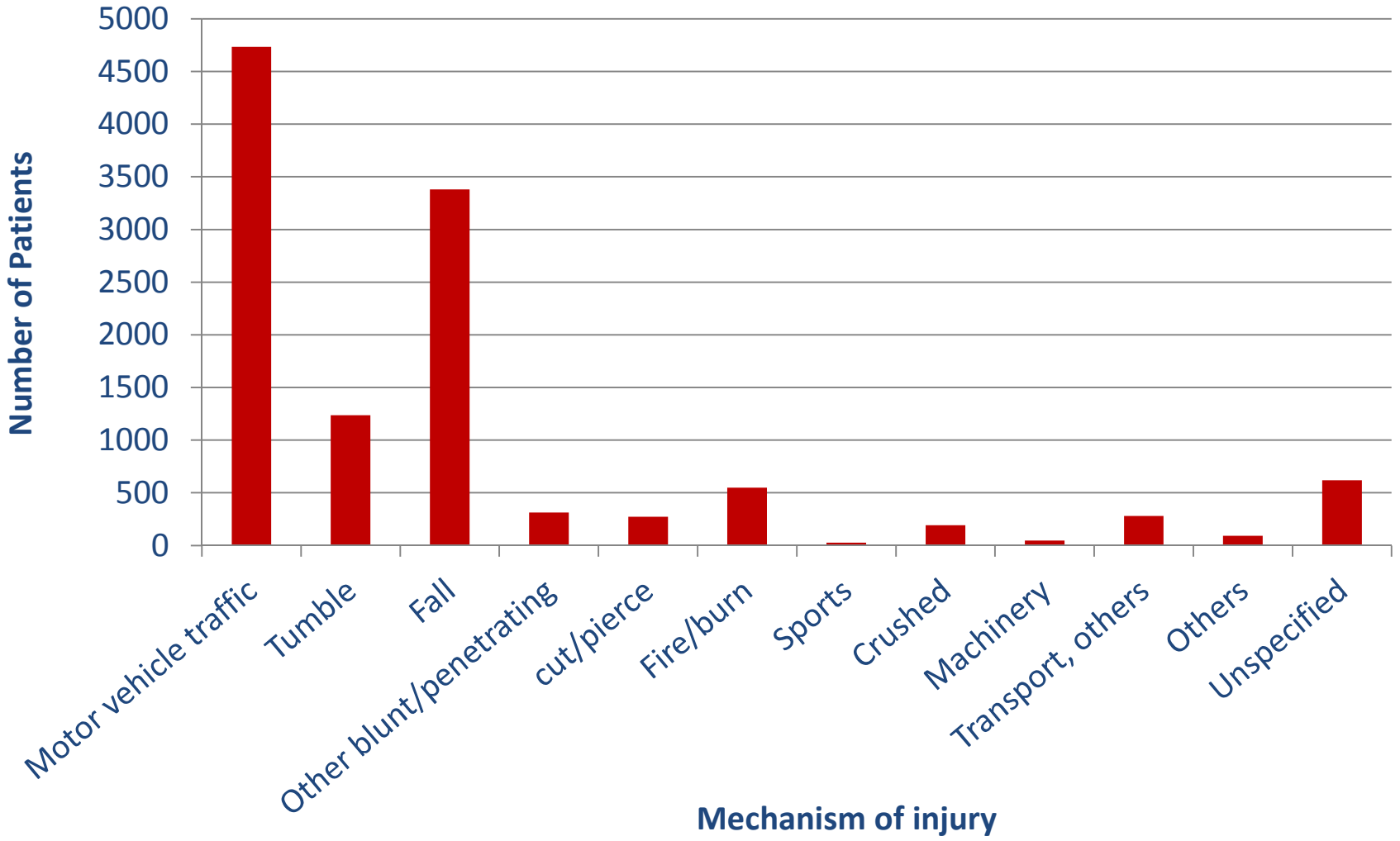
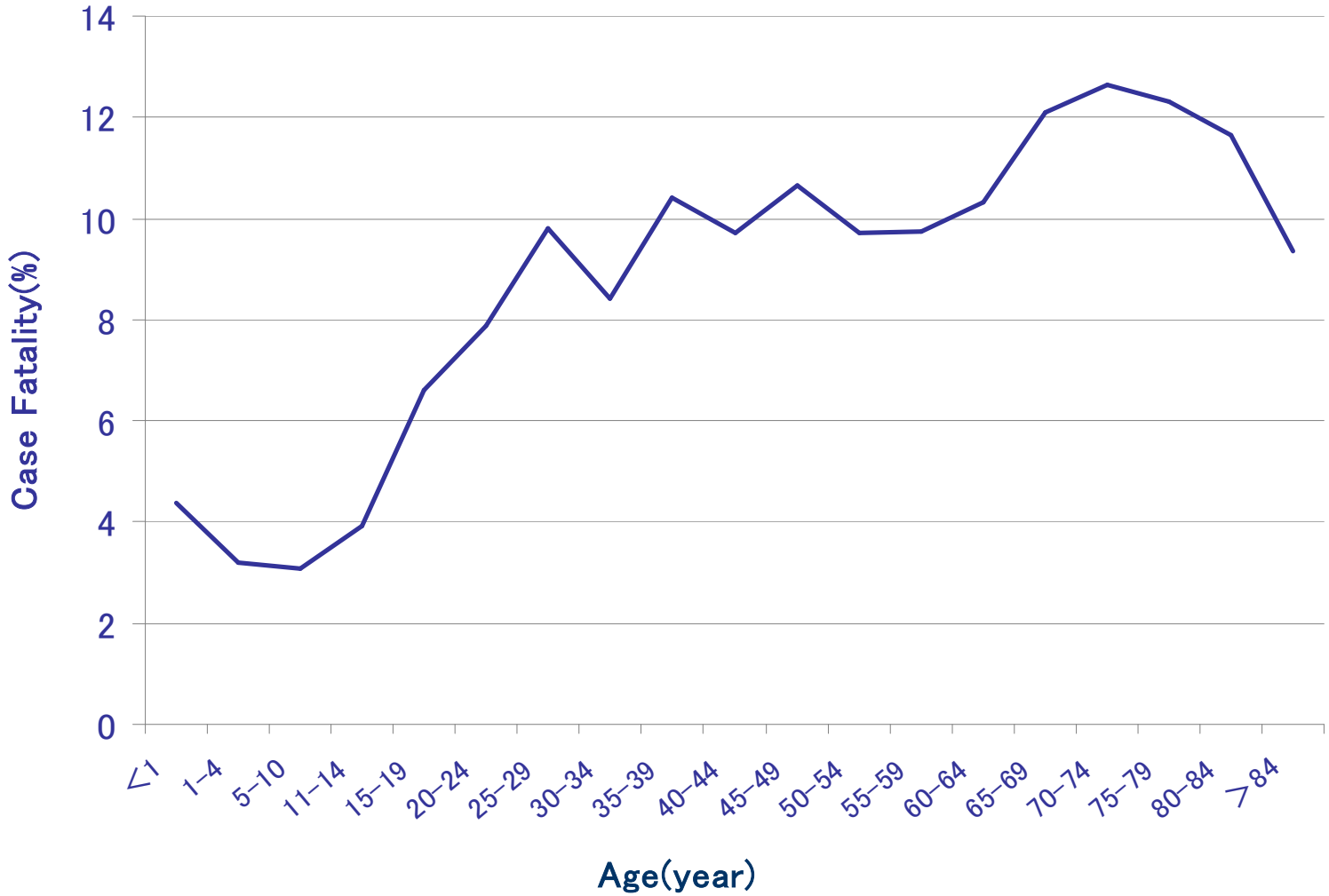


Figure 8

Case Fatality by age



Case fatality at each age category (Case Fatality=number of deaths divided by the number of patients at each category x 100 by age)

Figure 9

Case Fatality by age and Gender

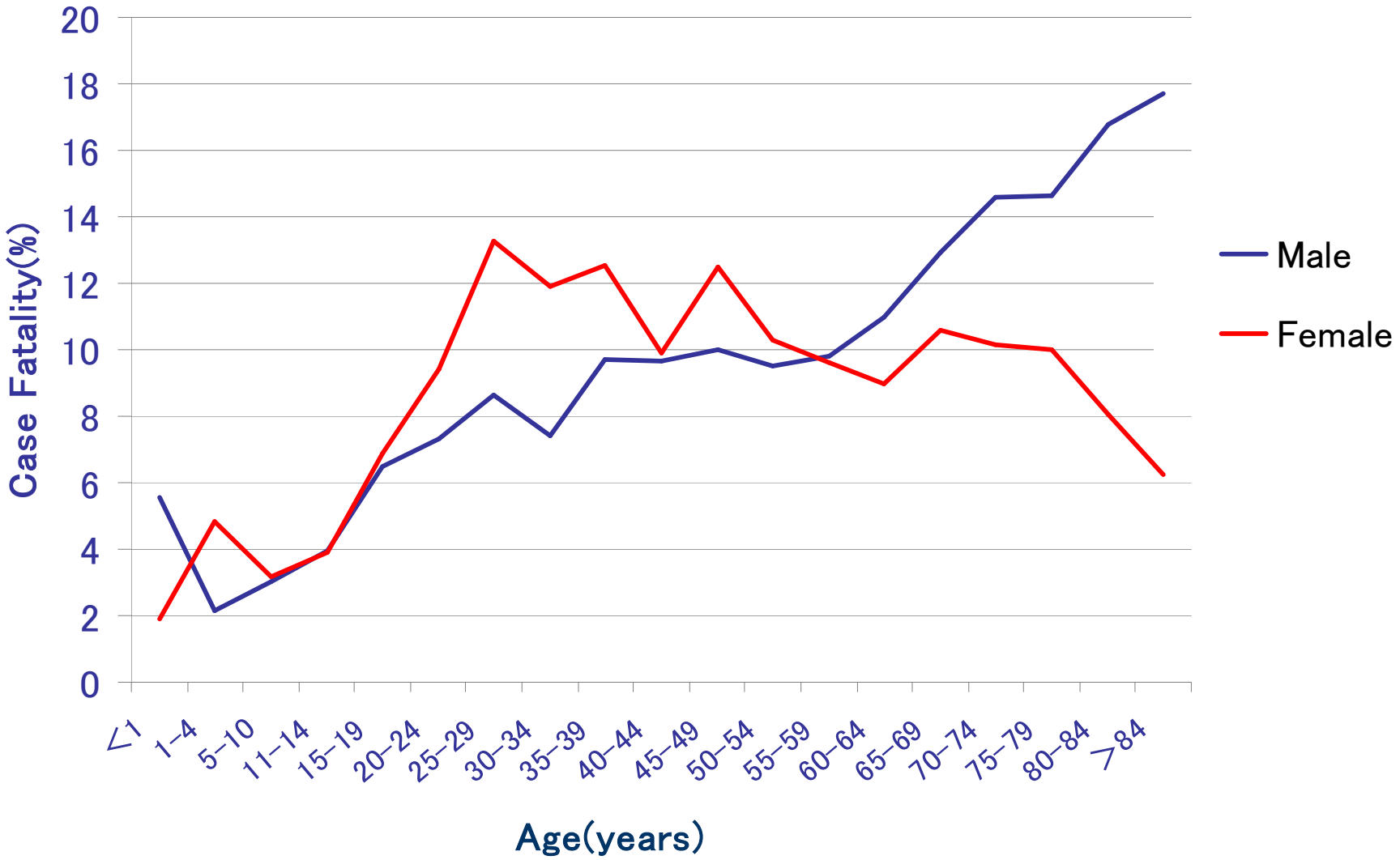


Figure 10

Case Fatality by Age

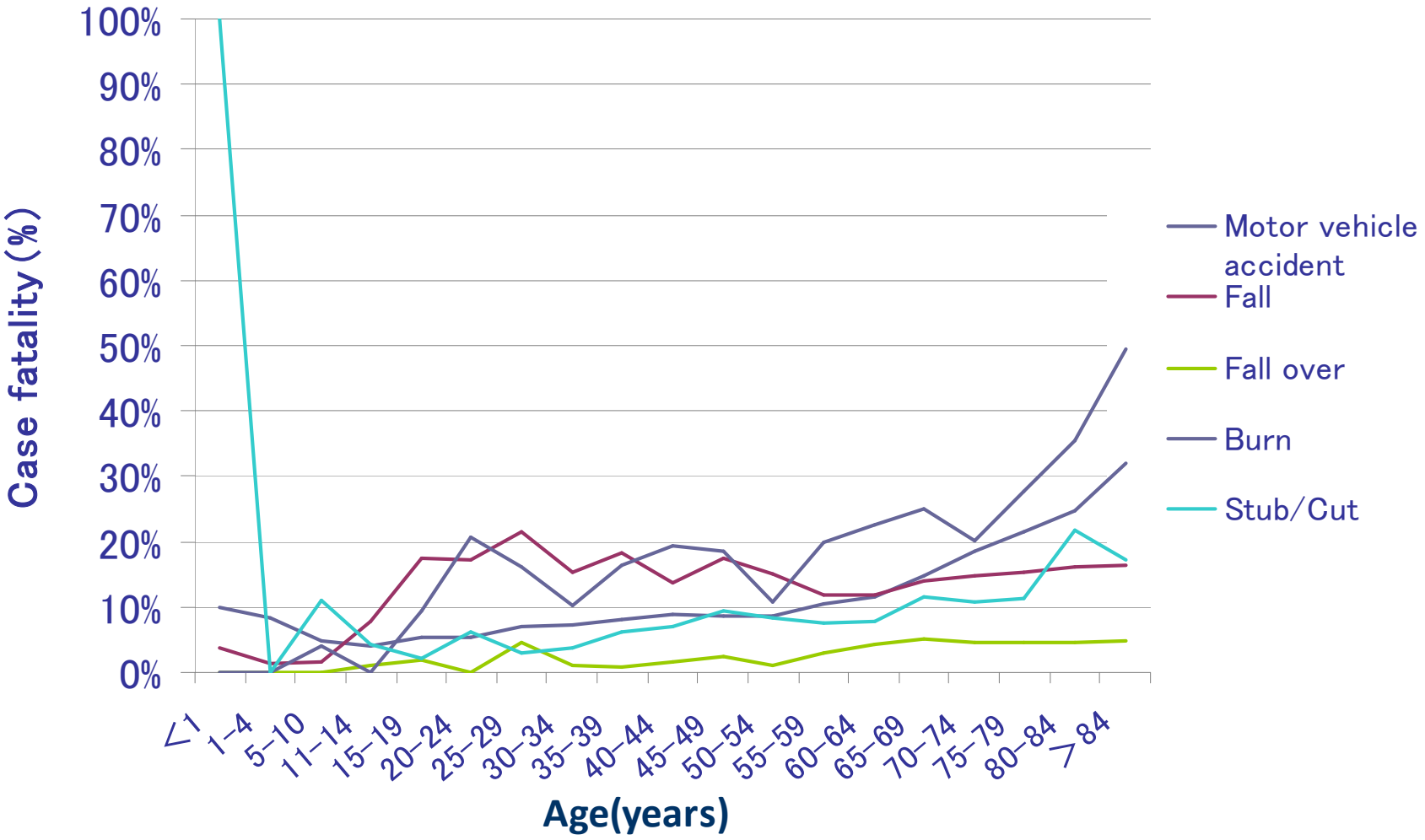
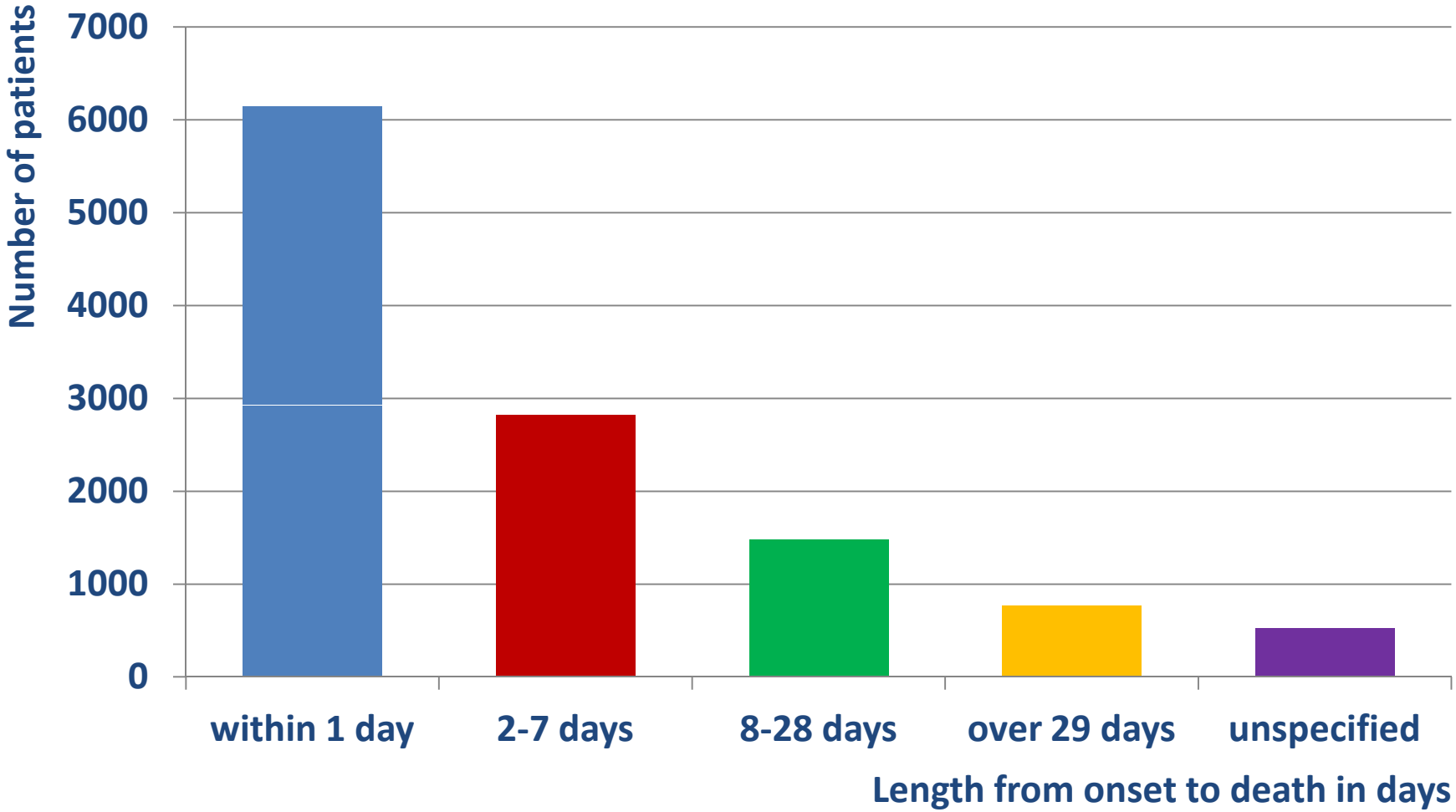


Figure 11A

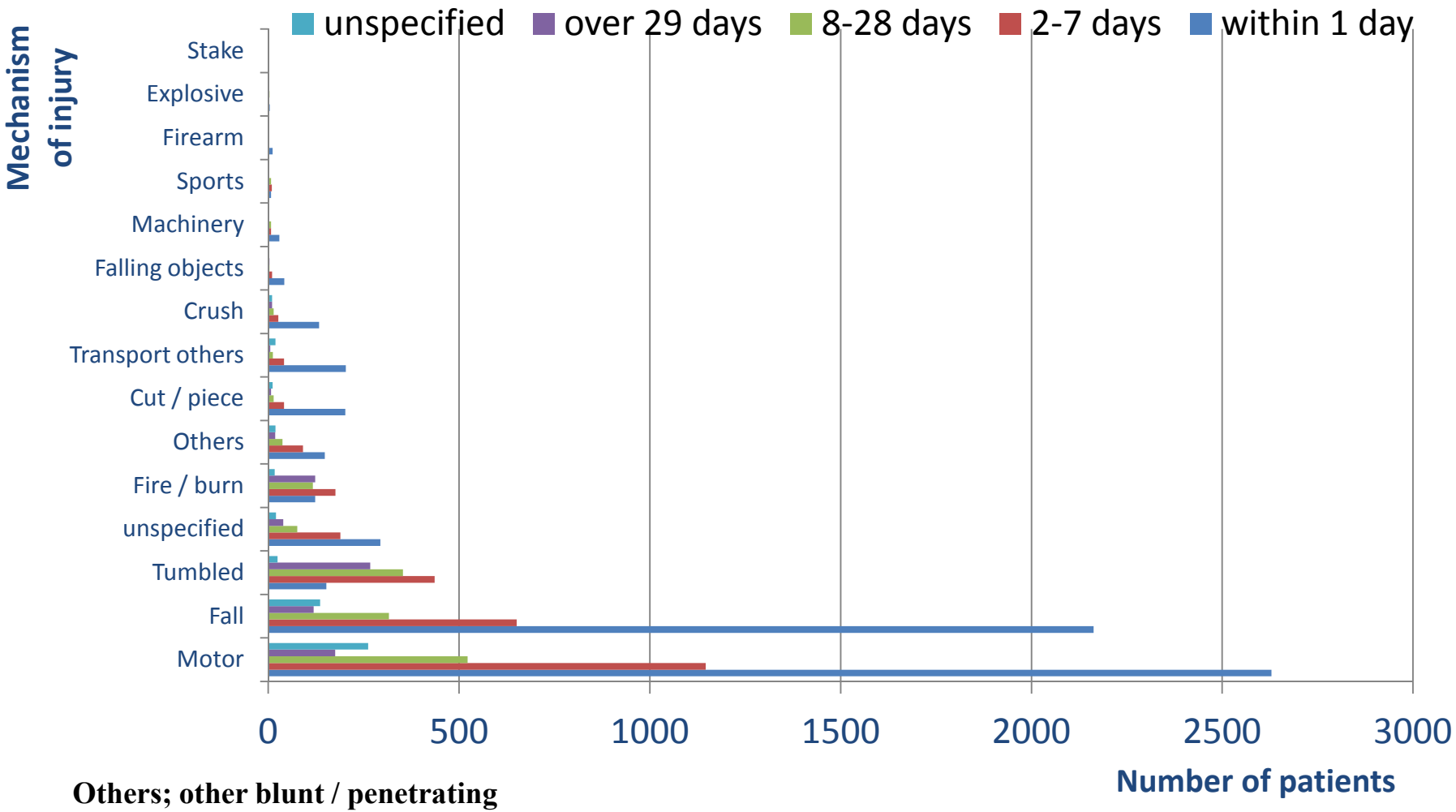
Proportional distribution of length from onset to facility N = 11,745



The category within 1 day after onset includes CPAOA patients.

