

# **Japan Trauma Data Bank Report 2017 (2012-2016)**

## **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=264, 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  
Sapporo Tokushukai Hospital  
Hirosaki University School of Medicine & Hospital  
Aomori Prefectural Central Hospital  
Hachinohe City Hospital  
Iwate Medical University Hospital  
Iwate Prefectural Kuji Hospital  
Iwate Prefectural Central Hospital  
Osaki Citizen Hospital  
Tohoku University Hospital  
Sendai City Hospital  
Ishinomaki Red Cross Hospital  
Sendai Medical Center  
South Miyagi Medical Center  
Akita Red Cross Hospital  
Akita University Hospital  
Yamagata Prefectural Central Hospital  
Fukushima Medical University Hospital  
Ohta Nishinouchi Hospital  
Aizu Central Hospital  
Niigata City General Hospital  
Niigata University Medical & Dental Hospital  
Niigata Prefectural Shibata Hospital  
Ibaraki Seinan Medical Hospital  
Mito Medical Center  
University of Tsukuba Hospital  
Tsukuba Medical Center Hospital  
Ibaraki Prefectural Central Hospital  
Mito Saiseikai General 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  
Saitama Medical University Medical Center  
Kuki General Hospital  
Kavaguchi Municipal Medical Center

Dokkyo Medical University Koshigaya Hospital  
National Defense Medical College Hospital  
Fukaya Red Cross Hospital  
Funabashi Municipal Medical Center  
Juntendo University Urayasu Hospital  
Asahi General Hospital  
Nippon Medical School Chiba Hokusoh Hospital  
Chiba University Hospital  
Chiba Emergency Medical Center  
Matsudo City Hospital  
Kameda General Hospital  
Kimitsu Chuo Hospital  
Jikei University Kashiwa Hospital  
Tokyo Women's Medical University Yachiyo Medical Center  
Tokyobay UrayasuIchikawa Medical Center  
Chiba Rosai 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  
Tokyo Saiseikai Central Hospital  
National Center for Child Health and Development  
Japanese Red Cross Medical Center  
Shirahigebashi 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  
Ebina General Hospital  
Shin-Yurigaoka General Hospital  
Yamanashi Prefectural Central Hospital  
Aizawa Hospital  
Suwa Red Cross Hospital  
Iida Municipal Hospital  
Ina Central Hospital  
Saku Central Hospital Advanced Care Center  
Shinshu University Hospital  
Nagano Red Cross Hospital  
Nagano Municipal Hospital  
Gero City Kanayama Hospital  
Chuno Kosei Hospital  
Gifu University Hospital  
Takayama Red Cross Hospital  
Ogaki Municipal Hospital  
Numazu City Hospital  
Shizuoka Red Cross Hospital  
Shizuoka Saiseikai General Hospital  
Juntendo University Shizuoka Hospital  
Seirei Mikatahara General Hospital  
Shizuoka General Hospital  
Shizuoka Tokushukai Hospital  
Chutoen General Medical Center  
Fujieda Municipal General Hospital

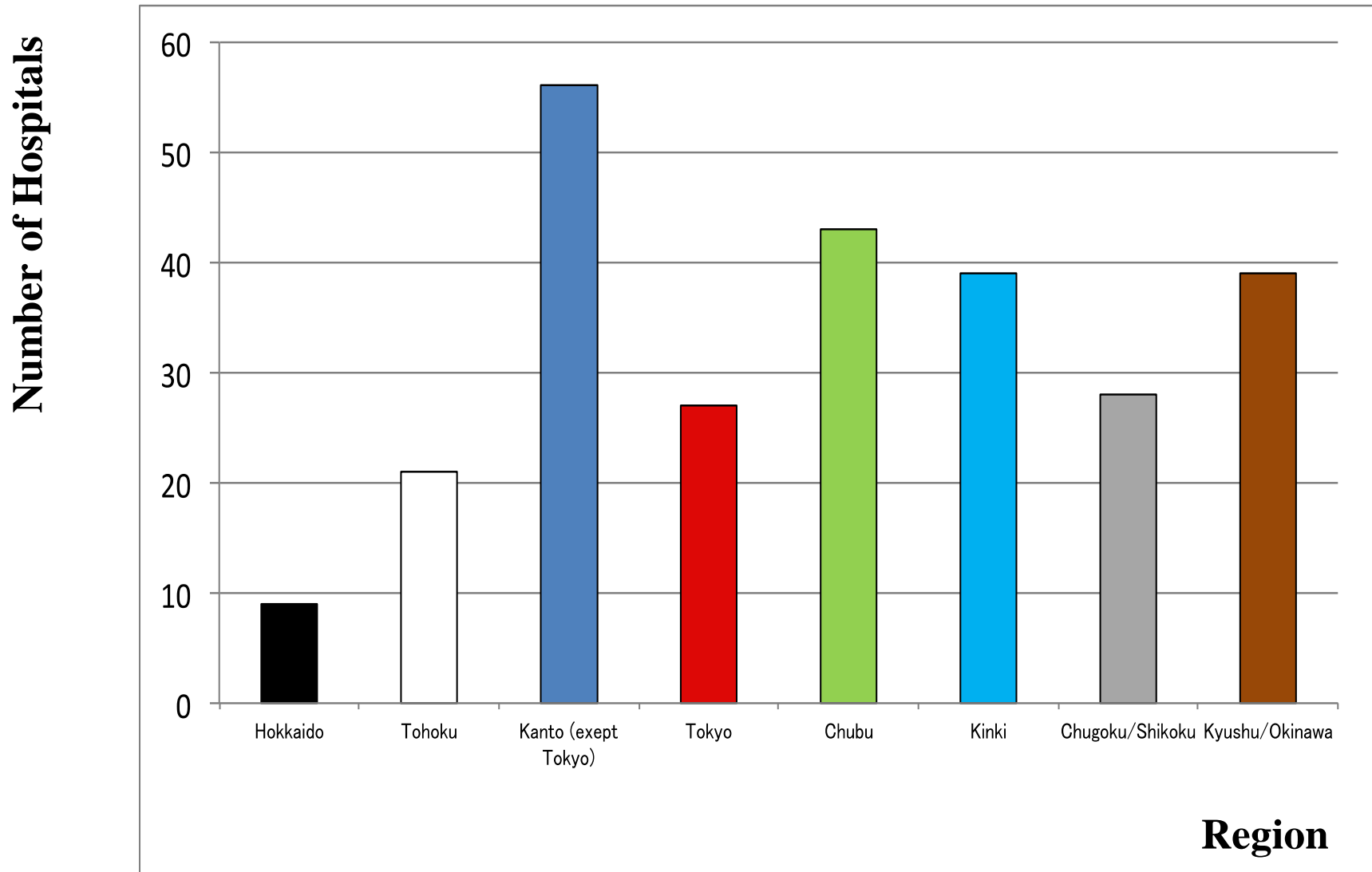
The JTDB report 2017 was published using cases of only 61 hospitals which accepted trauma patients' registry in each ethical committee before Sep. 1<sup>st</sup>, 2017.

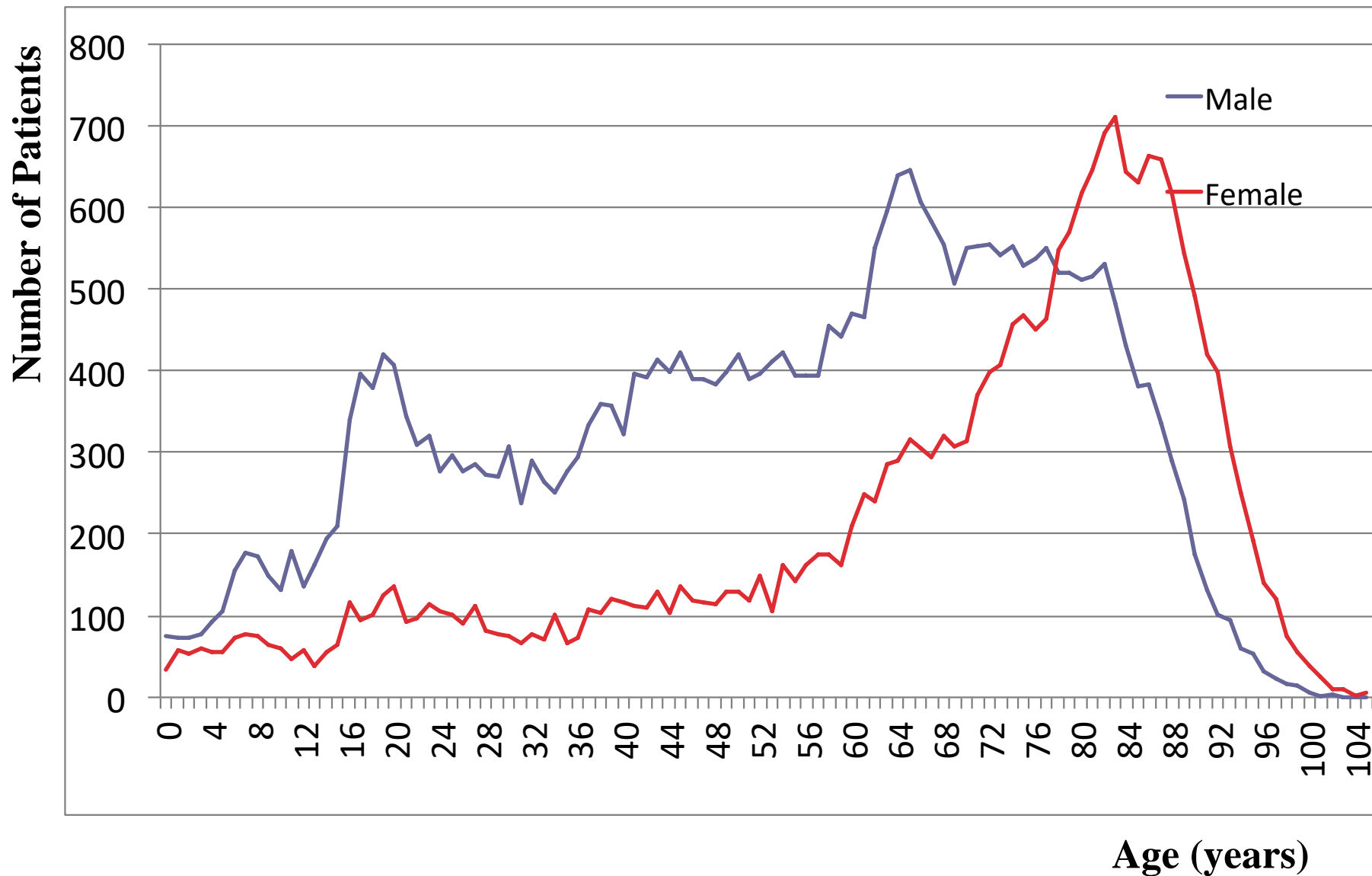
Figure  
1B**Names of All Hospitals Submitting Data to the JTDB. (N=264, Part 2)**

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  
 Kasugai Municipal Hospital  
 Komaki City Hospital  
 Mie University Hospital  
 Kouseiren Takaoka Hospital  
 Tonami General Hospital  
 Toyama Prefectural Central Hospital  
 Toyama University Hospital  
 Kanazawa University Hospital  
 Ishikawa Prefectural Central Hospital  
 Fukui Prefectural Hospital  
 University of Fukui 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  
 Sakai City Medical Center

Osaka Police 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  
 Shimane 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  
 Tokushima Red Cross Hospital  
 Taoka Hospital  
 Kagawa University Hospital  
 Kagawa Prefectural Central Hospital  
 Ehime Prefectural Central Hospital  
 Ehime University Hospital  
 Ehime Prefectural Niihama 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  
 Shinyukhashi Hospital  
 Saga University Hospital  
 Saga-ken Medical Center 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  
 Yonemori Hospital  
 Okinawa Prefectural Chubu Hospital  
 Okinawa Prefectural Hokubu Hospital  
 Ryukyu University Hospital  
 Urasoe General Hospital  
 Nakagami Hospital  
 Tomishiro Central Hospital  
 Okinawa Prefectural Nanbu Medical Center / Nanbu Child Medical Center

**Figure  
2****Number of Hospitals Submitting to the JTDB by Region.**

**Figure  
4****Patients by Age and Gender.**

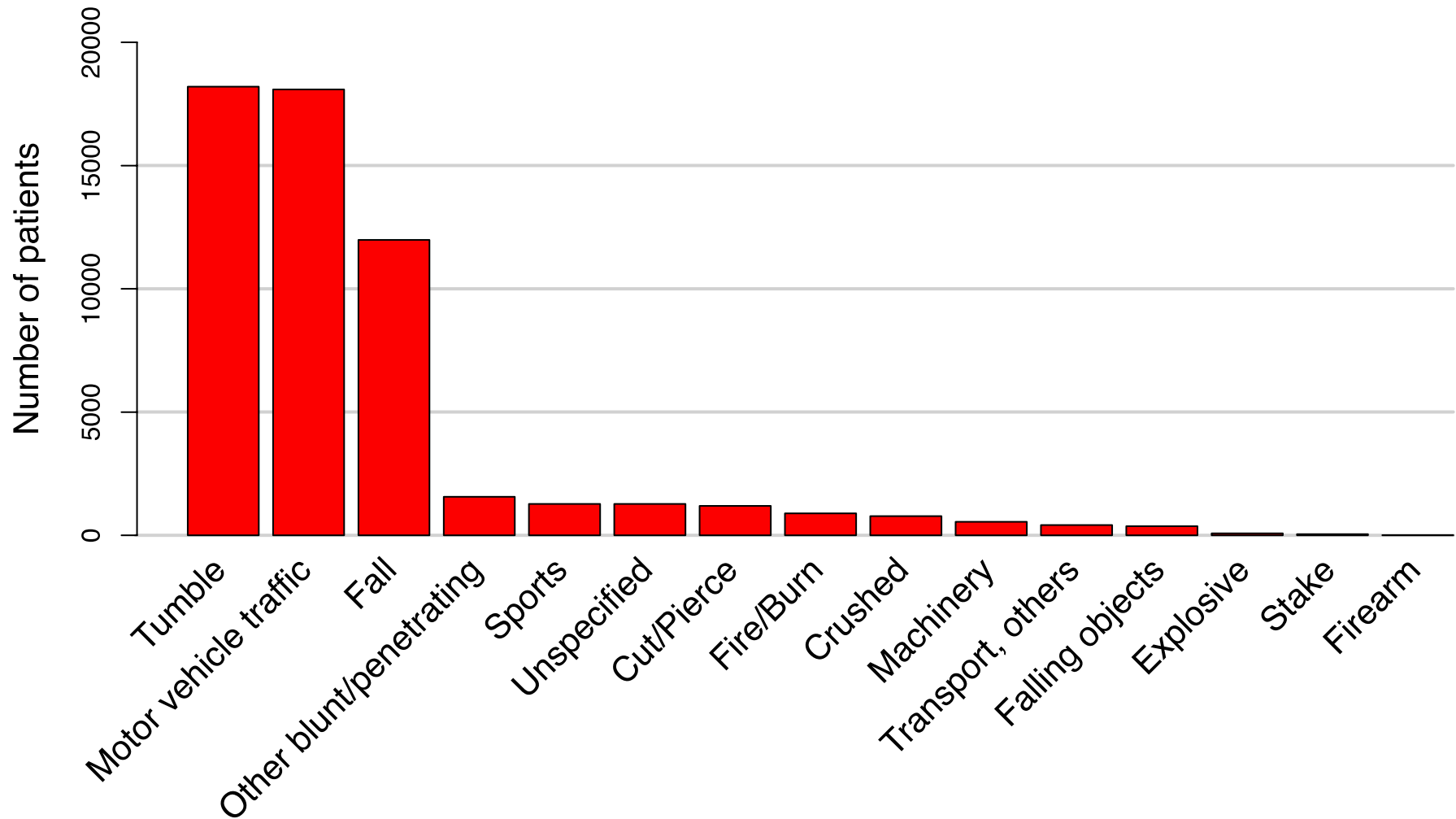
**Figure  
5****Patients by mechanism of injury**

Figure  
5**Patients by mechanism of injury**

<b>Mechanism of injury</b>	<b>Patients (n)</b>	<b>Patients by mechanism of injury (%)</b>
Tumble	18199	32.1
Motor vehicle traffic	18089	31.9
Fall	11985	21.1
Unspecified	1561	2.8
Sports	1271	2.2
Others	1267	2.2
Cut/Pierce	1193	2.1
Fire/Burn	886	1.6
Crushed	773	1.4
Machinery	548	1.0
Transport, others	413	0.7
Falling objects	368	0.6
Explosive	75	0.1
Stake	41	0.1
Firearm	7	0.0

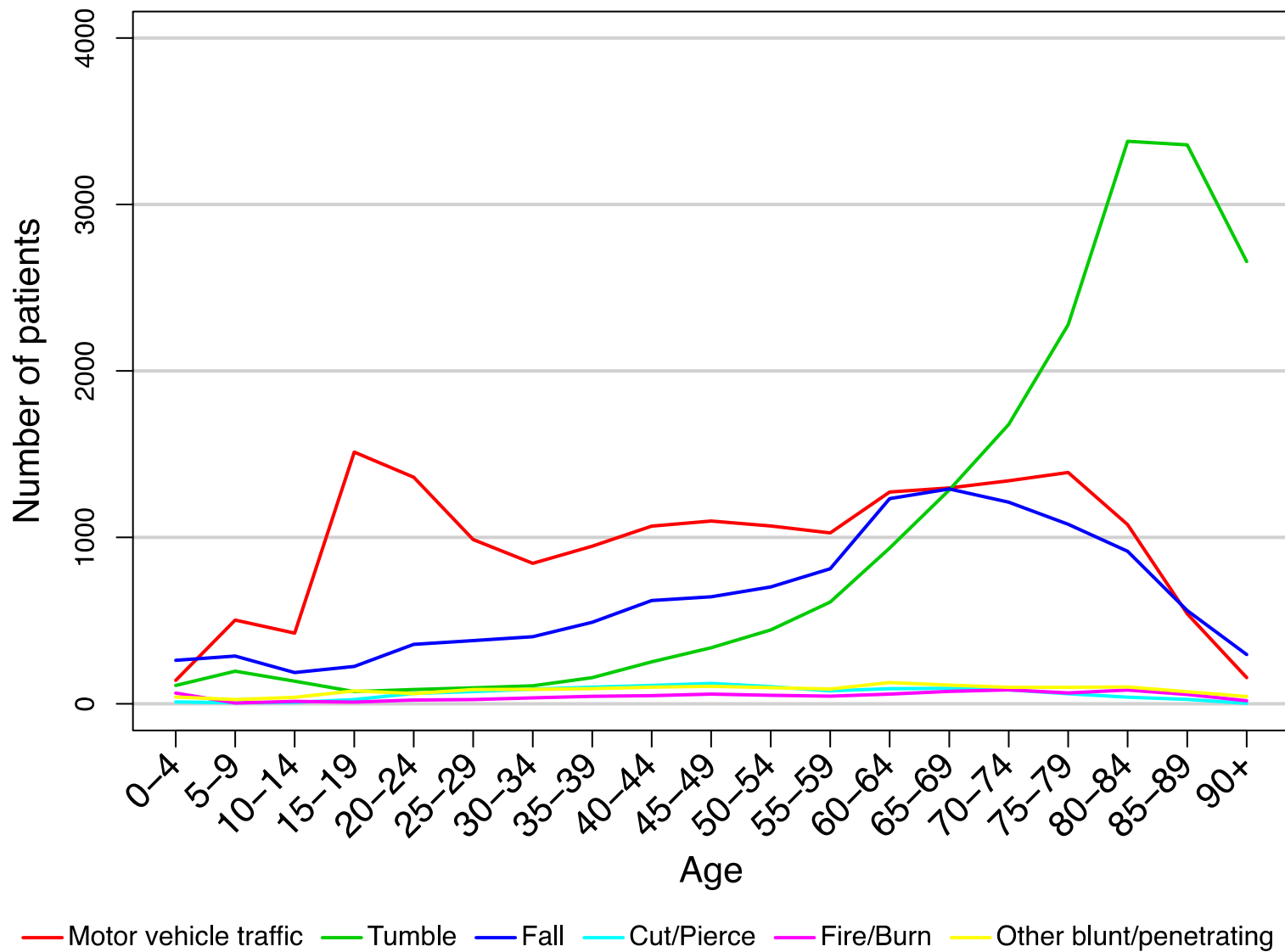
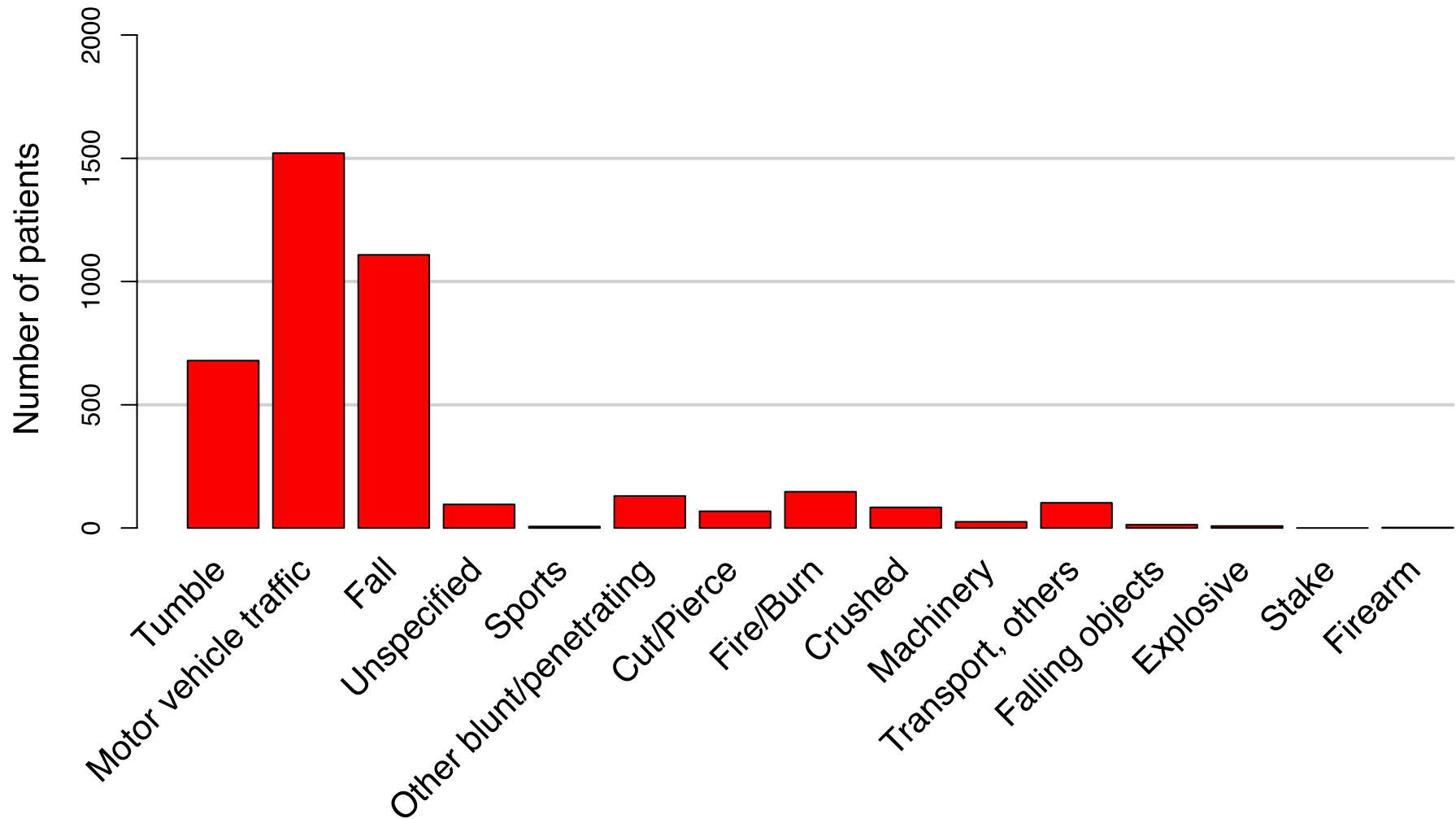
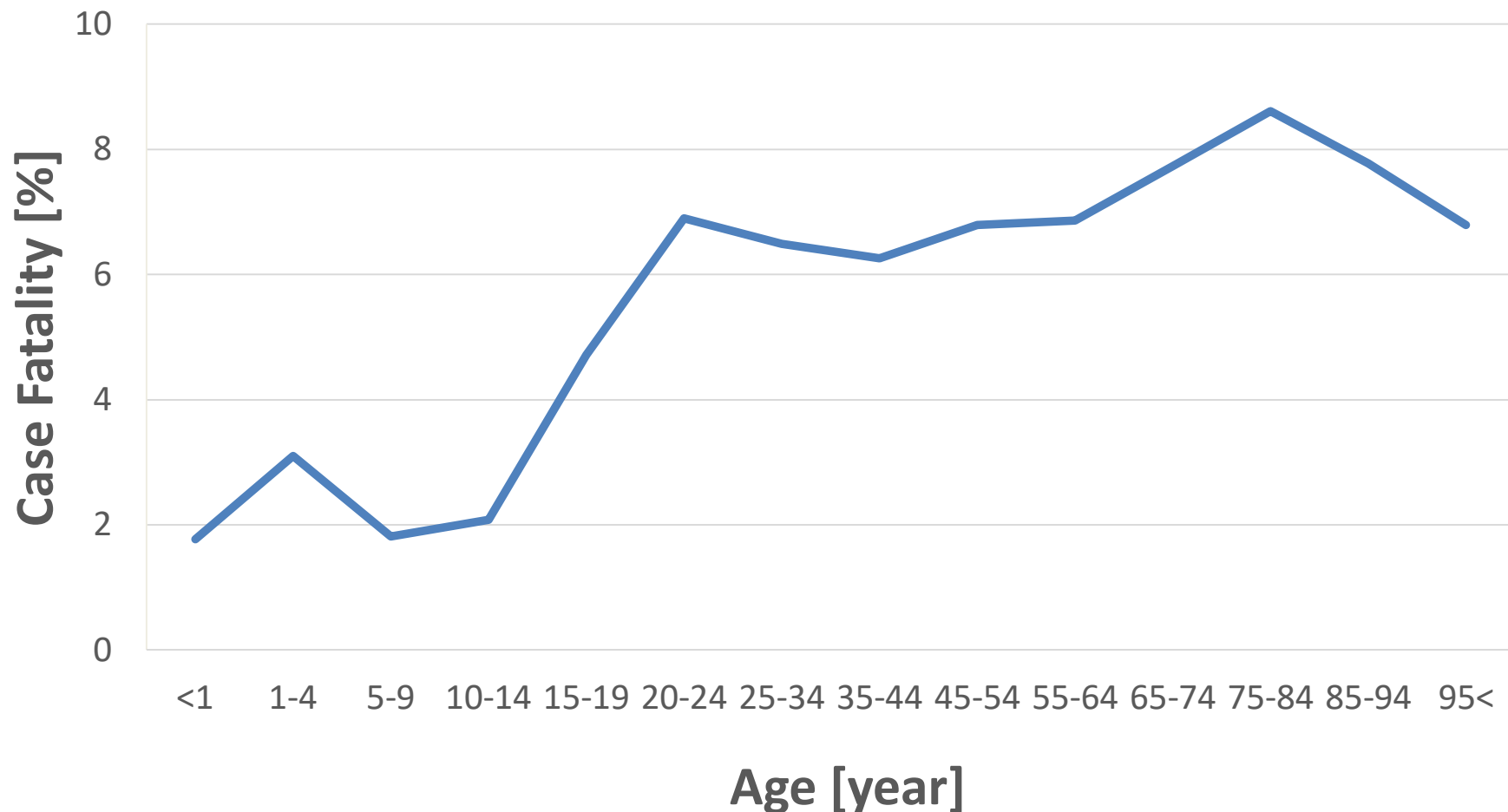
**Figure  
6****Mechanism of injury by age**



