Japan Trauma Data Bank
Report 2004-2007

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)

Sapporo Medical University Hospital	Ohme Municipal General Hospital
Nikko Memorial Hospital	Tokyo Women's Medical University Hospital
Sapporo City General Hospital	Surugadai Nihon University Hospital
Hachinohe City Hospital	Kyorin University Hospital
Kuji Prefectural Hospital	Nippon Medical School Tama Nagayama Hospital
Iwate Medical University Hospital	Nippon Medical School Hospital
Aizu Central Hospital	National Hospital Organization National Disaster Medical Center
Ohta Nishinouchi Hospital	Tokyo Women's Medical University Medical Center East
Tsukuba Medical Center Hospital	Tokyo Medical University Hospital
Dokkyo Medical University Hospital	International Medical Center of Japan
Gunma University Hospital	Teikyo University Hospital
Critical Care Center, Saitama Medical University	Musashino Red Cross Hospital
National Defense Medical College Hospital	Metropolitan Hiroo Hospital
Koshigaya Hospital, Dokkyo University School Medicine	National Hospital Organization Tokyo Medical Center
Kawaguchi Municipal Medical Center	Showa General Hospital
Saitama Red Cross Hospital	Yokohama City Minato Red Cross Hospital
Kimitsu Chuou Hospital	Yokosuka General Hospital Uwamachi
Kameda General Hospital	Kitasato University Hospital
Chiba Emergency Medical Center	Showa University Fujigaoka Hospital
Nippon Medical School Chiba Hokusoh Hospital	Saiseikai Yokohama-city East Hospital
Asahi Central Hospital	Tokai University Hospital
Funabashi Municipal Medical Center	Yokohama City University Medical Center
Metropolitan Bokutoh Hospital	Kanto Rosai Hospital
Tokyo Medical and Dental University Hospital	Nippon Medical School Musashikosugi Hospital
Nihon University Itabashi Hospital	St. Marianna University School of Medicine Hospital
Numazu City Hospital	Wakayama Medical University Hospital
Aishinkai Ohsumi Kanoya Hospital	Ehime Prefectural Central Hospital

Figure 1A Names of All Hospitals Submitting Data to the JTDB (N=114, part 1)

National Hospital organization Yokohama Medical Center
Showa University Northern Yokohama Hospital
Toyama University Hospital
Toyama Prefectural Central Hospital
Yamanashi Prefectural Central Hospital
Shinshu University Hospital
Saku Central Hospital
Gifu University Hospital
JA Gifu Koseren Chunou Hospital
Seirei Mikatahara General Hospital
Okazaki City Hospital
Social Insurance Chukyo Hospital
Nagoya Ekiseikai Hospital
Aichi Medical University Hospital
Osaka City University Hospital
Kansai Medical University Hospital
Osaka General Medical Center
Osaka University Hospital
Saiseikai Senri Hospital
Kansai Medical University Takii Hospital
Kishiwada Tokushukai Hospital
Kinki University Hospital
Osaka Mishima Emergency Medical Center
Hanwa Memorial Hospital
Osaka Prefectural Senshu Critical Medical Care Center
Kochi Medical Center
Okinawa Prefectural Chubu Hospital
Kurume University Hospital
Iizuka Hospital
Kansai Rosai Hospital
Public Muraoka Hospital
Toyooka Public Hospital
Hyogo Emergency Medical Center
Kobe University Hospital
Nara Medical University Hospital
Nara Prefectural Nara Hospital
Okayama University Hospital
Kawasaki Medical School Hospital
Chugoku Rosai Hospital
Hiroshima Prefectural Hospital
Yamaguchi University Hospital
Tokushima Prefectural Miyoshi Hospital
Kagawa University Hospital
St. Maria's Hospital
Fukuoka University Hospital
Saiseikai Fukuoka General Hospital
Kokura Memorial Hospital
Kitakyushu General Hospital
Saga Prefectural Hospital Koseikan
Nagasaki Hospital Organization Nagasaki Medical Center
Keiaikai Nagasaki Hospital
Urasoe General Hospital
Shizuoka Red Cross Hospital
Toyohashi Municipal Hospital
Kenwakai-Ohtemachi Hospital
Kyushu University Hospital
Kitakyushu City Yahata Hospital
Ohita University Hospital
Prefectural Miyazaki Hospital

Figure 1B Names of All Hospitals Submitting Data to the JTDB (N=114, part 2)