Figure 11B

Proportional distribution of length from onset to fatality, grouped by mechanism of injury N = 11,745



Others; other blunt / penetrating
Motor; Motor vehicle traffic includes pedal cyclist and pedestrian victims.

Table 11B

Proportional distribution of length from onset to fatality, grouped by mechanism of injury N = 11,745

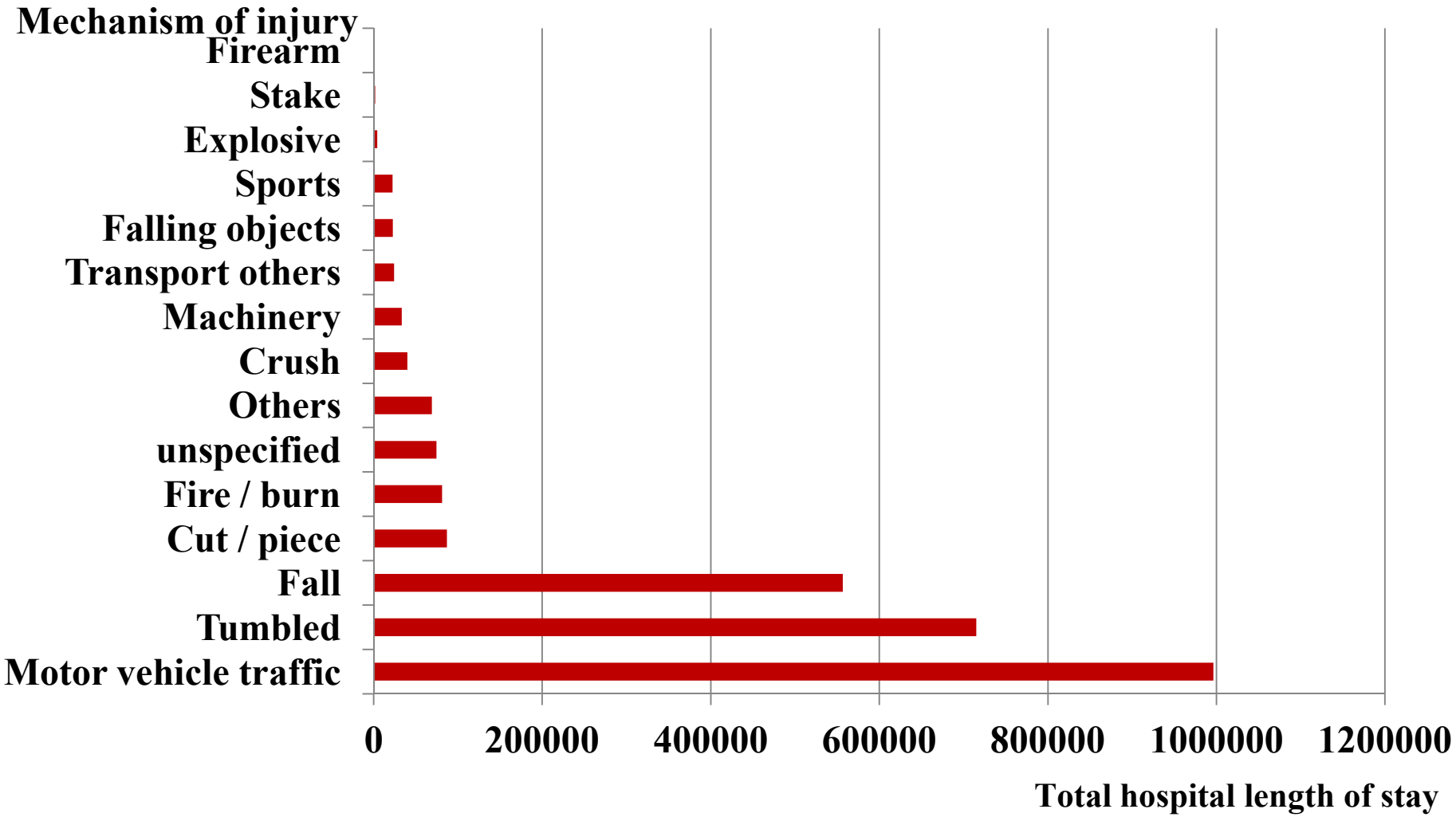
Mechanism / Length of hospital days	Motor vehicle traffic	Fall	Tumbled	unspecified	Fire / burn	Other blunt/penetrating	Transport others	Cut / piece
within 1 day	2629	2163	152	294	123	148	203	202
2 - 7 days	1146	651	436	189	176	91	41	41
8 – 28 days	522	316	353	76	117	37	12	14
over 29 days	175	119	267	39	123	18	5	7
unspecified	262	136	24	20	17	19	19	11
Total	4734	3385	1232	618	556	313	280	275

Motor vehicle traffic includes pedal cyclist and pedestrian victims.

Mechanism / Length of hospital days	重要物による狭圧	落下物・飛来物	機械による外傷	スポーツ中の事故	銃創	爆発	刺創（刺抗創）	Total
within 1 day	133	42	29	7	11	4	1	6141
2 - 7 days	26	10	7	9	2	1	1	2827
8 – 28 days	14	3	7	7	0	3	0	1481
over 29 days	10	3	2	2	0	2	0	772
unspecified	10	1	2	1	1	0	1	524
Total	193	59	47	26	14	10	3	11745

Figure 12

Total hospital length of stay by mechanism of Injury N = 104,098



Total hospital length of stay of patients are 2,729,053 days.

Table 12

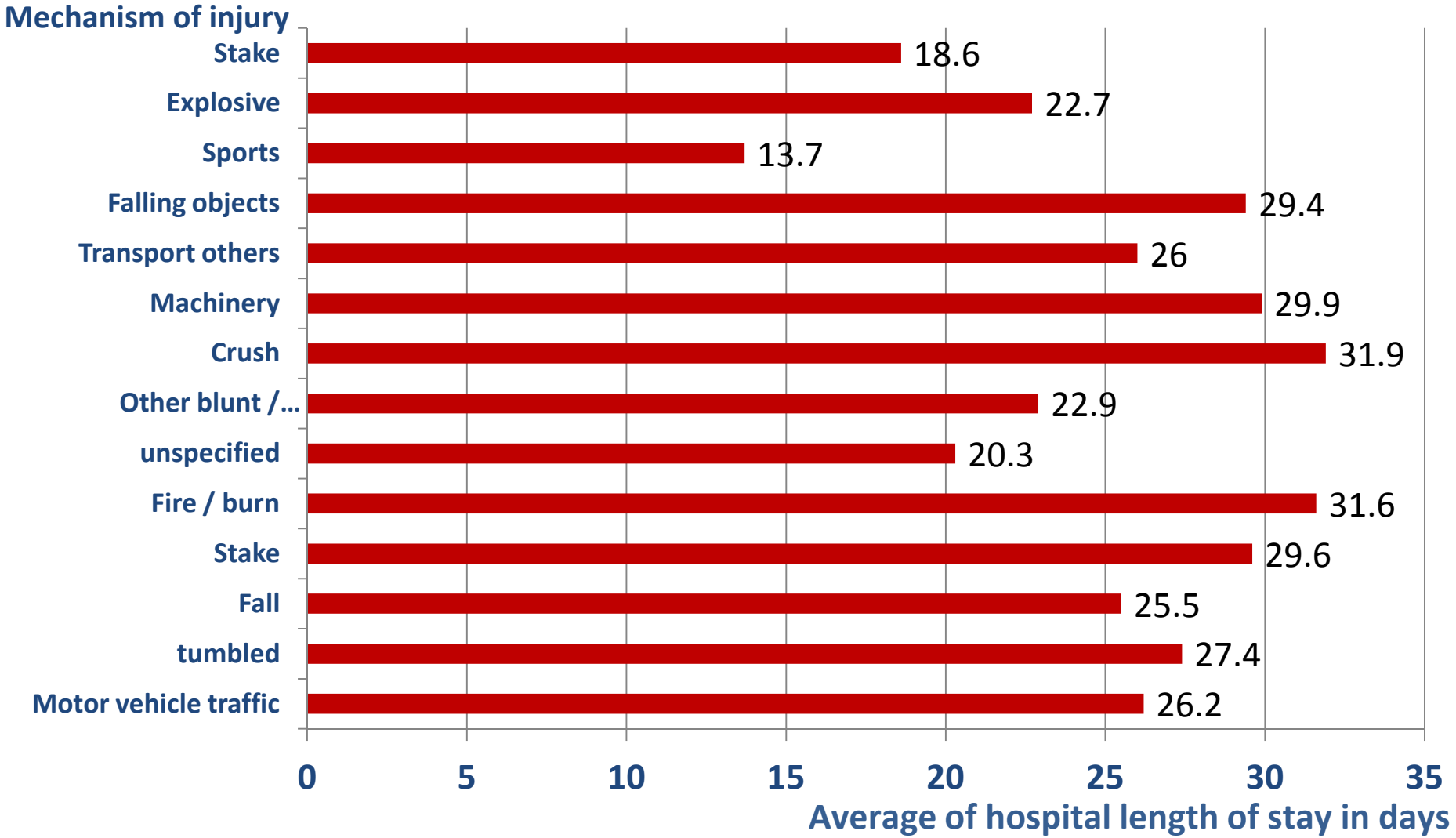
Total and average hospital length of stay by mechanism of injury N = 104,098

	Number of patients / %		Total hospital LOS in days	Average of hospital LOS in days
Motor vehicle traffic	38,003	36.51%	996,492	26.2
Tumbled	26,094	25.07%	714,951	27.4
Fall	21,791	20.93%	556,589	25.5
unspecified	3,672	3.53%	81,152	20.3
Other blunt / penetrating	3,009	2.89%	68,921	22.9
Cut / piece	2,934	2.82%	86,786	29.6
Fire / burn	2,568	2.47%	81,152	31.6
Sports	1,634	1.57%	22,308	13.7
Crush	1,250	1.20%	39,916	31.9
Machinery	1,119	1.07%	33,415	29.9
Transport others	938	0.90%	24,348	26.0
Falling objects	775	0.74%	22,765	29.4
Explosive	190	0.18%	4,311	22.7
Stake	90	0.09%	1,673	18.6
Firearm	31	0.03%	997	32.2
Total	104,098	100%	2,729,053	26.2

LOS; length of stay Motor vehicle traffic includes pedal cyclist and pedestrian victims

Figure 13

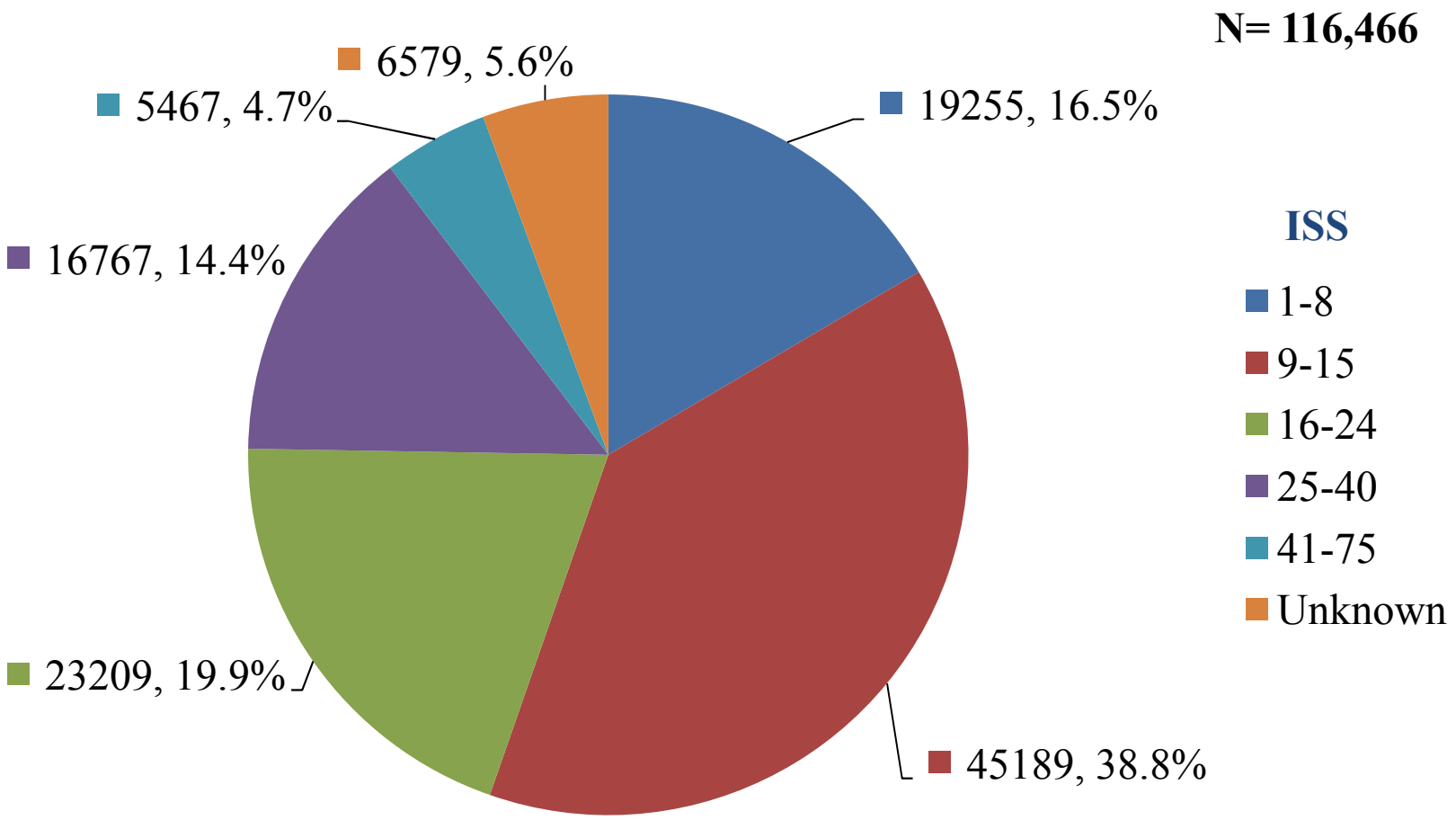
Average hospital length of stay by mechanism of injury N = 104,098



Motor vehicle traffic includes pedal cyclist and pedestrian victims.

Figure 14

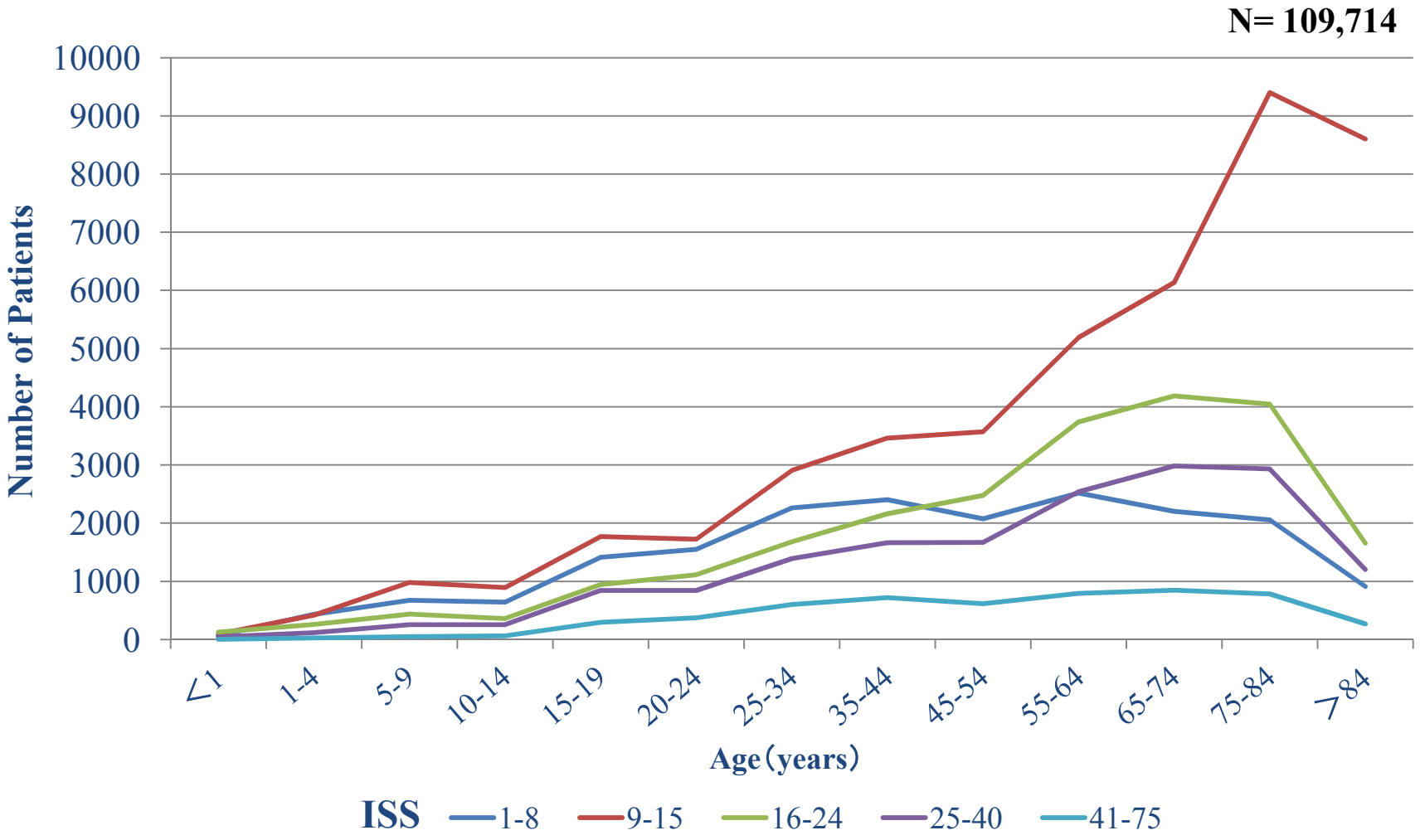
Patients and Injury Severity Score (ISS)



Proportional distribution of patients grouped by categories of the ISS range.
The number of patients of ISS 9-15 category was the most of all categories.

Figure 15

Patients by ISS and Age



Number of injured patients grouped by ISS range, at each age from 0 to 112.
The peaks of the number of patients based on age distribution were seen at 25-44 and 55-84 ages of any ISS categories, and at 75-84 ages of ISS 9-15 .

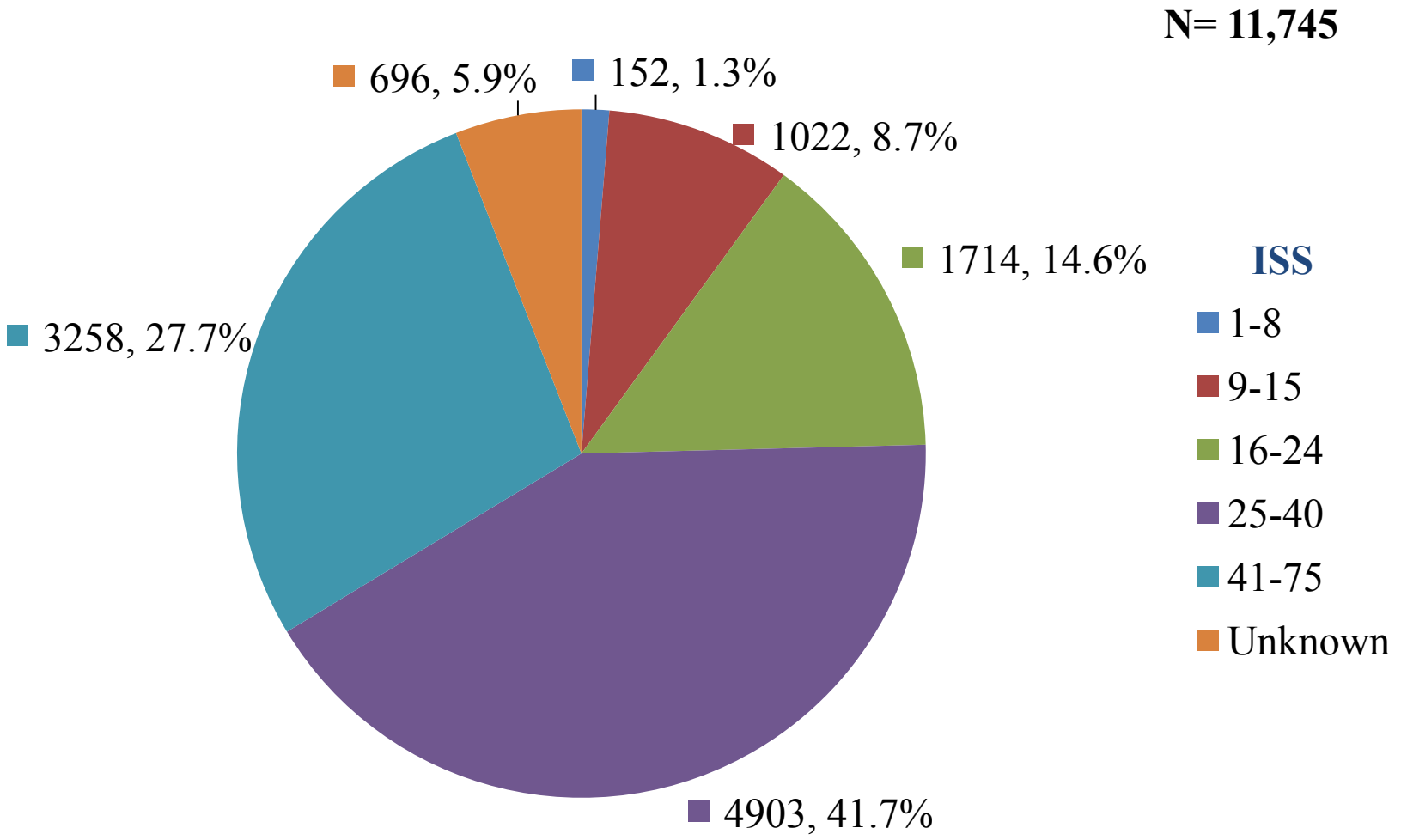
Table 15

Patients by ISS and Age

ISS \ Age	0	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85-	Unknown	Total
1-8	66	434	677	641	1413	1552	2263	2404	2077	2516	2203	2057	910	42	19255
9-15	94	420	979	895	1768	1722	2906	3462	3570	5189	6136	9401	8600	47	45189
16-24	128	259	436	361	943	1112	1679	2162	2475	3739	4188	4045	1655	27	23209
25-40	47	118	253	253	842	845	1391	1665	1667	2540	2982	2932	1203	29	16767
41-75	3	28	48	64	297	374	602	720	614	792	848	782	267	28	5467
Unknown	49	173	186	150	325	420	645	787	679	819	955	855	407	129	6579
Total	387	1432	2579	2364	5588	6025	9486	11200	11082	15595	17312	20072	13042	302	116466