Figure  
6**Mechanism of injury by age**

Range of age, yr	Motor vehicle traffic, n (%)	Tumble, n (%)	Fall, n (%)	Cut/Pierce, n (%)	Fire/Burn, n (%)	Others, n (%)
0-4	141 (0.8)	111 (0.6)	262 (2.2)	12 (1.0)	65 (7.3)	41 (2.6)
5-9	503 (2.8)	196 (1.1)	287 (2.4)	7 (0.6)	5 (0.6)	26 (1.7)
10-14	425 (2.3)	136 (0.7)	188 (1.6)	9 (0.8)	15 (1.7)	39 (2.5)
15-19	1513 (8.4)	74 (0.4)	225 (1.9)	26 (2.2)	11 (1.2)	78 (5.0)
20-24	1362 (7.5)	86 (0.5)	358 (3.0)	63 (5.3)	23 (2.6)	62 (4.0)
25-29	987 (5.5)	96 (0.5)	380 (3.2)	74 (6.2)	26 (2.9)	86 (5.5)
30-34	844 (4.7)	109 (0.6)	404 (3.4)	88 (7.4)	36 (4.1)	87 (5.6)
35-39	947 (5.2)	158 (0.9)	490 (4.1)	100 (8.4)	45 (5.1)	91 (5.8)
40-44	1068 (5.9)	252 (1.4)	621 (5.2)	111 (9.3)	49 (5.5)	100 (6.4)
45-49	1098 (6.1)	337 (1.9)	643 (5.4)	123 (10.3)	59 (6.7)	106 (6.8)
50-54	1069 (5.9)	444 (2.4)	702 (5.9)	103 (8.6)	51 (5.8)	97 (6.2)
55-59	1027 (5.7)	612 (3.4)	812 (6.8)	78 (6.5)	46 (5.2)	89 (5.7)
60-64	1273 (7.0)	936 (5.1)	1233 (10.3)	91 (7.6)	59 (6.7)	128 (8.2)
65-69	1297 (7.2)	1285 (7.1)	1291 (10.8)	93 (7.8)	75 (8.5)	113 (7.2)
70-74	1340 (7.4)	1679 (9.2)	1212 (10.1)	84 (7.0)	84 (9.5)	99 (6.3)
75-79	1390 (7.7)	2278 (12.5)	1079 (9.0)	61 (5.1)	66 (7.4)	99 (6.3)
80-84	1077 (6.0)	3380 (18.6)	917 (7.7)	40 (3.4)	83 (9.4)	101 (6.5)
85-89	541 (3.0)	3359 (18.5)	561 (4.7)	27 (2.3)	56 (6.3)	73 (4.7)
90+	158 (0.9)	2658 (14.6)	296 (2.5)	3 (0.3)	19 (2.1)	44 (2.8)
Unspecified	29 (0.2)	13 (0.1)	24 (0.2)	0 (0.0)	13 (1.5)	2 (0.1)
Total	18089 (100.0)	18199 (100.0)	11985 (100.0)	1193 (100.0)	886 (100.0)	1561 (100.0)

**Figure  
7****Death 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)**

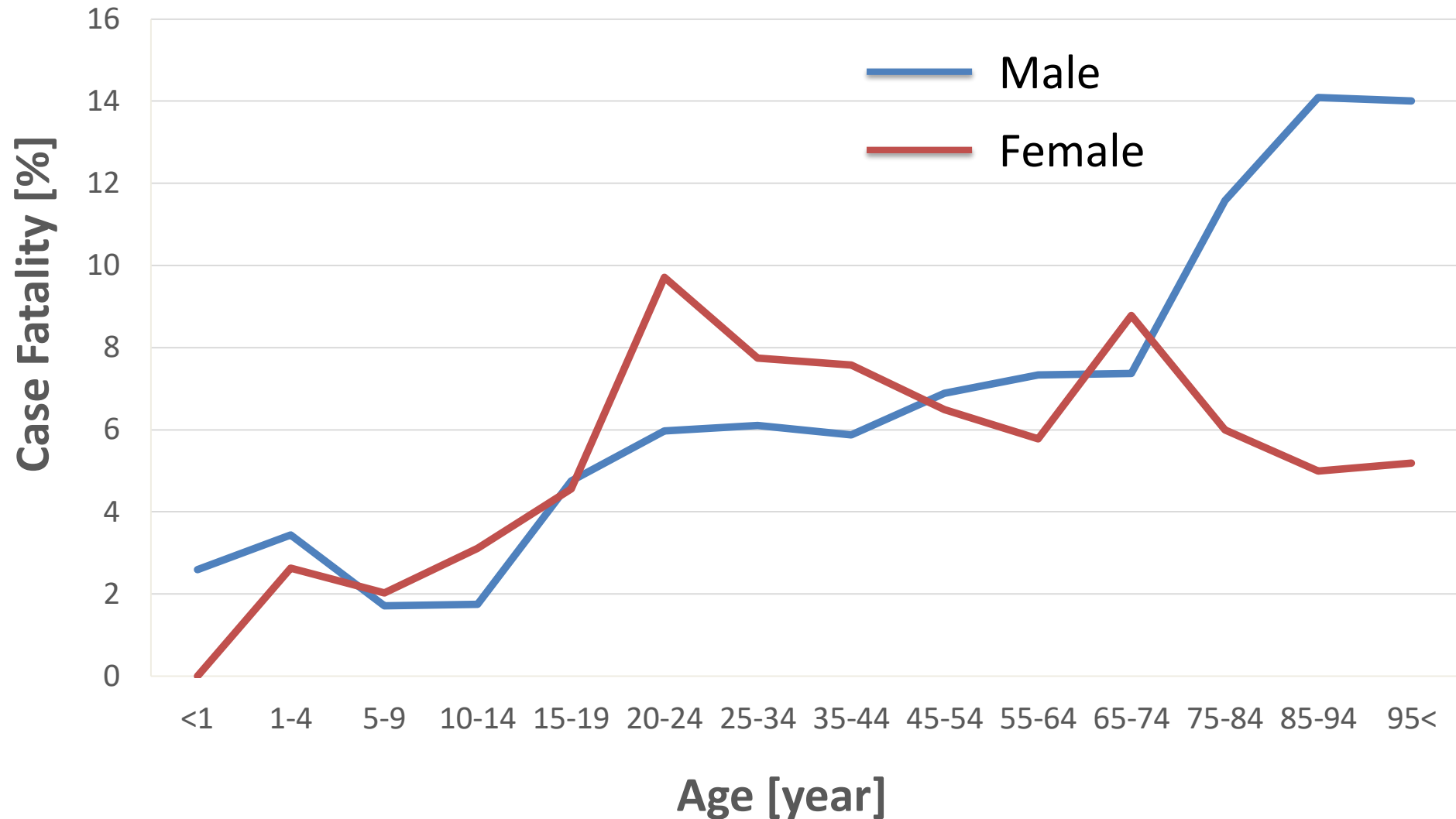
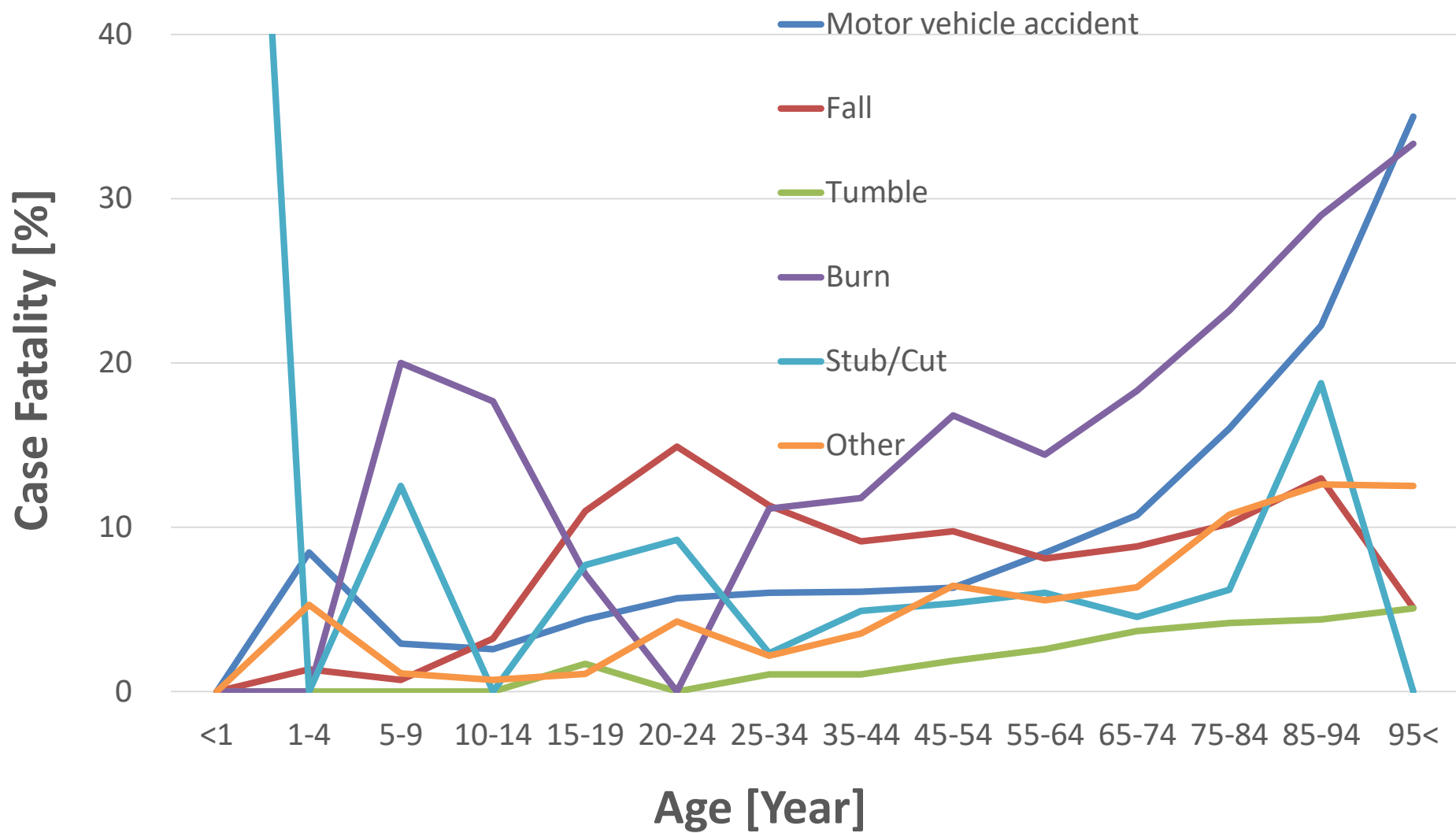
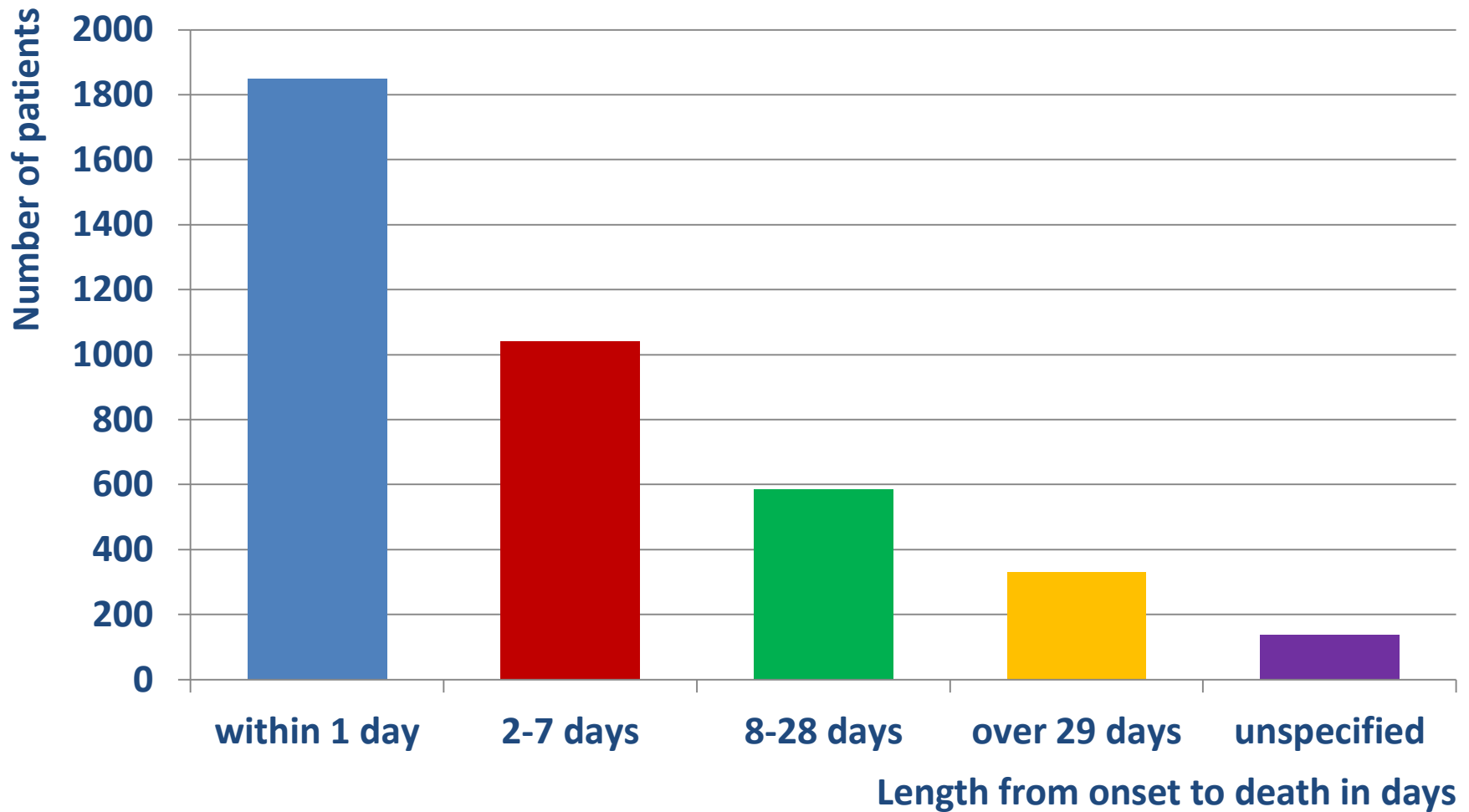
**Figure  
9****Case Fatality by age and gender**

Figure  
10**Case Fatality by mechanism of injury and age**

**Figure  
11A****Proportional distribution of length from onset to facility n = 3,946**

The category within 1 day after onset includes CPAOA patients.

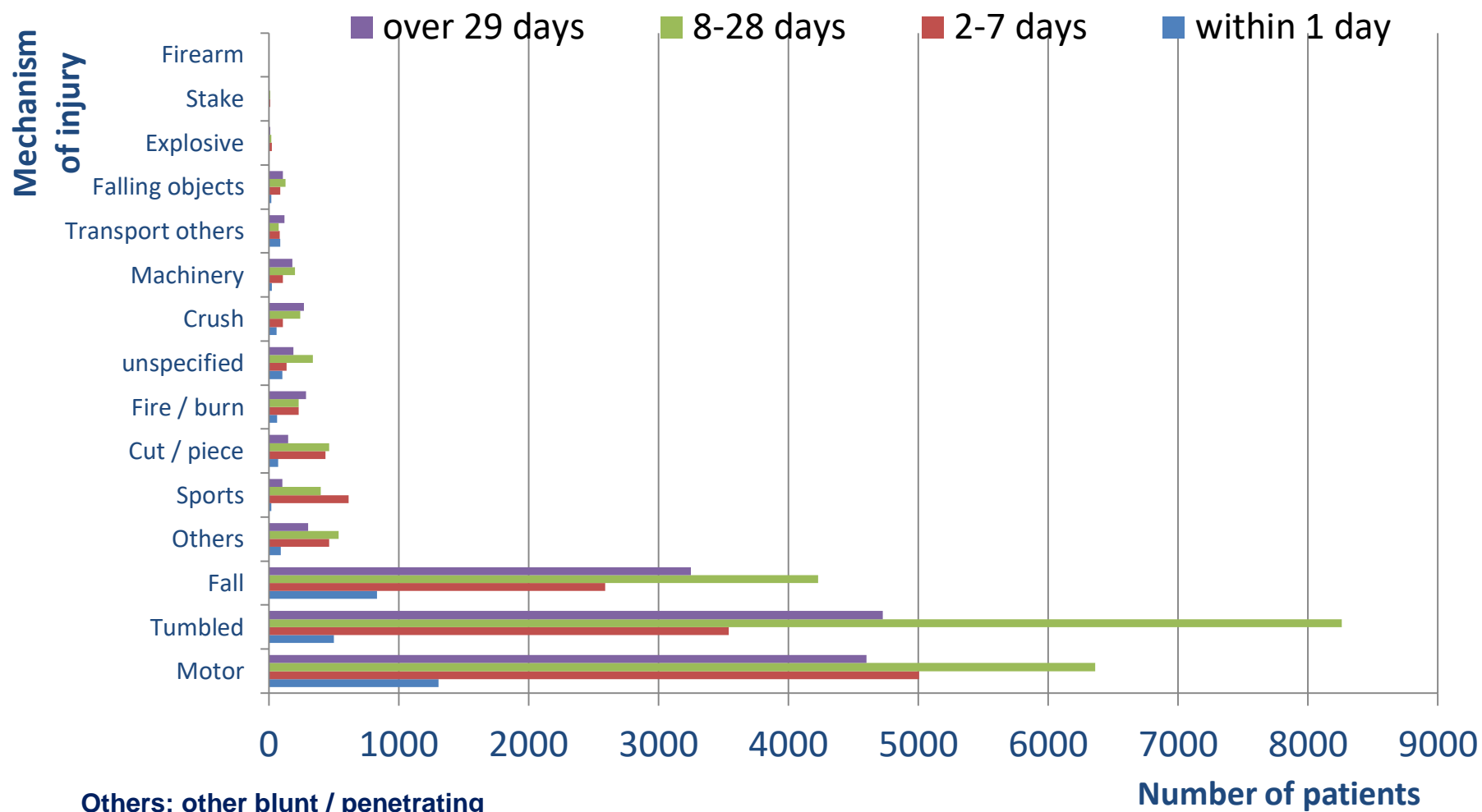
**Figure  
11B****Proportional distribution of length from onset to fatality,  
grouped by mechanism of injury. n = 52,815**

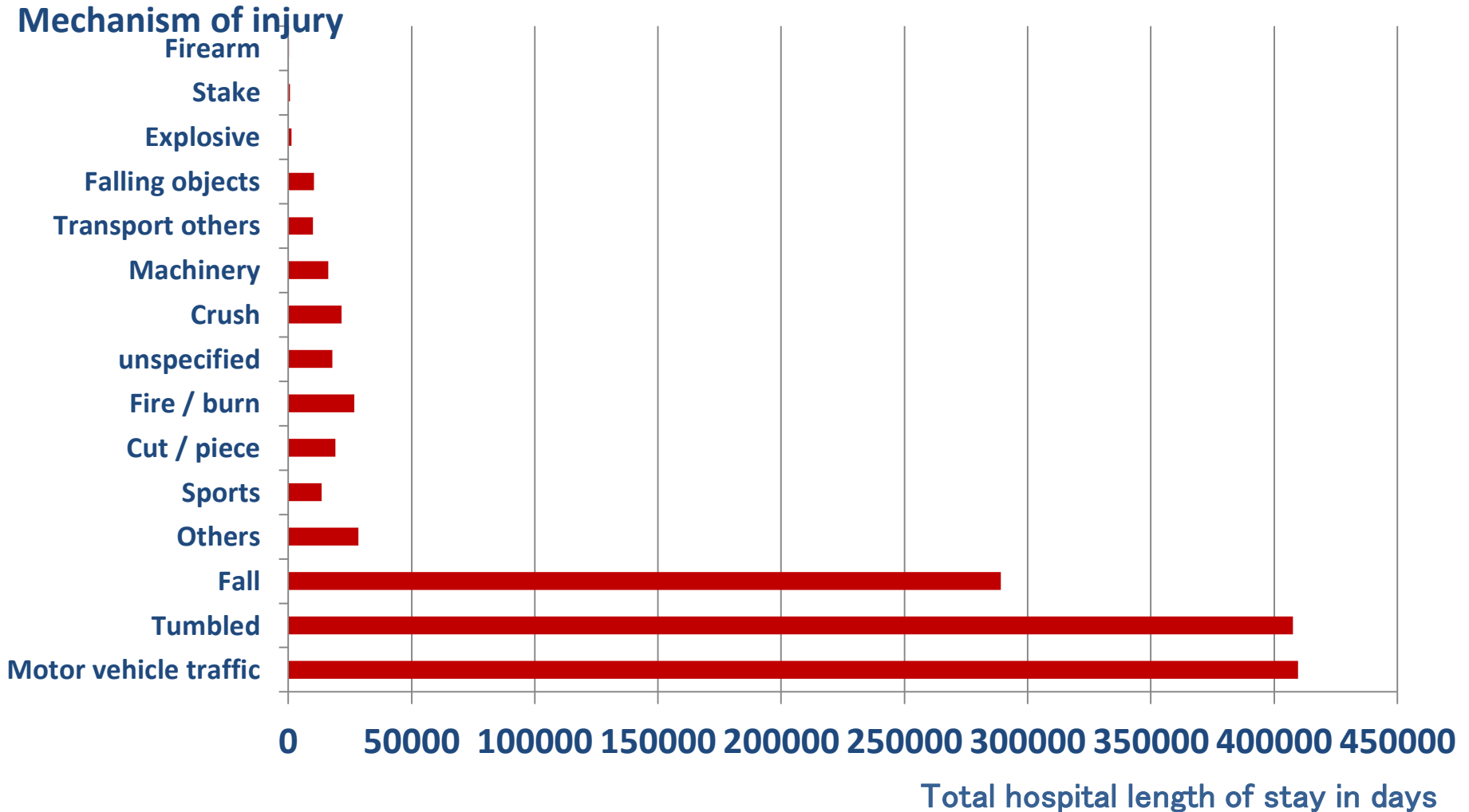
Table  
11B

# Proportional distribution of length from onset to fatality, grouped by mechanism of injury.    n = 52,815

Mechanism Length of hospital days	Motor vehicle traffic	Tumbled	Fall	Other blunt/penet rating	Sports	Cut / piece	Fire / burn	unspecified
within 1 day	1308	502	834	91	21	72	65	103
2 - 7 days	5007	3540	2950	466	616	436	229	137
8 – 28 days	6361	8260	4228	536	401	463	228	339
over 29 days	4601	4729	3251	303	103	151	288	190
Total	17277	17031	11263	1396	1141	1122	810	769