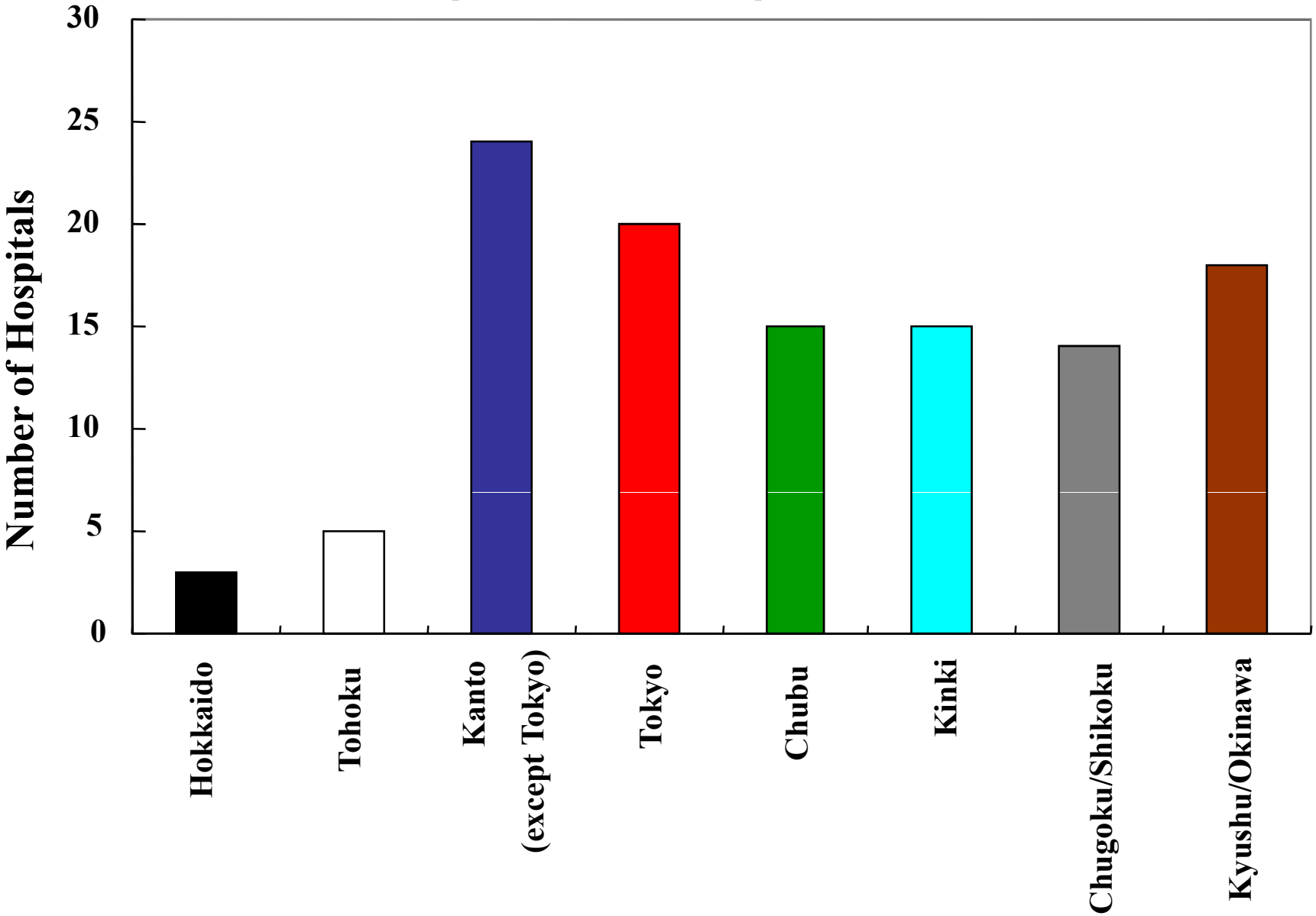

Figure 2 Number of Hospitals Submitting to the JTDB by Region

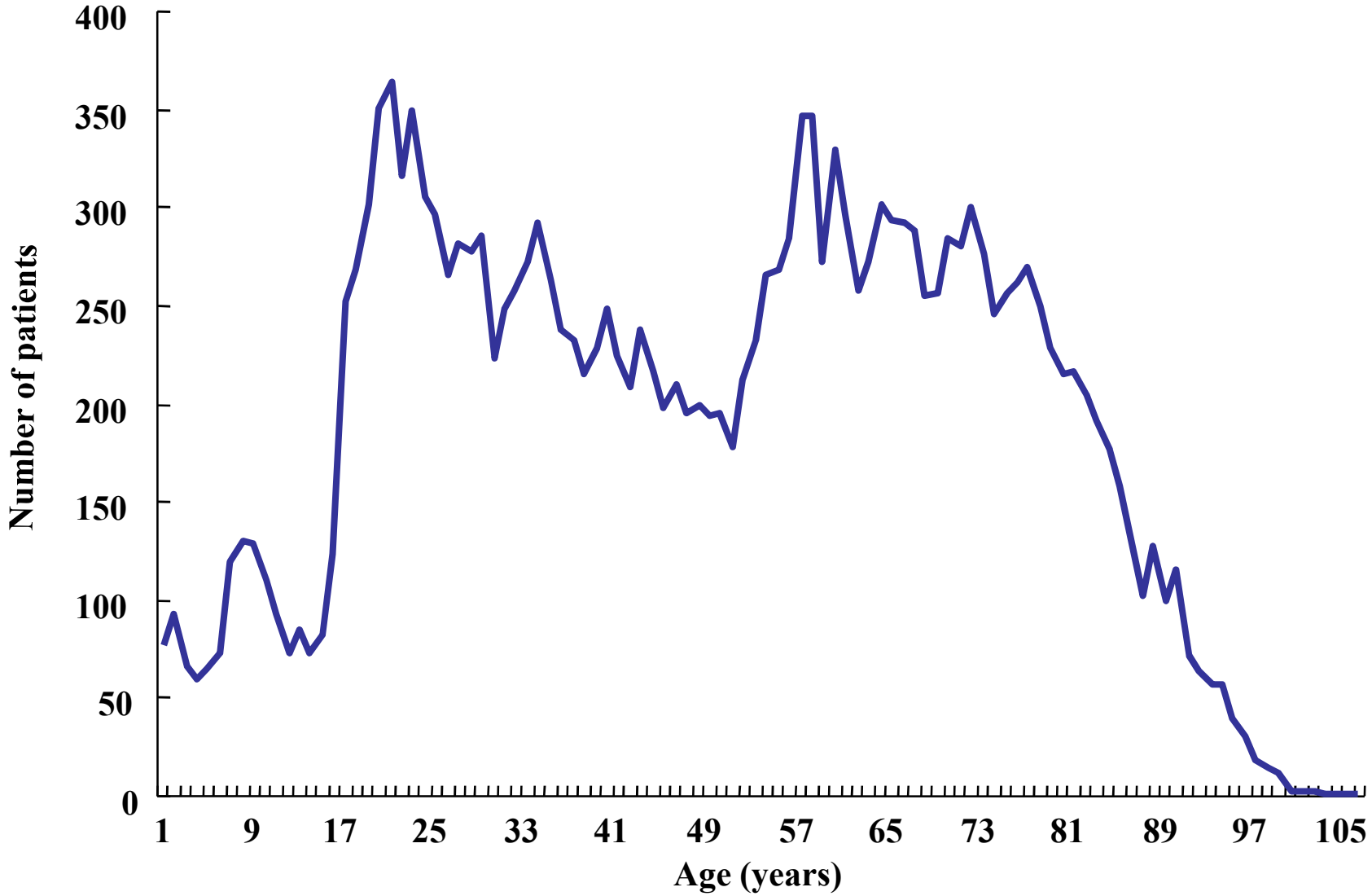

Figure 3 Number of tatients by Age

Two peaks were seen in the 20's and 50's.