Figure 16A

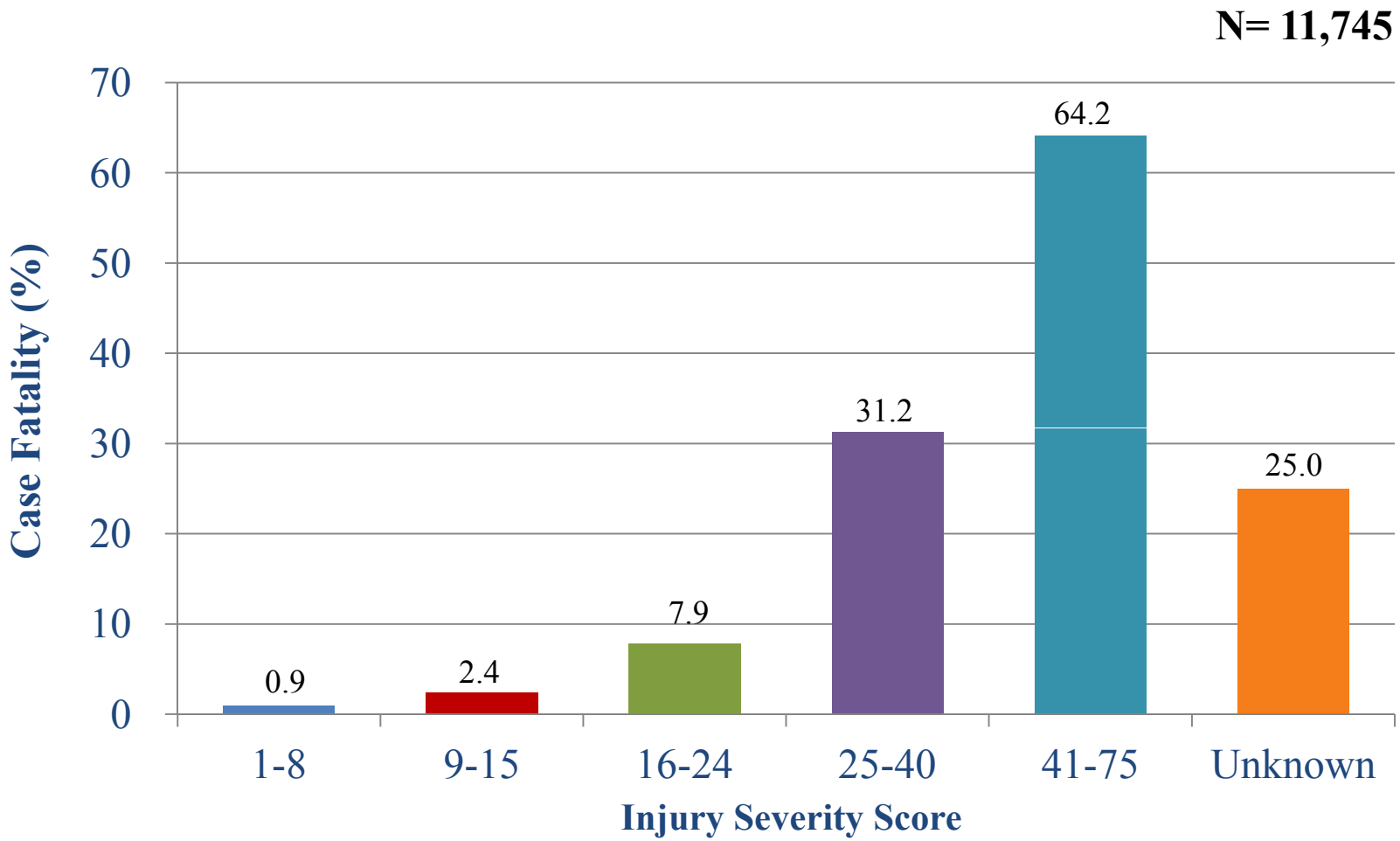
Deaths and Injury Severity Score (ISS)



Proportional distribution of deaths grouped by categories of ISS range. Deaths in ISS 25-40 category were the highest.

Figure 16B

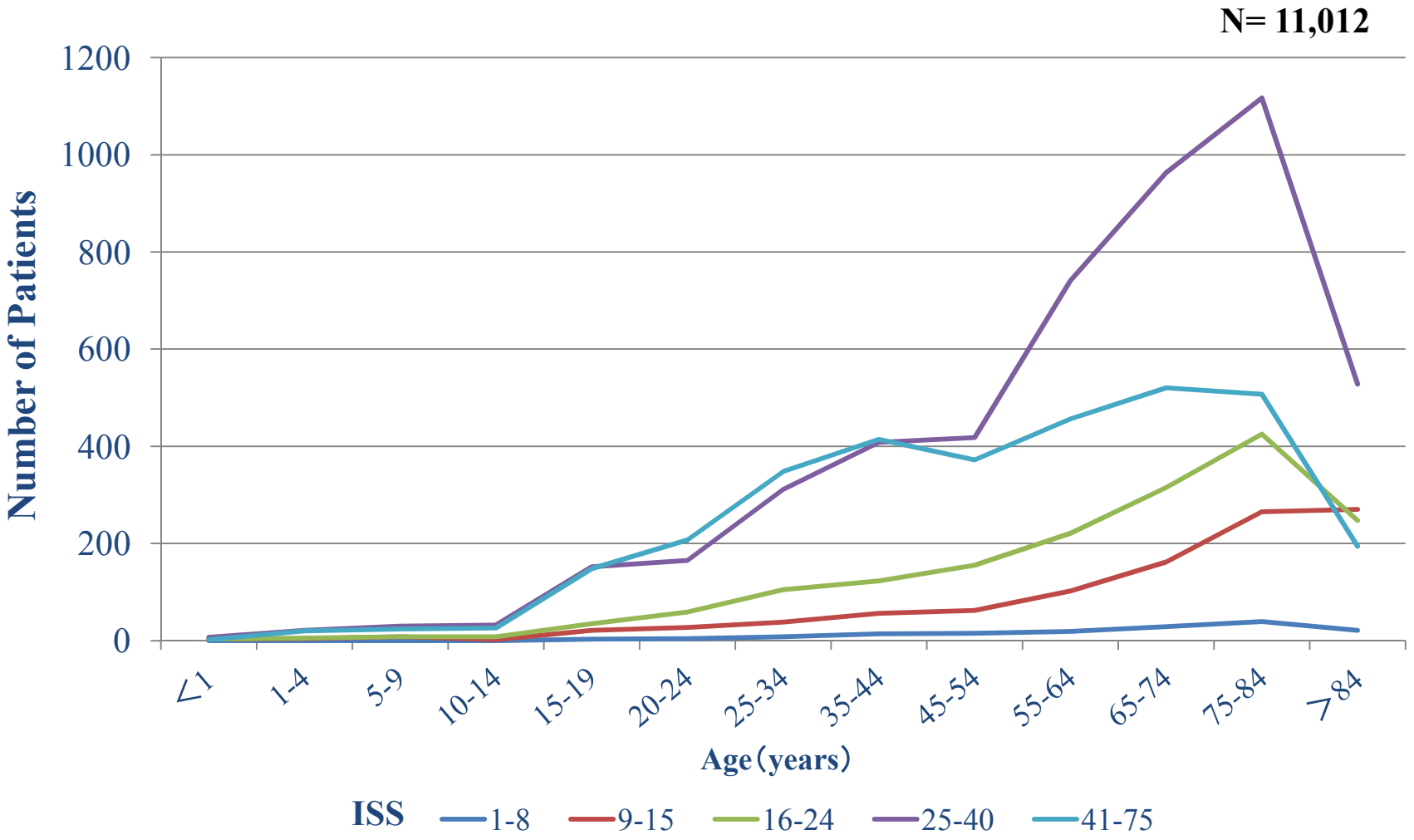
Case Fatality by Injury Severity Score (ISS) Range



Case fatality grouped by ISS range was higher in severe trauma category.
(Case fatality = number of deaths divided by the number of patients × 100 by ISS range).

Figure 17

Deaths by ISS and Age



The peak was seen at elderly ages in ISS 16-24, and the category ISS 25-40 and ISS 41-75 has two peaks at young and elderly ages.

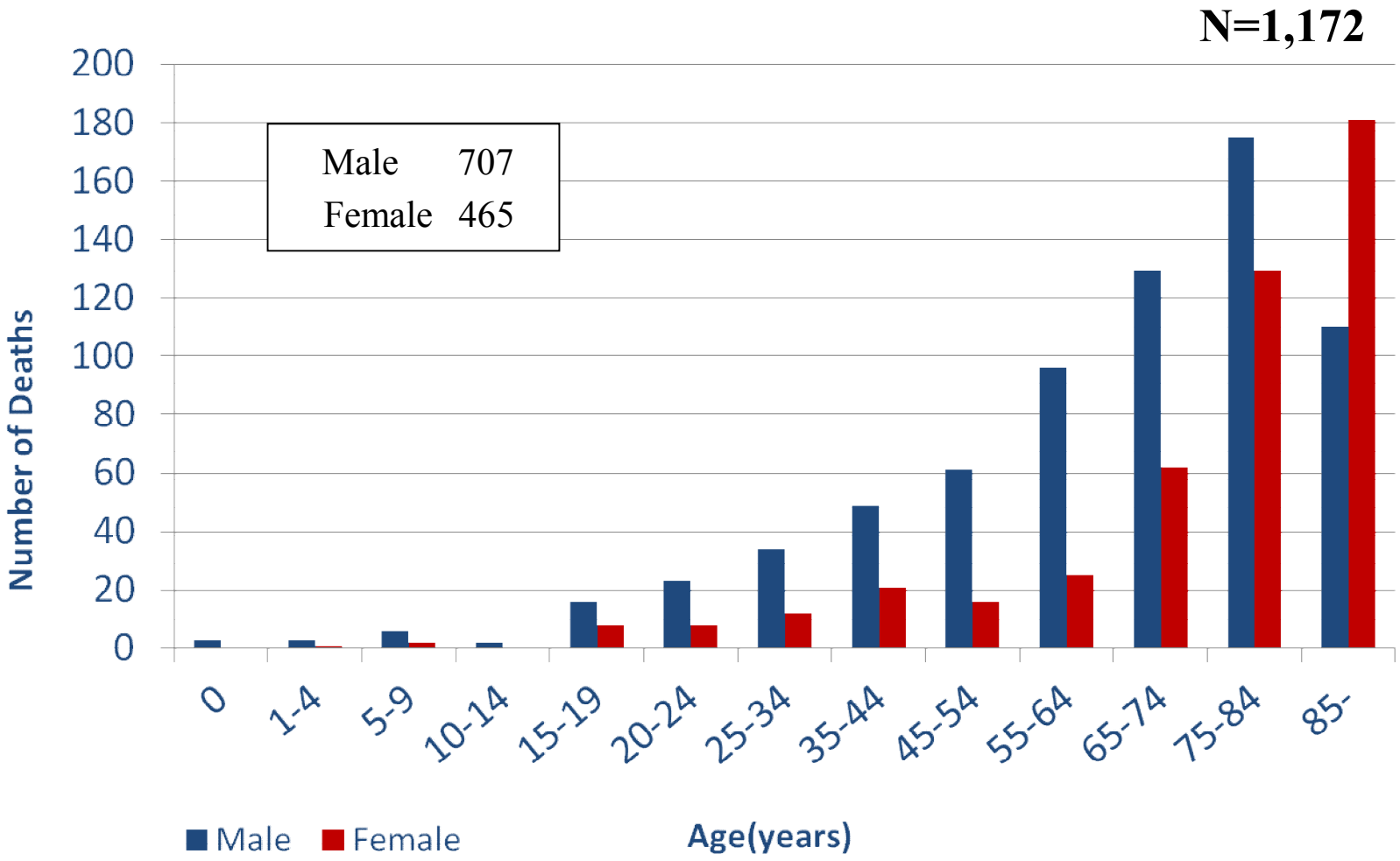
Table 17

Deaths by ISS and Age

Age / ISS	0	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85-	Unknown	Total
1-8	0	0	0	0	3	4	8	14	15	19	29	39	21	0	152
9-15	3	4	8	2	21	27	38	56	62	102	162	265	270	2	1022
16-24	3	5	8	8	35	59	105	123	155	221	315	425	247	5	1714
25-40	7	21	30	32	152	165	311	408	418	741	963	1117	528	10	4903
41-75	2	20	24	26	148	207	348	414	372	456	520	507	194	20	3258
Unknown	1	3	3	12	29	41	70	78	83	101	128	99	37	11	696
Total	16	53	73	80	388	503	880	1093	1105	1640	2117	2452	1297	48	11745

Figure 18

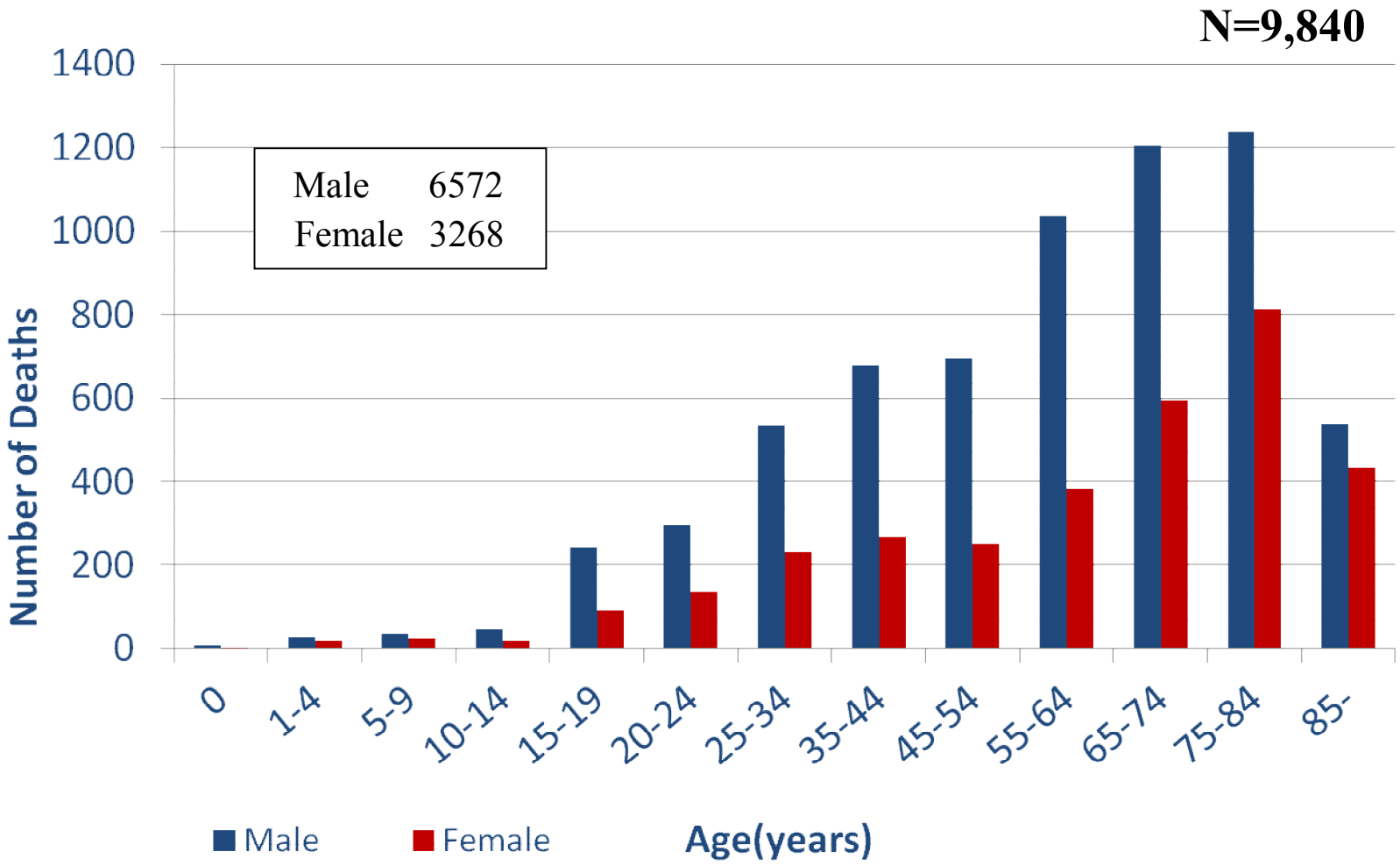
Deaths by Age and Gender (ISS<=15)



Deaths for patients with ISS<=15 for males and females at each age category.

Figure 19

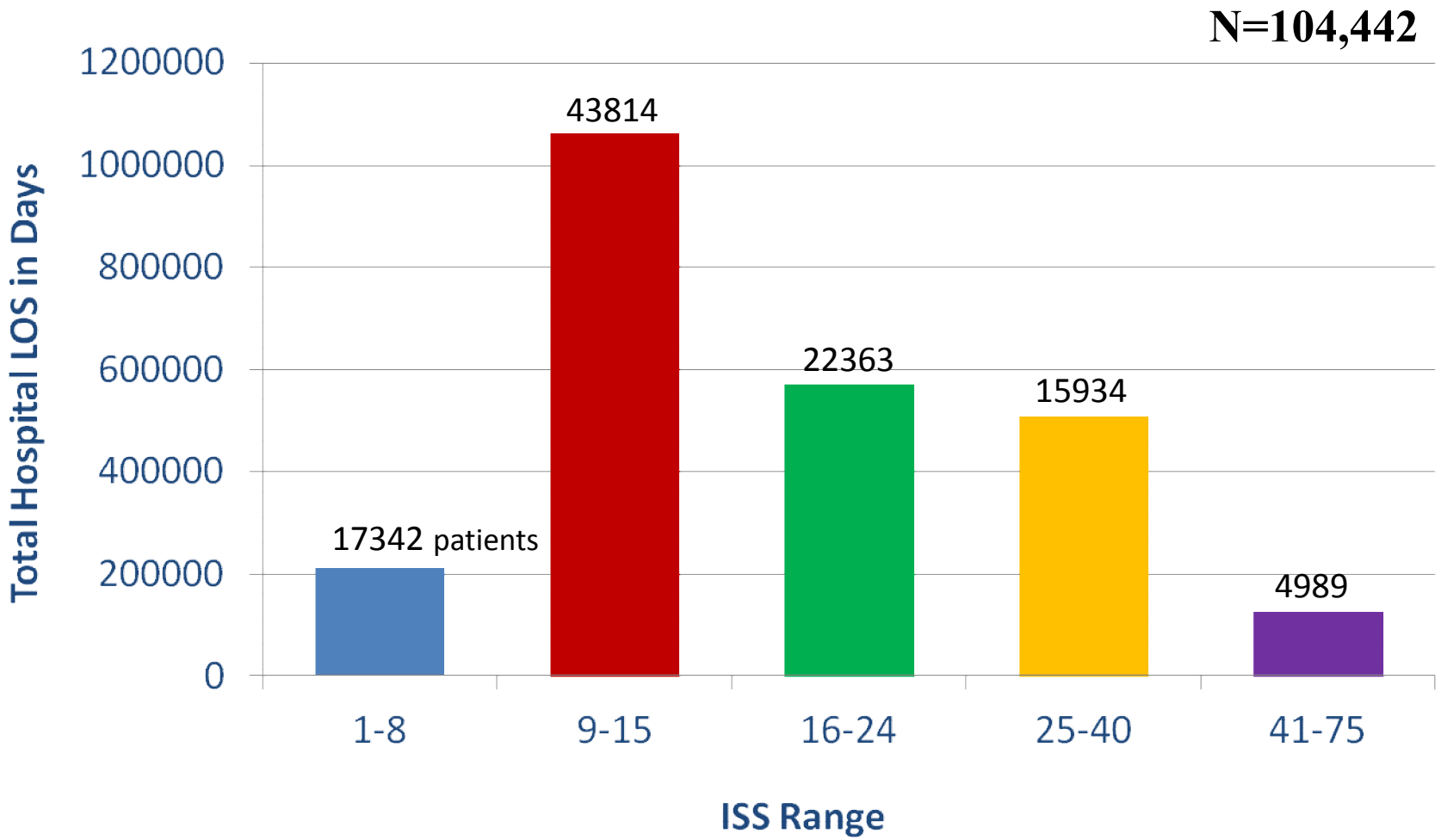
Deaths by Age and Gender (ISS>15)



Deaths for patients with ISS>15 for males and females at each age category.