	Crush	Machinery	Transport others	Falling objects	Explosive	Stake	Firearm	Total
within 1 day	59	22	89	18	2	0	2	3188
2 - 7 days	110	107	85	87	23	12	1	13806
8 – 28 days	242	203	77	128	21	13	2	21502
over 29 days	271	181	121	110	13	5	2	14319
Total	682	513	372	343	59	30	7	52815

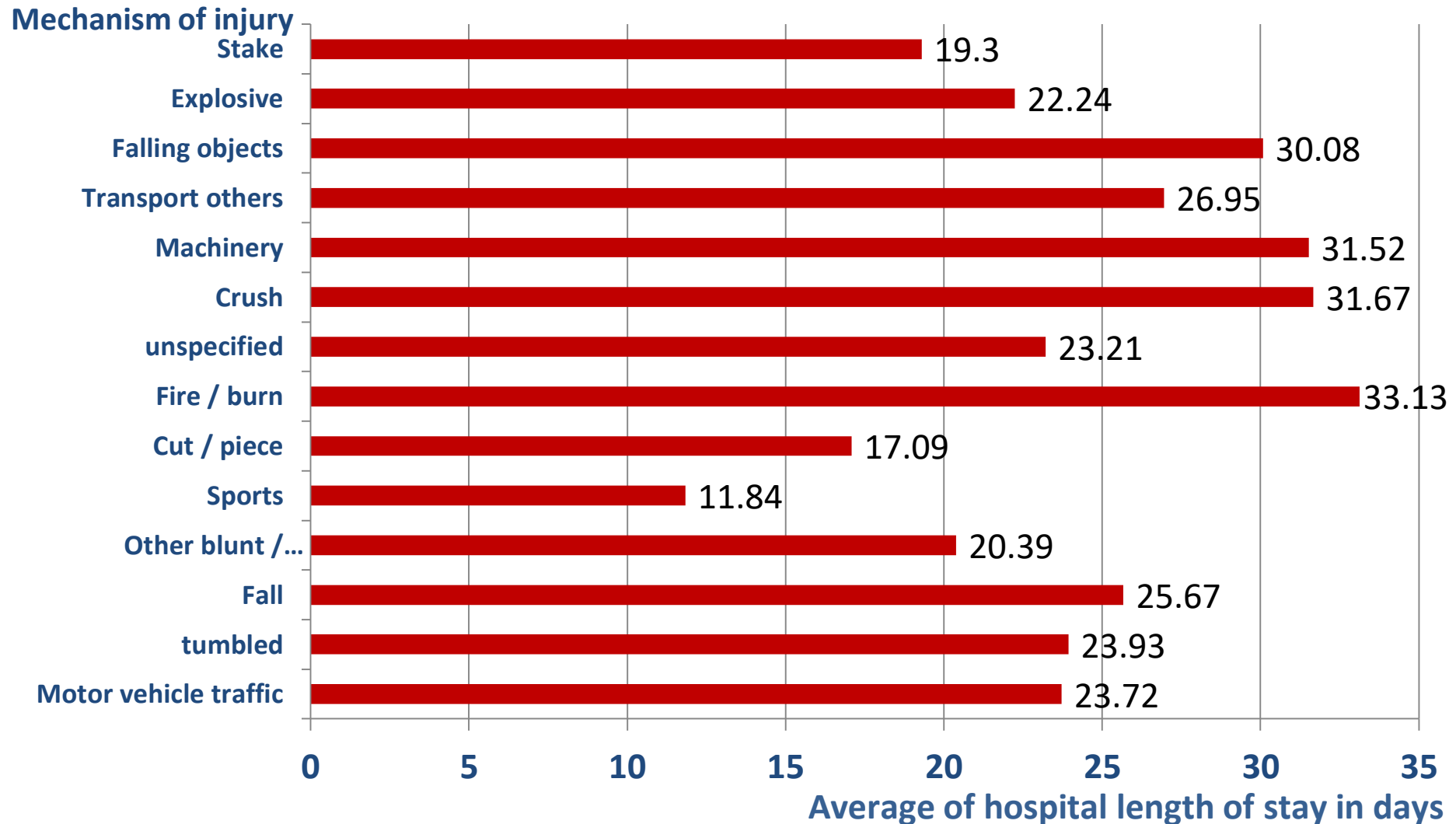


**Figure  
12****Total hospital length of stay by mechanism of Injury n = 52,815**

**Total hospital length of stay of patients are 1,272,680 days.**

Table  
12**Total and average hospital length of stay by mechanism of injury n = 52,815**

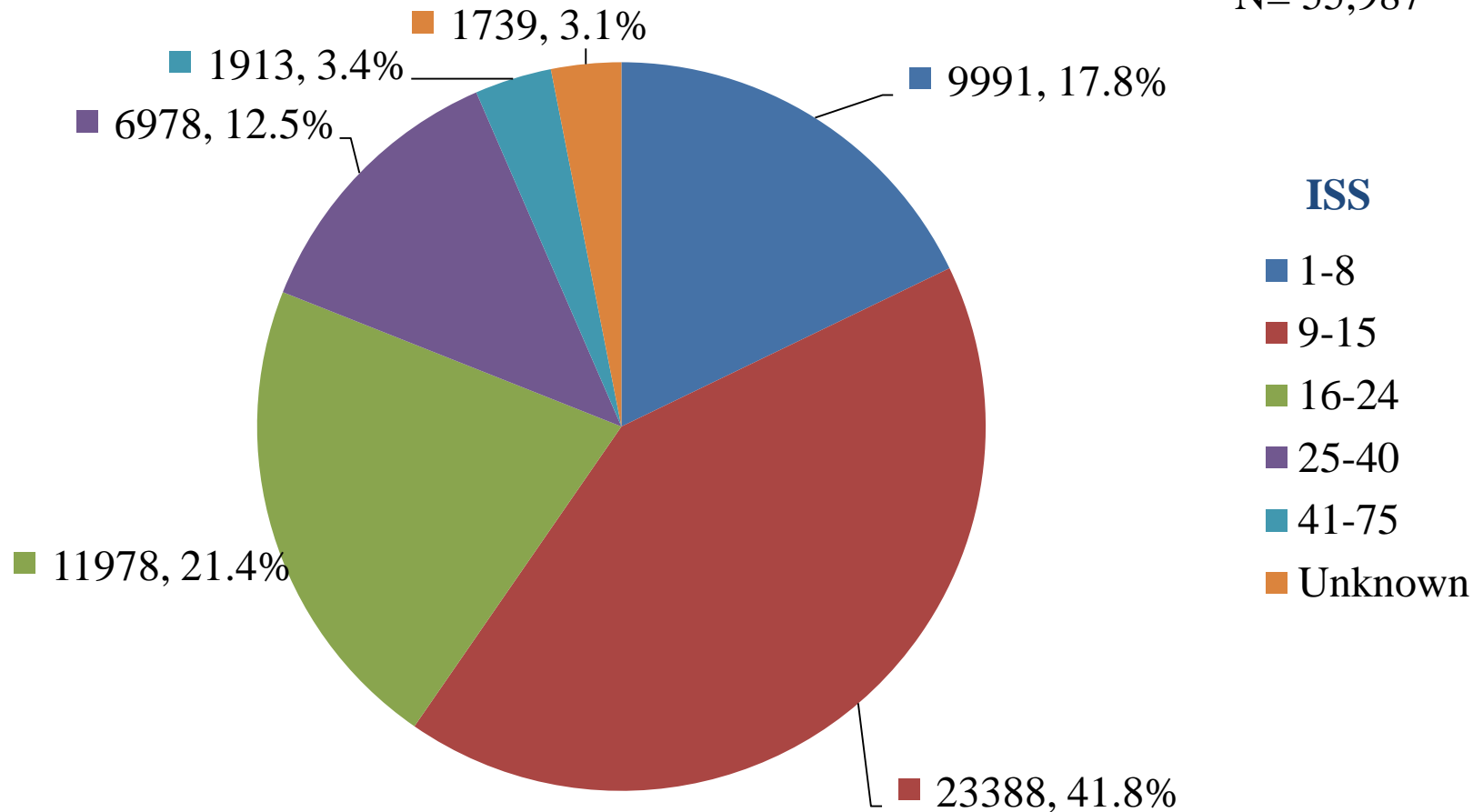
Mechanism of injury	Number of patients / %		Total hospital LOS in days	Average of hospital LOS in days
Motor vehicle traffic	17,277	32.71%	409,810	23.72
tumbled	17,031	32.25%	407,584	23.93
Fall	11,263	21.33%	289,160	25.67
Other blunt / penetrating	1,396	2.64%	28,456	20.39
Sports	1,141	2.16%	13,514	11.84
Cut / piece	1,122	2.12%	19,178	17.09
Fire / burn	810	1.53%	26,834	33.13
unspecified	769	1.46%	17,849	23.21
Crush	682	1.29%	21,601	31.67
Machinery	513	0.97%	16,172	31.52
Transport others	372	0.70%	10,025	26.95
Falling objects	343	0.65%	10,317	30.08
Explosive	59	0.11%	1,312	22.24
Stake	30	0.06%	579	19.30
Firearm	7	0.01%	286	40.86
Total	52,815	100%	1,272,680	24.10

**Figure  
13****Average hospital length of stay by mechanism of injury n = 52,815**

Motor vehicle traffic includes pedal cyclist and pedestrian victims.

Figure  
14**Patients and Injury Severity Score (ISS)**

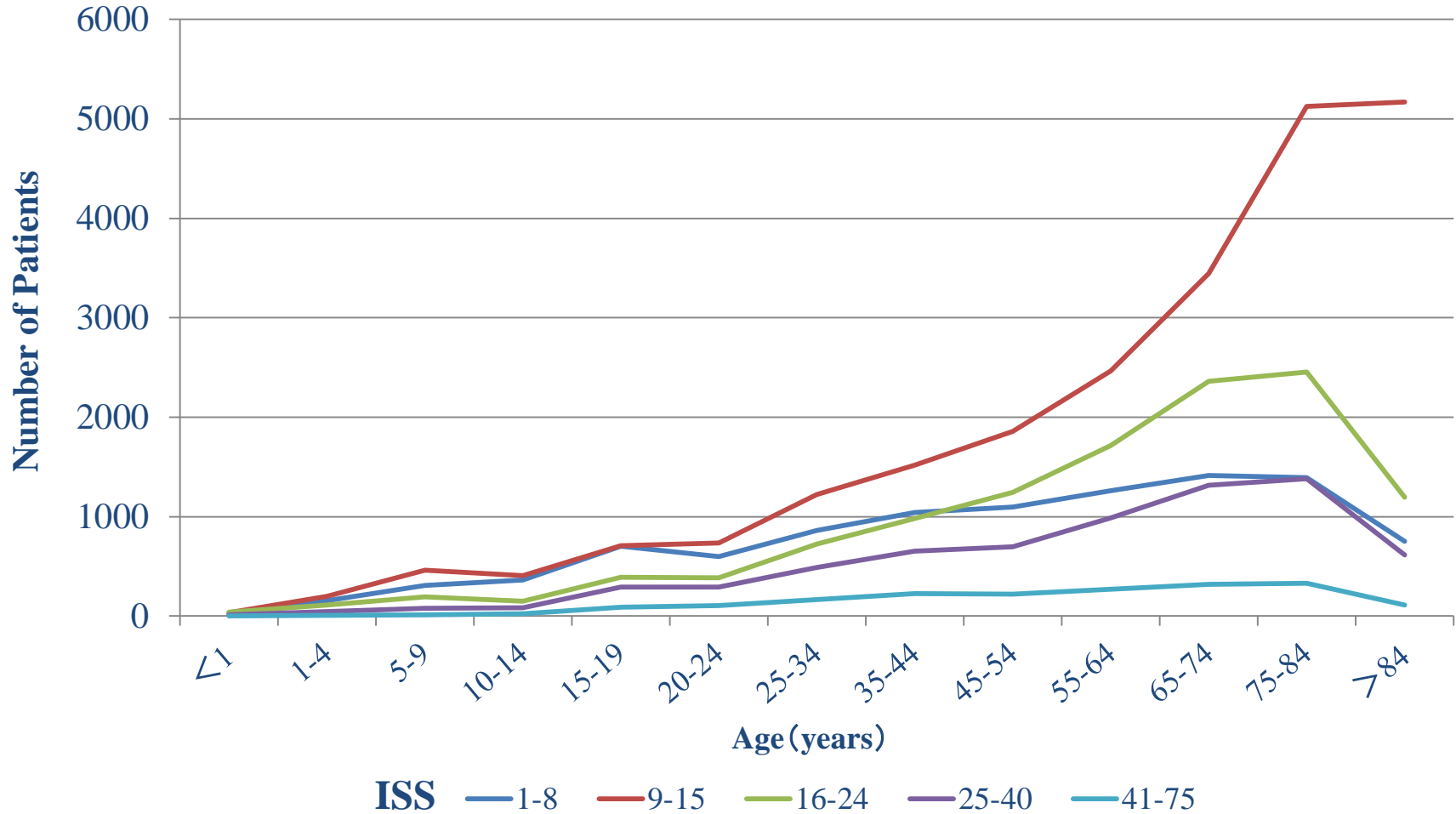
N= 55,987



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**

N= 54,136



Number of injured patients grouped by ISS range, at each age from 0 to 105.

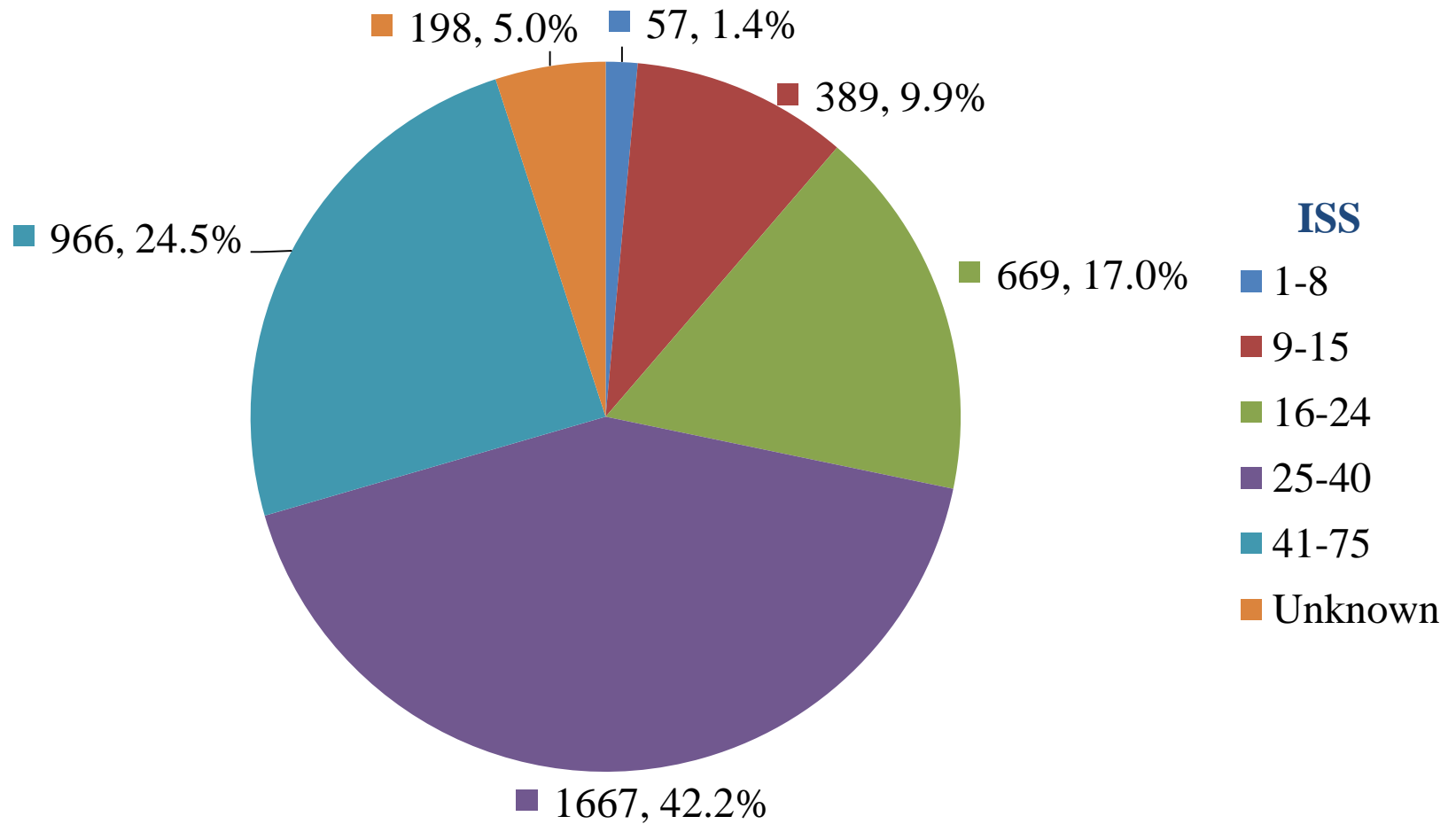
The peaks of the number of patients based on age distribution were seen at over 75 ages of ISS 9-15, and at 65-84 ages of another ISS categories.

Table  
15**Patients 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	20	156	311	363	704	601	864	1041	1099	1259	1416	1391	752	14	9991
9-15	37	197	464	407	706	735	1224	1519	1860	2466	3446	5127	5170	30	23388
16-24	41	110	193	152	391	388	726	981	1247	1715	2363	2454	1196	21	11978
25-40	12	47	80	84	293	291	488	655	700	987	1317	1381	615	28	6978
41-75	1	9	15	25	88	107	167	228	223	273	318	329	111	19	1913
Unknown	2	29	52	32	78	85	140	169	185	206	292	288	176	5	1739
Total	113	548	1115	1063	2260	2207	3609	4593	5314	6906	9152	10970	8020	117	55987

Figure  
16-A**Deaths and Injury Severity Score (ISS)**

N= 3,946

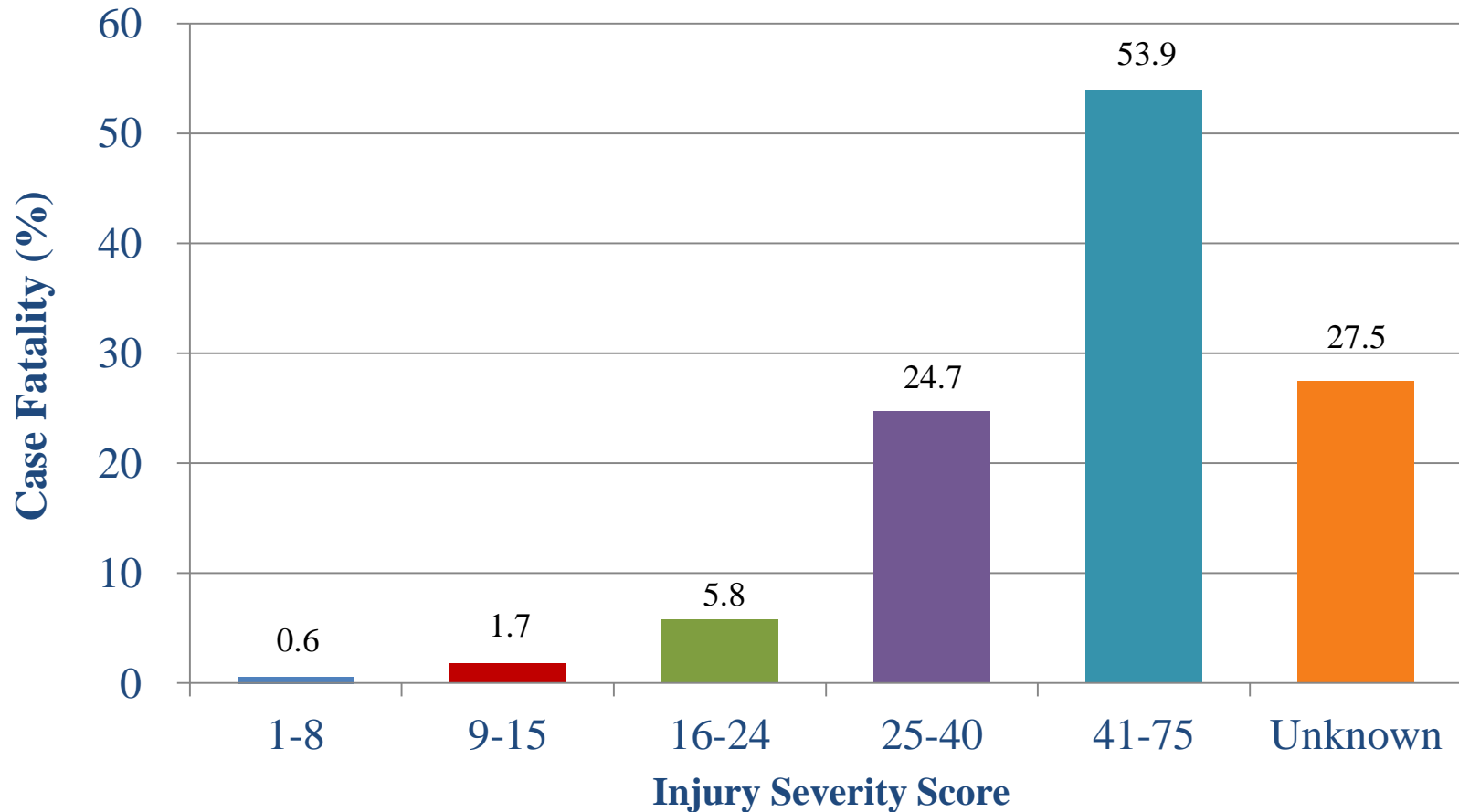


Proportional distribution of deaths grouped by categories of ISS range.  
Deaths in ISS 25-40 category were the highest.

Figure  
16-B

## Case Fatality by Injury Severity Score (ISS) Range

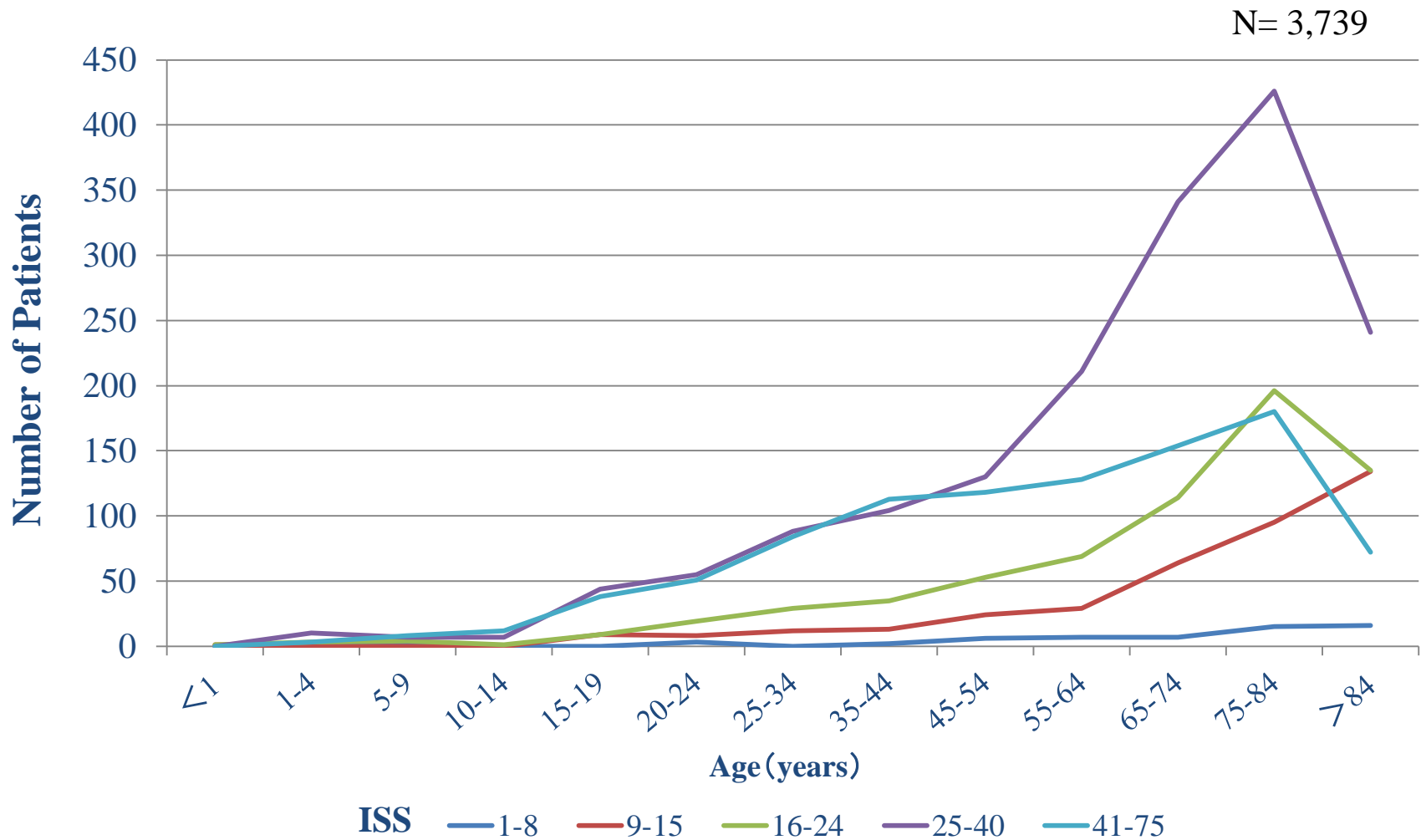
N= 3,946



Case fatality grouped by ISS range was higher in severe trauma category.