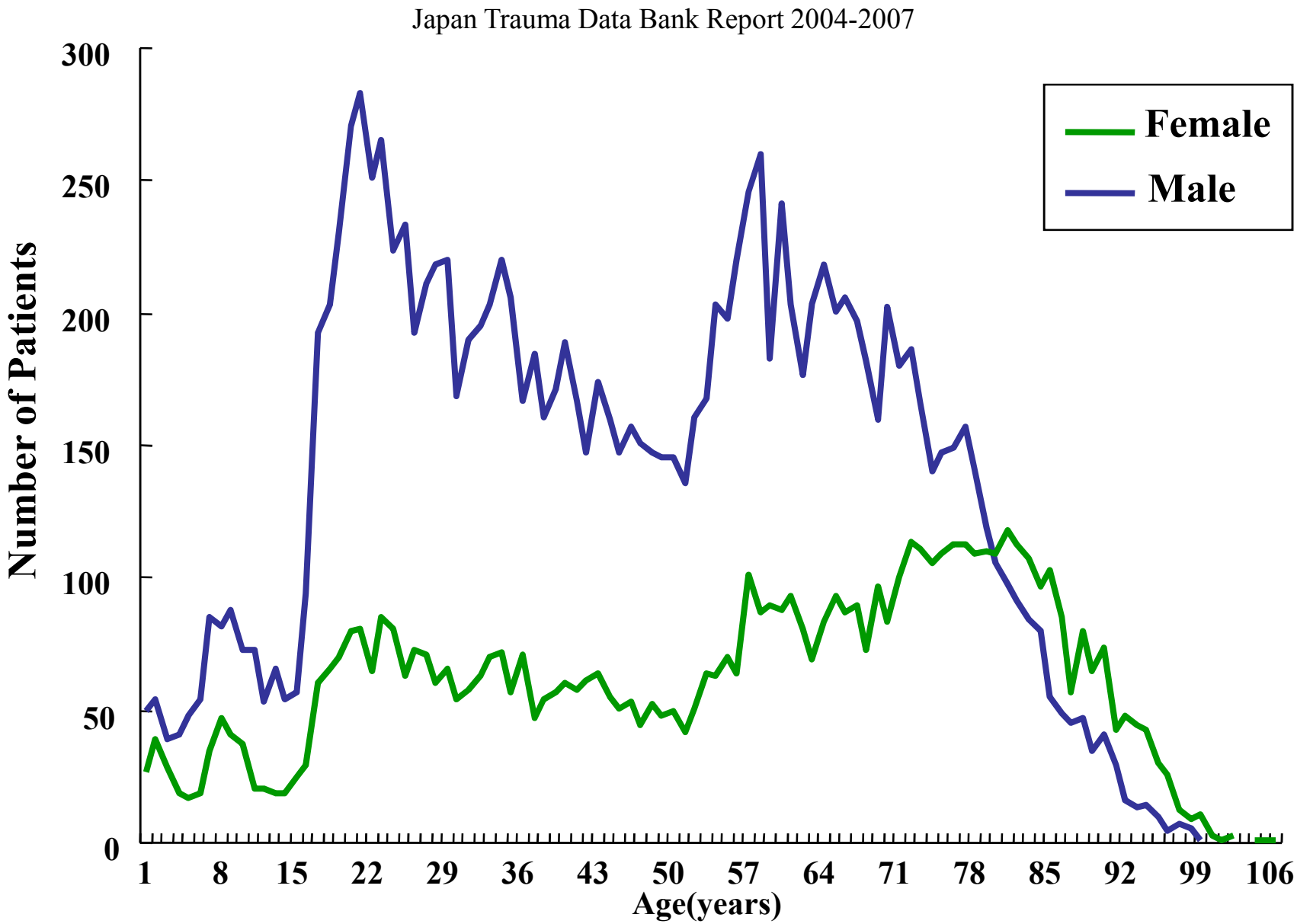

Figure 4 Patients by Age and gender

The peak pattern was the same as in Figure 3 in male patients

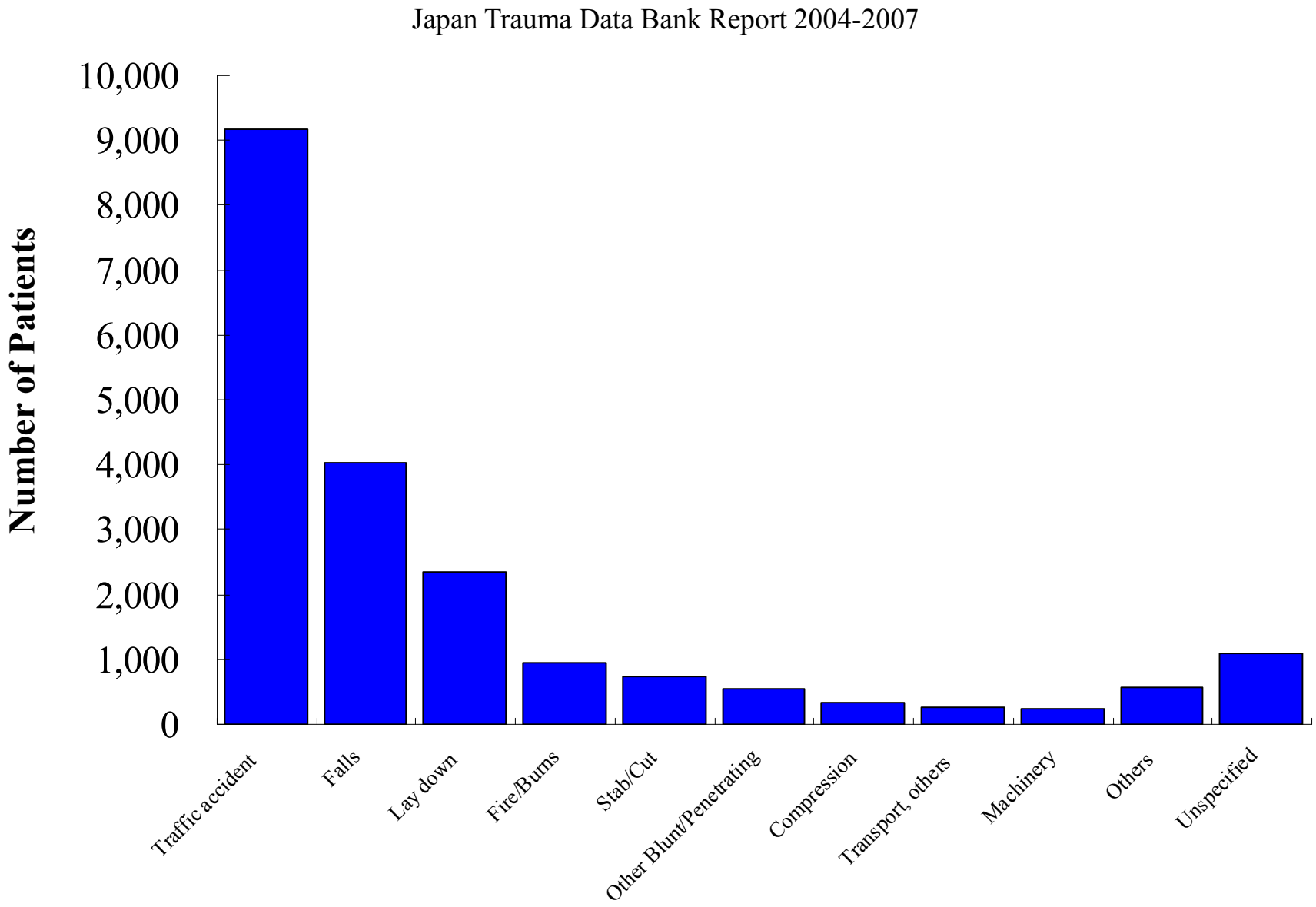

Figure 5 Patients by Mechanism of Injury

Traffic accident includes pedestrian victims.

Mechanism of injury	Patients (n)	Patients by mechanism of injury (n)
Traffic accident	9181	45.32
Falls	4029	19.89
Lay down	2350	11.60
Fire/Burns	947	4.67
Stab/Cut	743	3.67
Other Blunt/Penetrating	539	2.66
Compression	328	1.62
Related to sports	288	1.42
Transport, others	261	1.29
Machinery	234	1.16
Falling object	205	1.01
Impalement injury	27	0.13
Gunshot	18	0.09
House collapse/Landslide	12	0.06
Explosion	10	0.05
Unspecified	1085	5.36
Total	20257	100.00