Figure 20A

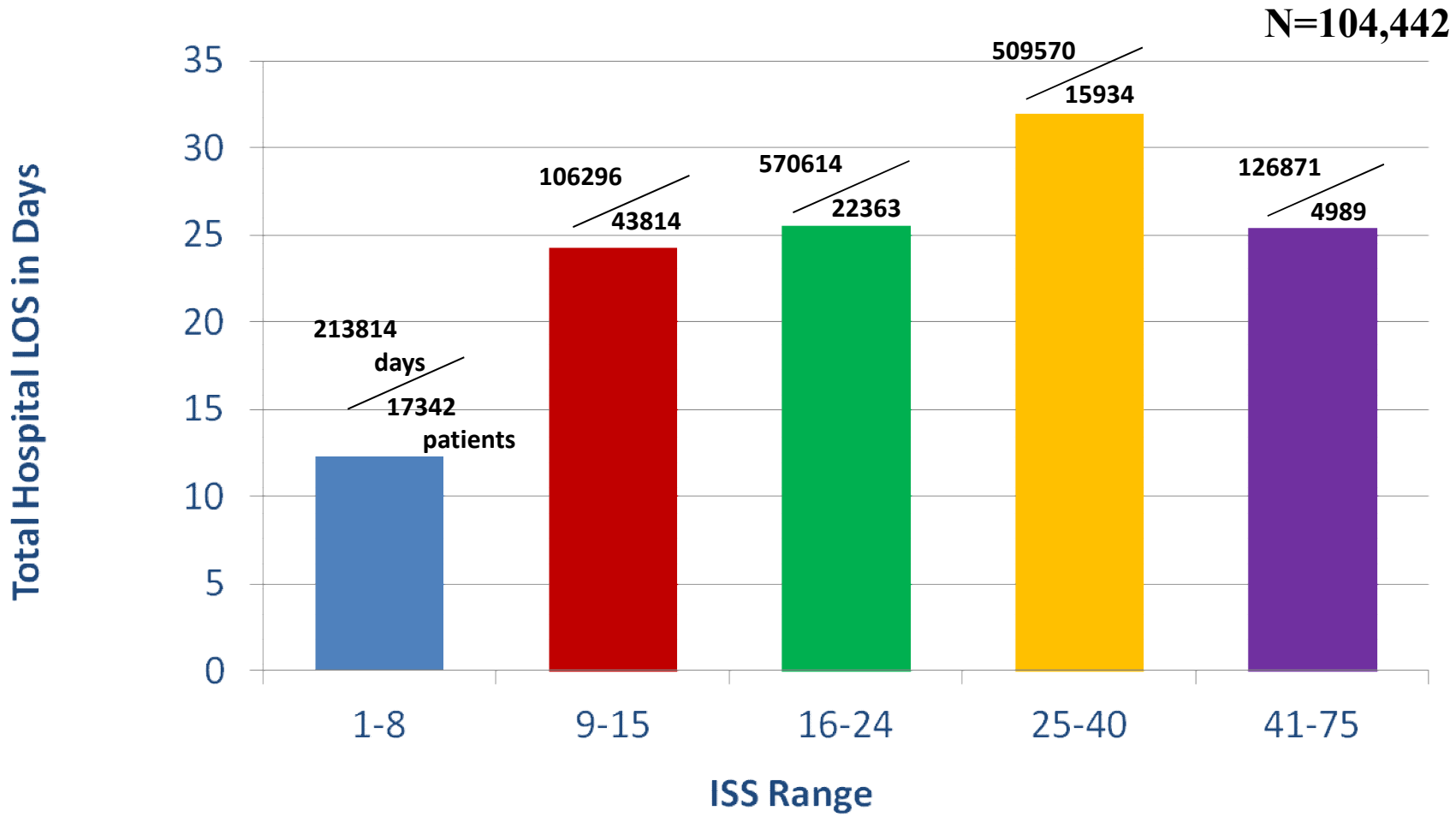
Total Hospital LOS and Injury Severity Score (ISS)



Proportional distribution of total hospital length of stay for patients, grouped by ISS range.

Figure 20B

Average Hospital LOS and Injury Severity Score



Average hospital length of stay for each category of ISS range. (Average hospital length of stay = total hospital length of stay for each ISS range divided by the total number of patients).

Figure 21

Distribution of patients by probability of survival (Ps)

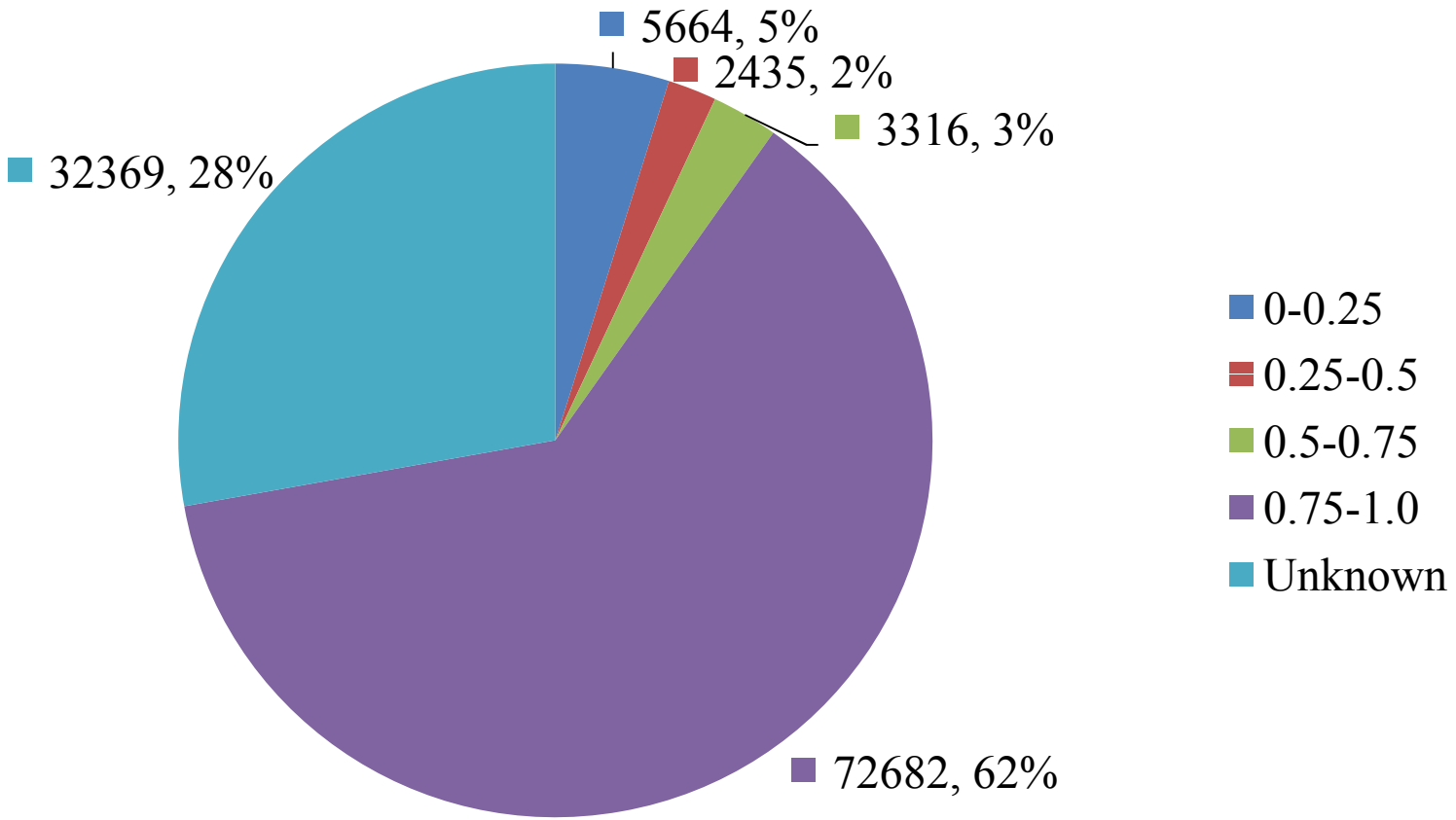


Figure 22A

Distribution of deaths by probability of survival (Ps)

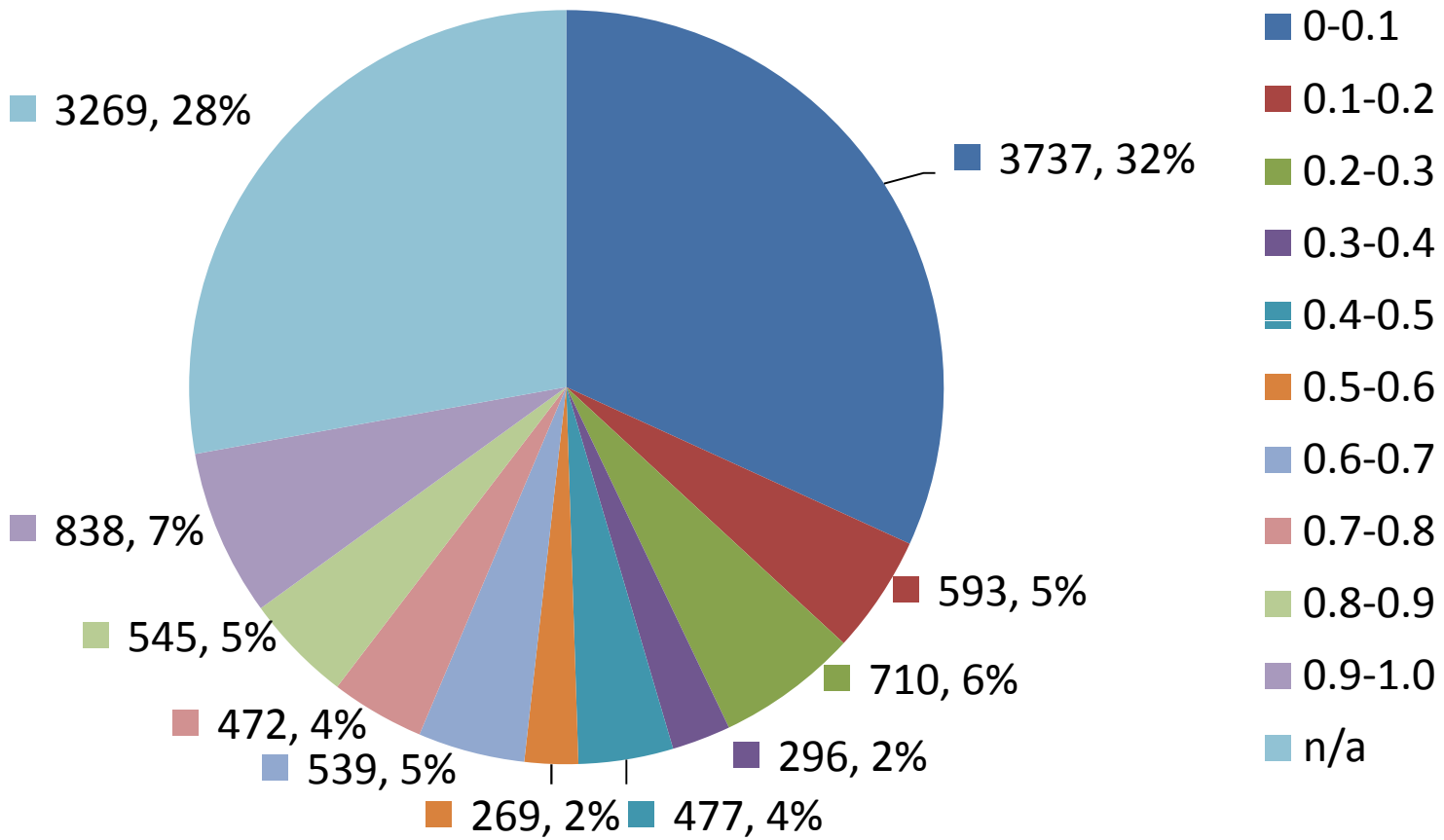


Figure 22B

Case fatality by probability of survival (Ps)

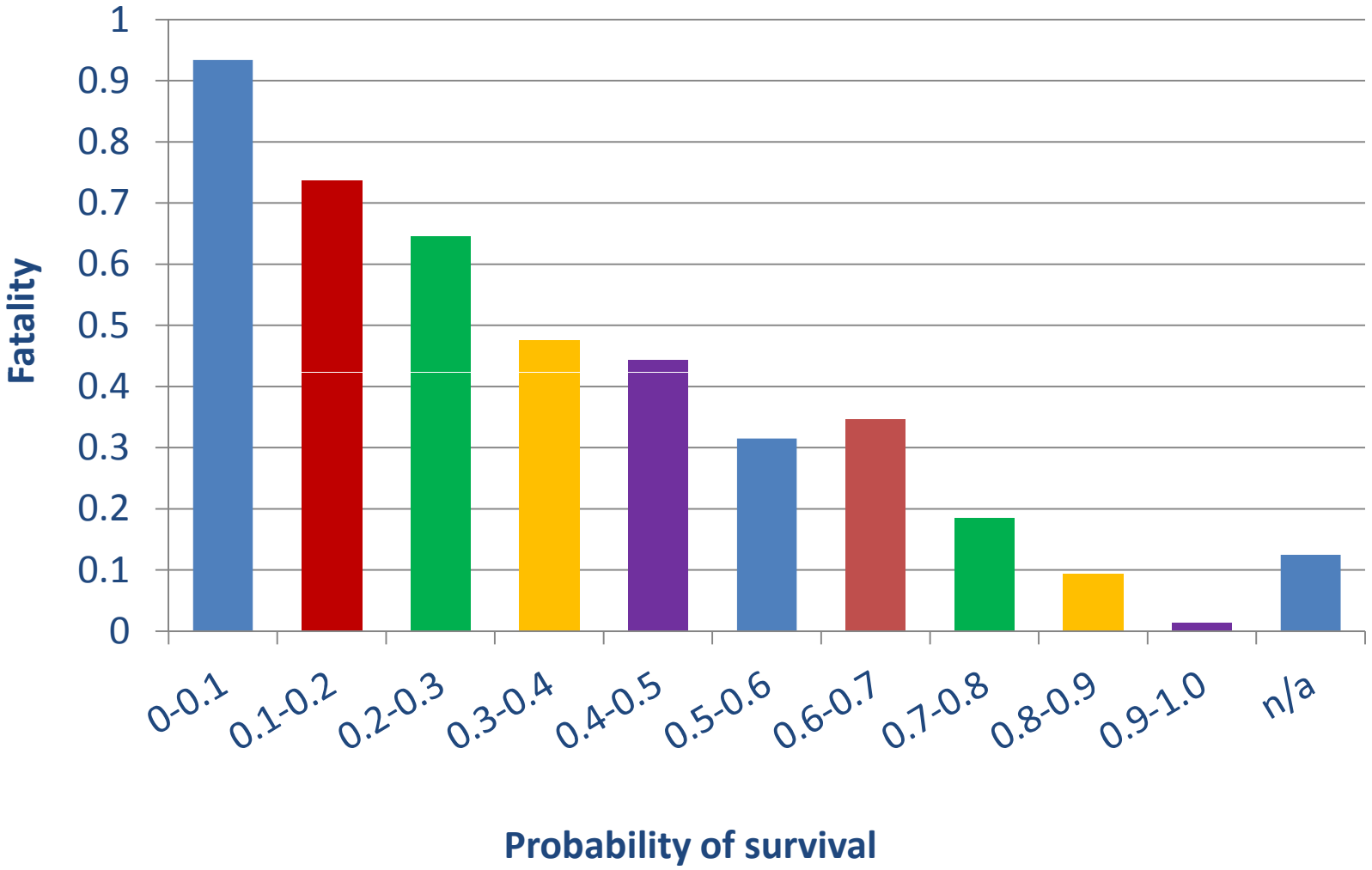


Figure 23

The number of patients in traffic accidents by types of vehicle and age (N = 42,025)

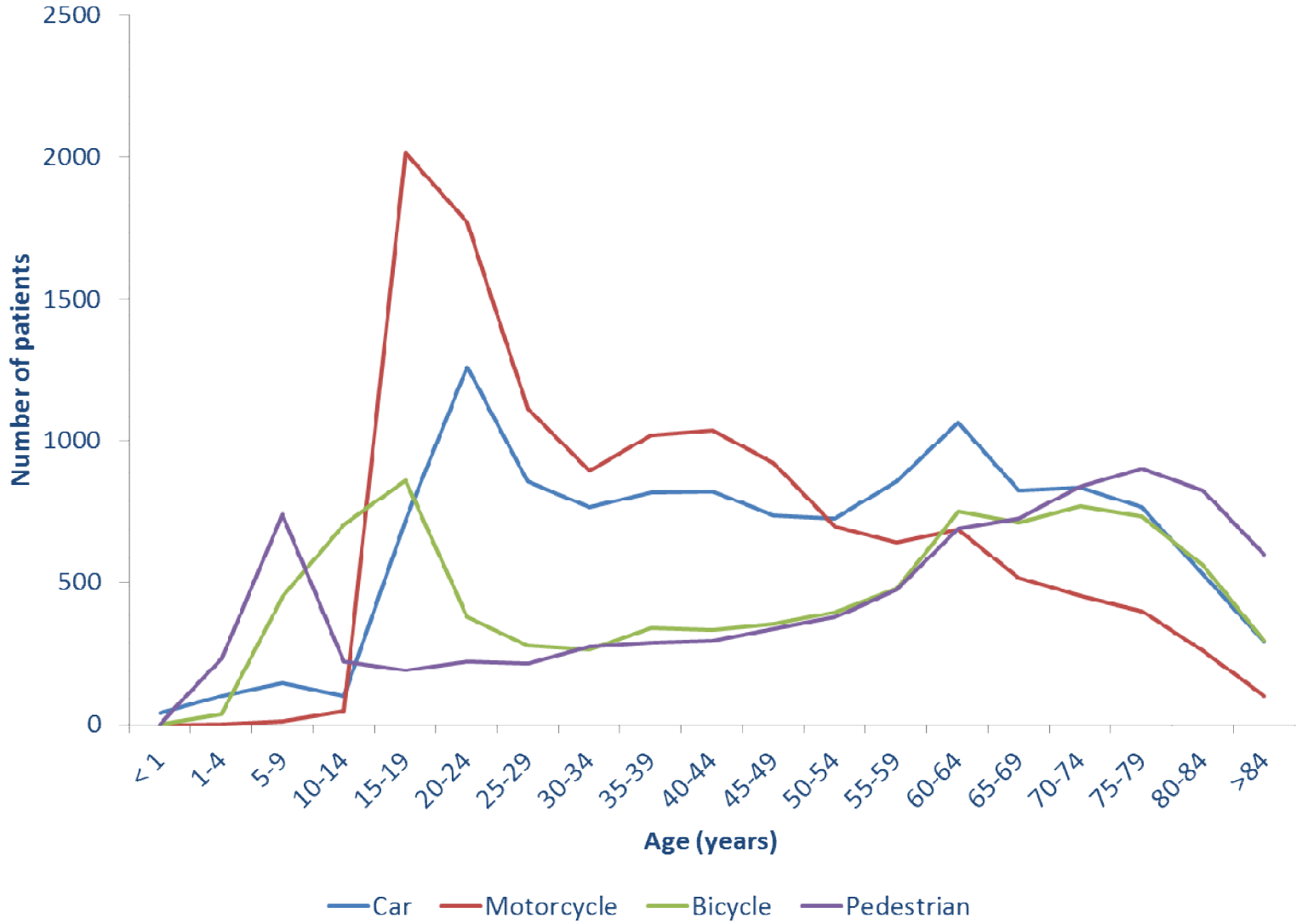


Figure 24

The number of patients in car accident by drivers and passengers and age (N = 12,259)

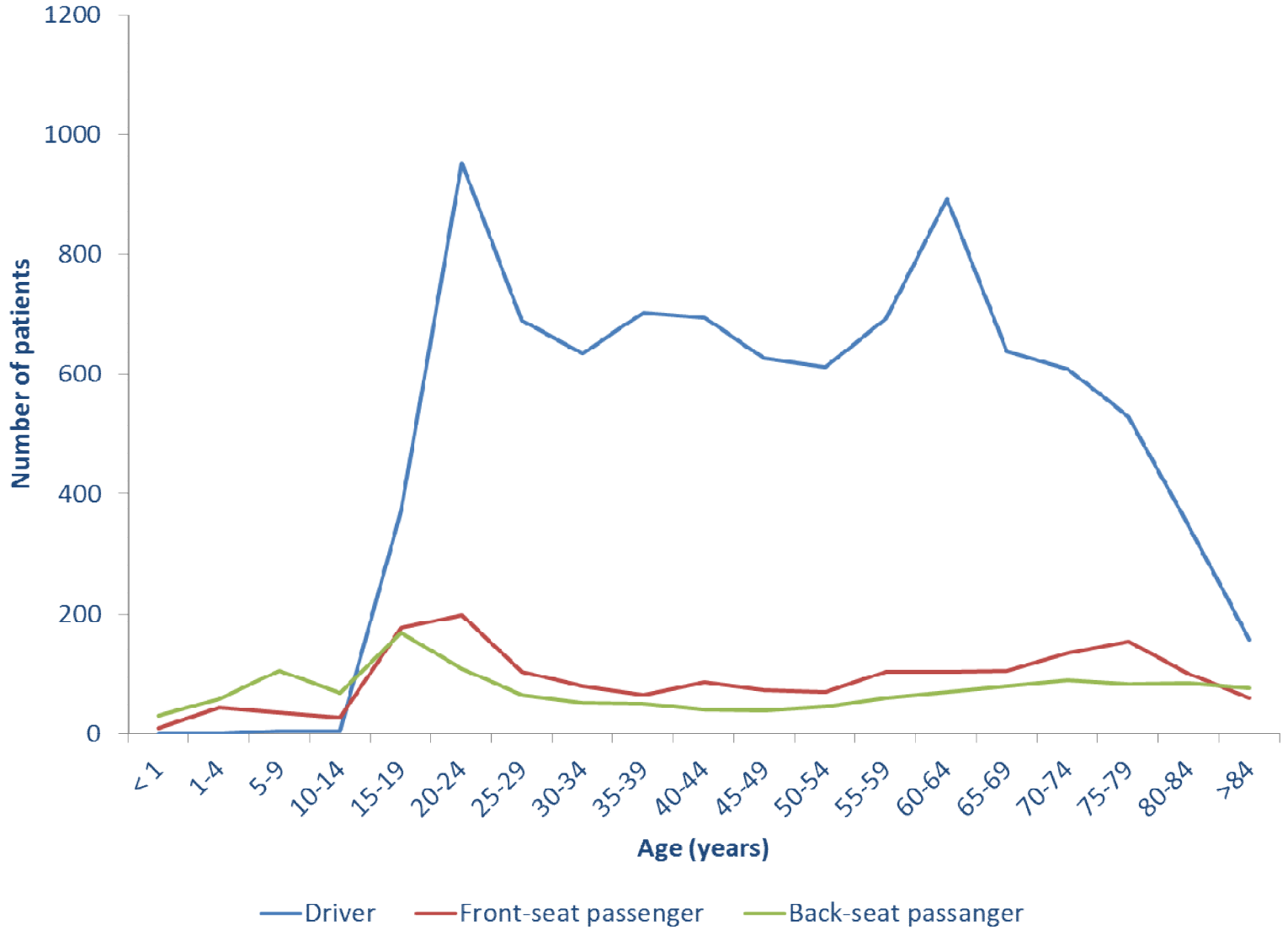


Figure 25

The number of patients in car accident (driver) by gender and age (N = 9,165)