(Case fatality = number of deaths divided by the number of patients  $\times$  100 by ISS range).



Figure  
17**Deaths by ISS and Age**

The peak was seen at elderly ages in all ISS categories.

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	1	0	0	3	0	2	6	7	7	15	16	0	57
9-15	1	0	0	0	9	8	12	13	24	29	64	95	134	0	389
16-24	1	3	4	1	9	19	29	35	53	69	114	196	135	1	669
25-40	0	10	7	7	44	55	88	104	130	211	341	426	241	3	1667
41-75	0	3	8	12	38	51	84	113	118	128	154	180	72	5	966
Unknown	0	1	0	2	6	16	21	20	29	29	24	31	16	3	198
Total	2	17	20	22	106	152	234	287	360	473	704	943	614	12	3946

Figure  
18**Deaths by Age and Gender (ISS $\leq$ 15)**

N=32113

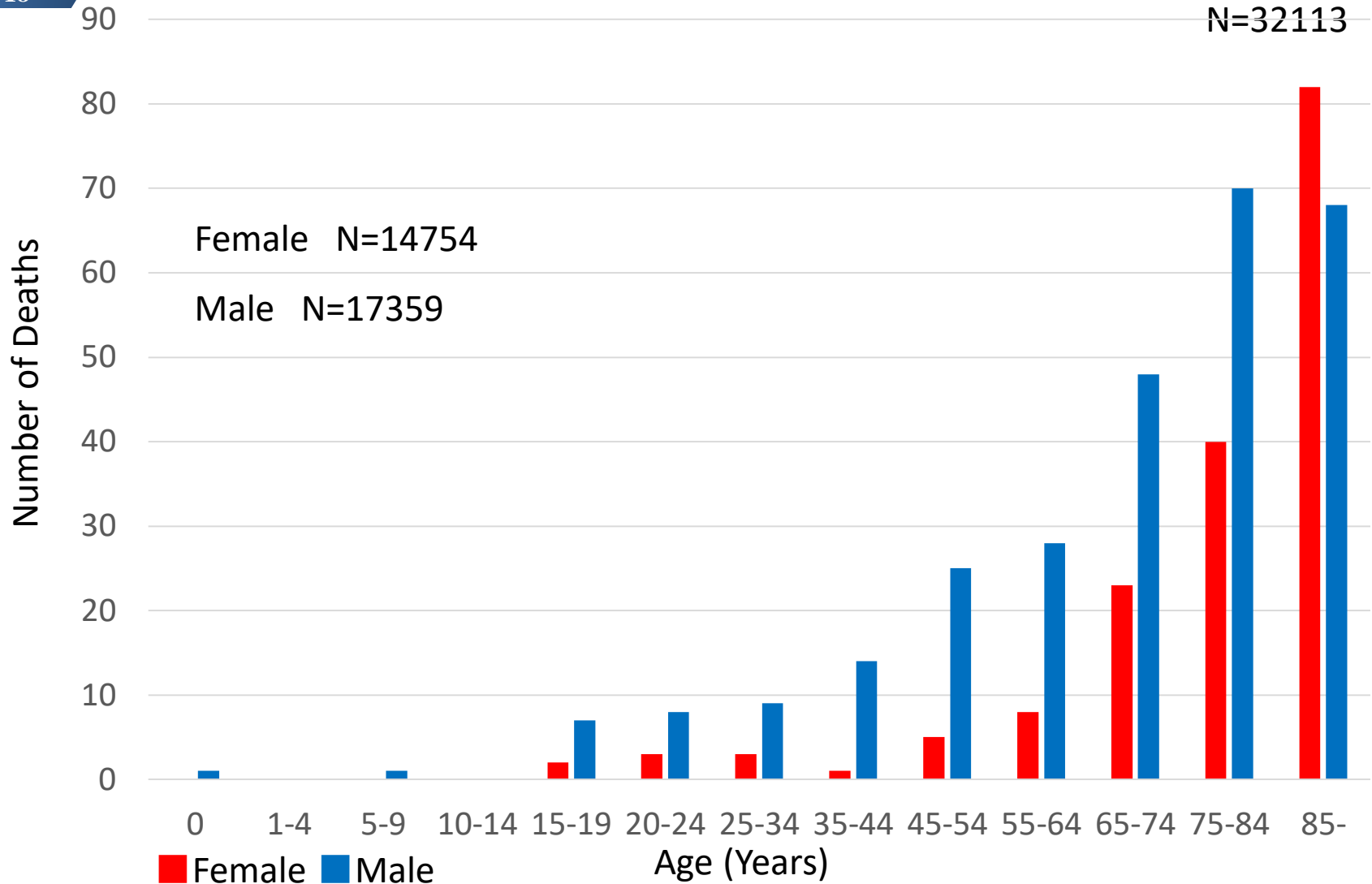
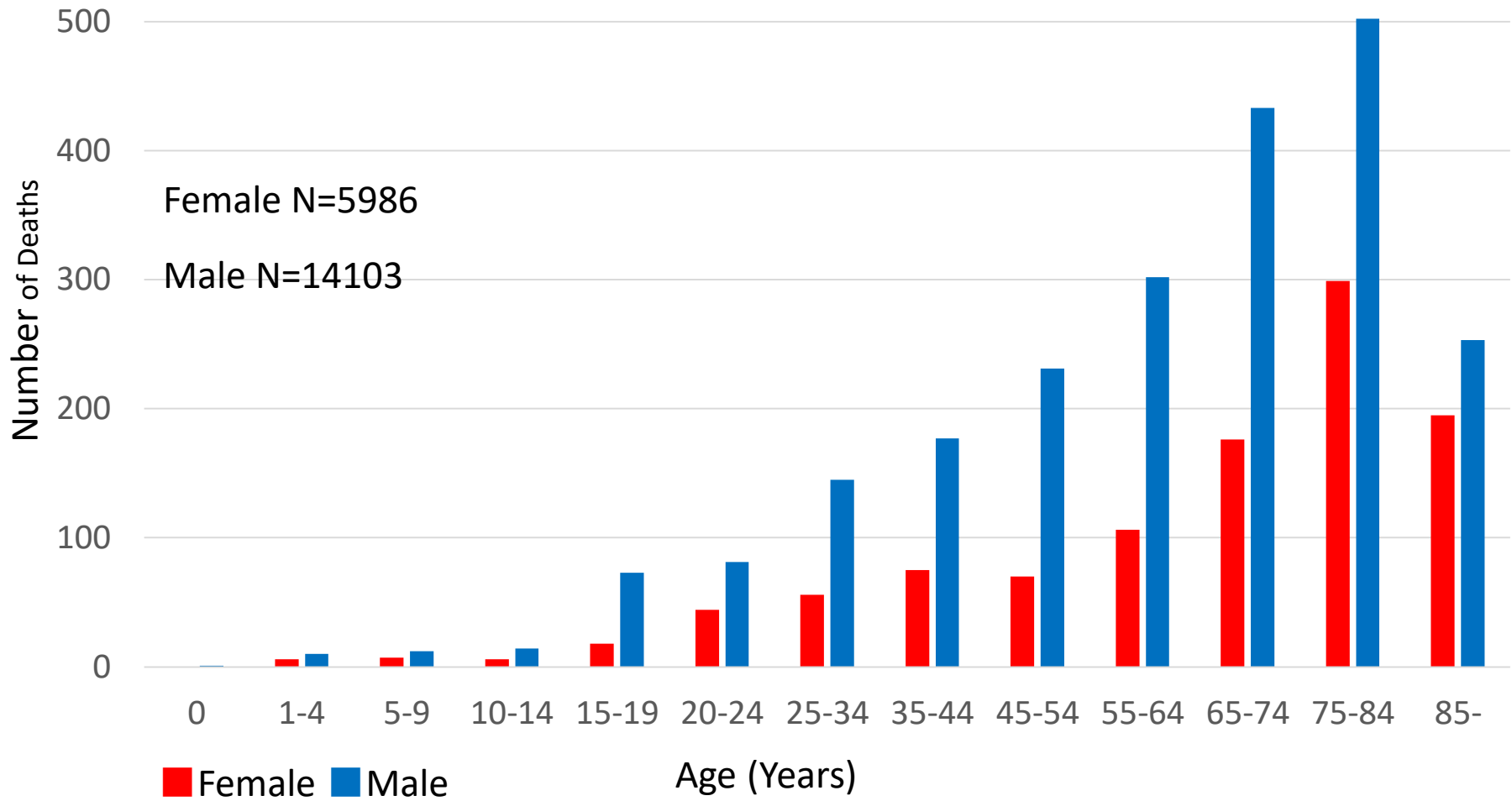
**Deaths for patients with ISS $\leq$ 15 for males and females at each age category.**

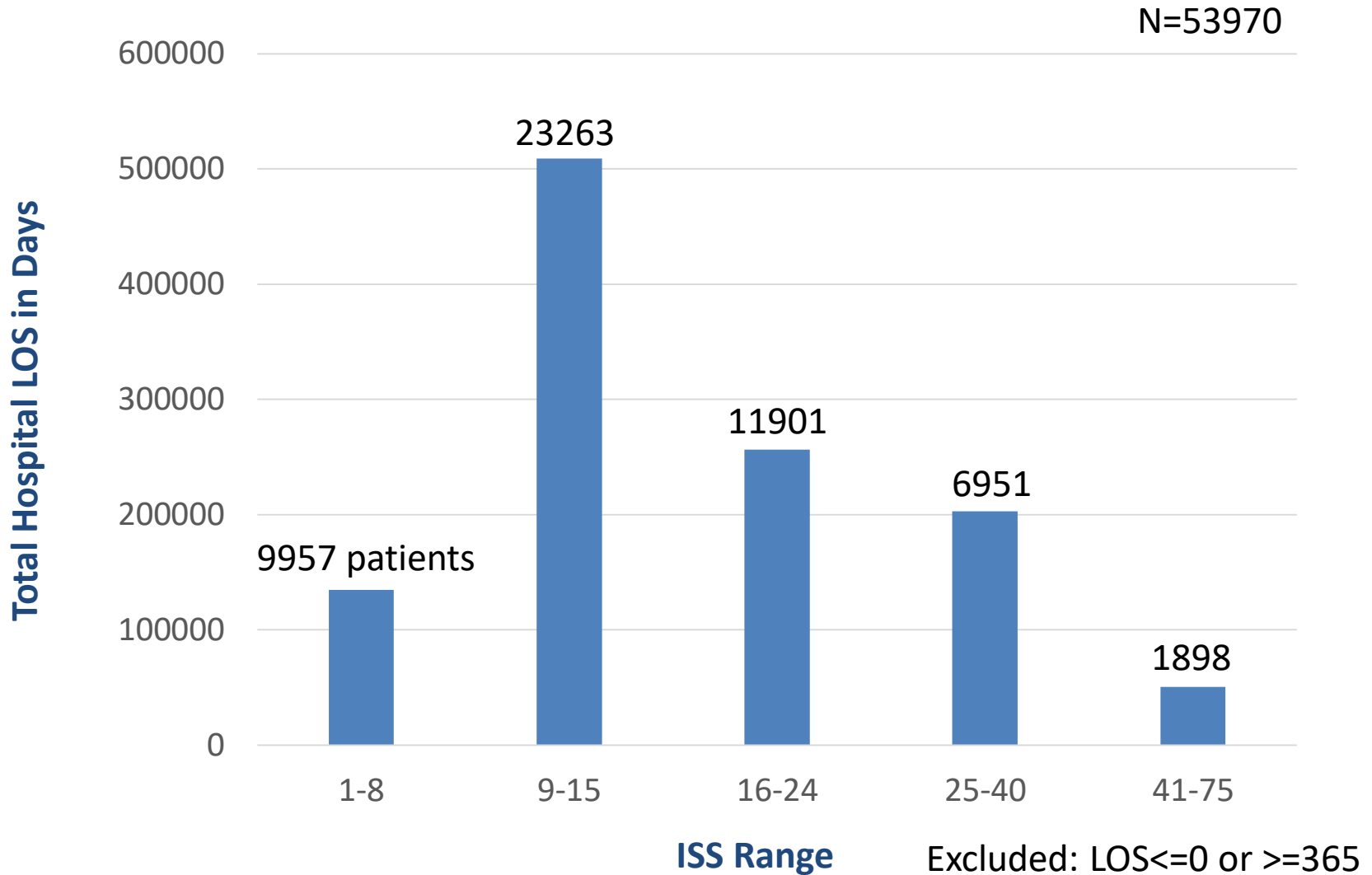
Figure 619

**Deaths by Age and Gender (ISS>15)**

N=20089



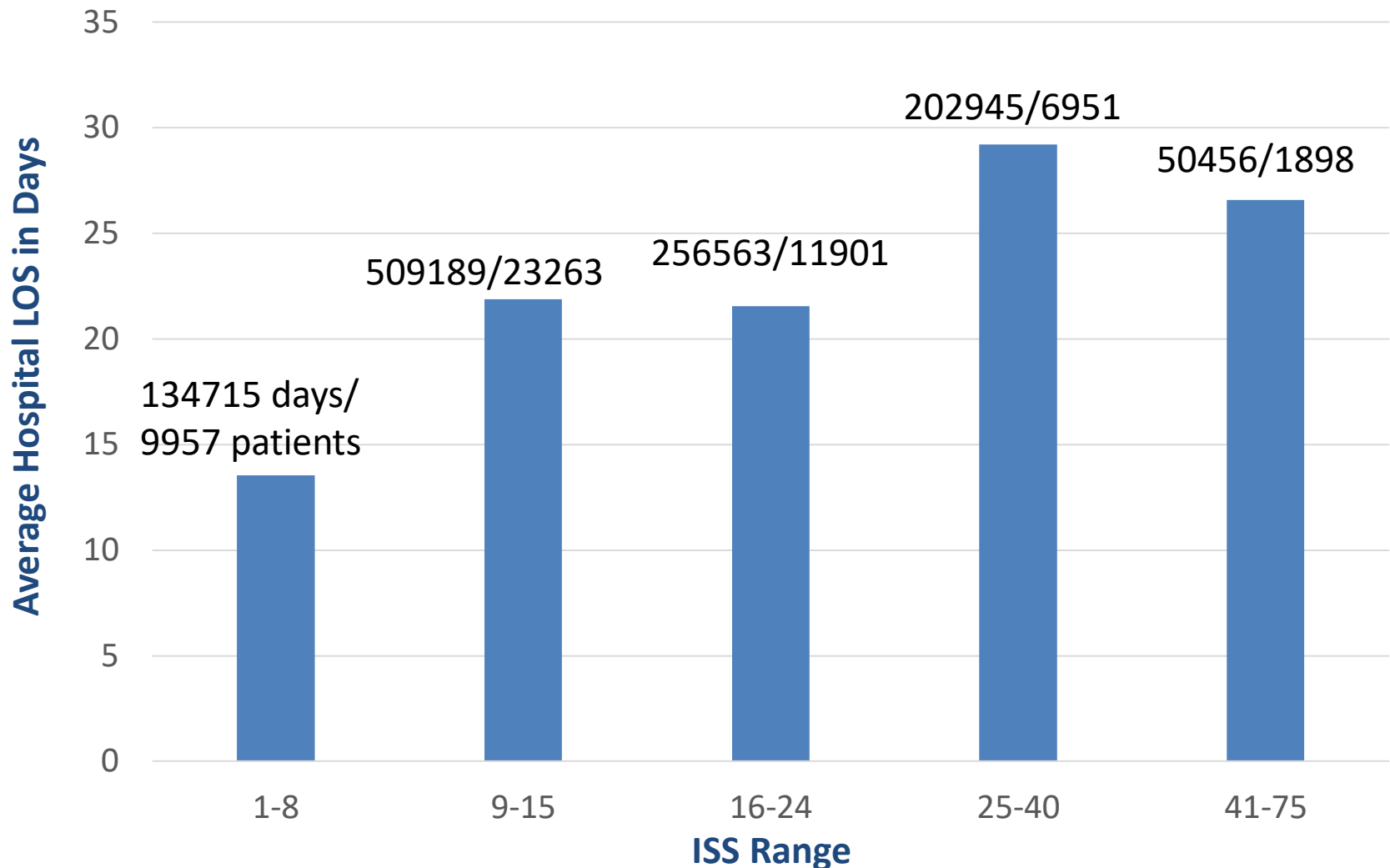
**Deaths for patients with ISS>15 for males and females at each age category.**

**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**

N=53970



**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).**

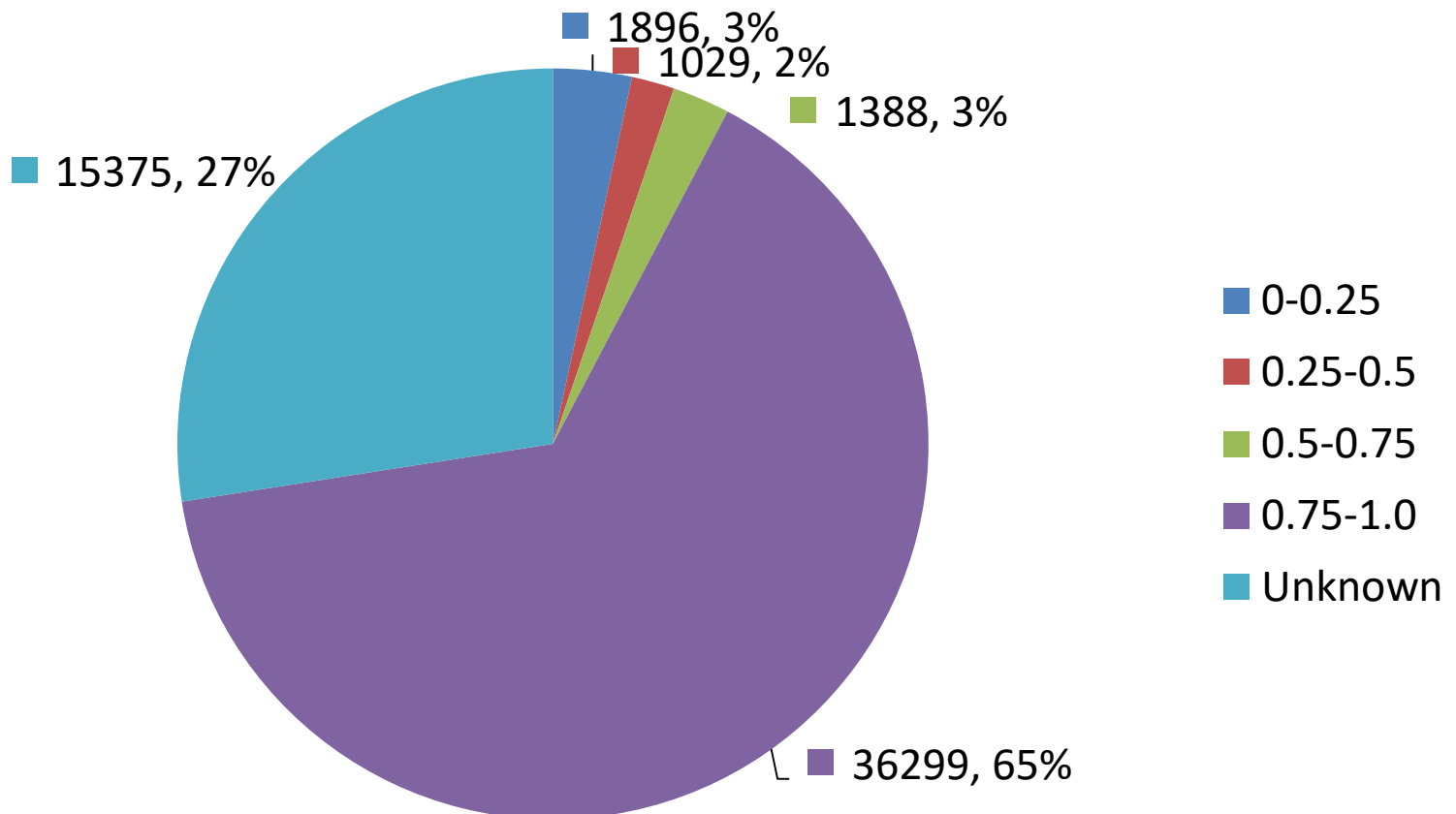
**Figure  
21****Distribution of patients by probability of survival (Ps)**

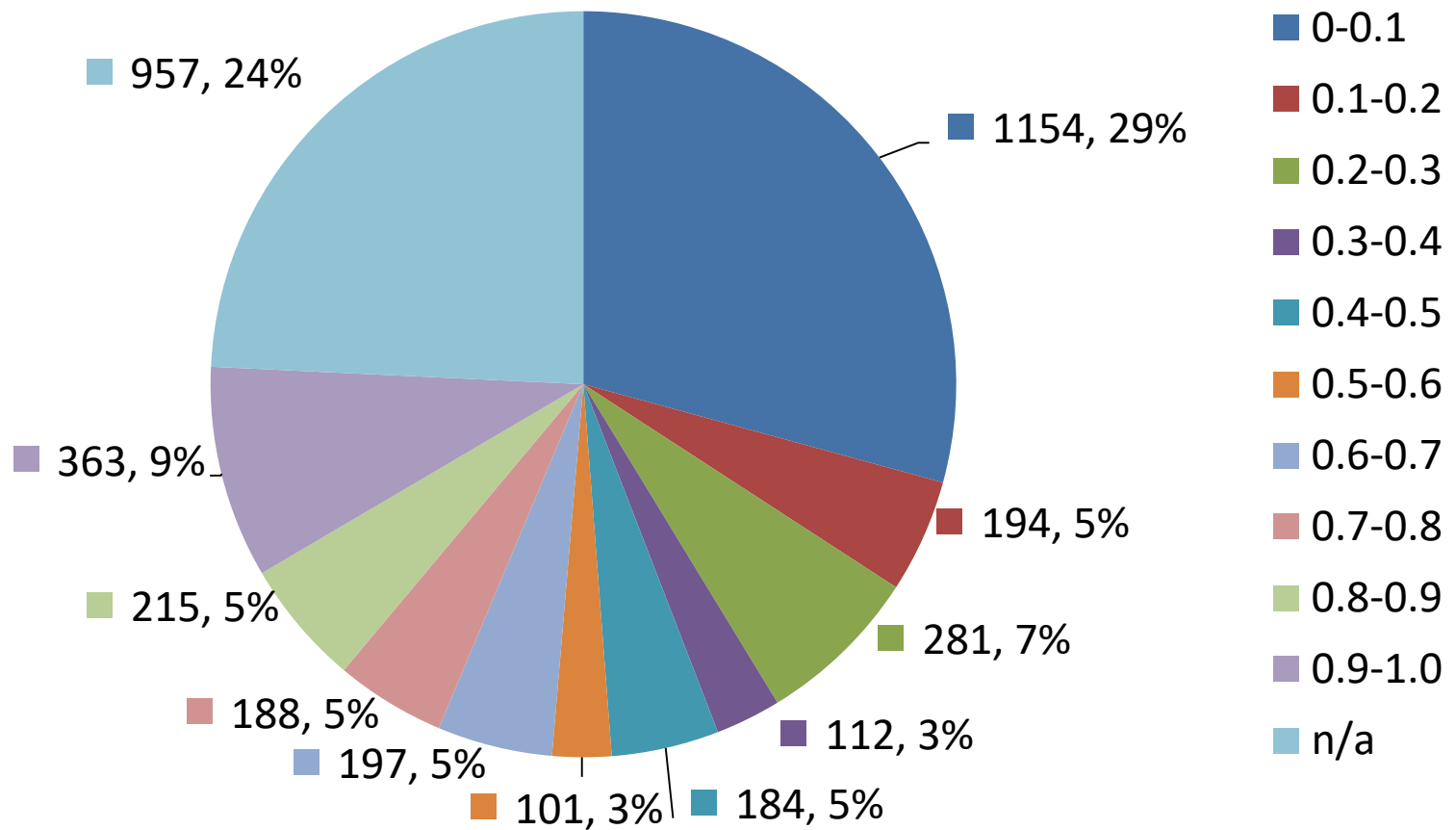
Figure  
22A**Distribution of deaths by probability of survival (Ps)**