Table 5 Patients by Mechanism of Injury

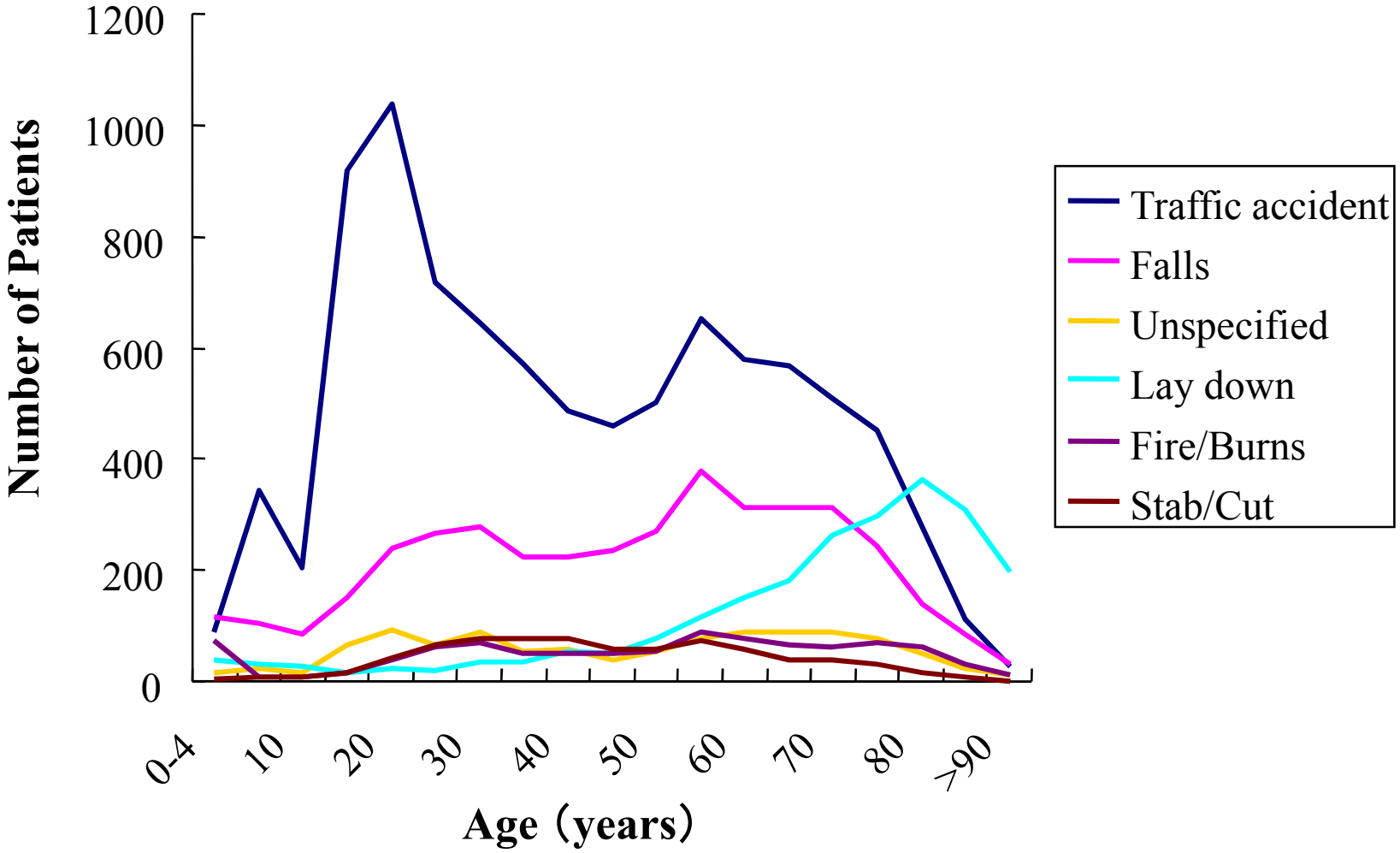

Figure 6　Mechanism of Injury by Age

Range of Age (yr)	Traffic accident (n)	% of total range of age (%)	Falls (n)	% of total range of age (%)	Unspecified (n)	% of total range of age (%)	Lay down (n)	% of total range of age (%)	Fire/Burns (n)	% of total range of age (%)	Stab/Cut (n)	% of total range of age (%)
<1	89	0.97	114	2.83	15	1.38	40	1.70	72	10.64	4	0.54
1-4	343	3.74	103	2.56	22	2.03	29	1.23	6	0.89	6	0.81
5-9	205	2.23	84	2.08	15	1.38	26	1.11	6	0.89	6	0.81
10-14	917	9.99	150	3.72	64	5.90	16	0.68	17	2.51	17	2.29
15-19	1039	11.32	238	5.91	93	8.57	22	0.94	38	5.61	44	5.92
20-24	718	7.82	266	6.60	64	5.90	20	0.85	60	8.86	64	8.61
25-34	646	7.04	277	6.88	88	8.11	33	1.40	68	10.04	79	10.63
35-39	572	6.23	225	5.58	53	4.88	33	1.40	52	7.68	77	10.36
40-44	487	5.30	223	5.53	56	5.16	55	2.34	52	7.68	76	10.23
45-49	458	4.99	235	5.83	39	3.59	52	2.21	49	7.24	56	7.54
50-54	503	5.48	269	6.68	53	4.88	77	3.28	55	8.12	56	7.54
55-59	654	7.12	379	9.41	79	7.28	114	4.85	90	13.29	72	9.69
60-64	577	6.28	314	7.79	89	8.20	151	6.43	77	11.37	56	7.54
65-69	568	6.19	314	7.79	90	8.29	182	7.74	66	9.75	39	5.25
70-74	511	5.57	312	7.74	88	8.11	264	11.23	61	9.01	37	4.98
75-79	450	4.90	244	6.06	76	7.00	299	12.72	71	10.49	29	3.90
80-84	276	3.01	140	3.47	49	4.52	362	15.40	60	8.86	17	2.29
85-89	112	1.22	85	2.11	25	2.30	309	13.15	30	4.43	6	0.81
90-94	28	0.30	30	0.74	13	1.20	195	8.30	13	1.92	1	0.13
95-99	7	0.08	7	0.17	1	0.09	59	2.51	2	0.30	1	0.13
Unspecified	21	0.23	20	0.50	13	1.20	12	0.51	2	0.30	0	0.00
Total	**9181**		**4029**		**1085**		**2350**		**947**		**743**	