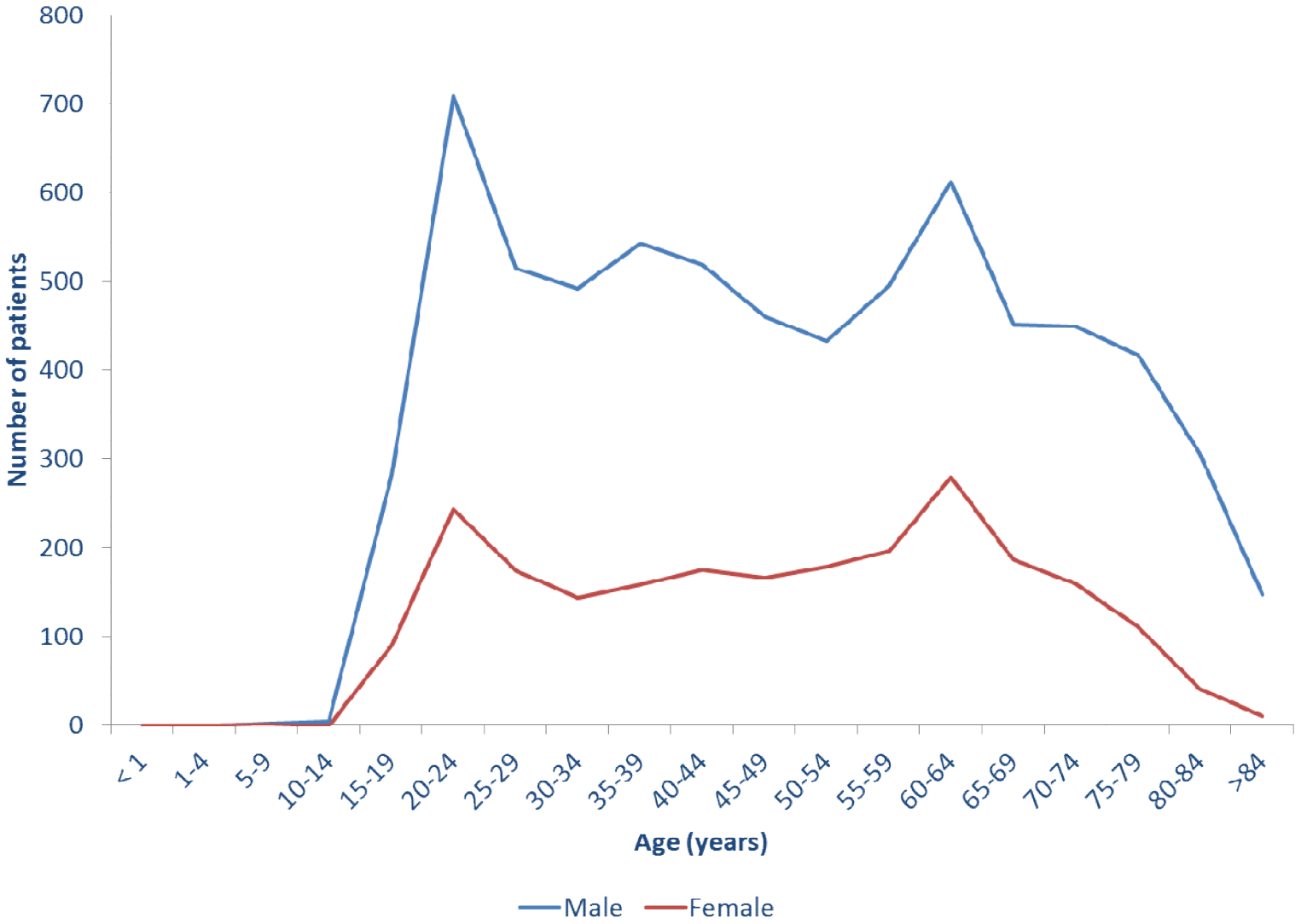


Figure 26

The number of patients in car accident (passenger) by gender and age (N = 1,728)

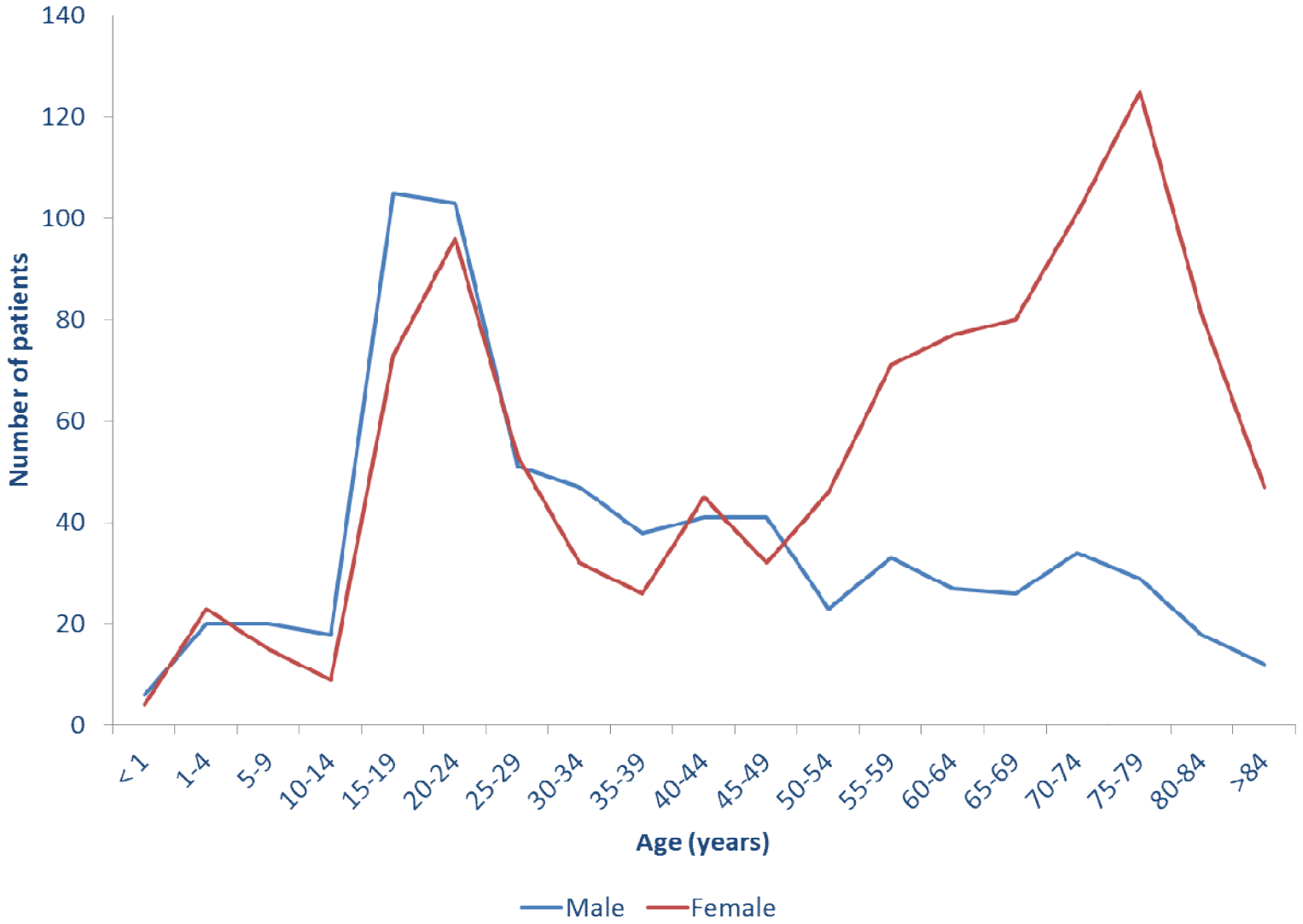
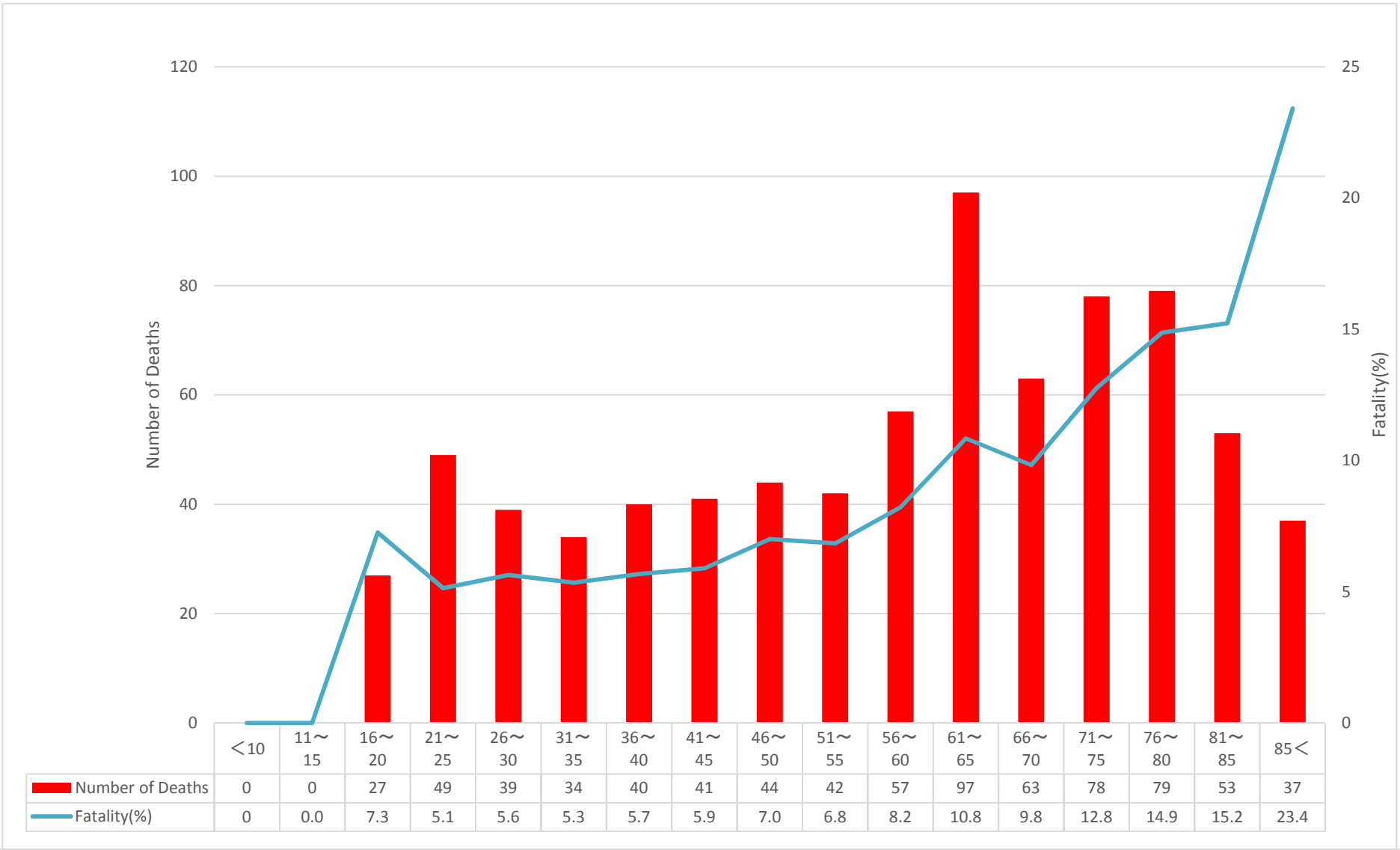


Figure 27

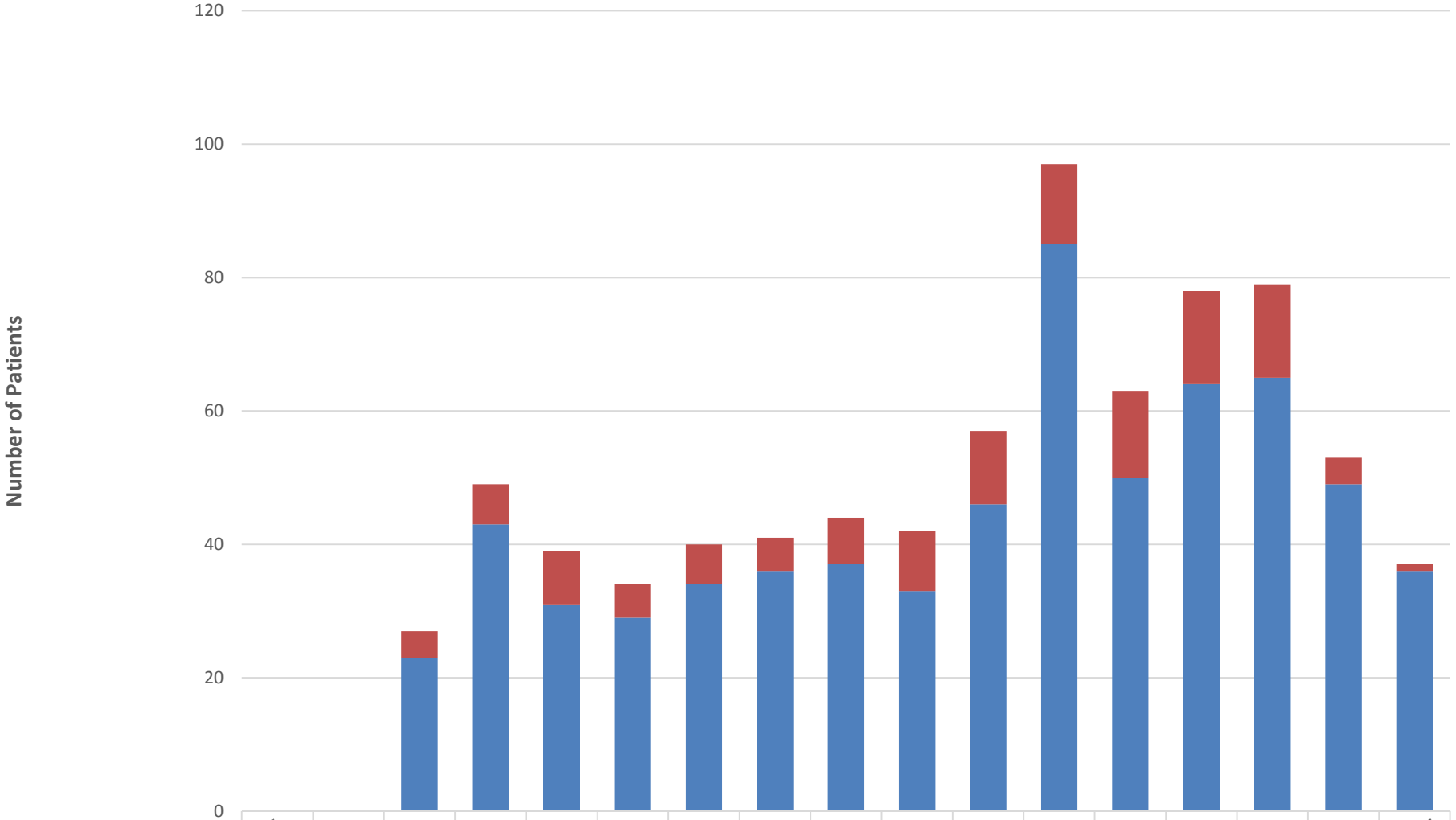
Number of Deaths and Fatalities of Motor Vehicular Drivers by Age



	＜10	11～15	16～20	21～25	26～30	31～35	36～40	41～45	46～50	51～55	56～60	61～65	66～70	71～75	76～80	81～85	85＜
Number of Deaths	0	0	27	49	39	34	40	41	44	42	57	97	63	78	79	53	37
Fatality(%)	0	0.0	7.3	5.1	5.6	5.3	5.7	5.9	7.0	6.8	8.2	10.8	9.8	12.8	14.9	15.2	23.4

Figure 28

Number of Deaths of Motor Vehicular Drivers by Age and Genders



	＜10	11～15	16～20	21～25	26～30	31～35	36～40	41～45	46～50	51～55	56～60	61～65	66～70	71～75	76～80	81～85	85＜
Number of Female Deaths	0	0	4	6	8	5	6	5	7	9	11	12	13	14	14	4	1
Number of Male Deaths	0	0	23	43	31	29	34	36	37	33	46	85	50	64	65	49	36