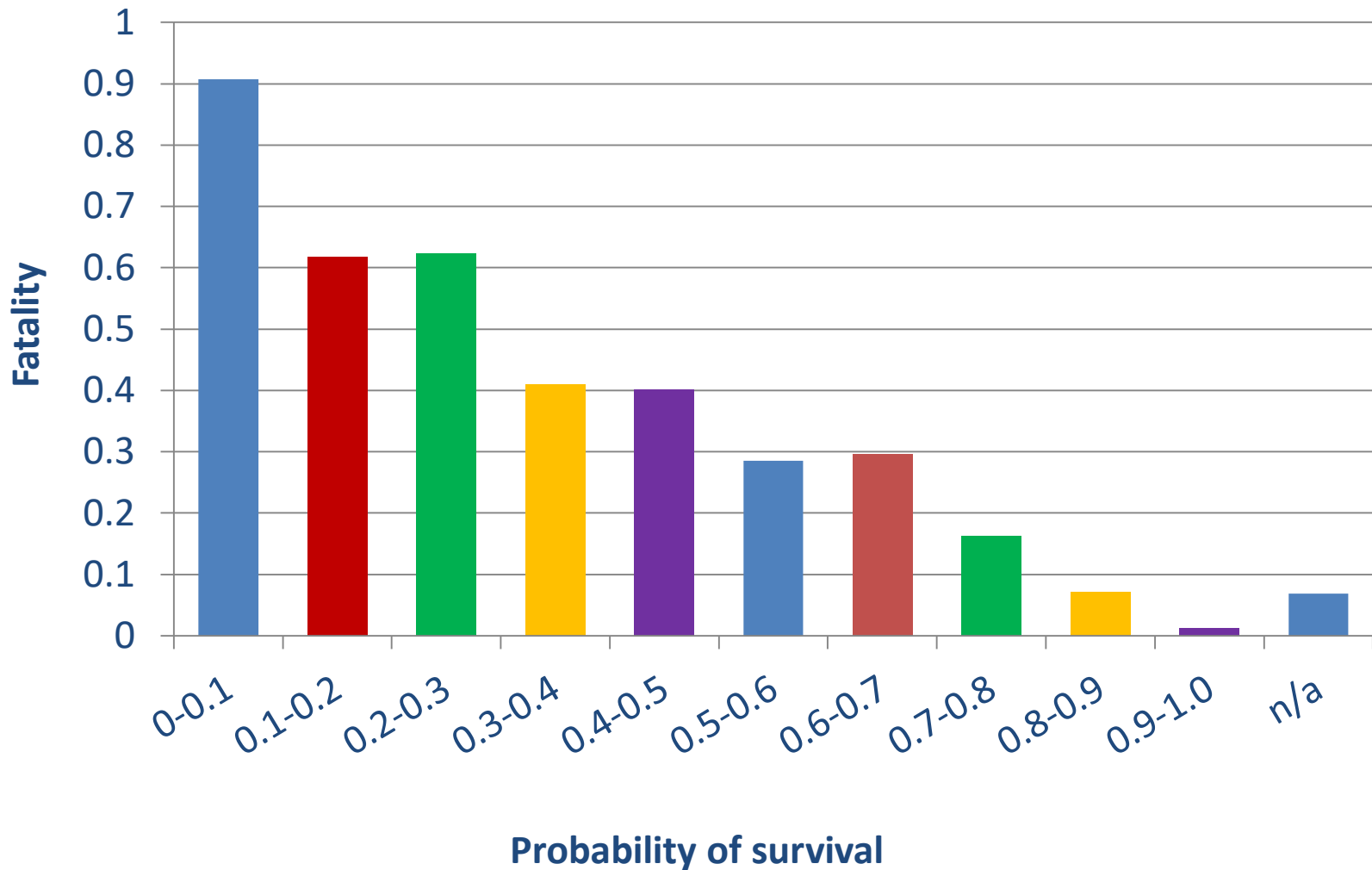
Figure  
22B**Case fatality by probability of survival (Ps)**

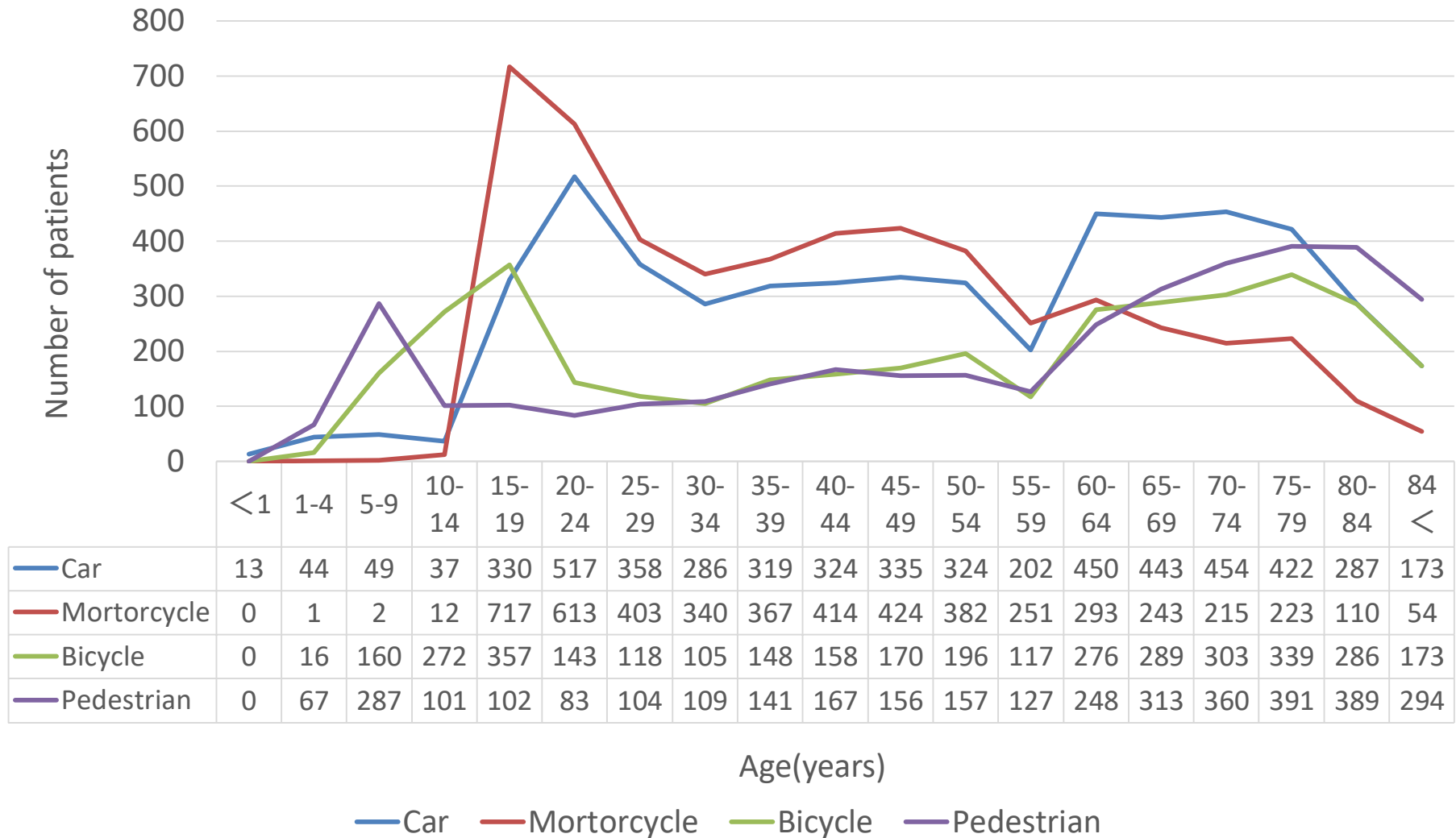
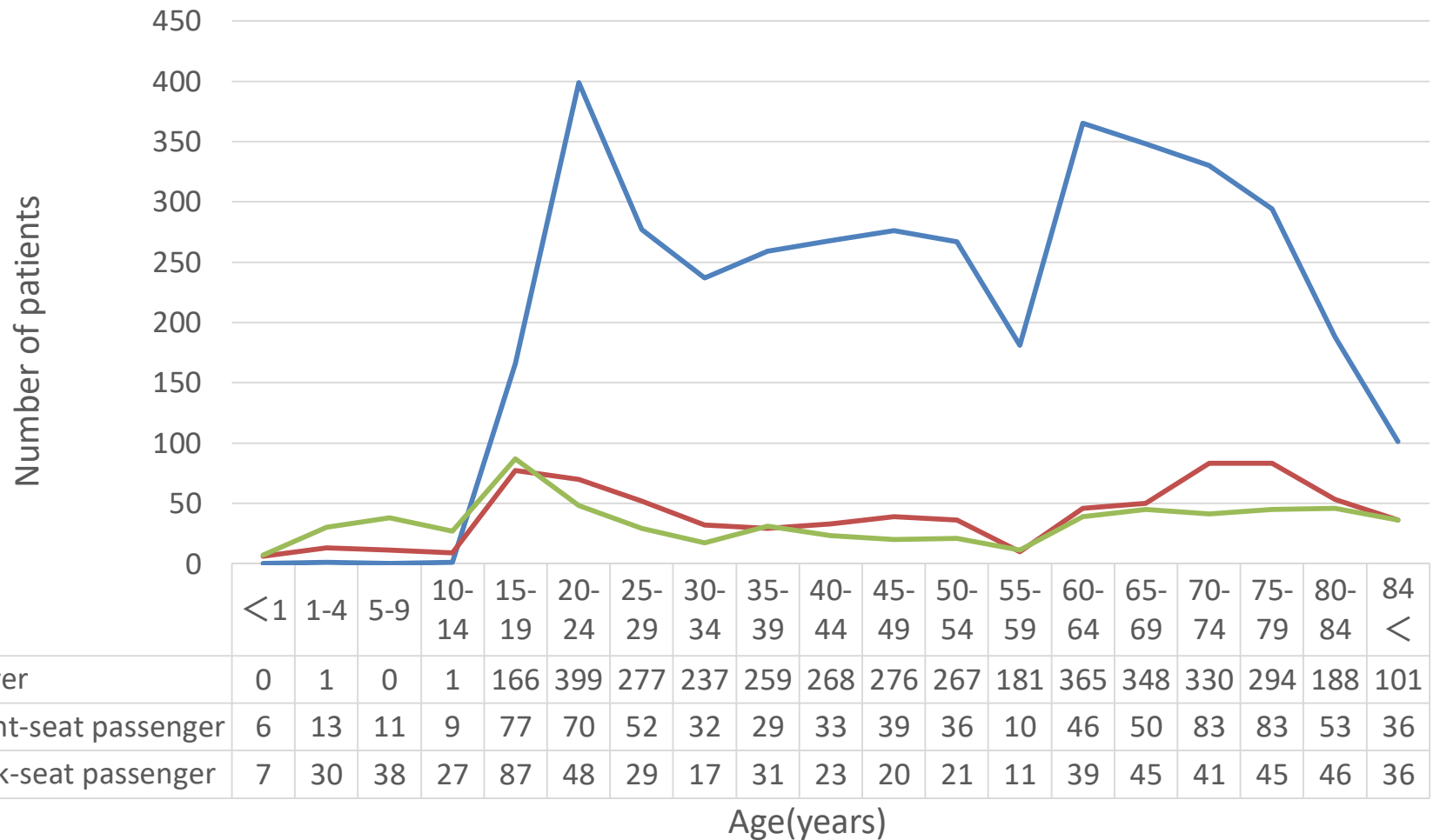
Figure  
23**The number of patients in traffic accidents by types of vehicle and age**

Figure  
24**The number of patients in car accident by drivers and passengers and age**

— Driver — Front-seat passenger — Back-seat passenger

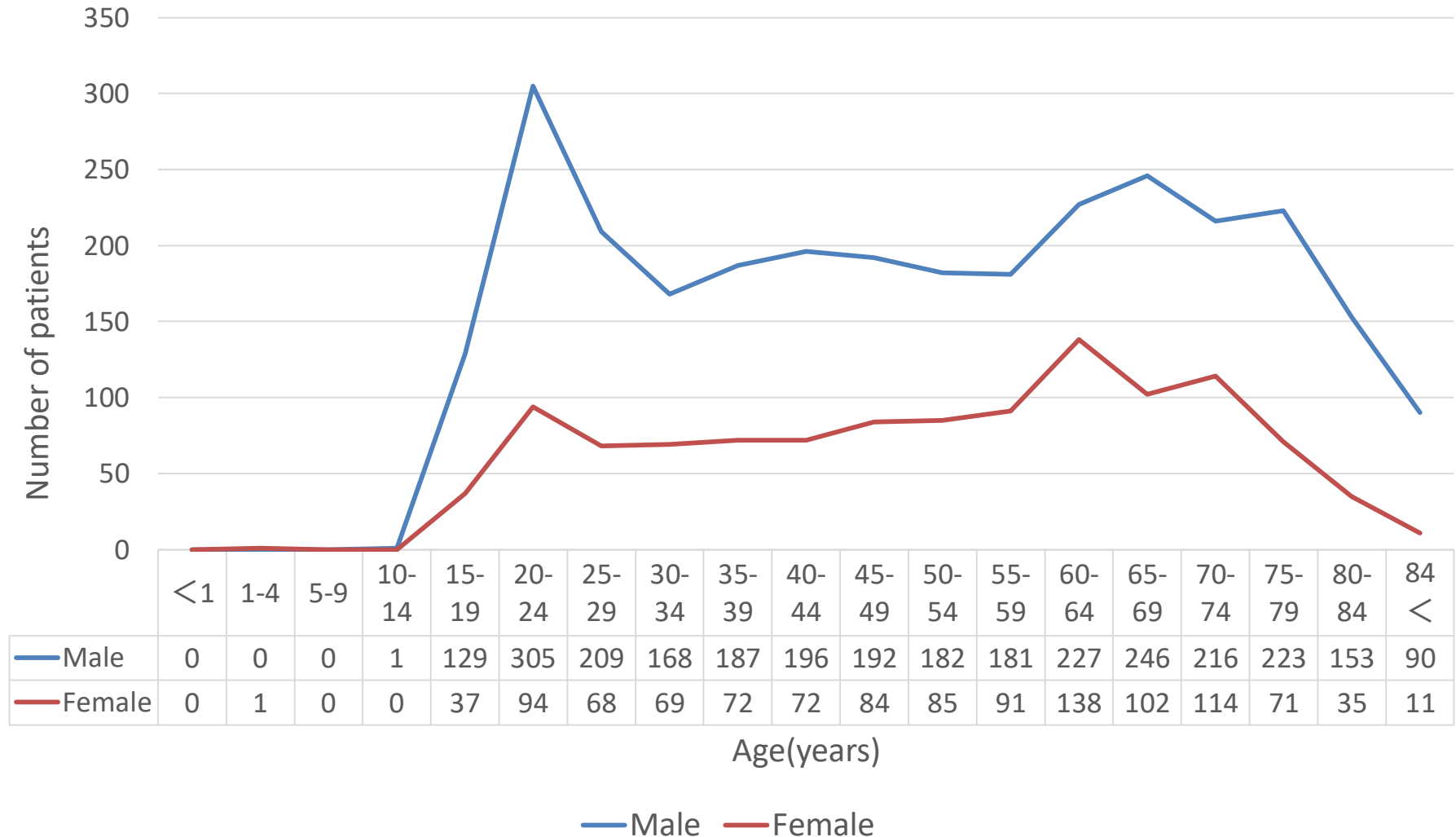
Figure  
25**The number of patients in car accident (driver) by gender and age**

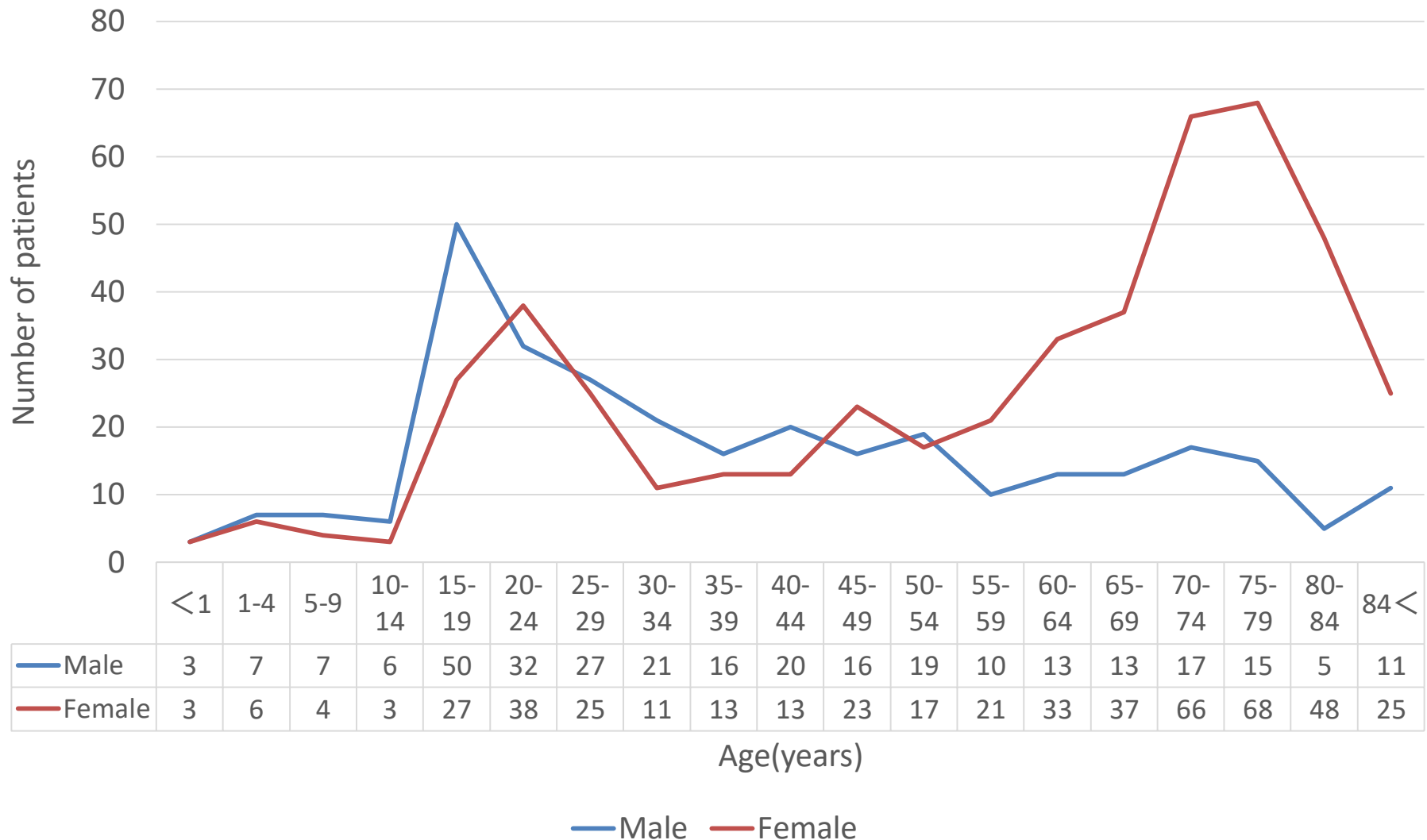
Figure  
26**The number of patients in car accident (passenger) by gender and age**

Figure  
27

## Number of Deaths and Fatalities of Motor Vehicular Drivers by Age

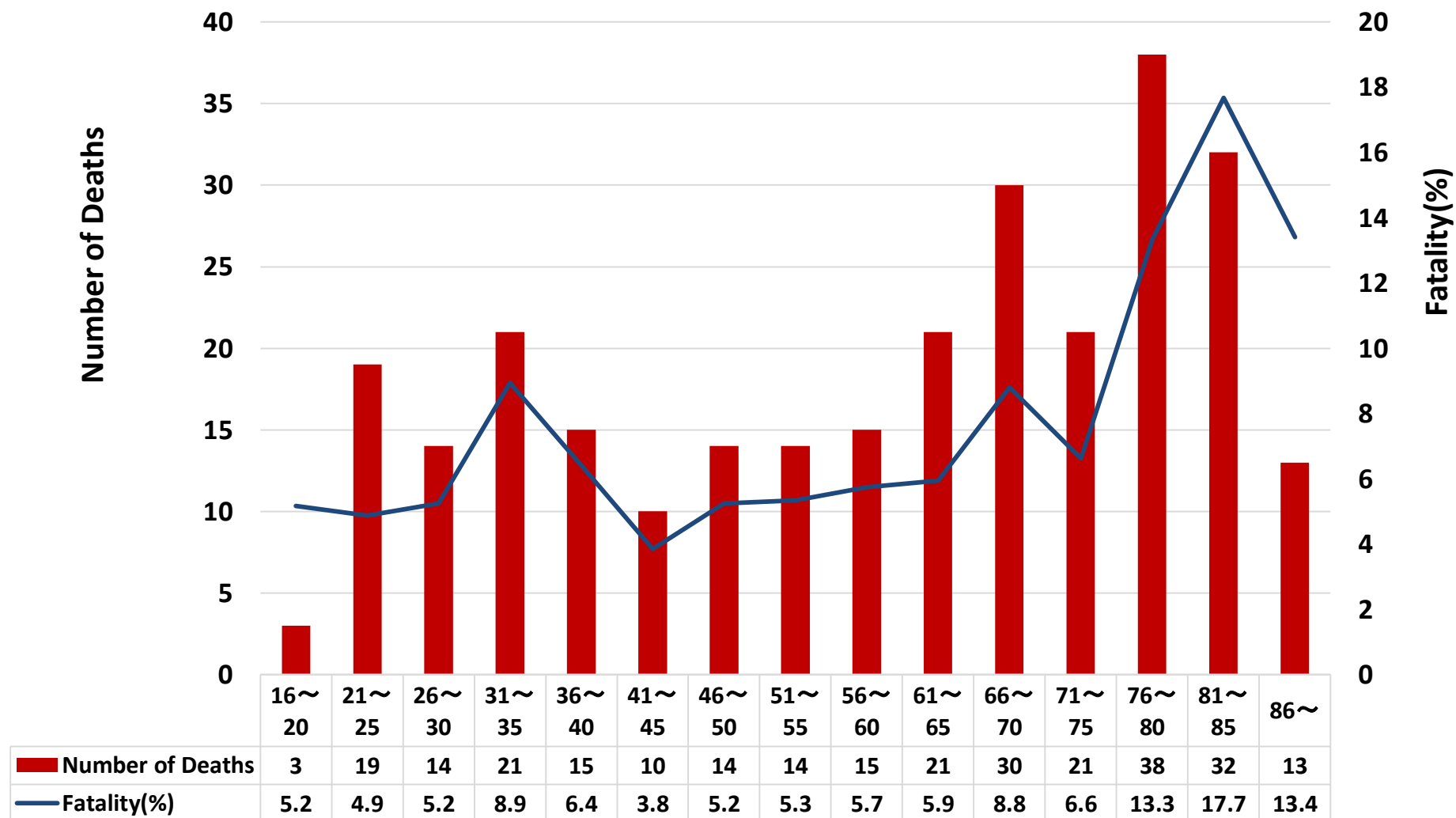
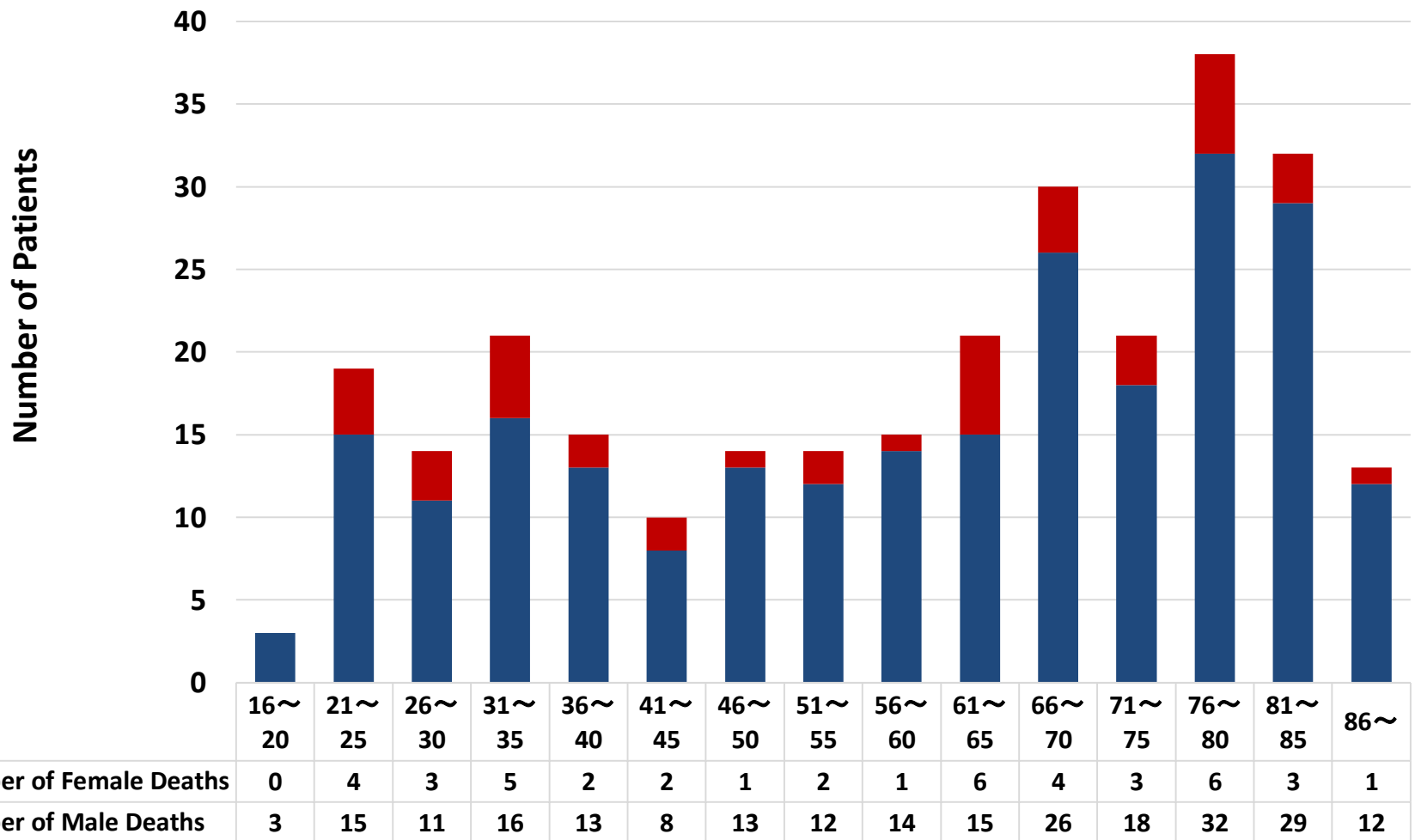
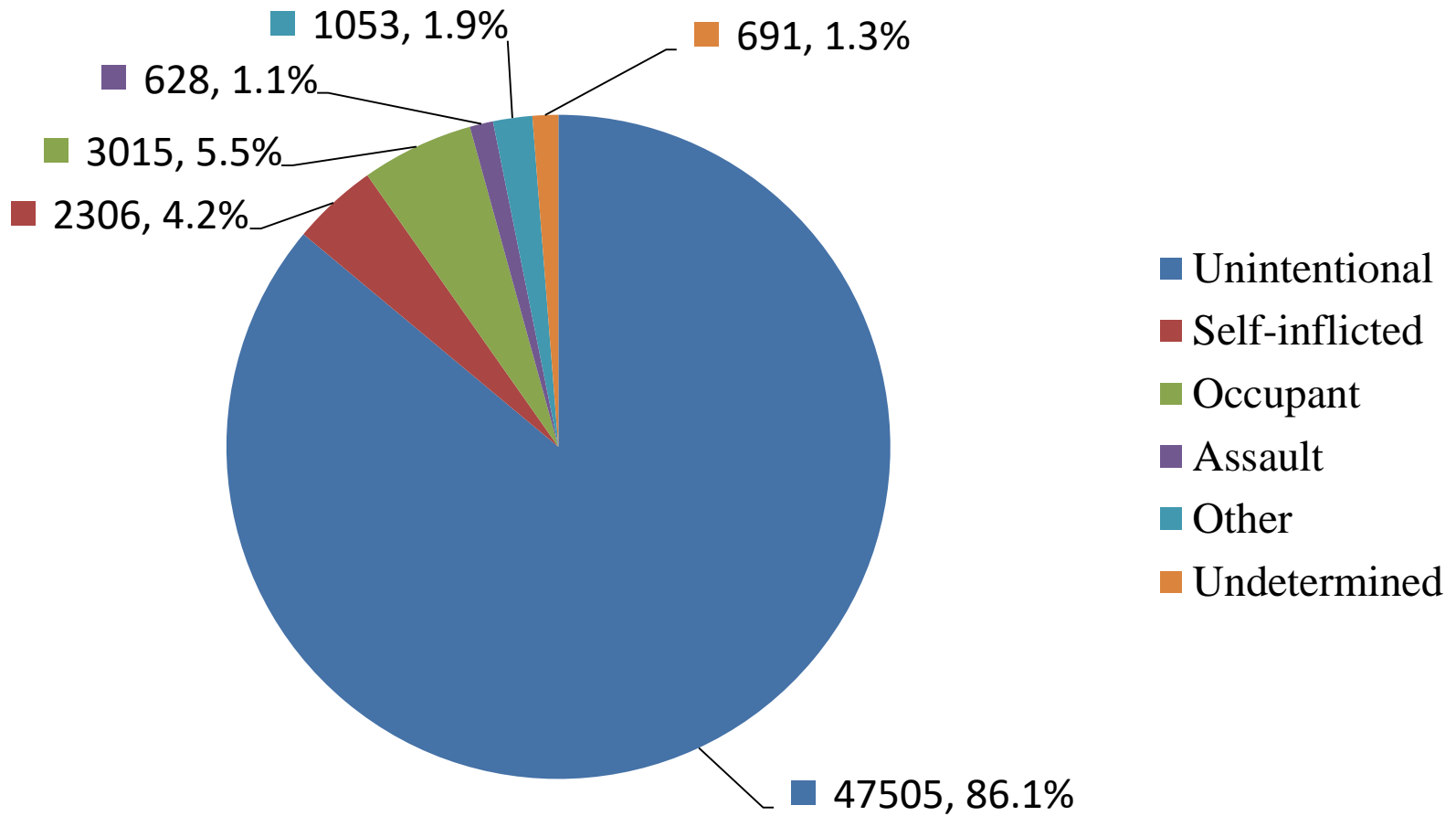