Table 6 Mechanism of Injury by Range of Age

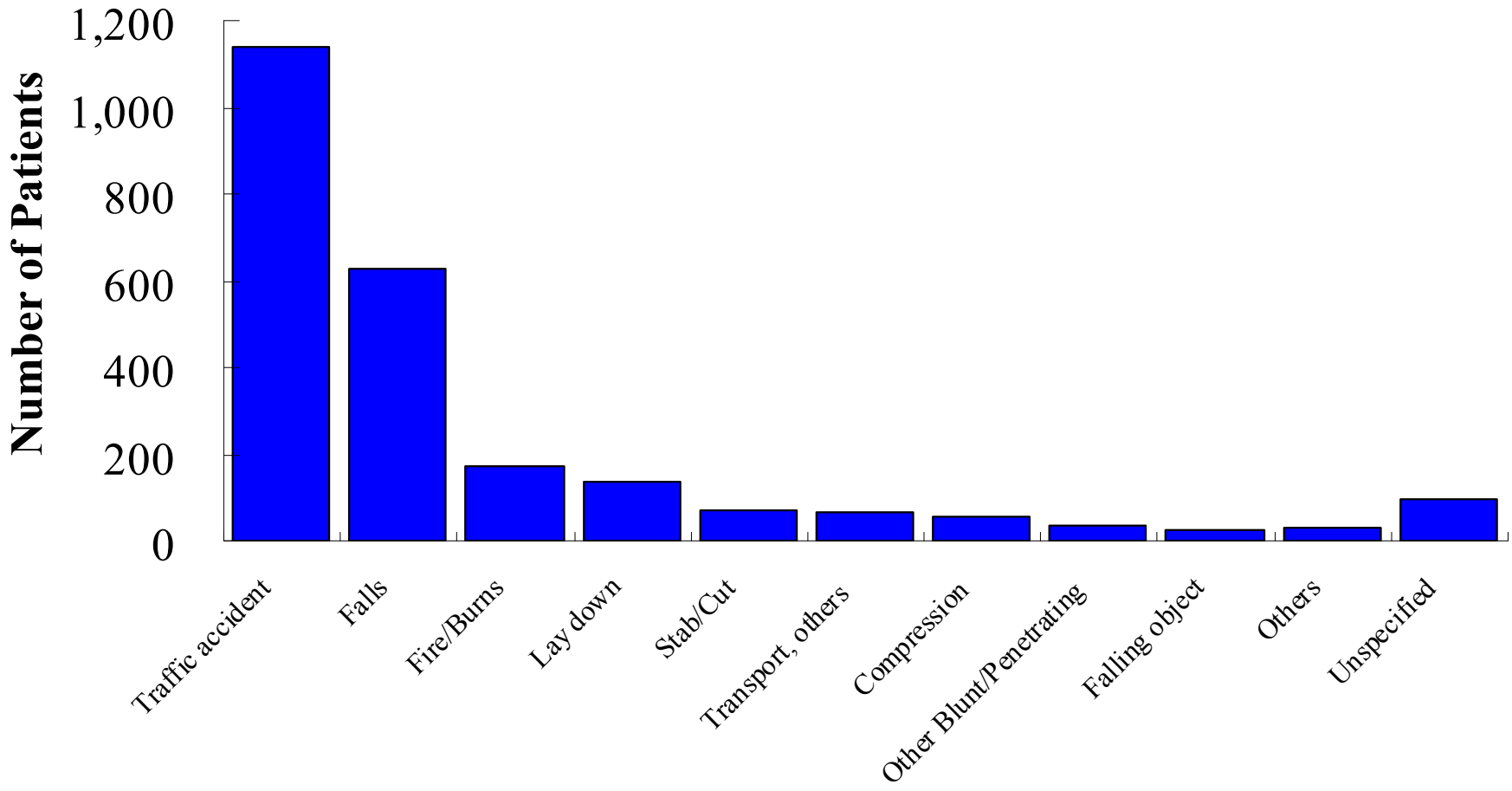

Figure 7　Deaths by Mechanism of Injury

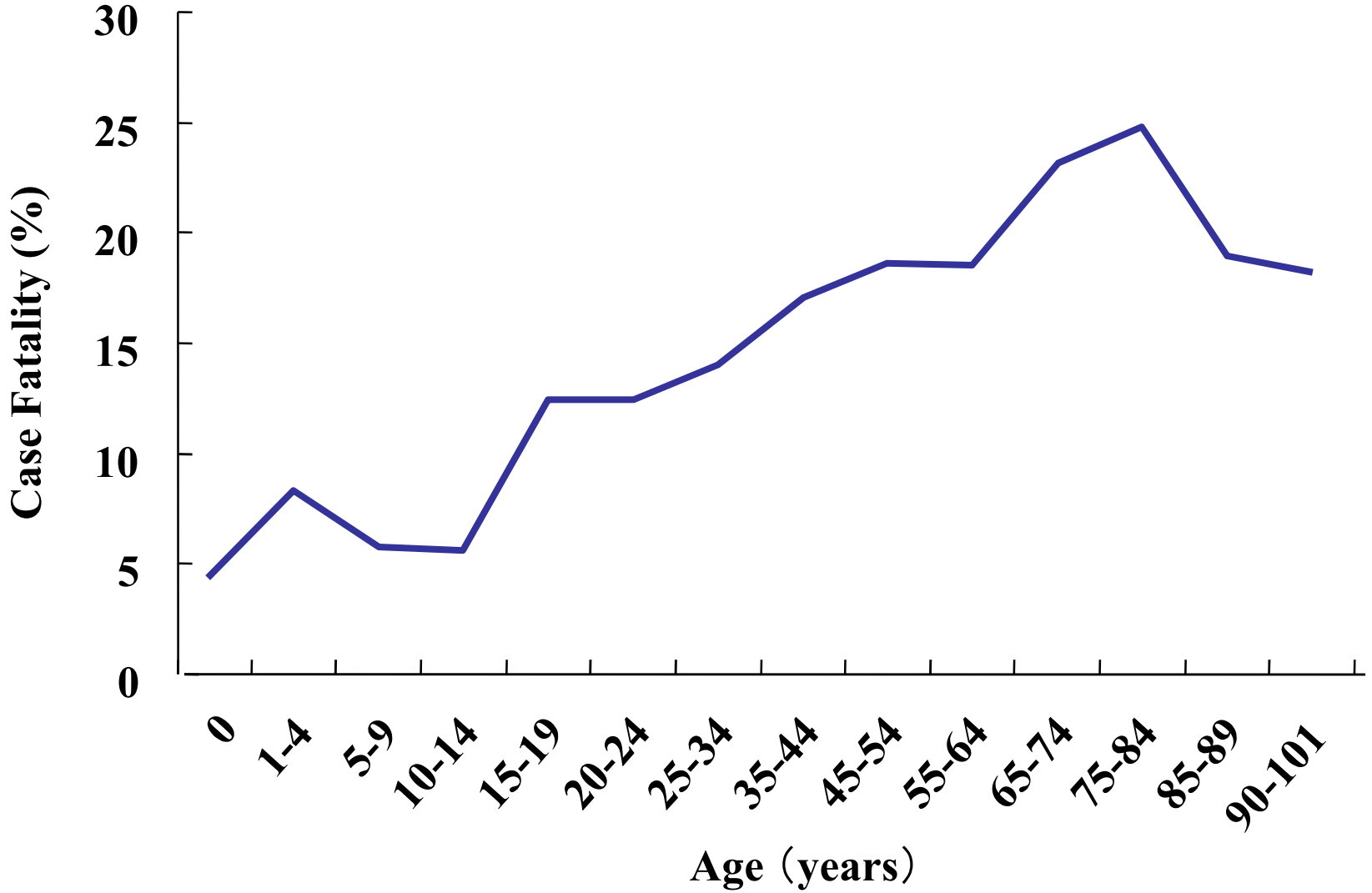

Figure 8 Case Fatality by Age

Age	Number of Patients	Number of Deaths	Case Fatality (%)
0	46	2	4.35
1-4	180	15	8.33
5-9	327	19	5.81
10-14	232	13	5.60
15-19	885	110	12.43
20-24	1162	145	12.48
25-34	1892	265	14.01
35-44	1540	263	17.08
45-54	1493	278	18.62
55-64	2073	385	18.57
65-74	1828	424	23.19
75-84	1539	382	24.82
85-89	433	82	18.94
90-101	269	49	18.22

Table 8 Case Fatality by Age

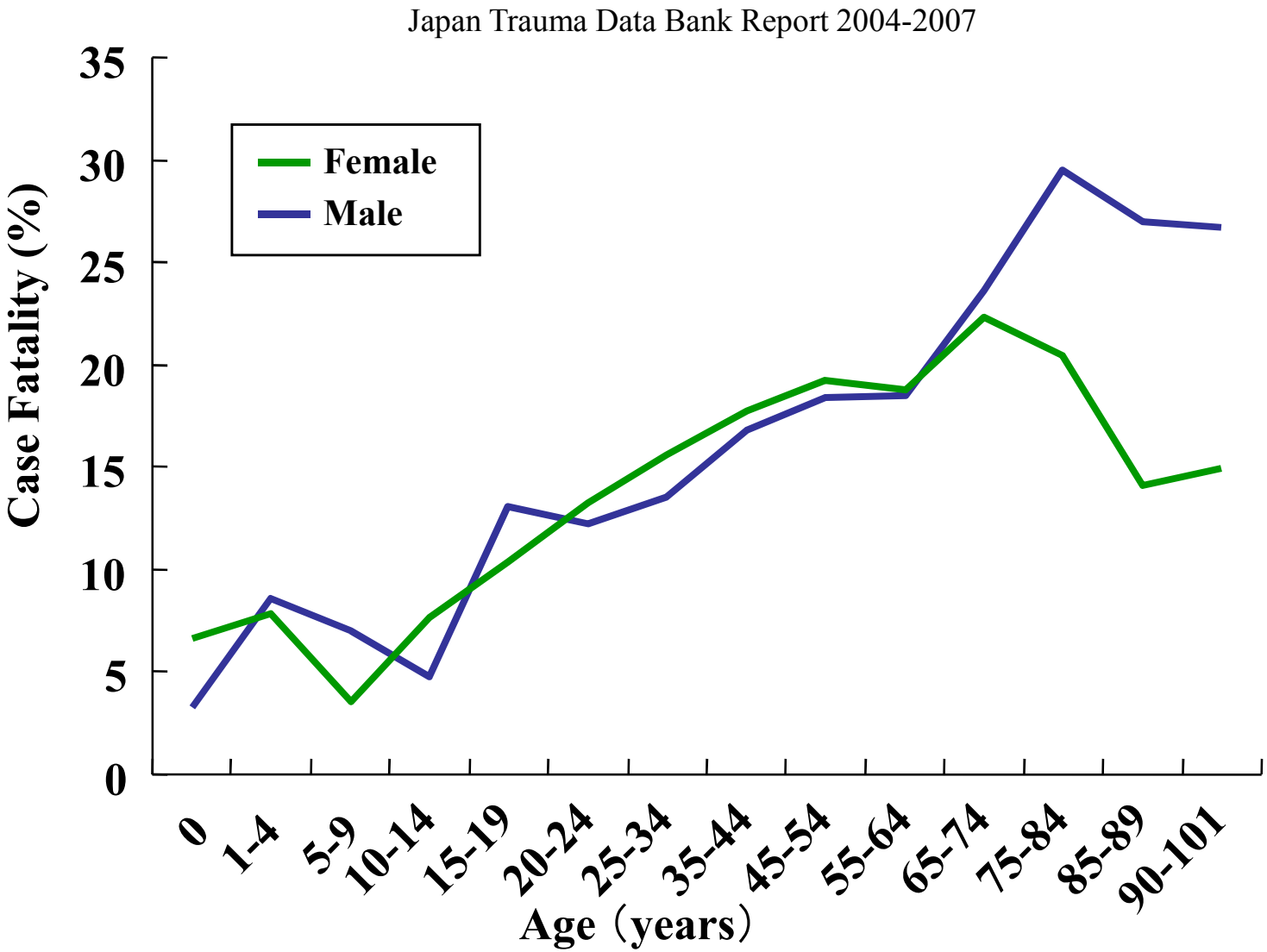

Figure 9 Case Fatality by Age

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

Age	Number of Patients (Male)	Number of Deaths	Case Fatality (%)	Number of Patients (Female)	Number of Deaths	Case Fatality (%)
0	31	1	3.23	15	1	6.67
1-4	116	10	8.62	64	5	7.81
5-9	213	15	7.04	114	4	3.51
10-14	167	8	4.79	65	5	7.69
15-19	673	88	13.08	212	22	10.38
20-24	905	111	12.27	257	34	13.23
25-34	1444	195	13.50	448	70	15.63
35-44	1134	191	16.84	406	72	17.73
45-54	1123	207	18.43	370	71	19.19
55-64	1476	273	18.50	597	112	18.76
65-74	1188	281	23.65	640	143	22.34
75-84	750	221	29.47	789	161	20.41
85-89	163	44	26.99	270	38	14.07
90-101	75	20	26.67	194	29	14.95