Figure 29

Proportional distribution of registered patients, grouped by intent

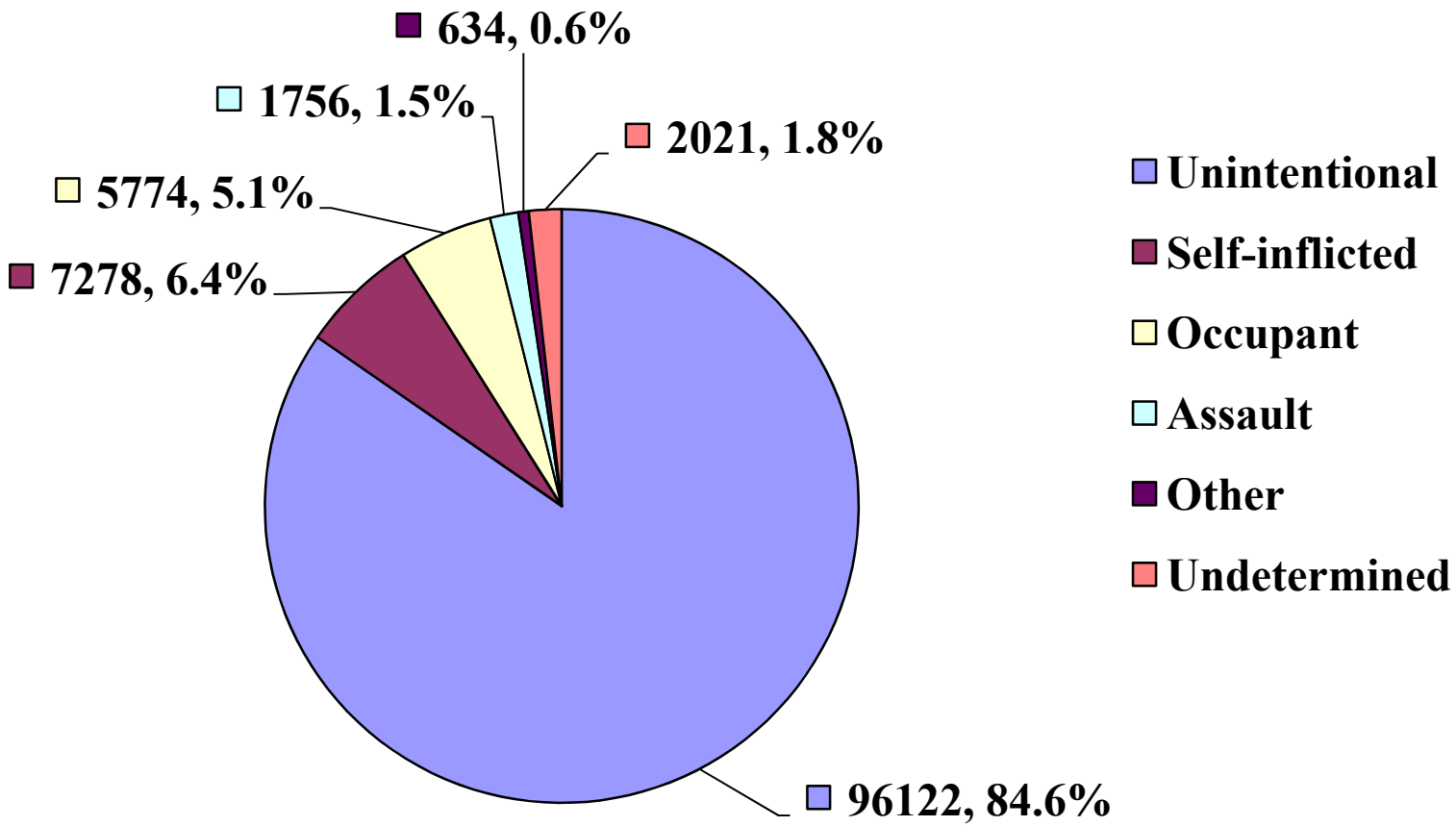


Figure 30

Proportional distribution of deaths, grouped by intent

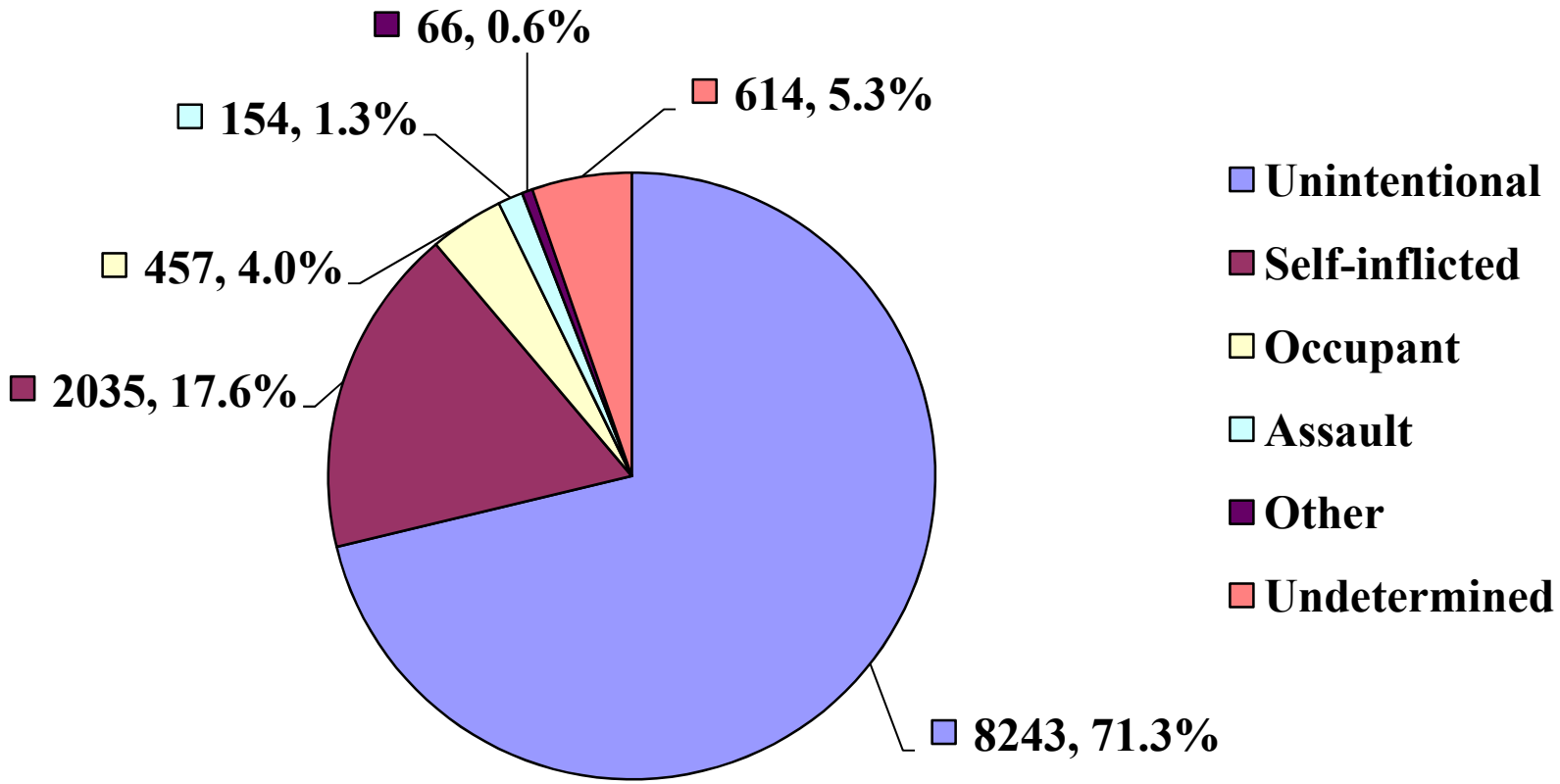


Figure 31

Gender proportion of Unintentional and Occupant

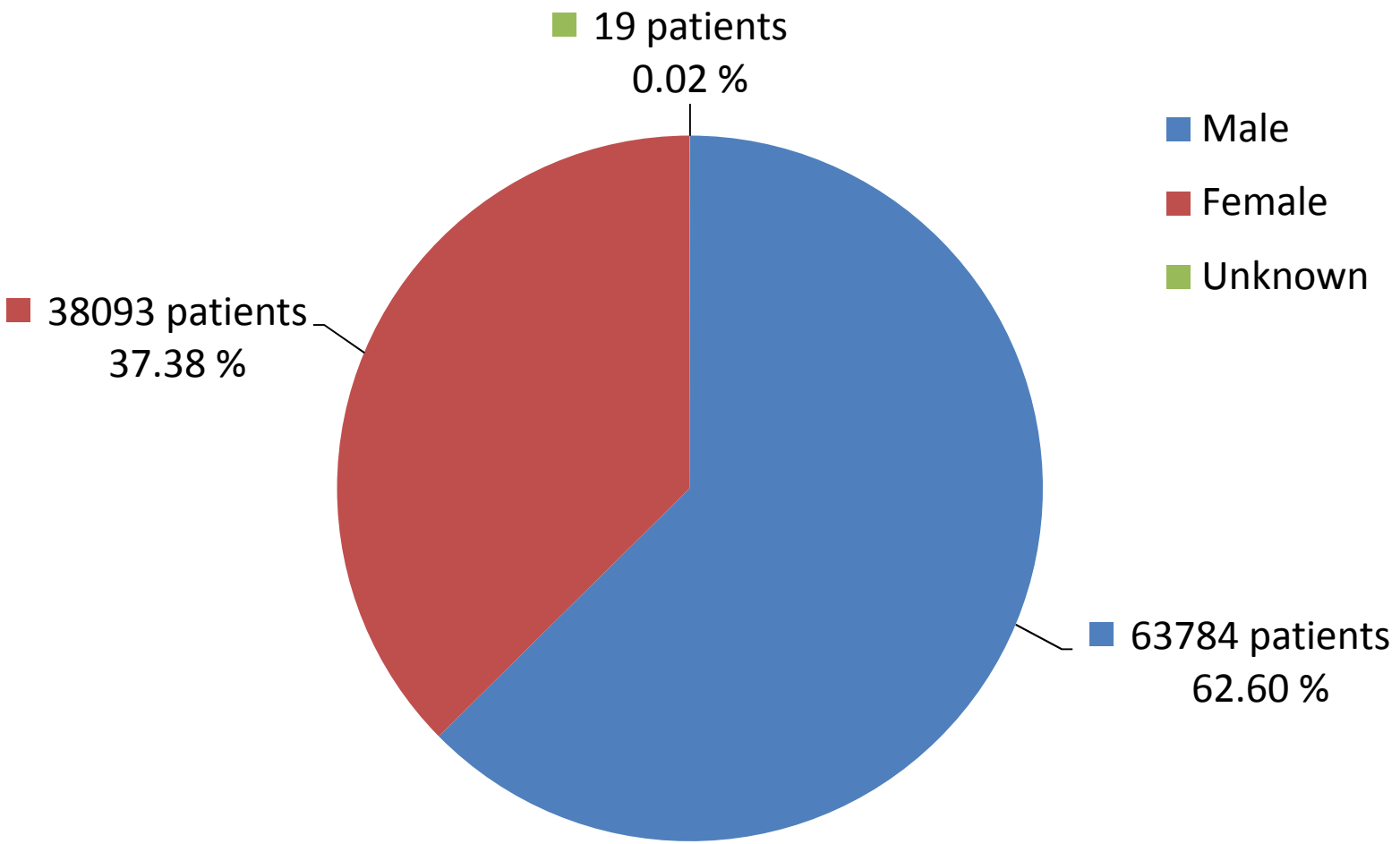


Figure 32

Unintentional and Occupant by Age and Gender

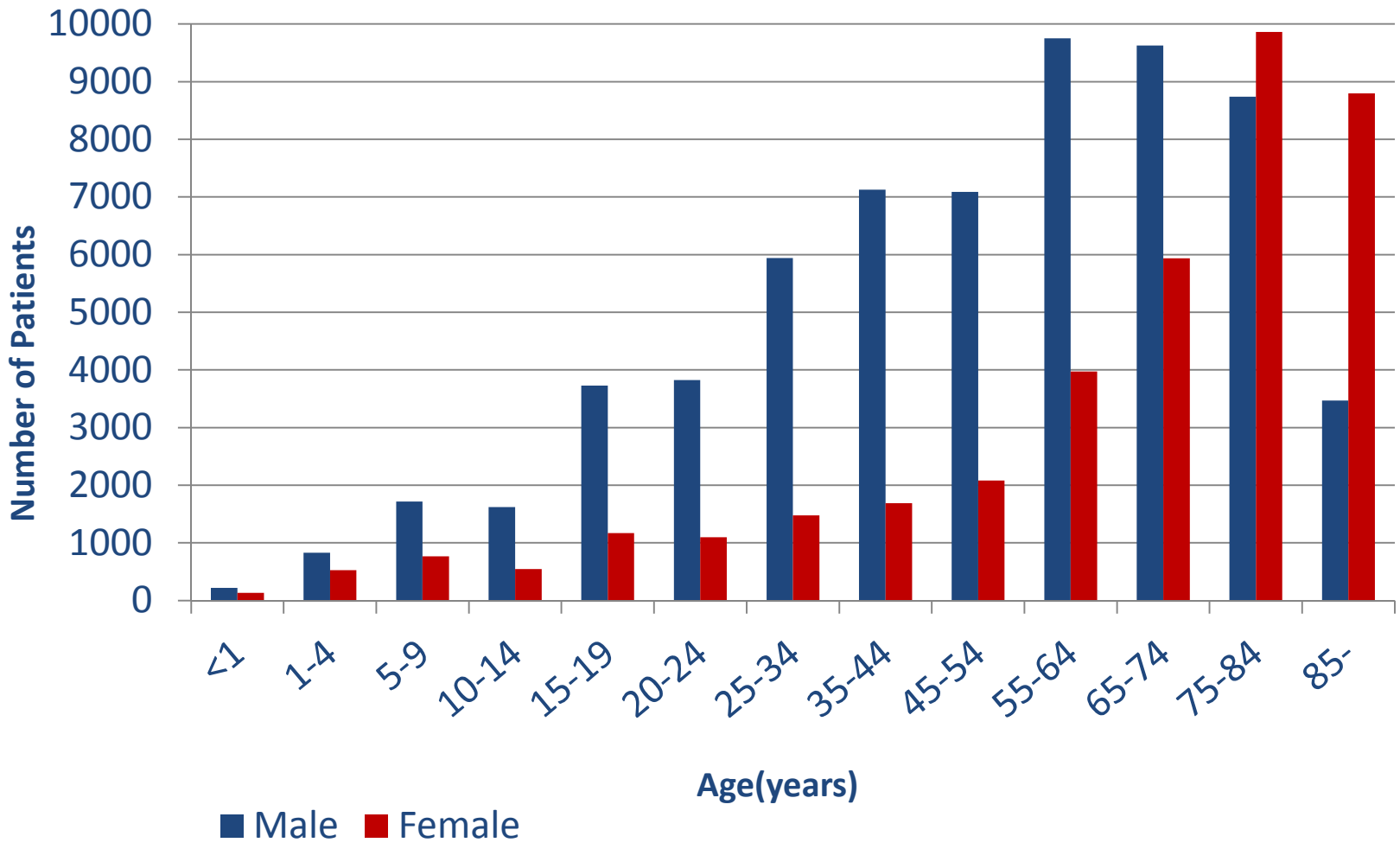


Table 32

Unintentional and Occupant by Age and Gender

Age	Male	Female	Total
＜ 1	222	131	353
1- 4	829	526	1355
5- 9	1716	765	2481
10-14	1622	547	2169
15-19	3727	1170	4897
20-24	3822	1100	4922
25-34	5940	1477	7417
35-44	7124	1689	8813
45-54	7087	2084	9171
55-64	9750	3972	13722
65-74	9627	5934	15561
75-84	8739	9860	18599
85-	3471	8796	12267
Unknown	108	42	150
Total	63784	38093	101877

Figure 33

Assault by Age and Gender

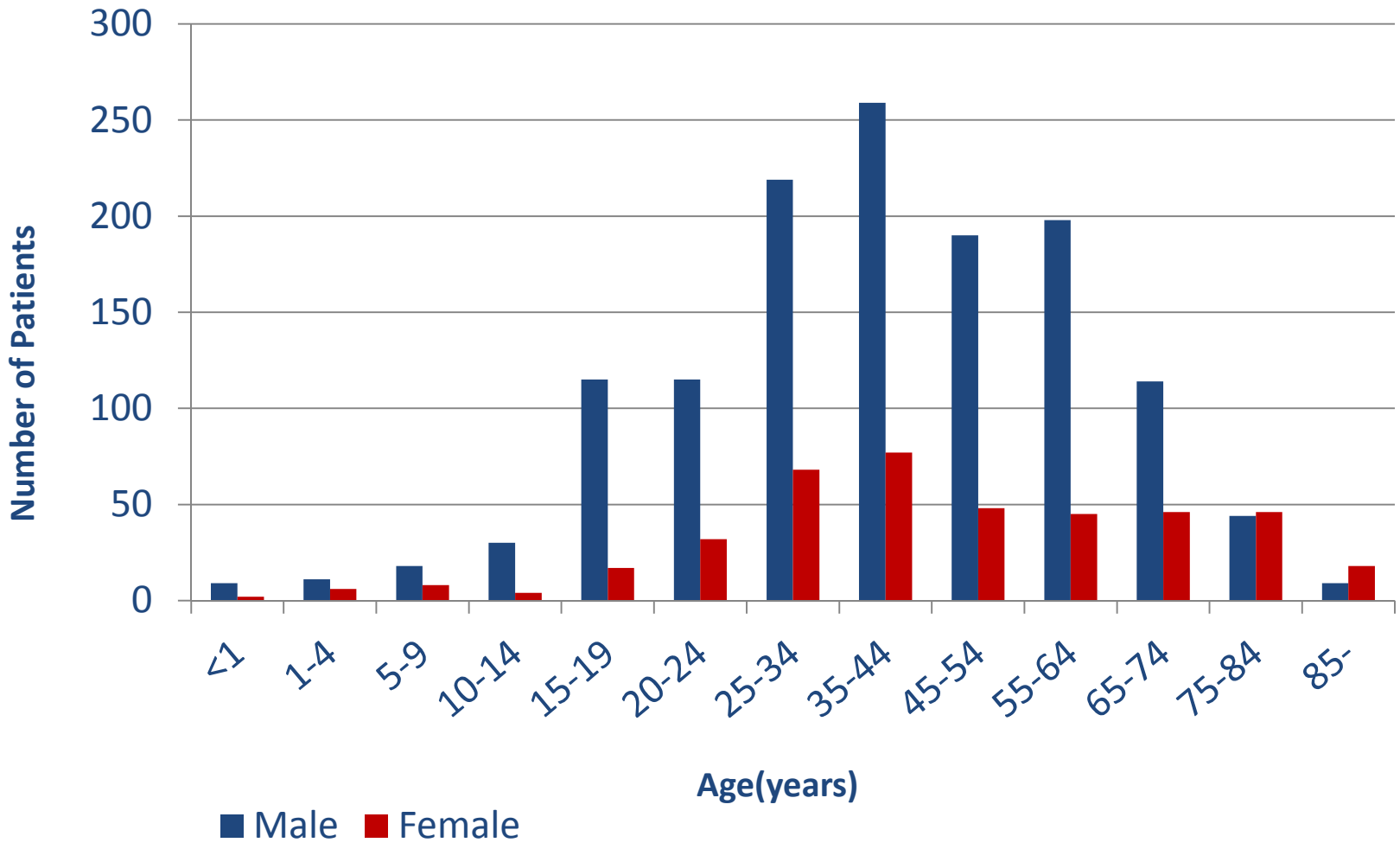


Table 33

Assault by Age and Gender

Age	Male	Female	Total
＜ 1	9	2	11
1- 4	11	6	17
5- 9	18	8	26
10-14	30	4	34
15-19	115	17	132
20-24	115	32	147
25-34	219	68	287
35-44	259	77	336
45-54	190	48	238
55-64	198	45	243
65-74	114	46	160
75-84	44	46	90
85-	9	18	27
Unknown	7	1	8
Total	1338	418	1756

Figure 34

Self-inflicted by Age and Gender

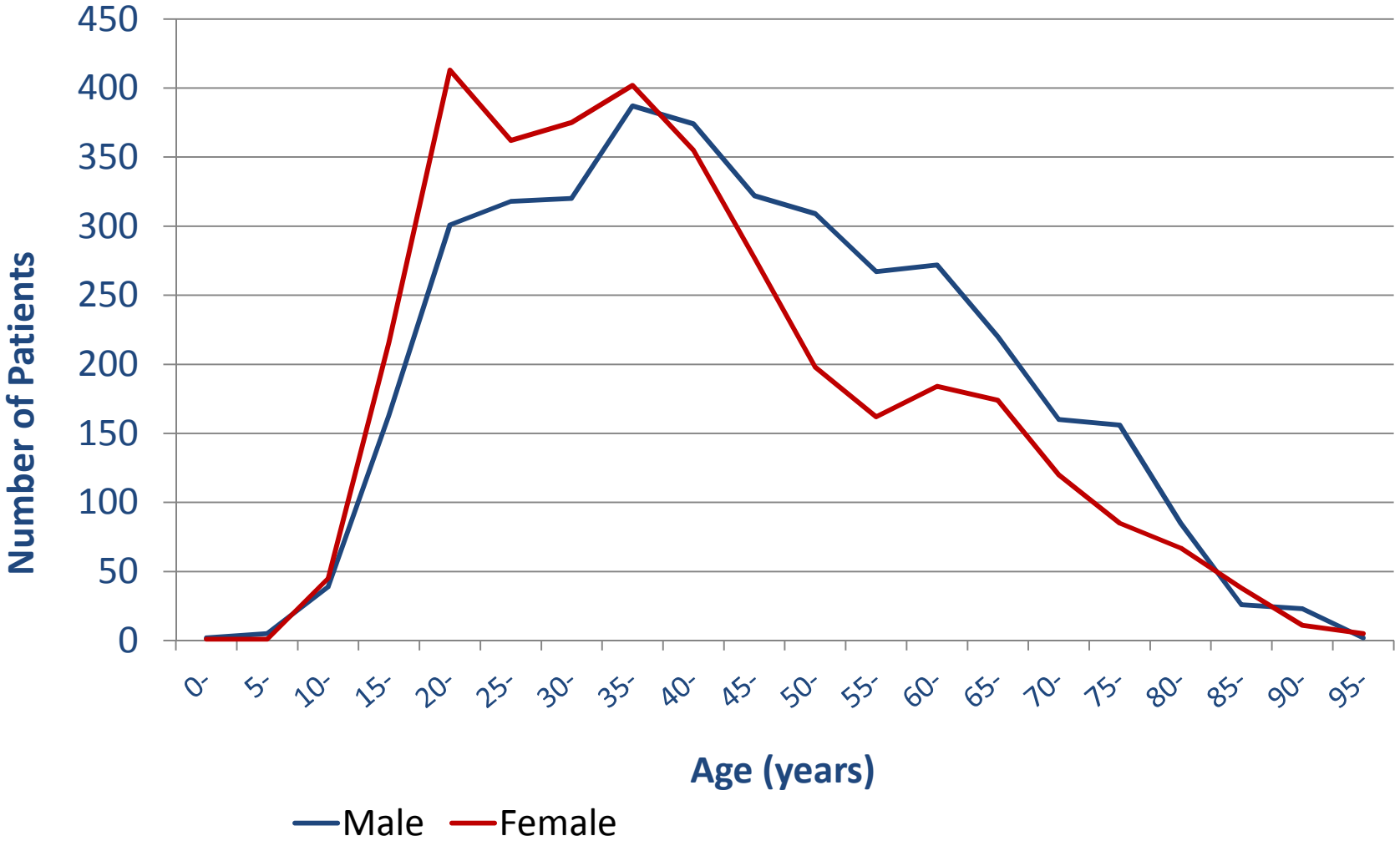


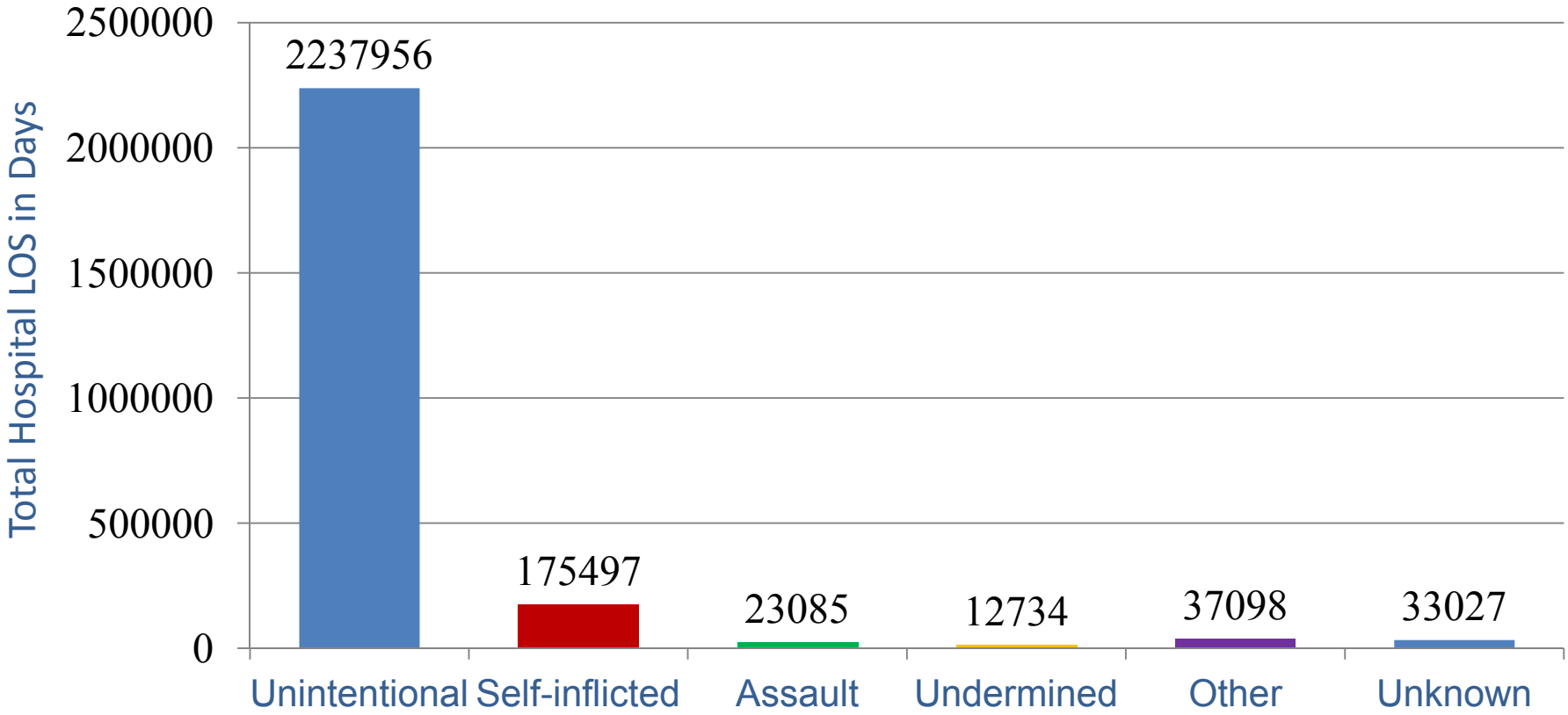
Table 34

Self-inflicted by Age and Gender

Age / Sex	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-	Unknown	Total
Female	1	1	45	216	413	362	375	402	355	277	198	162	184	174	120	85	67	38	11	5	17	3508
Male	2	5	39	163	301	318	320	387	374	322	309	267	272	220	160	156	85	26	23	2	17	3768
Total	3	6	84	379	714	680	695	789	729	599	507	429	456	394	280	241	152	64	34	7	34	7276

Figure 35A

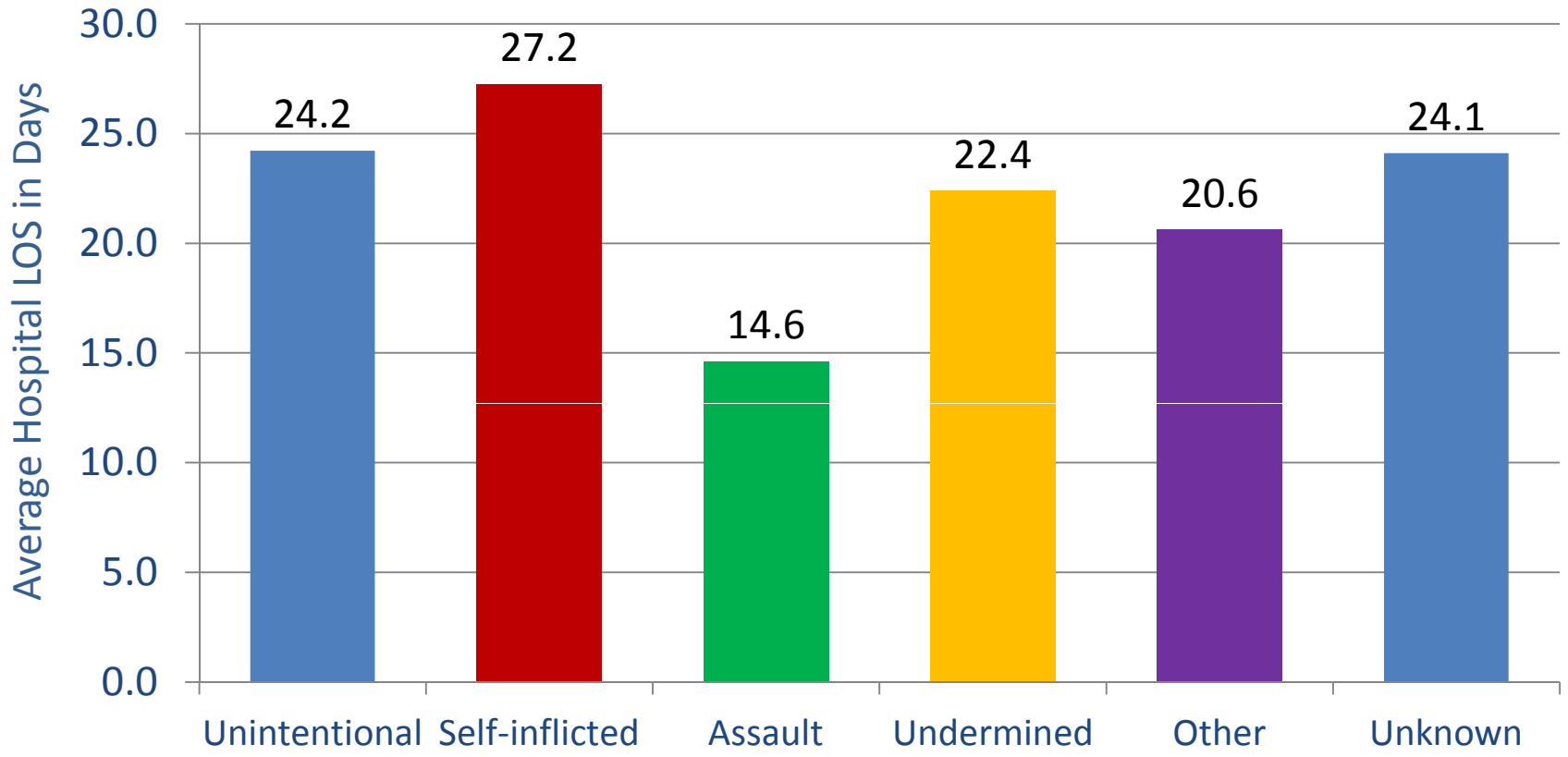
Total Hospital LOS by Intent



Industrial accident was included in the category of "Unintentional".