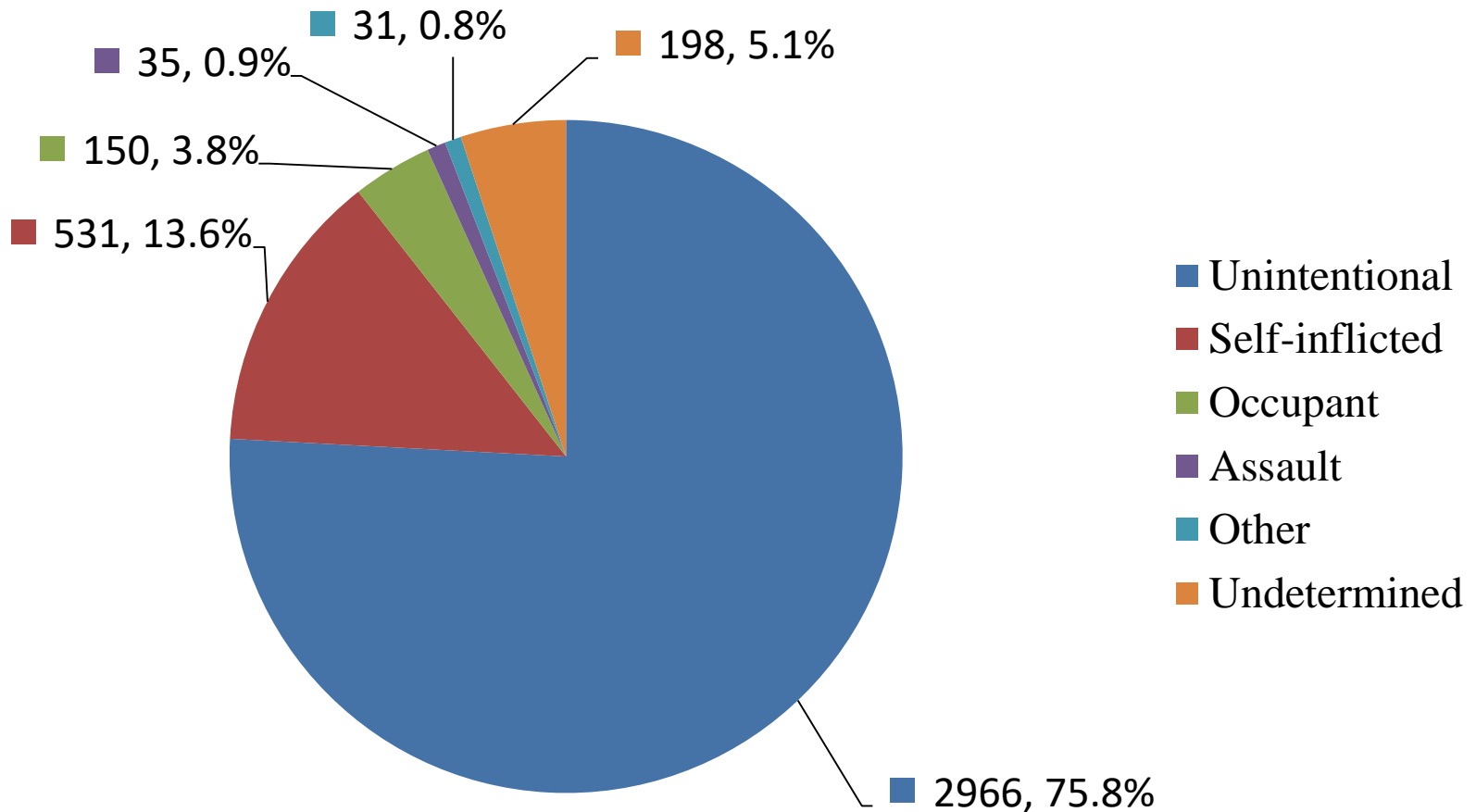
Figure  
28

## Number of Deaths of Motor Vehicular Drivers by Age and Genders



**Figure  
29****Proportional distribution of registered patients, grouped by intent**



**Figure  
30****Proportional distribution of deaths, grouped by intent**

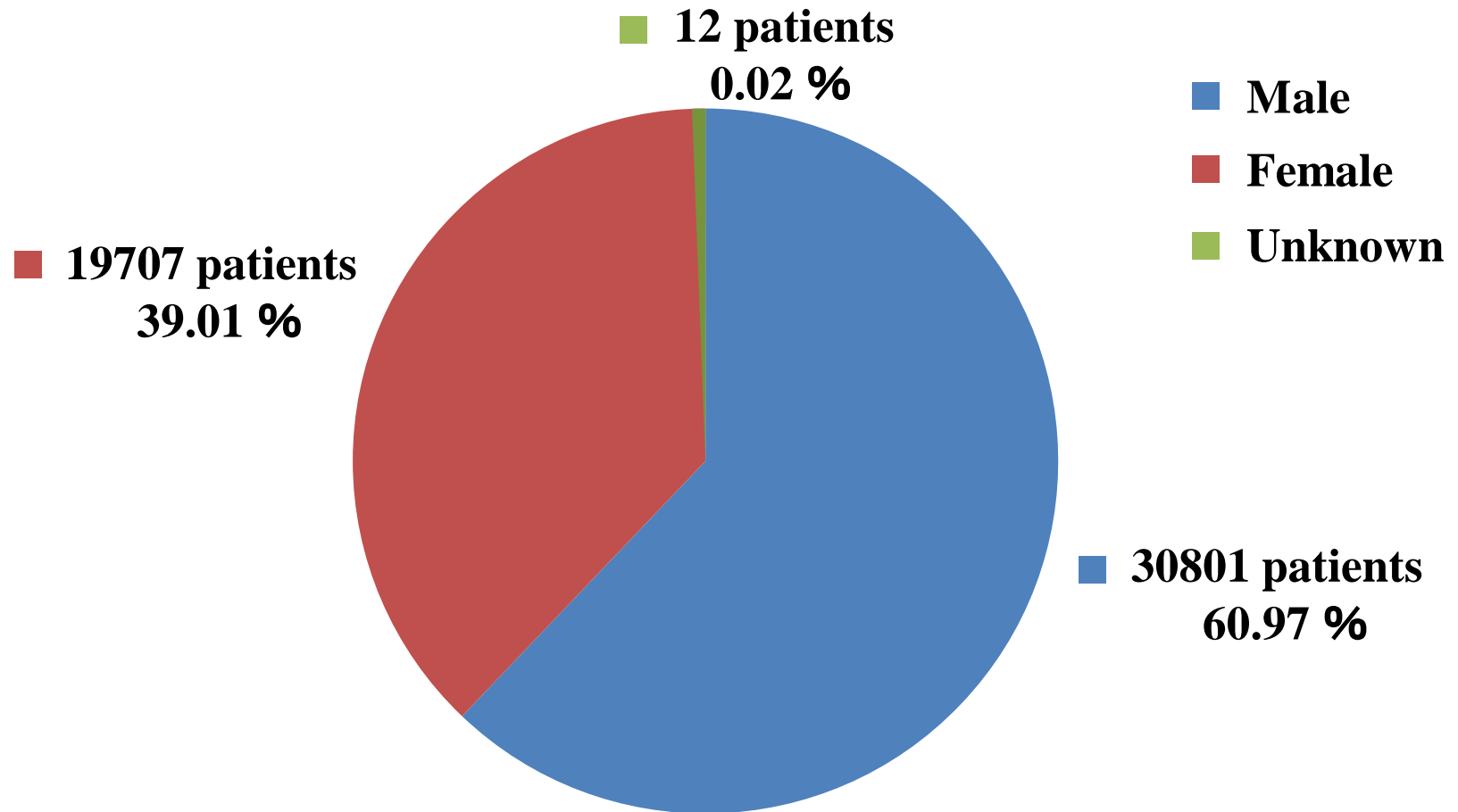
**Figure  
31****Gender proportion of Unintentional and Occupant**

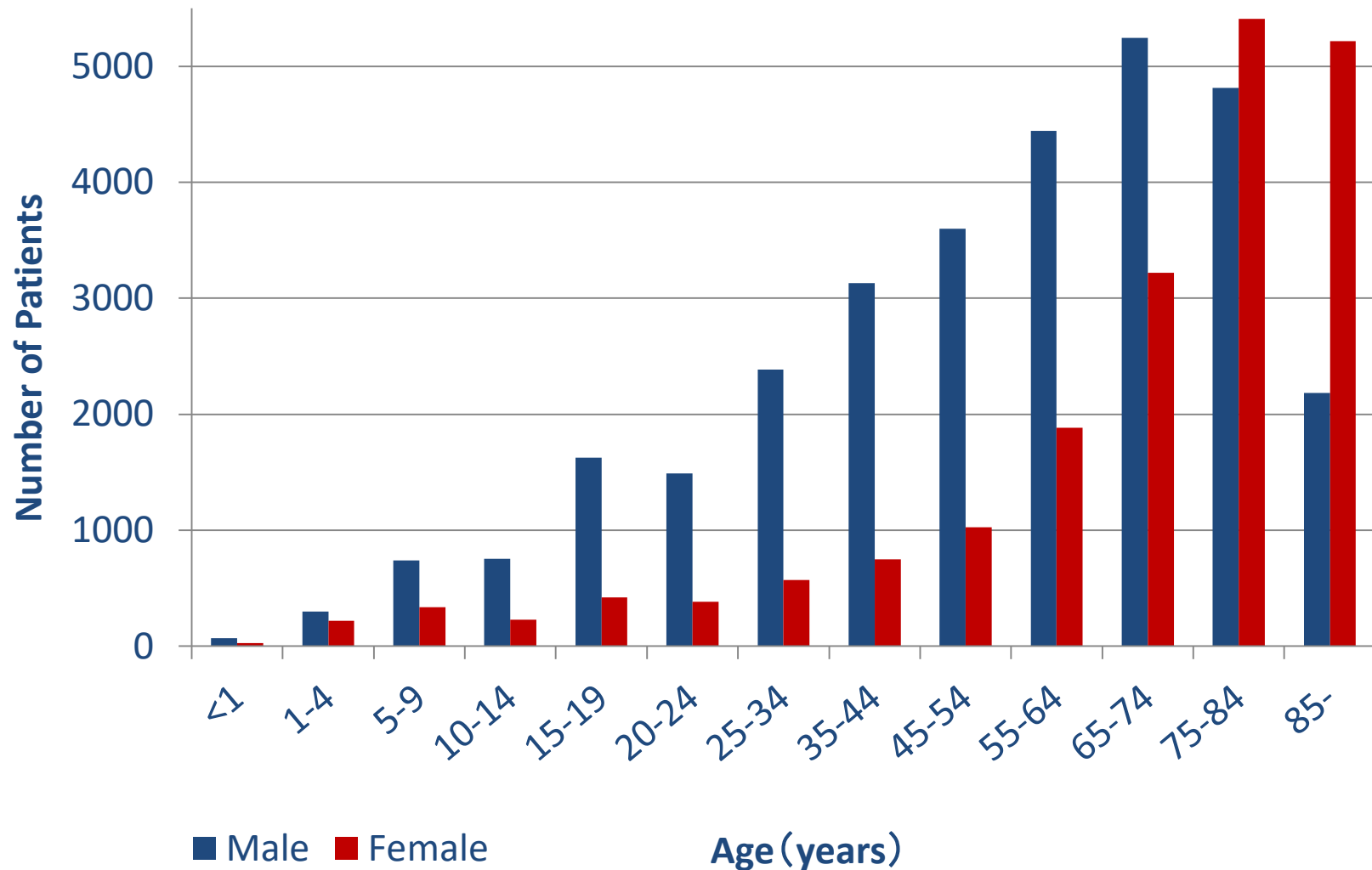
Figure  
32**Unintentional and Occupant by Age and Gender**

Table  
32**Unintentional and Occupant by Age and Gender**

Age	Male	Female	Total
< 1	68	29	97
1 - 4	300	221	521
5 - 9	740	335	1075
10-14	752	228	980
15-19	1627	422	2049
20-24	1489	384	1873
25-34	2386	572	2958
35-44	3130	748	3878
45-54	3598	1026	4624
55-64	4444	1883	6327
65-74	5246	3222	8468
75-84	4813	5408	10221
85-	2185	5215	7400
Unknown	23	14	37
Total	30801	19707	50508

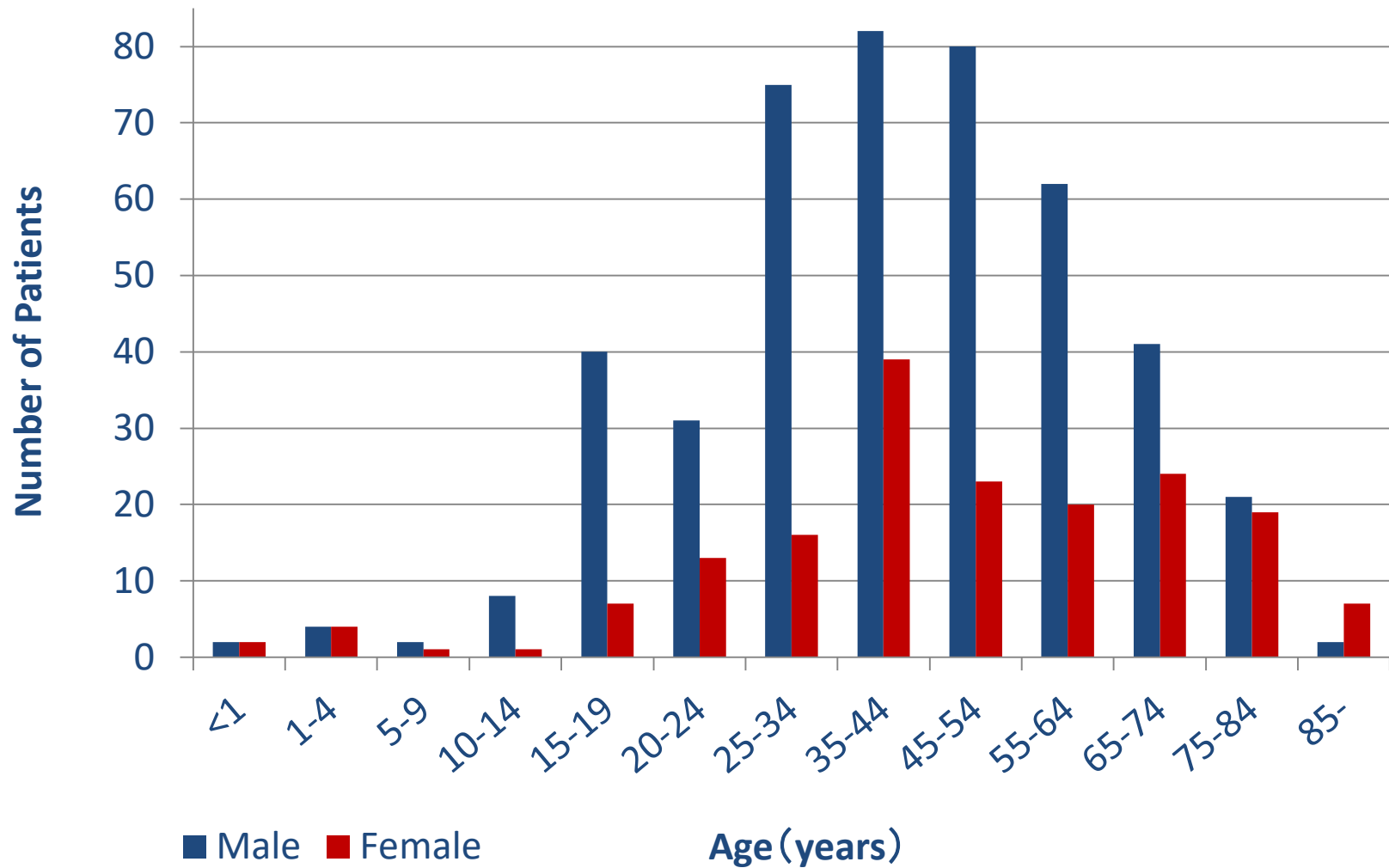
Figure  
33**Assault by Age and Gender**

Table  
33**Assault by Age and Gender**

Age	Male	Female	Total
< 1	2	2	4
1 - 4	4	4	8
5 - 9	2	1	3
10-14	8	1	9
15-19	40	7	47
20-24	31	13	44
25-34	75	16	91
35-44	82	39	121
45-54	80	23	103
55-64	62	20	82
65-74	41	24	65
75-84	21	19	40
85-	2	7	9
Unknown	2	0	2
Total	452	176	628

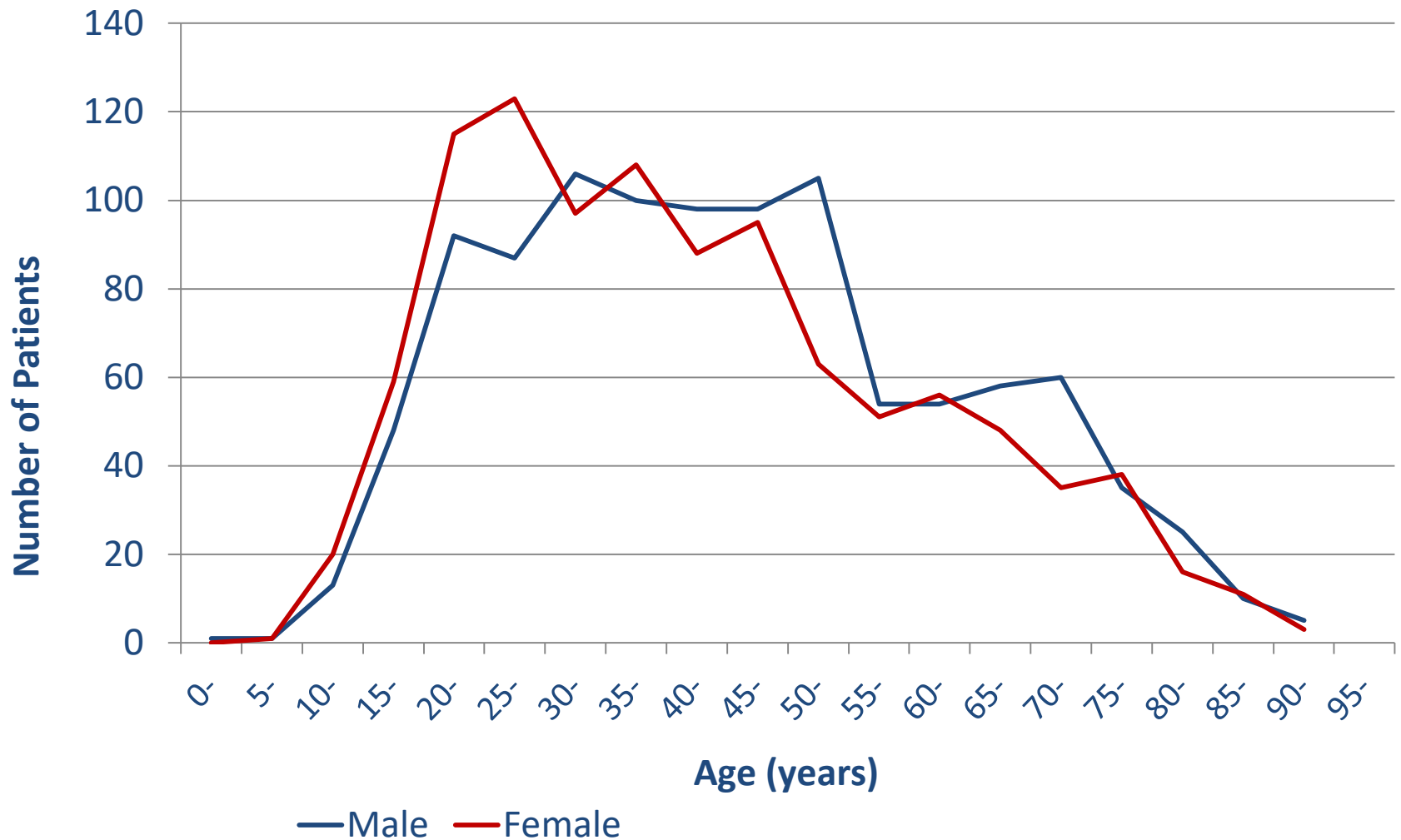
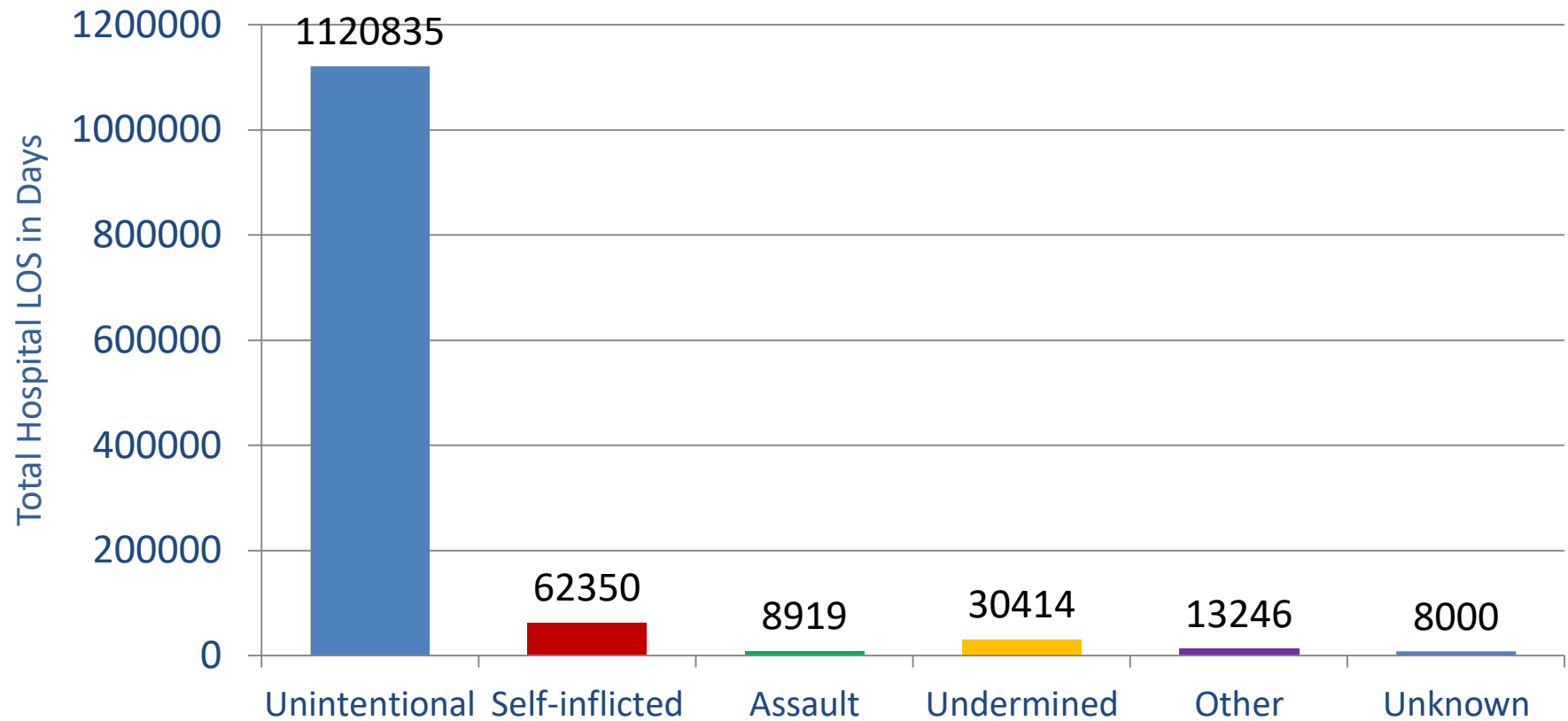
**Figure  
34****Self-inflicted by Age and Gender**