Table 9 Case Fatality of Age

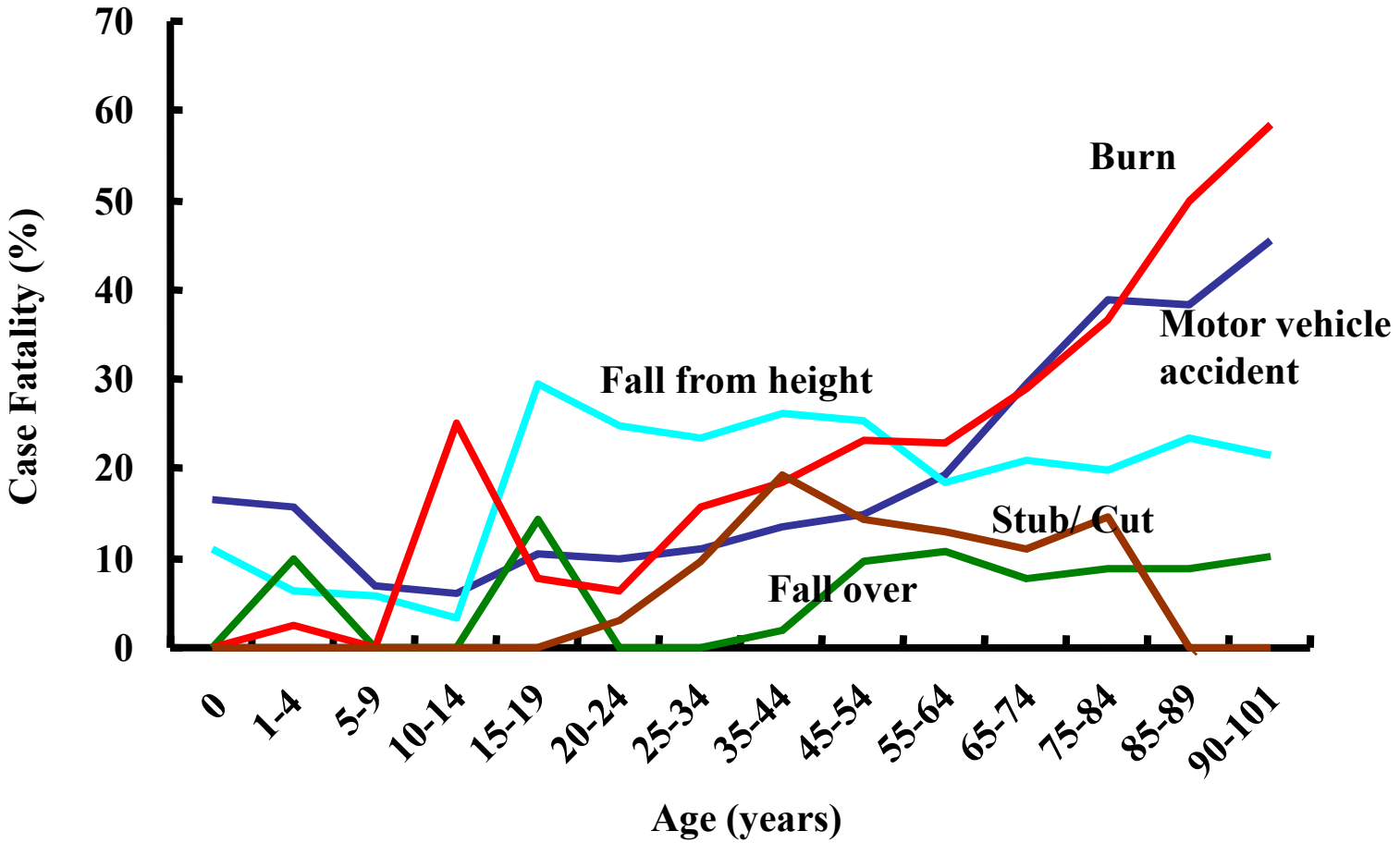

Figure 10 Case Fatality by Injury Mechanism and Age

Case fatality due to motor vehicle accidents and burns increased with age.

Age	Motor vehicle accident ; Number of Patients	Motor vehicle accident ; Number of Deaths	Motor vehicle accident ; Case Fatality (%)	Fall from height ; Number of Patients	Fall from height ; Number of Deaths	Fall from height ; Case Fatality (%)	Fall over ; Number of Patients	Fall over ; Number of Deaths	Fall over ; Case Fatality (%)
0	6	1	16.7	9	1	11.1	10	0	0.0
1-4	51	8	15.7	64	4	6.3	10	1	10.0
5-9	231	16	6.9	70	4	5.7	11	0	0.0
10-14	133	8	6.0	60	2	3.3	15	0	0.0
15-19	666	70	10.5	95	28	29.5	7	1	14.3
20-24	772	76	9.8	177	44	24.9	13	0	0.0
25-34	999	111	11.1	419	98	23.4	29	0	0.0
35-44	763	102	13.4	309	81	26.2	55	1	1.8
45-54	687	102	14.8	373	95	25.5	84	8	9.5
55-64	903	175	19.4	472	87	18.4	175	19	10.9
65-74	774	228	29.5	442	93	21.0	307	24	7.8
75-84	536	208	38.8	271	54	19.9	483	43	8.9
85-89	81	31	38.3	64	15	23.4	240	21	8.8
90-101	33	15	45.5	28	6	21.4	194	20	10.3

Age	Burn ; Number of Patients	Burn ; Number of Deaths	Burn ; Case Fatality (%)	Stab / Cut ; Number of Patients	Stab / Cut ; Number of Deaths	Stab / Cut ; Case Fatality (%)
0	15	0	0.0	0	0	0.0
1-4	39	1	2.6	3	0	0.0
5-9	4	0	0.0	3	0	0.0
10-14	4	1	25.0	2	0	0.0
15-19	13	1	7.7	13	0	0.0
20-24	31	2	6.5	33	1	3.0
25-34	108	17	15.7	104	10	9.6
35-44	81	15	18.5	109	21	19.3
45-54	86	20	23.3	84	12	14.3
55-64	135	31	23.0	100	13	13.0
65-74	100	29	29.0	54	6	11.1
75-84	98	36	36.7	41	6	14.6
85-89	26	13	50.0	6	0	0.0
90-101	12	7	58.3	2	0	0.0