Figure 35B

Average Hospital LOS by Intent



Average hospital length of stay in days = total hospital length of stay divided by the number of patients by intent.

Figure 36

Number of patients with Injured Body Parts based on AIS

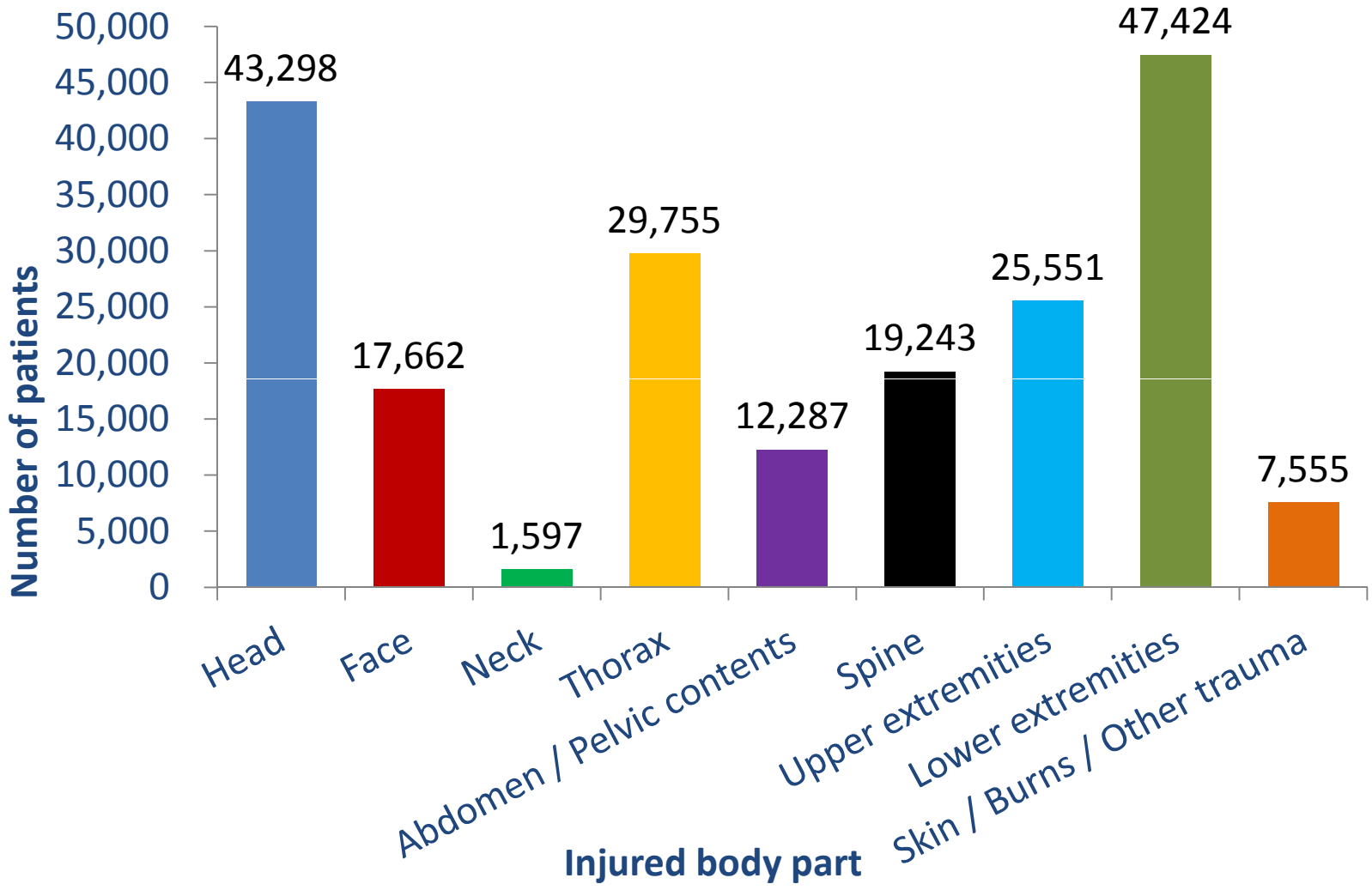


Figure 37A

Head Injury and maxAIS Score

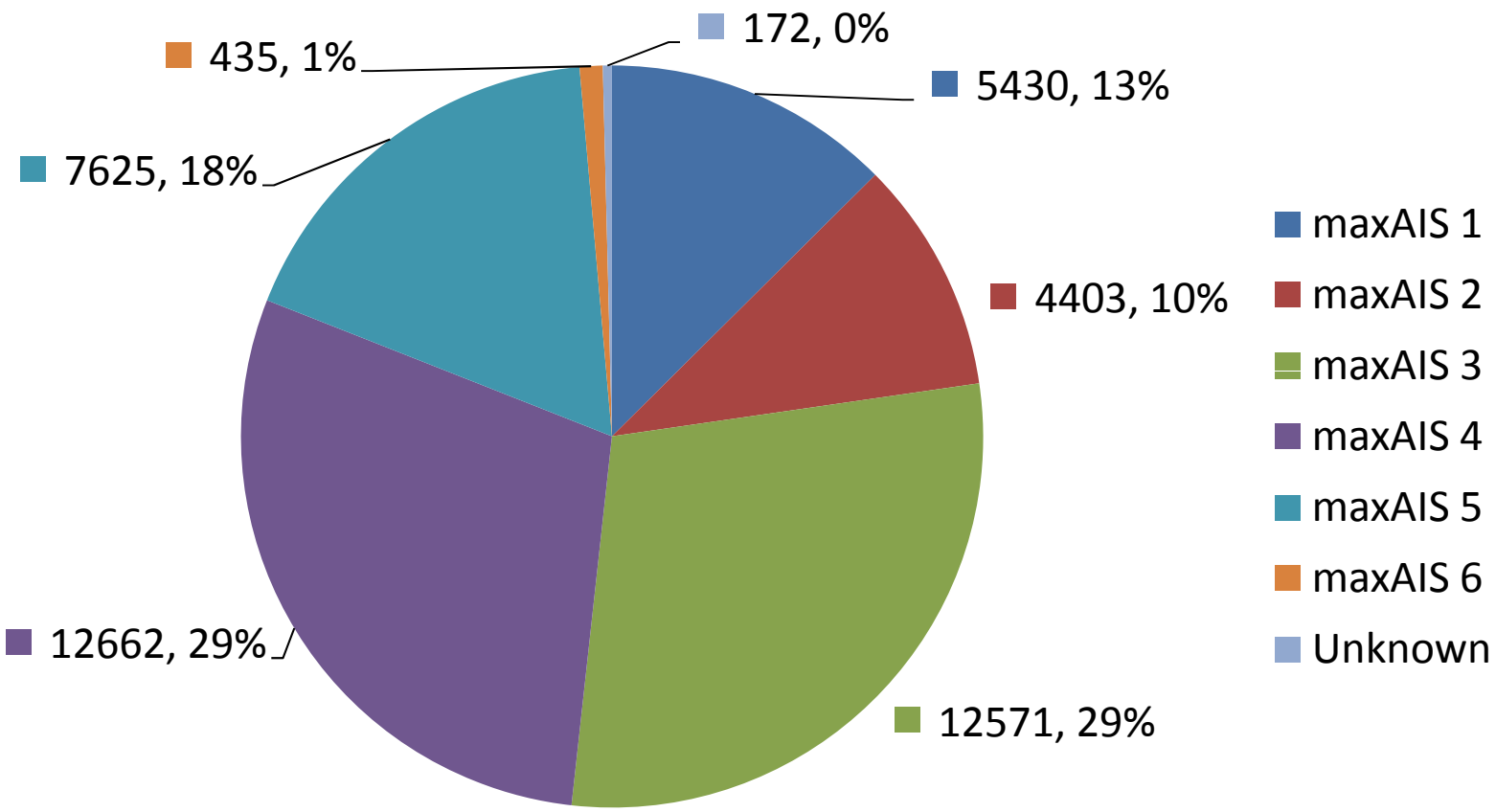


Figure 37B

Facial Injury and maxAIS Score

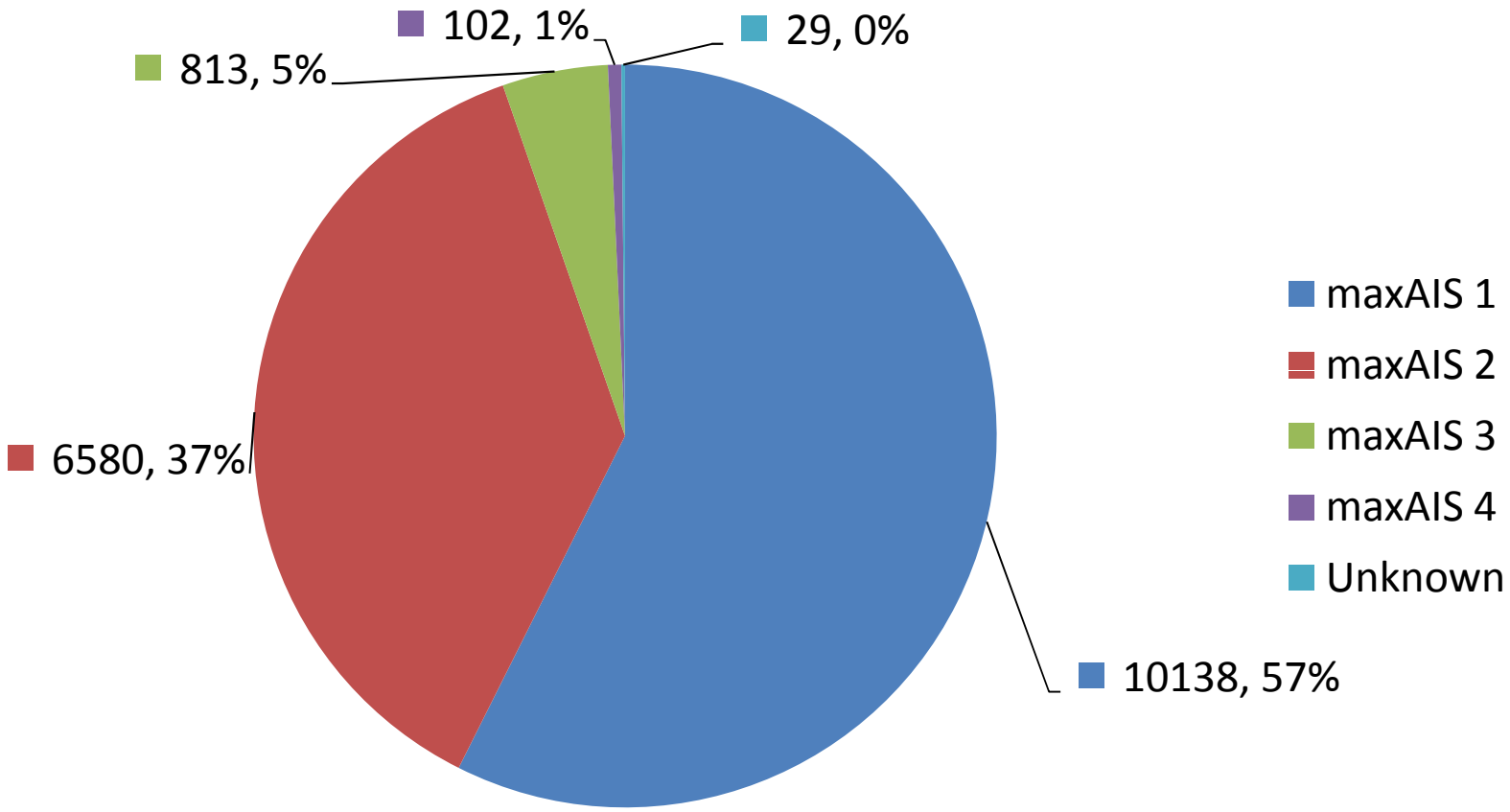


Figure 37C

Neck Injury and maxAIS Score

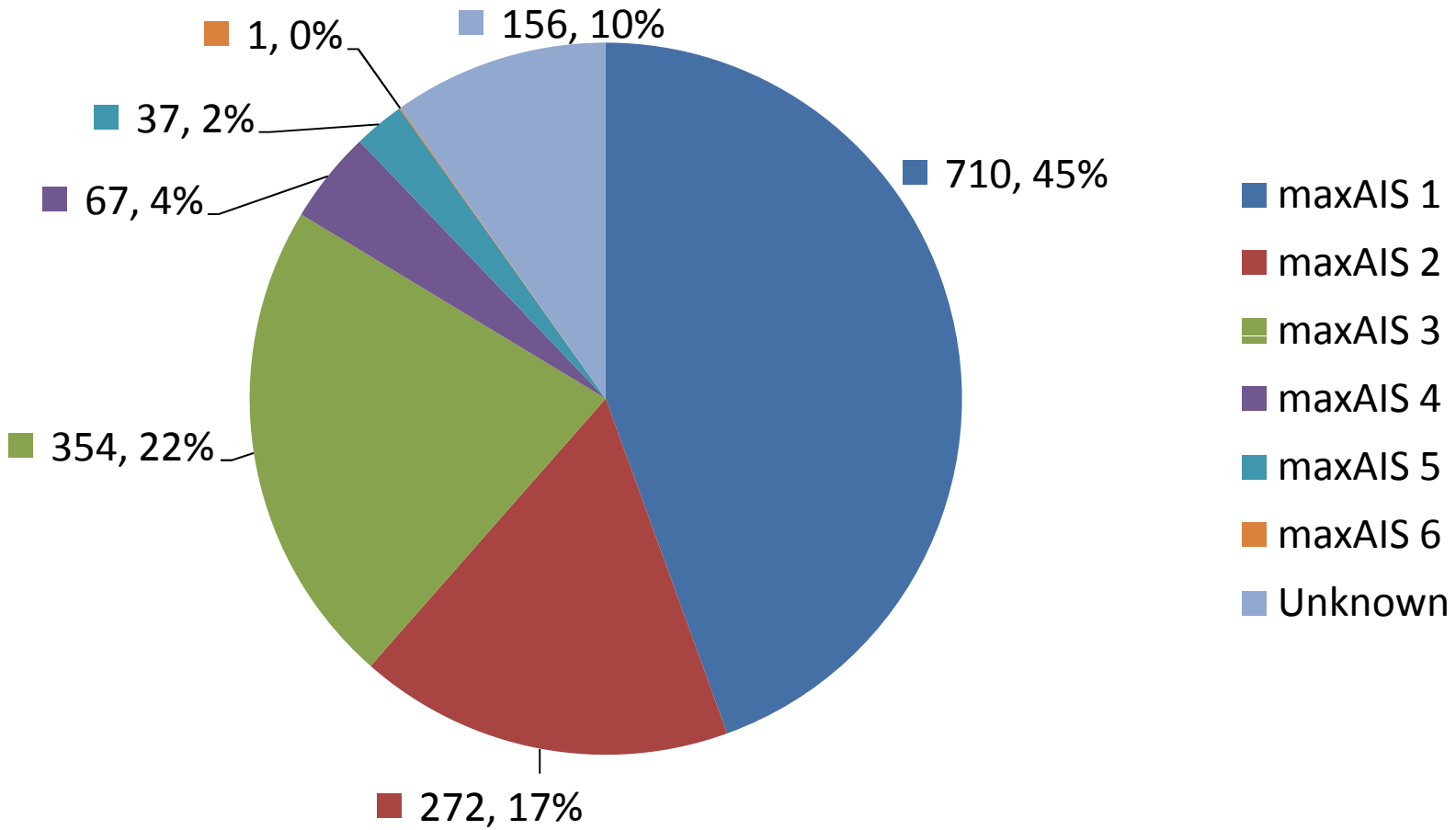


Figure 37D

Thoracic Injury and maxAIS Score

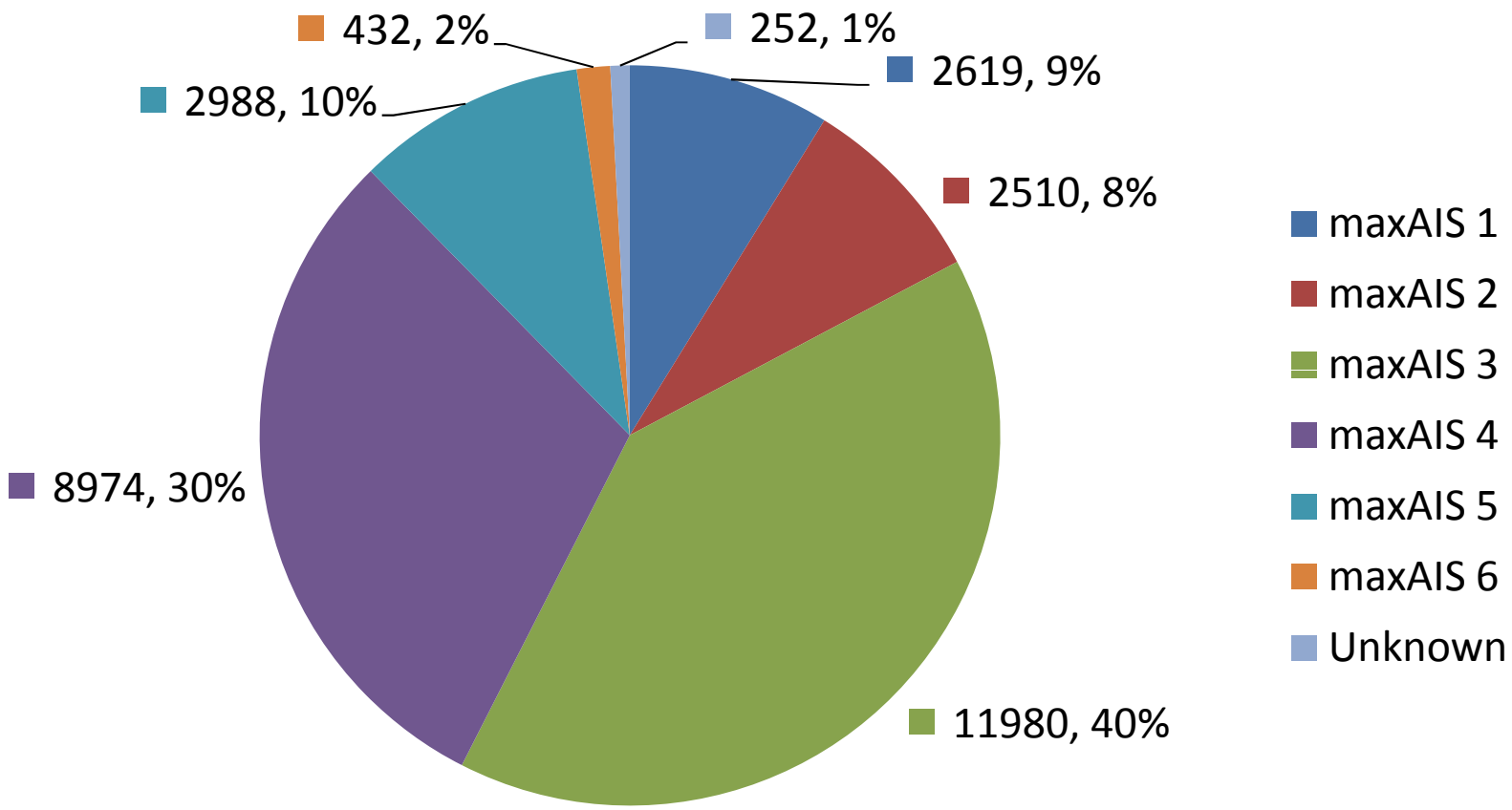


Figure 37E

Injury of Abdomen/Pelvic Contents and max AIS Score

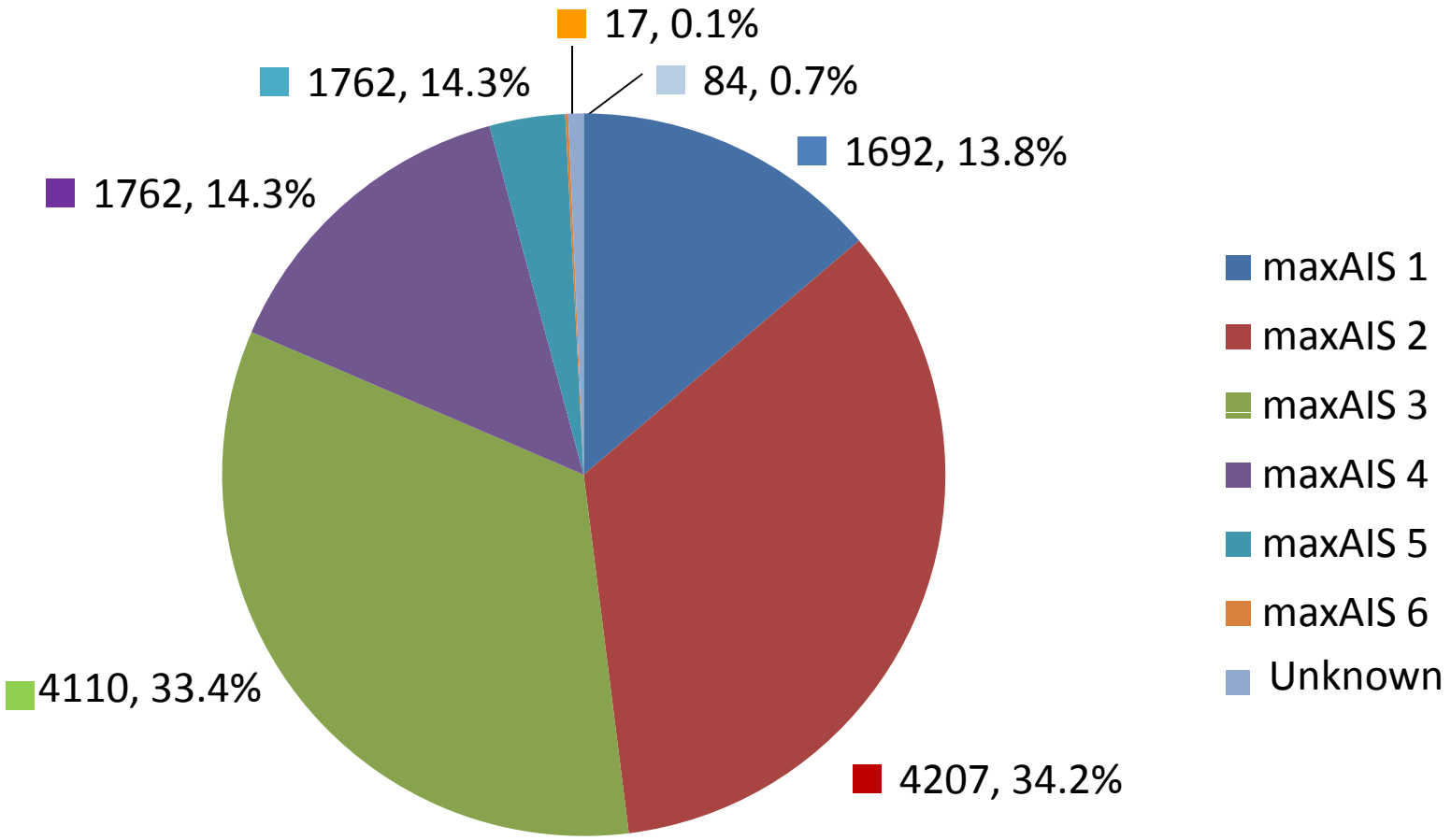