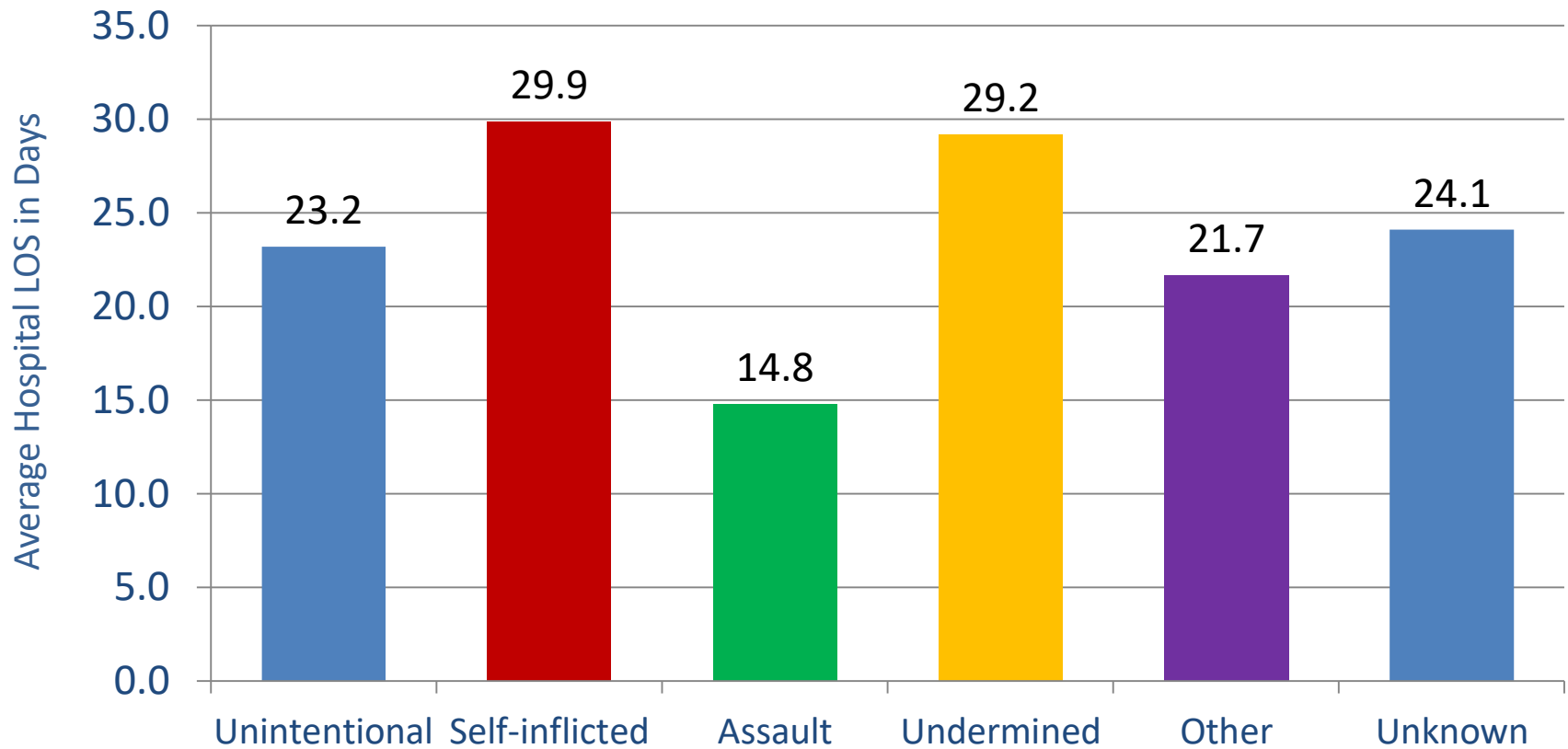
Table  
34**Self-inflicted by Age and Gender**

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-	Unkno wn	Total
Female	0	1	20	59	115	123	97	108	88	95	63	51	56	48	35	38	16	11	3		2	1029
Male	1	1	13	48	92	87	106	100	98	98	105	54	54	58	60	35	25	10	5		2	1052
Total	1	2	33	107	207	210	213	208	186	193	168	105	110	106	95	73	41	21	8		4	2082



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.**

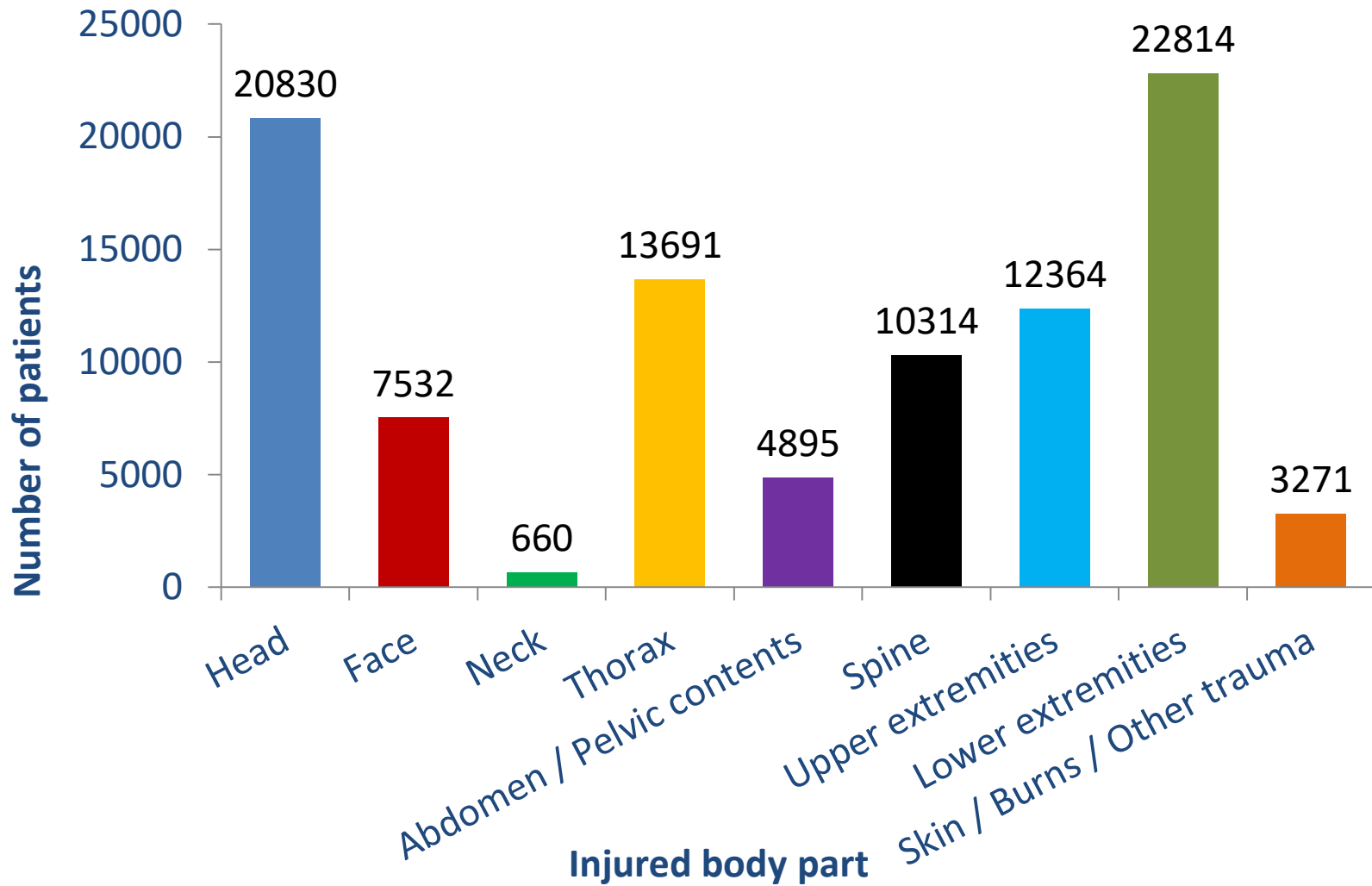
Figure  
36**Number of patients with Injured Body Parts based on AIS**

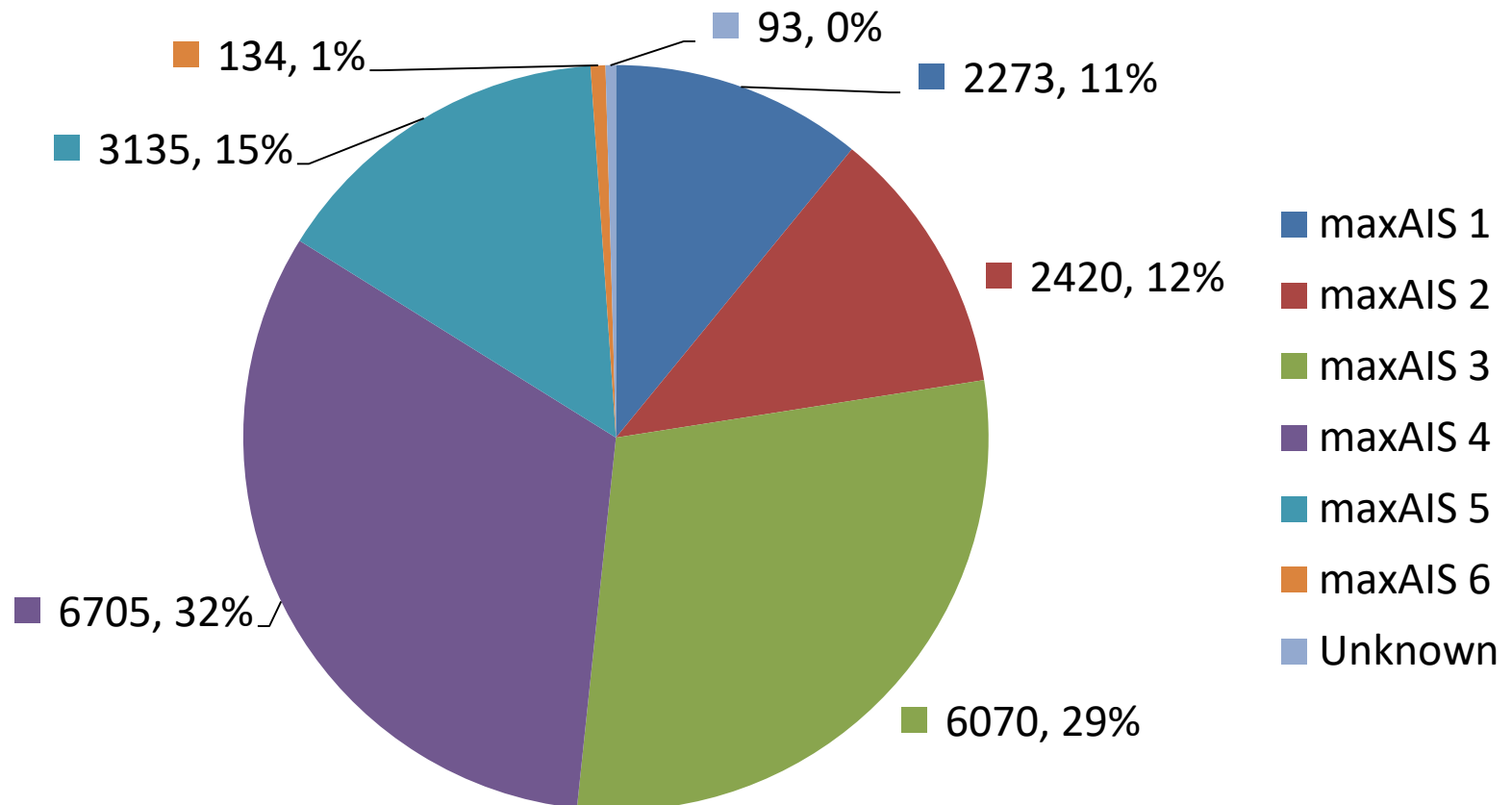
Figure  
37A**Head Injury and max AIS Score**

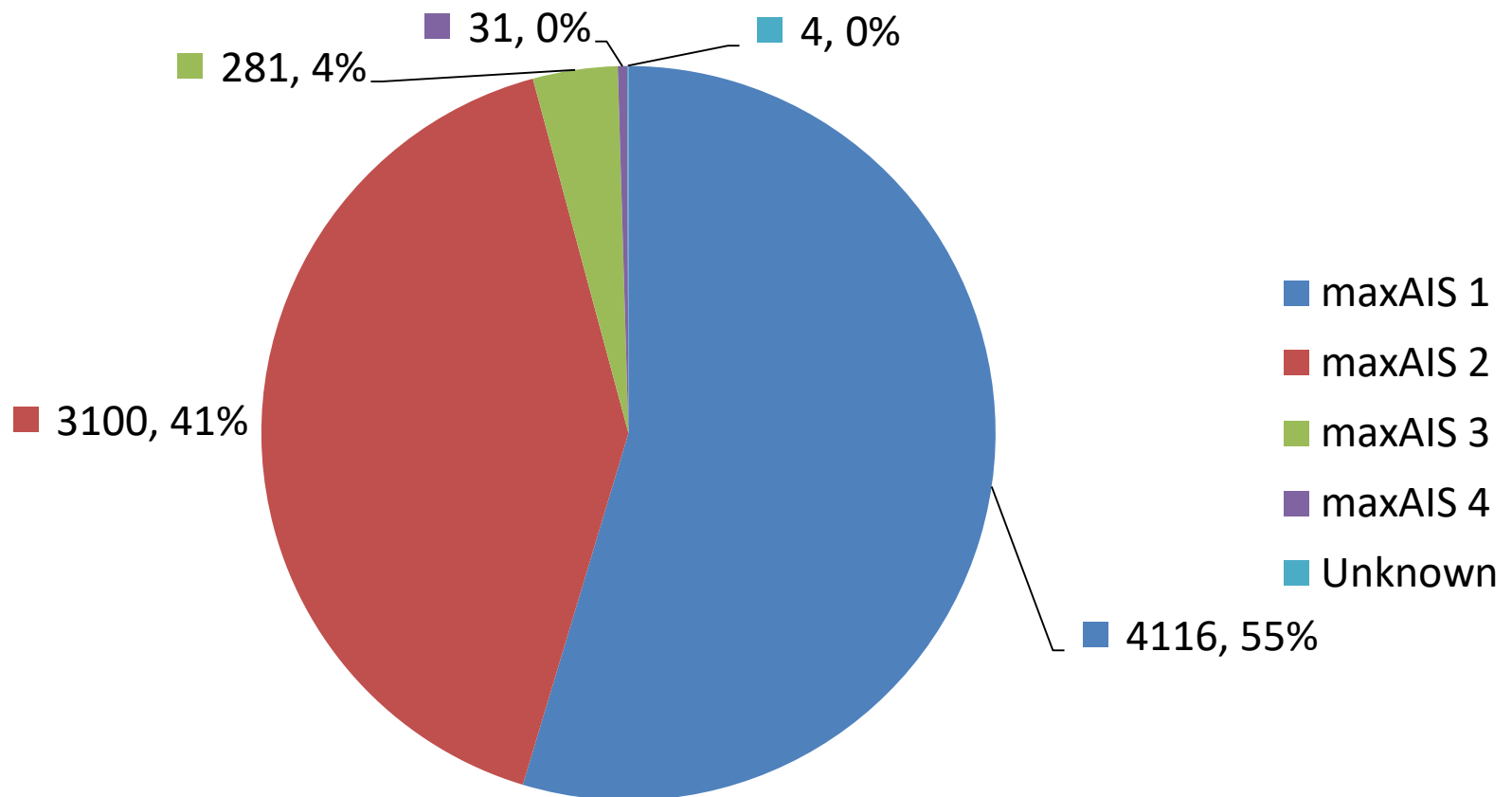
Figure  
37B**Facial Injury and max AIS Score**

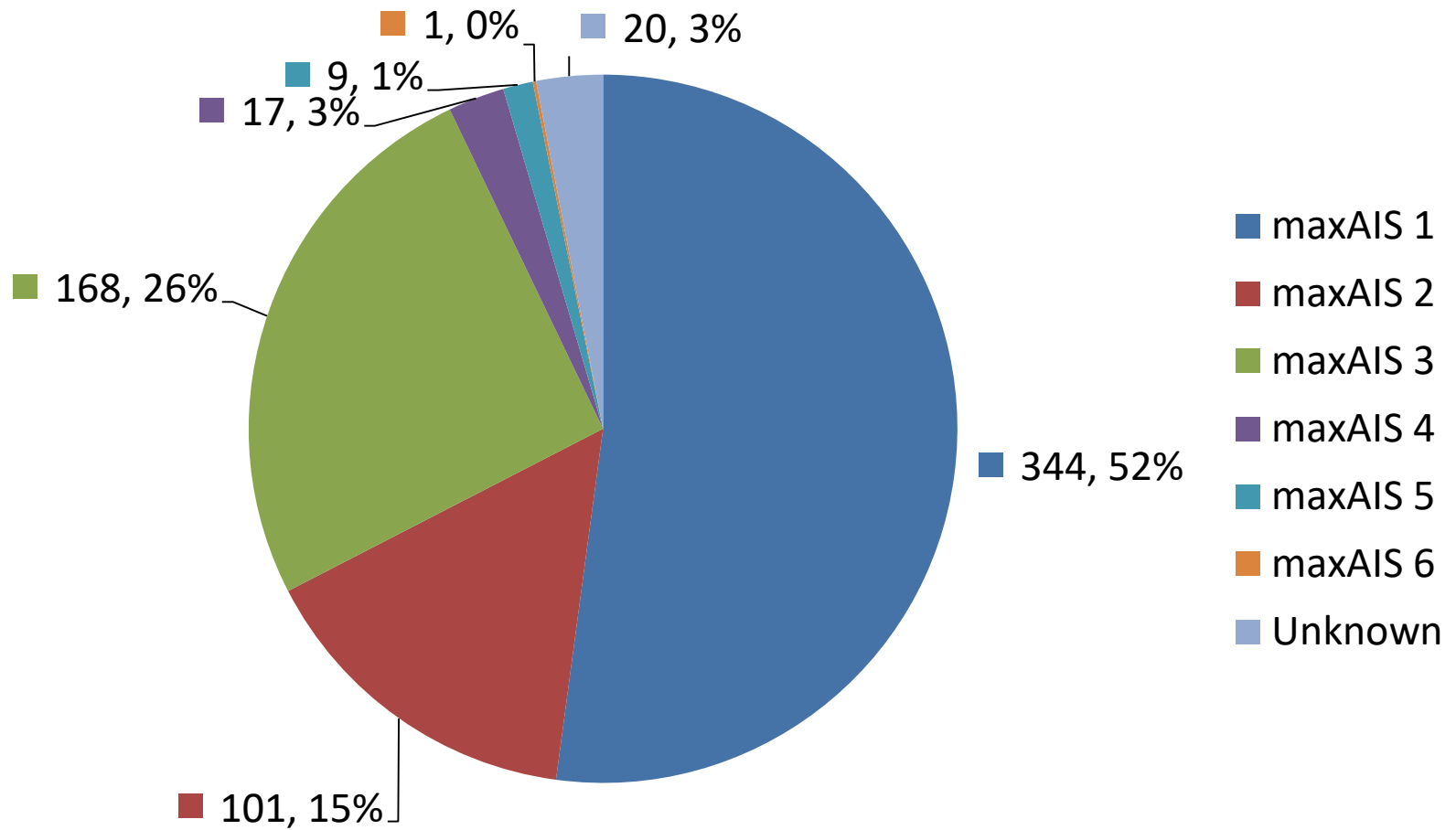
Figure  
37C**Neck Injury and max AIS Score**

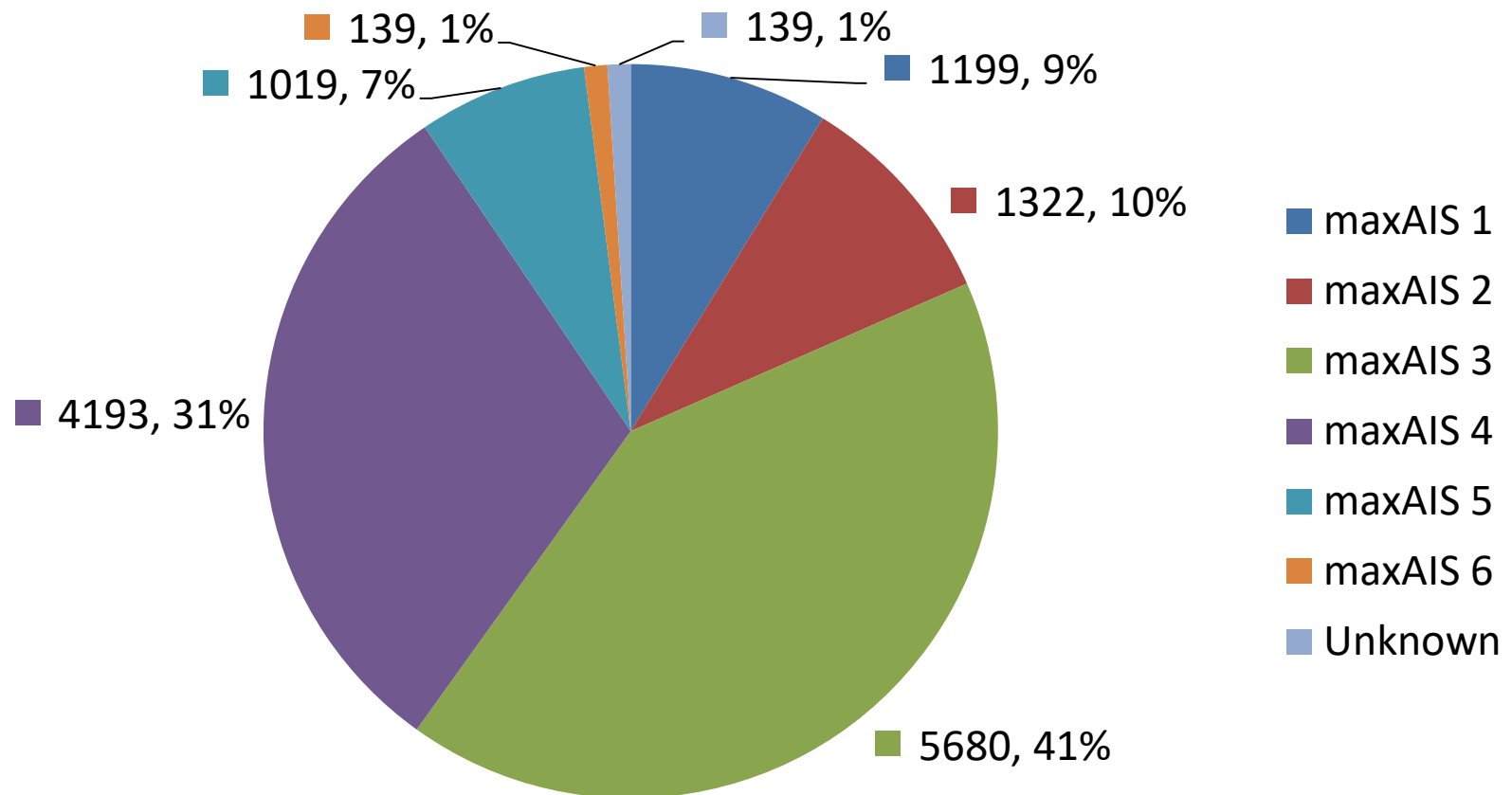
Figure  
37D**Thoracic Injury and max AIS Score**