Table 10 Case Fatality by Injury Mechanism and Age

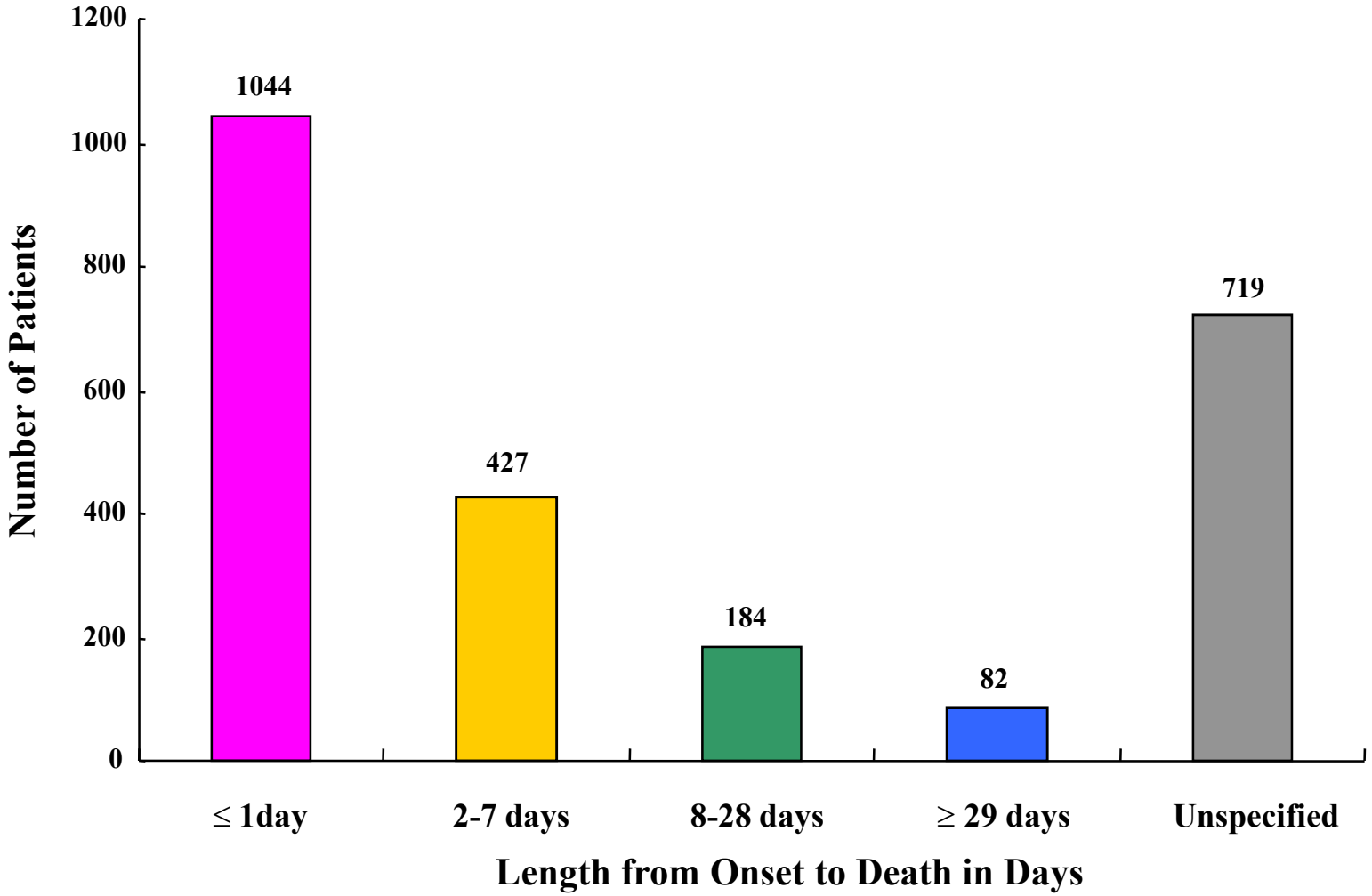

Figure 11A Proportional Distribution of Length from Onset to Fatality
The category within 1 day after onset includes CPAOA patients. Total N = 2,456

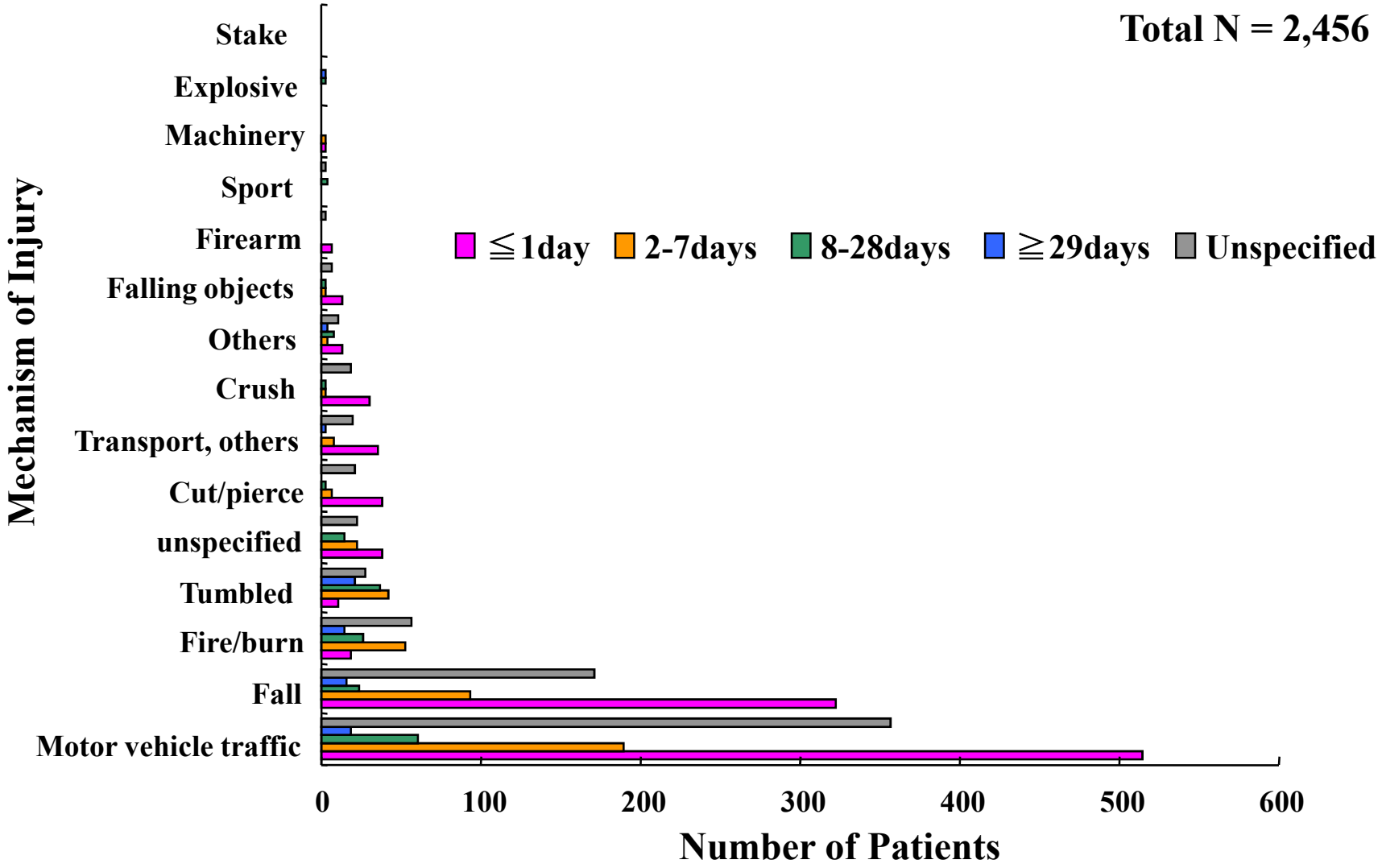

Figure 11B Proportional Distribution of Length from Onset to Fatality, Grouped by Mechanism of Injury

	Motor vehicle traffic	Fall	Fire / burn	Tumbled	unspecified	Cut / pierce	Transport, others	Crush
within 1 day	514	322	18	11	38	38	35	30
2-7 days	190	94	53	42	22	6	8	2
8-28 days	61	24	26	37	14	3	0	2
29 days ≦	18	16	14	21	1	1	2	1
unspecified	357	171	57	28	23	21	20	19

	others	Falling objects	Firearm	Sport	Machinery	Explosive	Stake	total
Within 1 day	13	13	7	1	3	1	0	1,044
2-7 days	4	2	1	1	2	0	0	427
8-28 days	8	3	0	4	0	2	0	184
29 days ≦	4	1	0	1	0	2	0	82
unspecified	10	7	2	2	1	1	0	719

Table 11B Proportional Distribution of Length from Onset to Fatality, Grouped by Mechanism of Injury