Figure 37F

Spinal Injury and max AIS Score

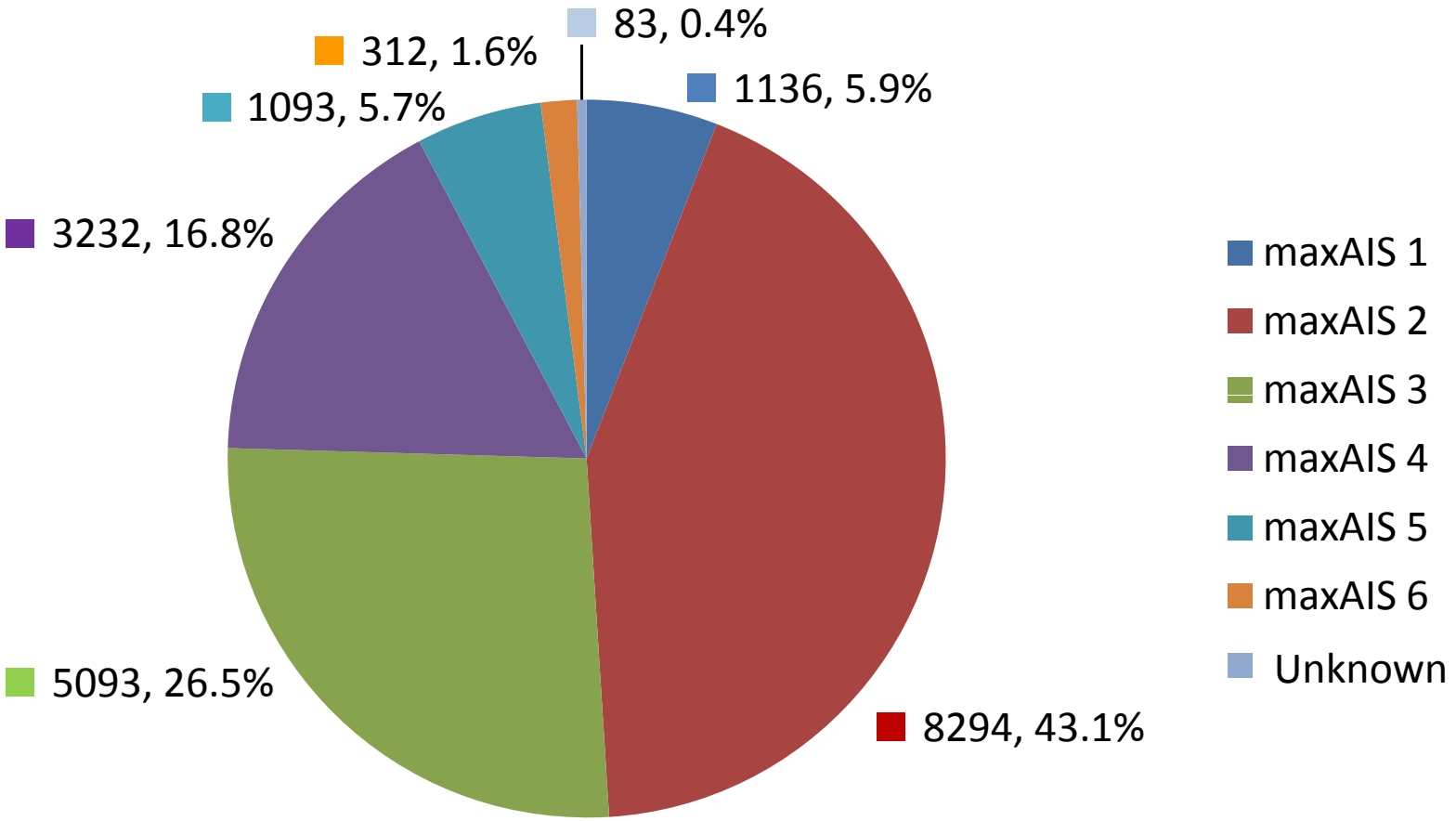


Figure 37G

Injury of Upper Extremities and max AIS Score

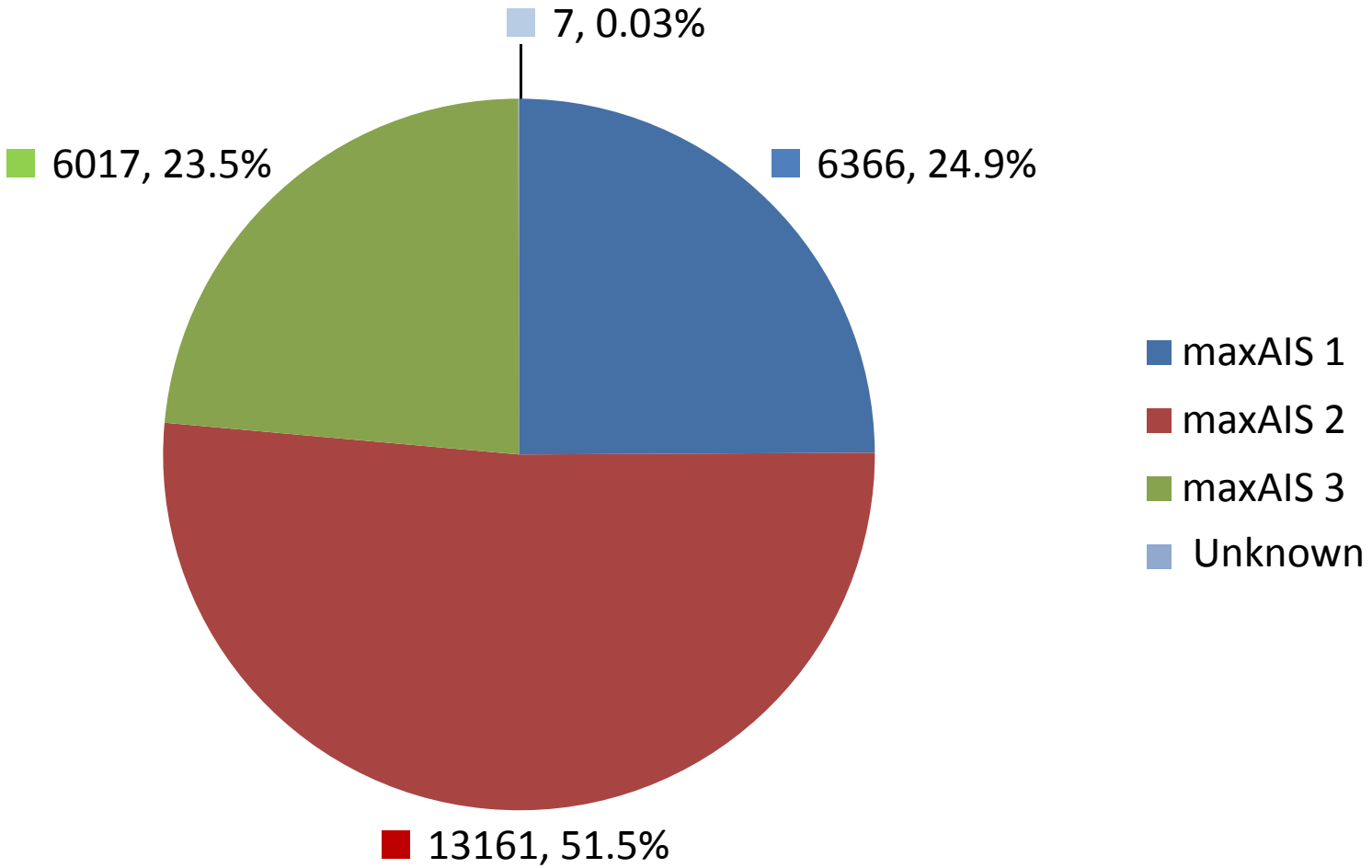


Figure 37H

Injury of Lower Extremities and max AIS Score

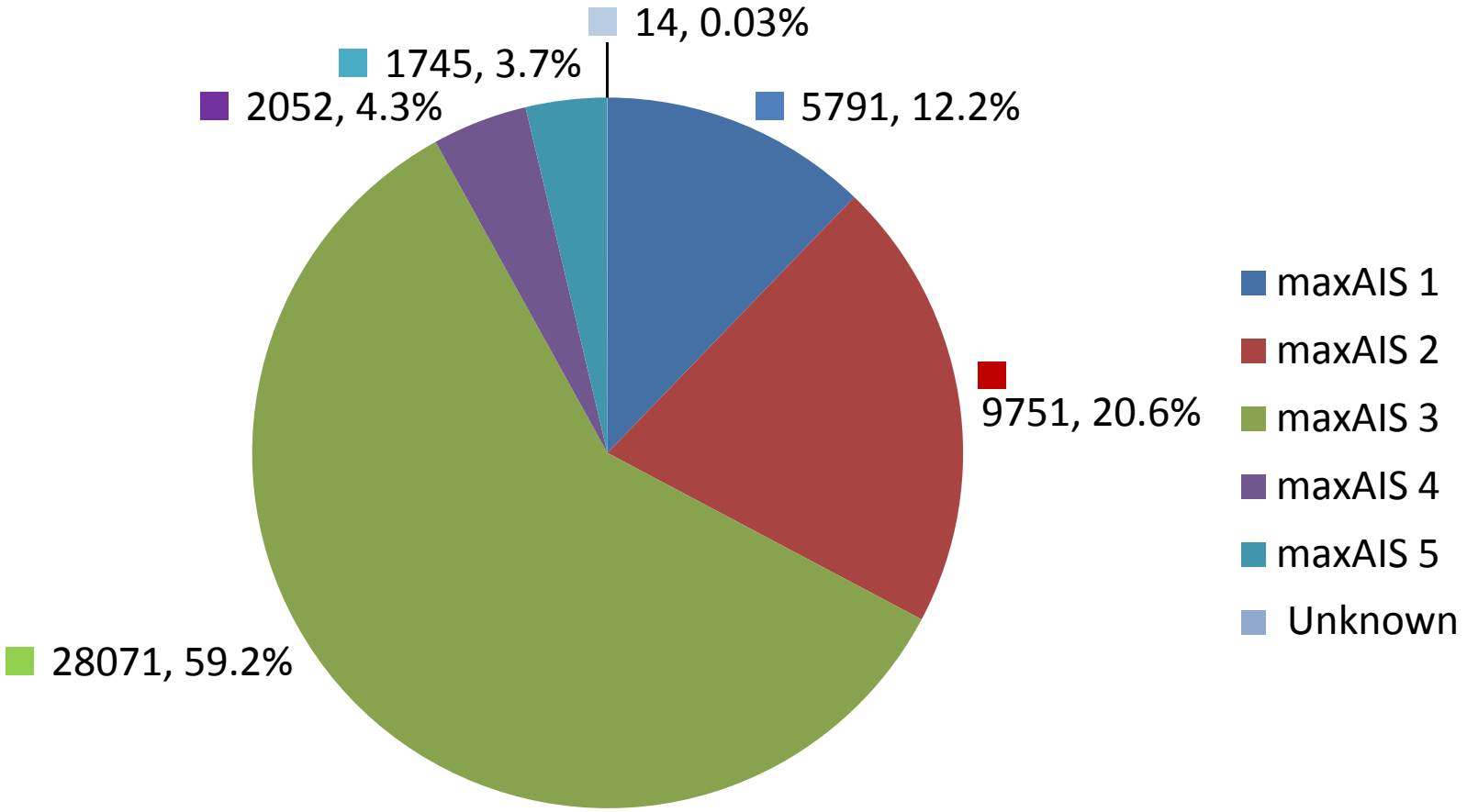


Figure 37I

Skin/Burns/Other Trauma and max AIS Score

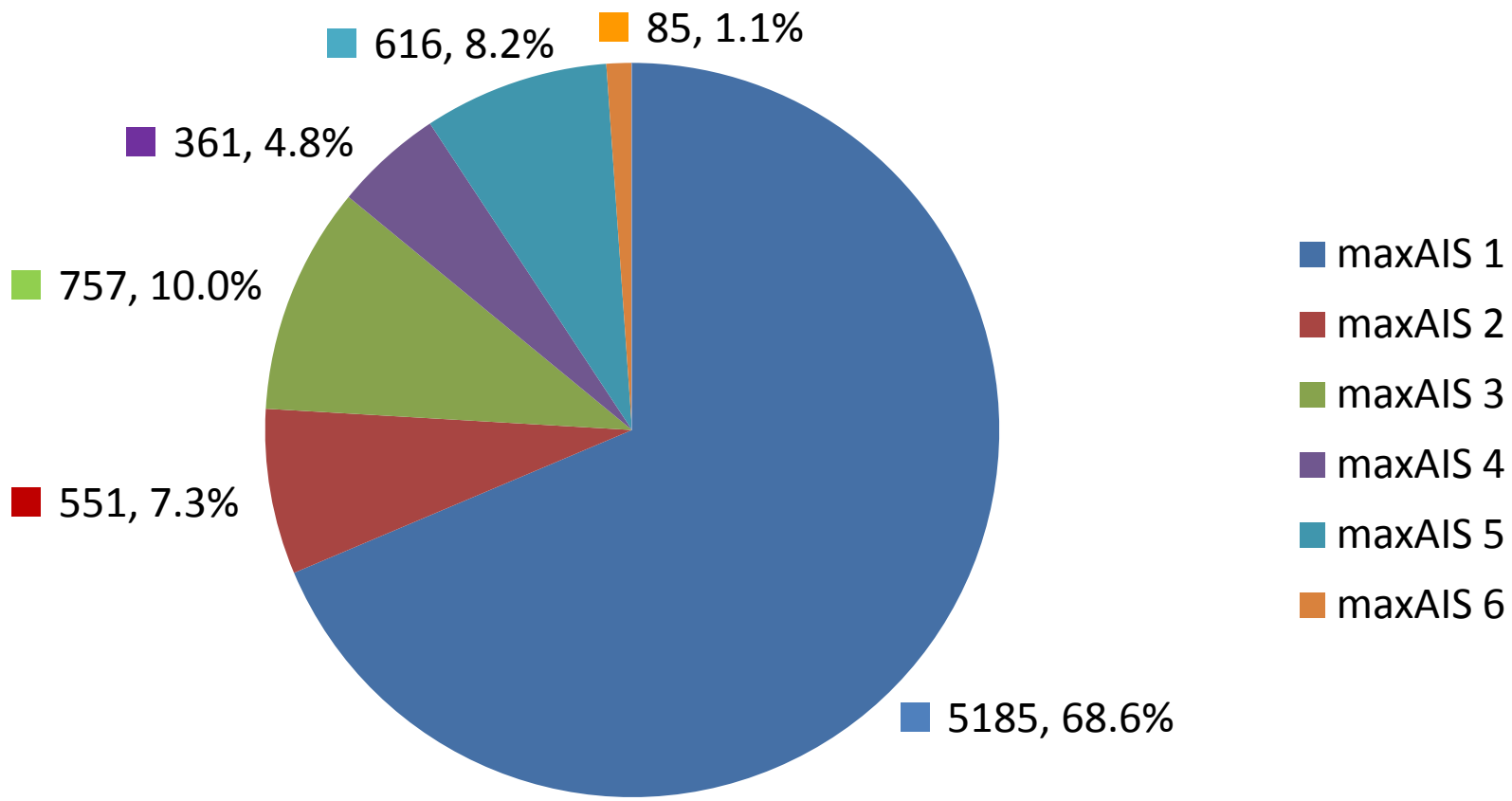
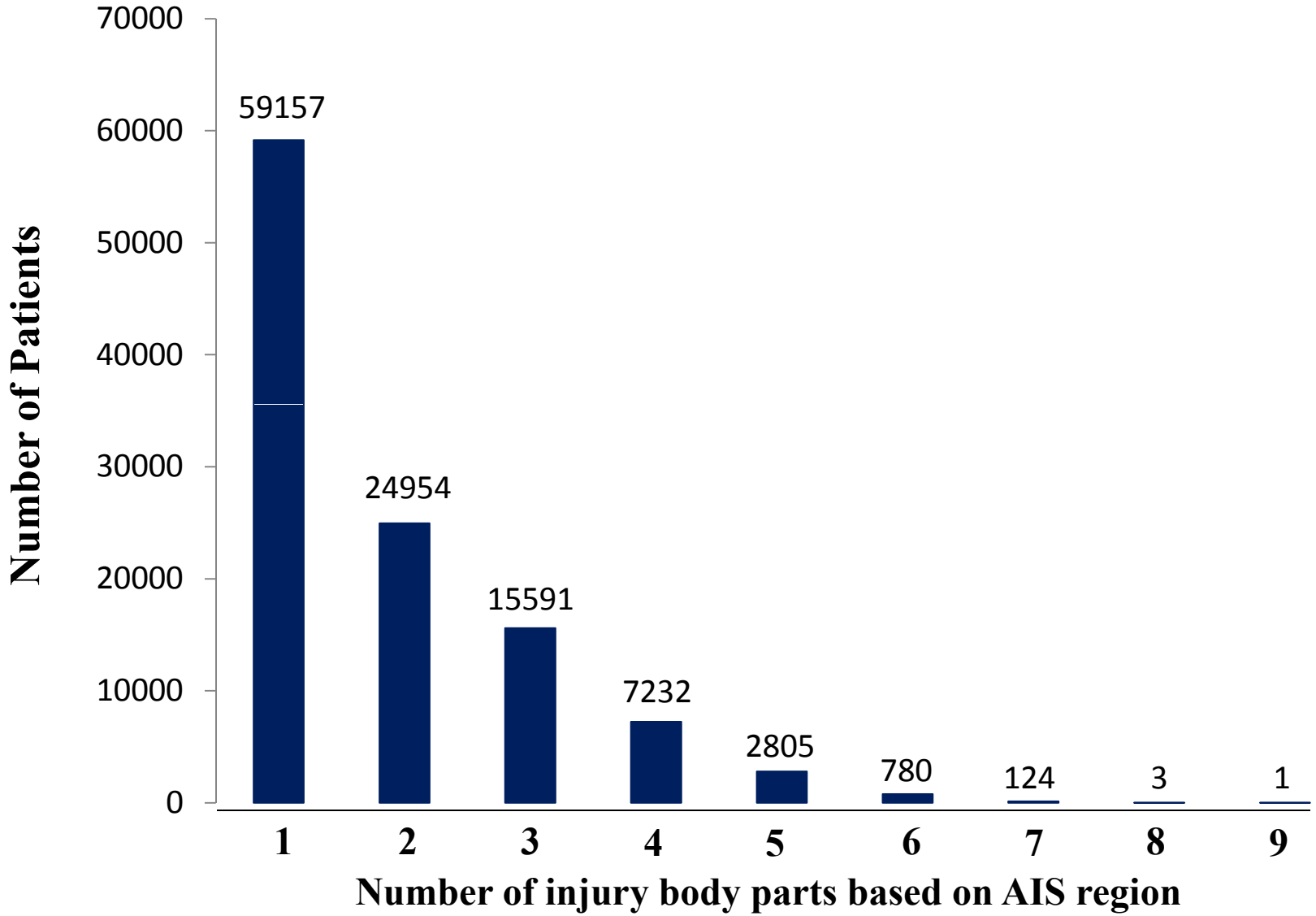


Figure 38

Number of Patients and Injured Body Parts based on AIS



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JAPAN TRAUMA DATA BANK

December 15, 2014

JAPAN TRAUMA DATA BANK REPORT 2014 (2009-2013)

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