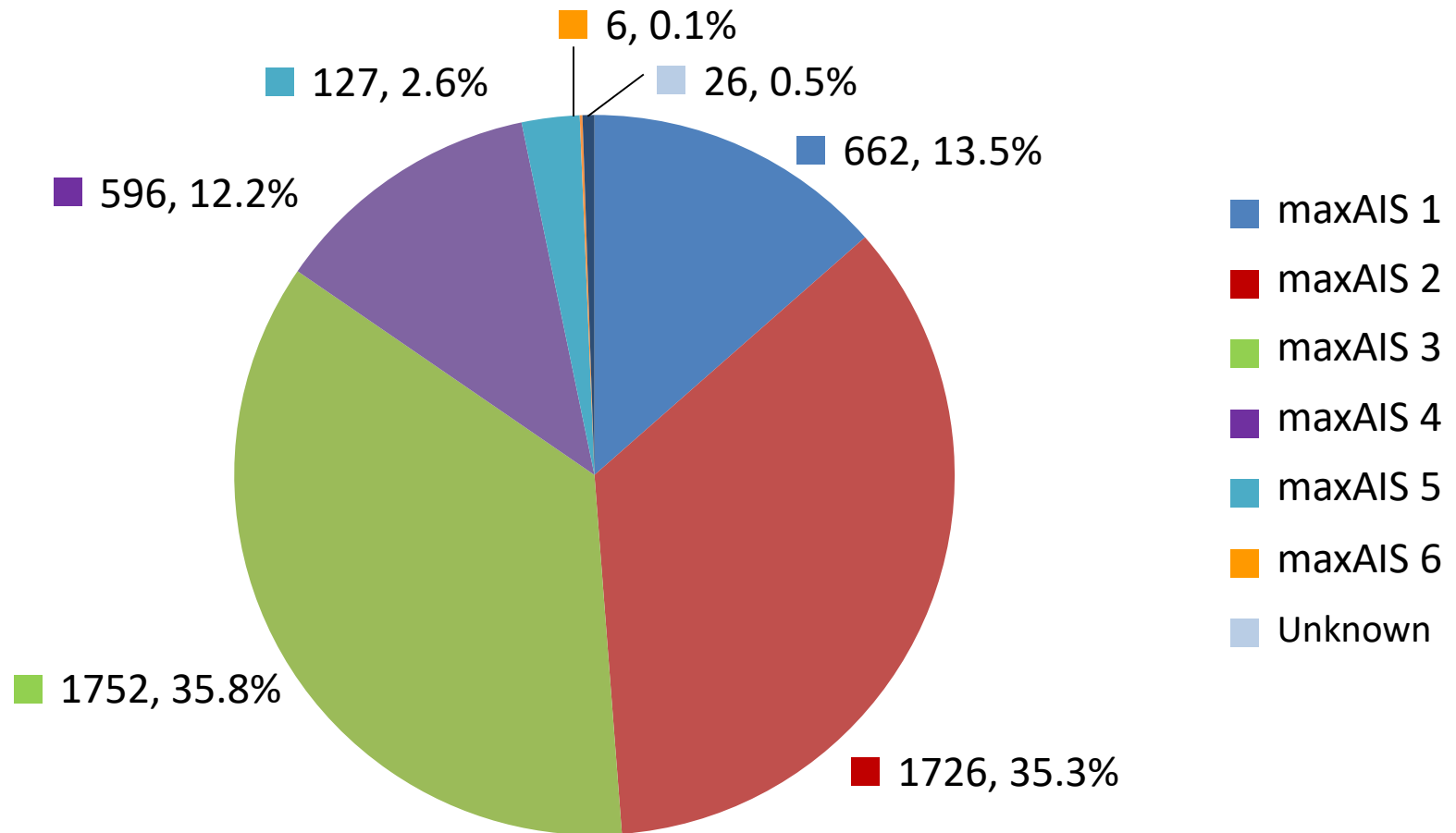
Figure  
37E**Injury of Abdomen/Pelvic Contents and max AIS Score**



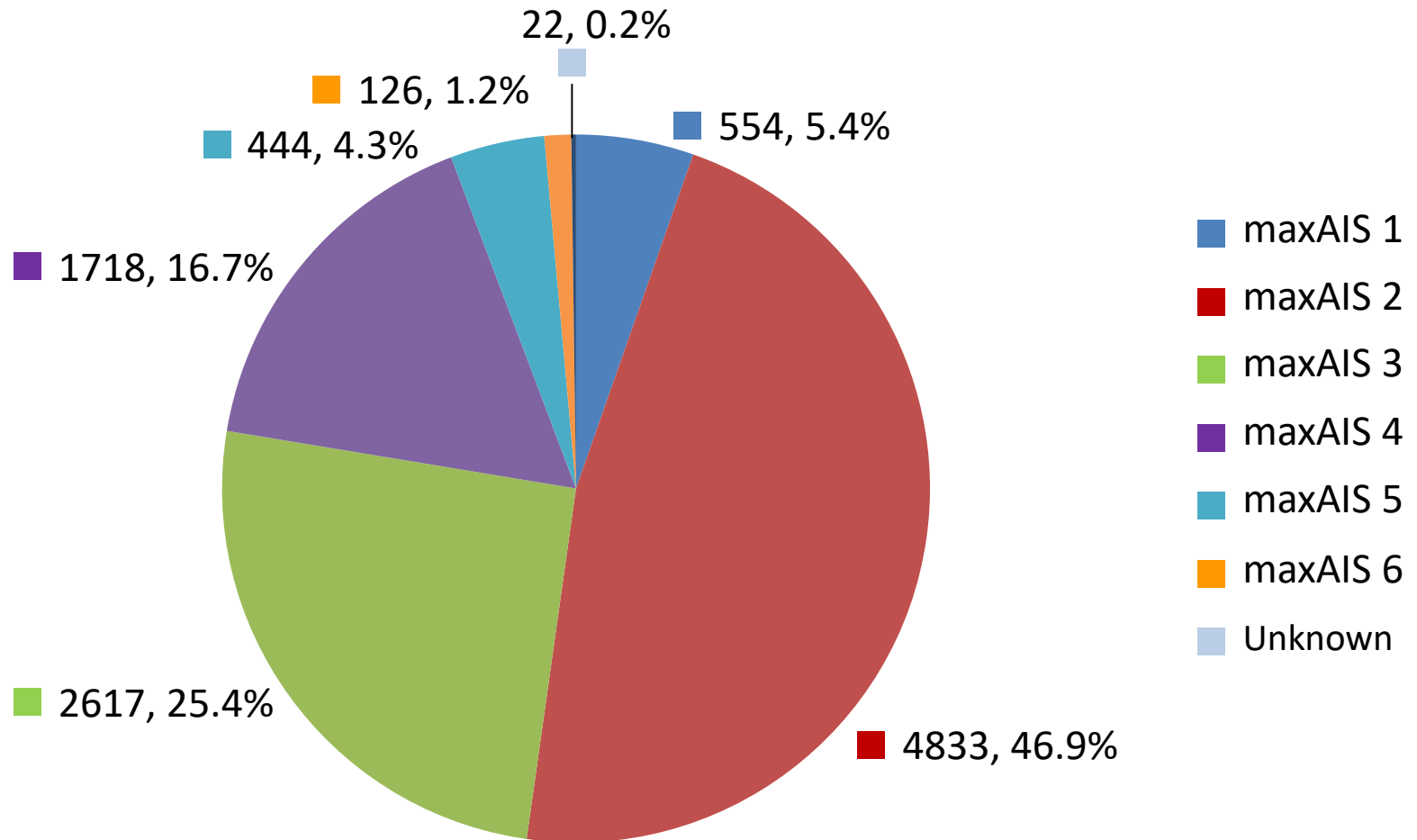
Figure  
37F**Spinal Injury and max AIS Score**

Figure  
37G

## Injury of Upper Extremities and max AIS Score

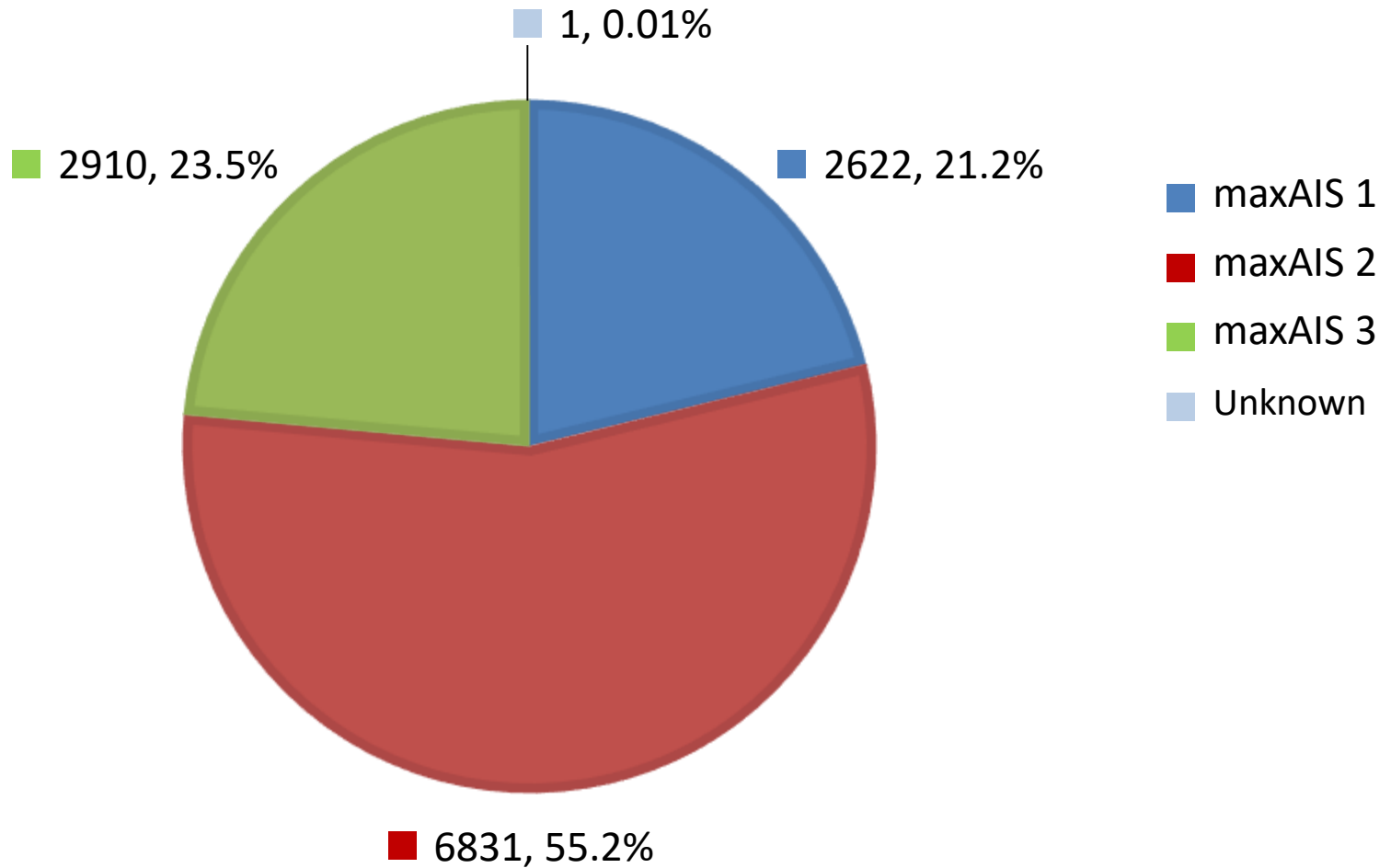
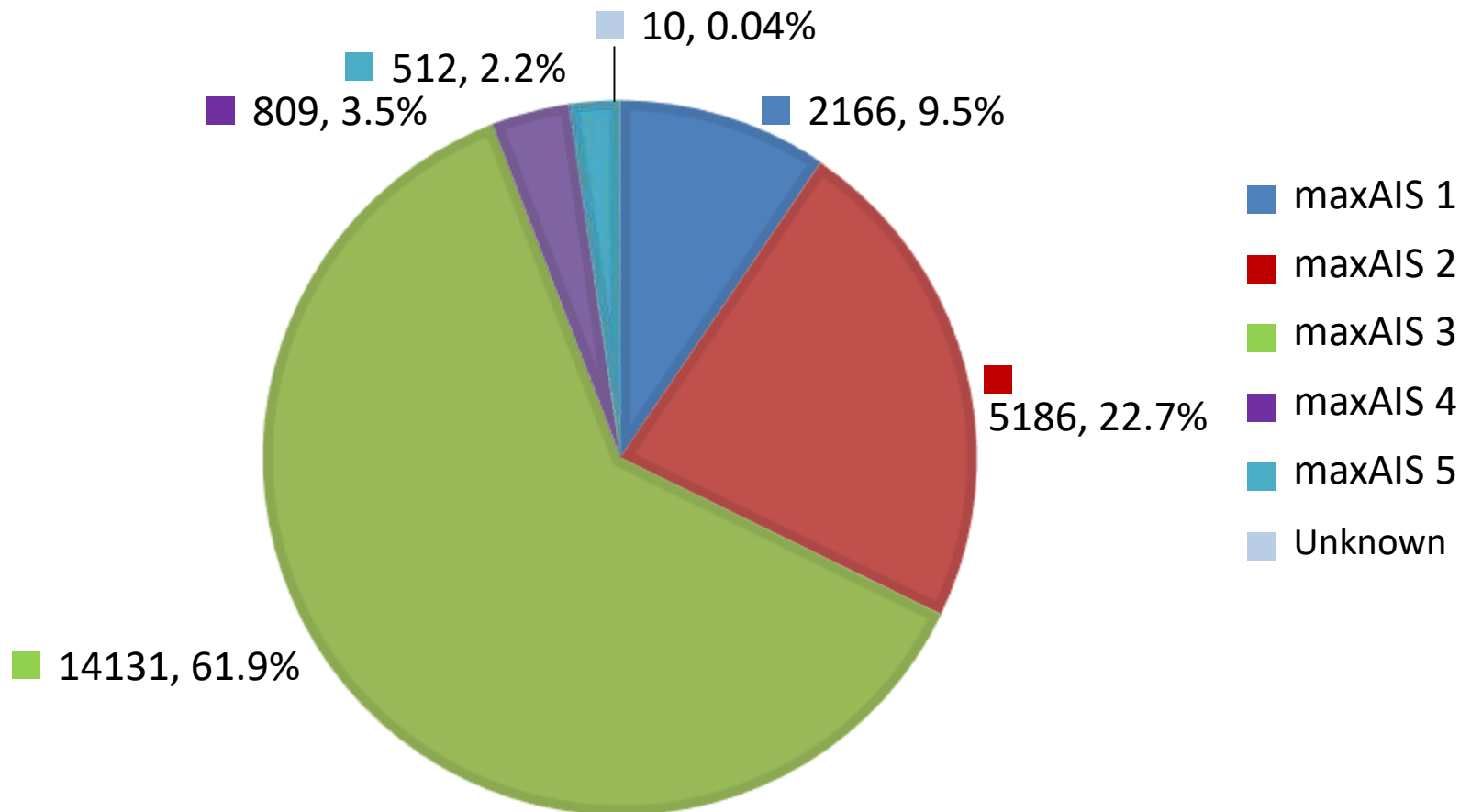
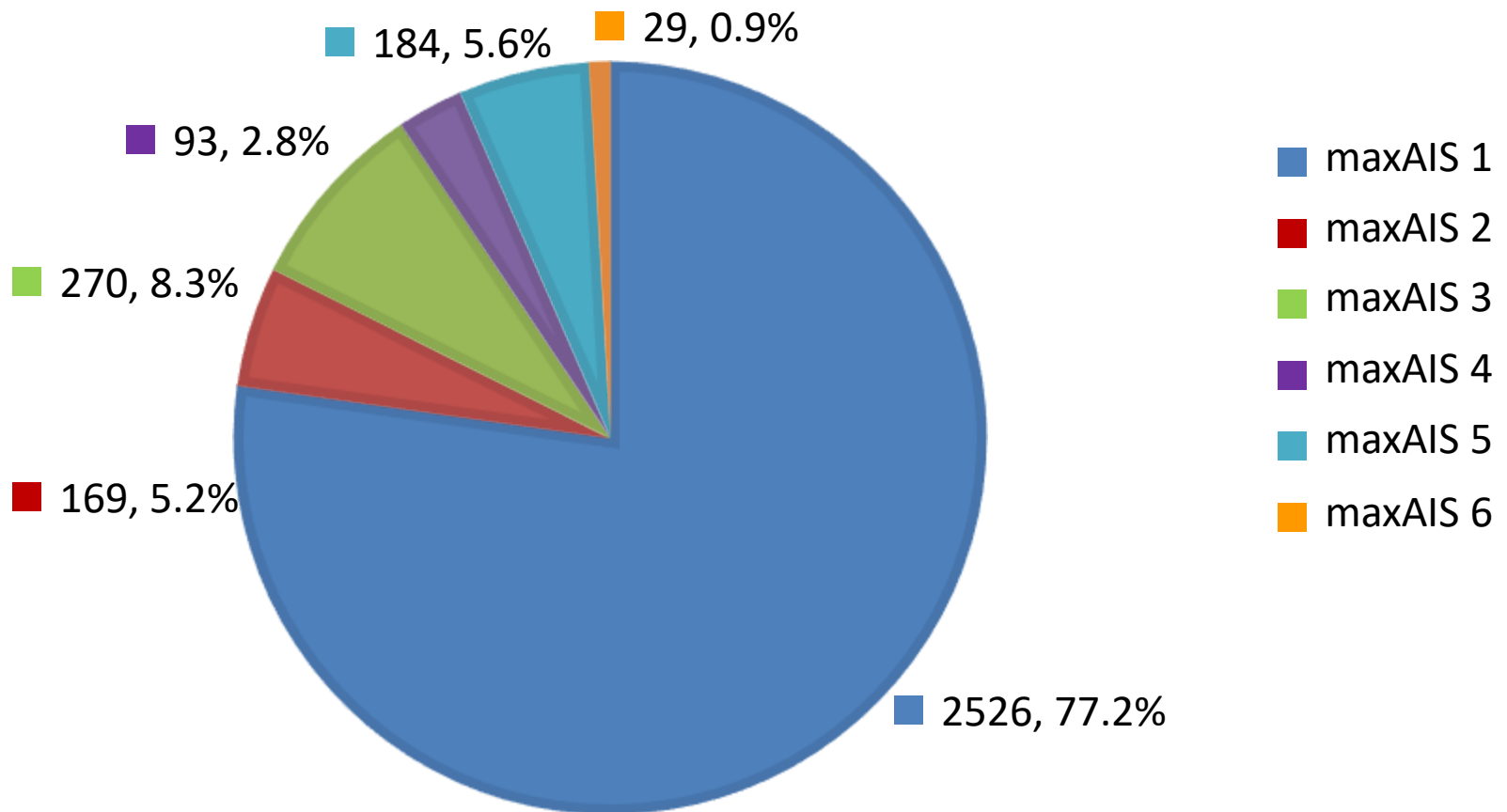
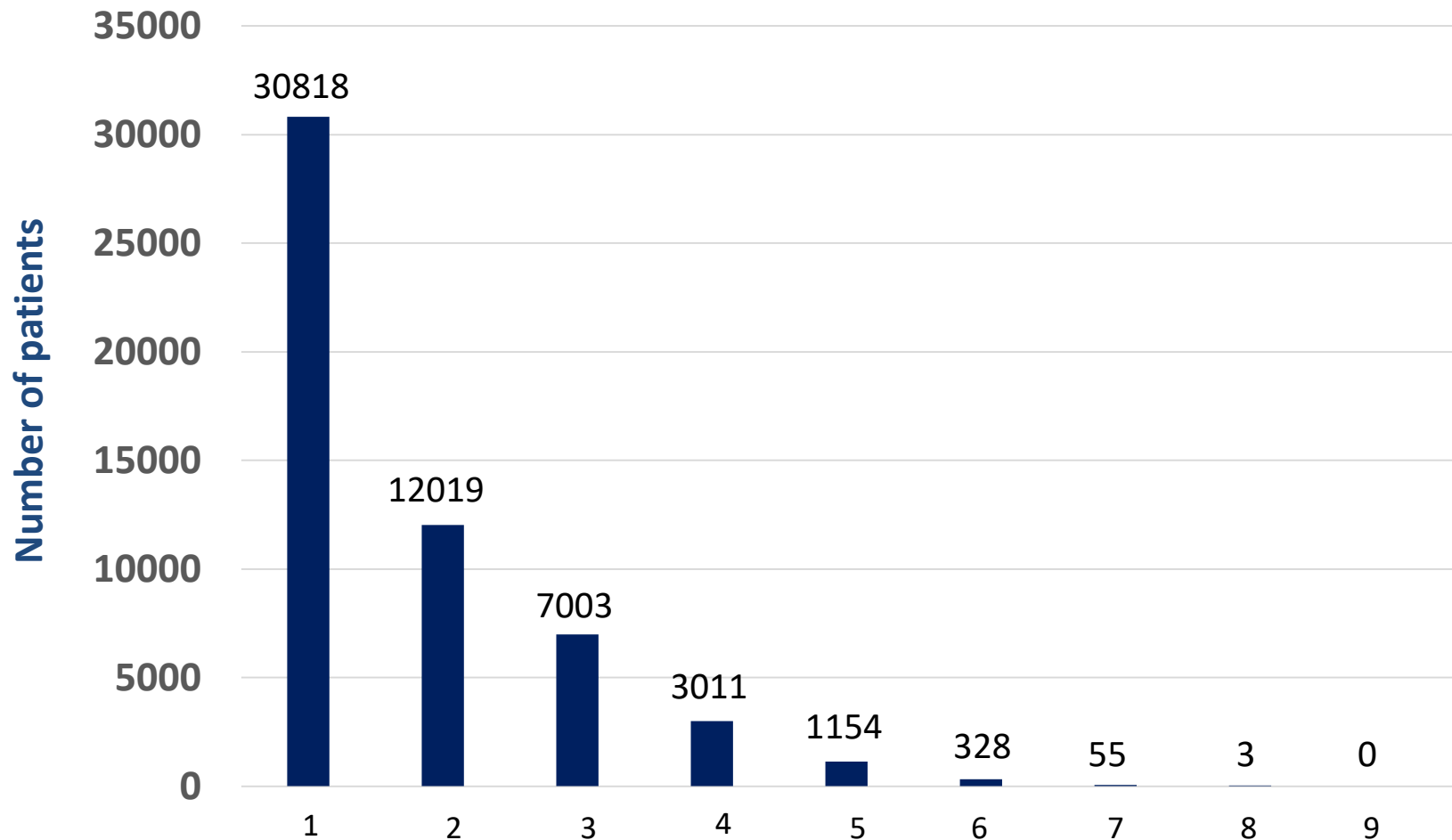


Figure  
37H**Injury of Lower Extremities and max AIS Score**

**Figure  
37I****Skin/Burns/Other Trauma and max AIS Score**

**Figure  
38****Number of Patients and Injured Body Parts based on AIS**

December 18, 2017

**JAPAN TRAUMA DATA BANK  
REPORT 2017 (2012-2016)**



**The Japanese Association for Acute Medicine**

**Trustee: Tetsuya Sakamoto, MD**

**Chairman: Naoto Morimura, MD**



**The Japanese Association for the Surgery of Trauma**

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