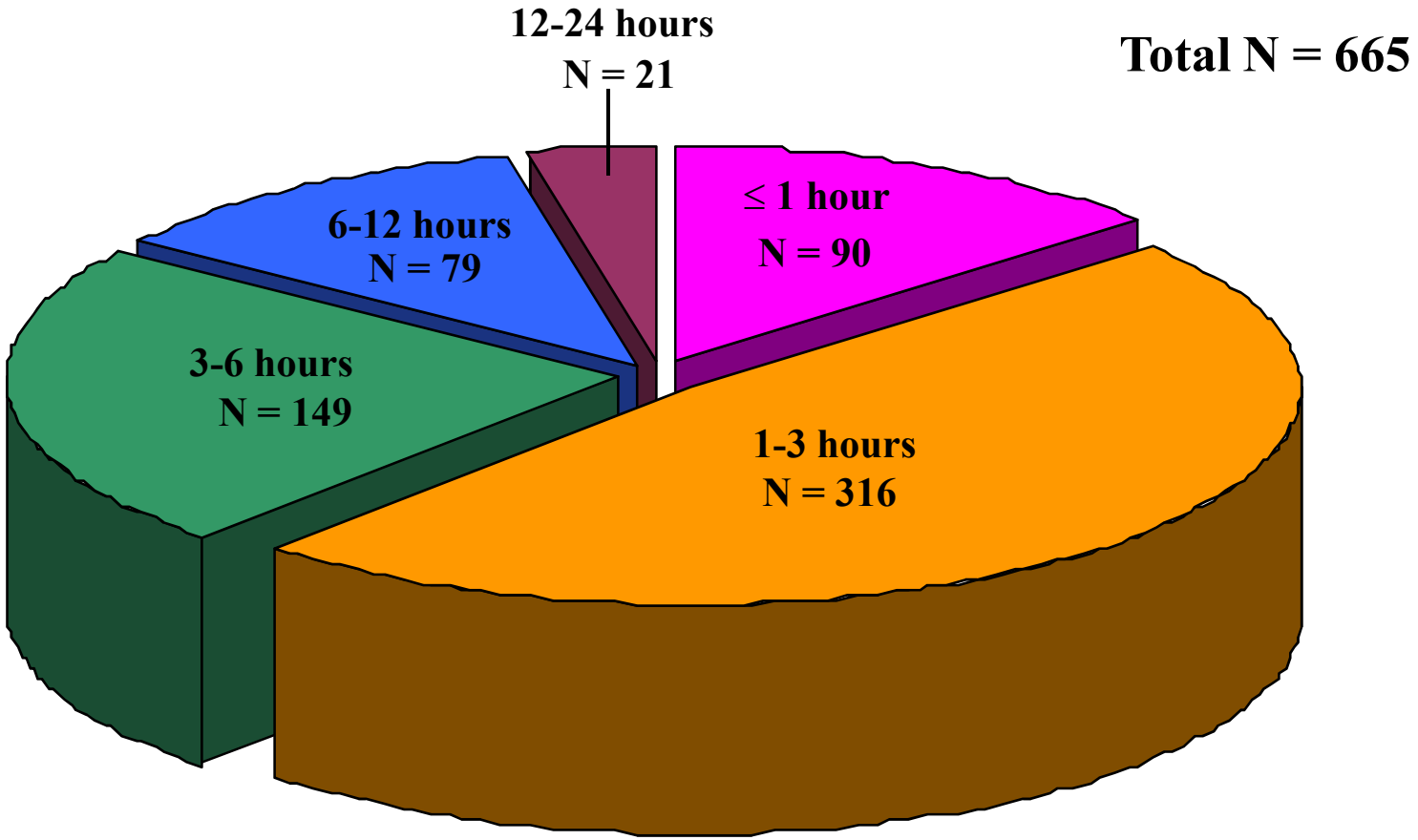

Figure 11C Proportional Distribution of Length from Onset to Fatality within 24 hours

Total N = 665 (Of the 1,044 cases in Figure 11A, 665 cases were valid.)

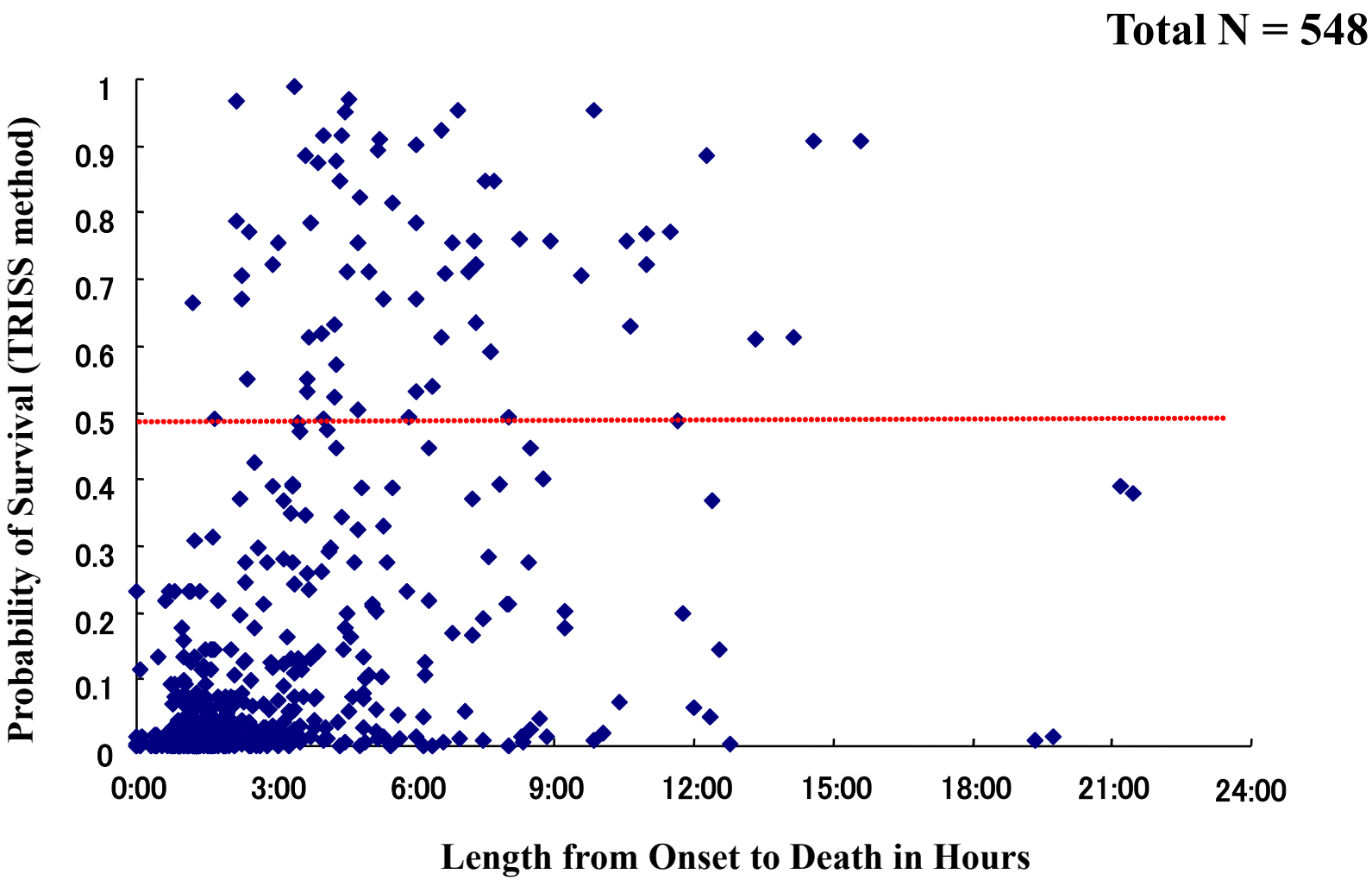

Figure 11D Probability of Survival and Length from Onset to Death in Hours

This figure includes trauma-induced CPAOA cases.

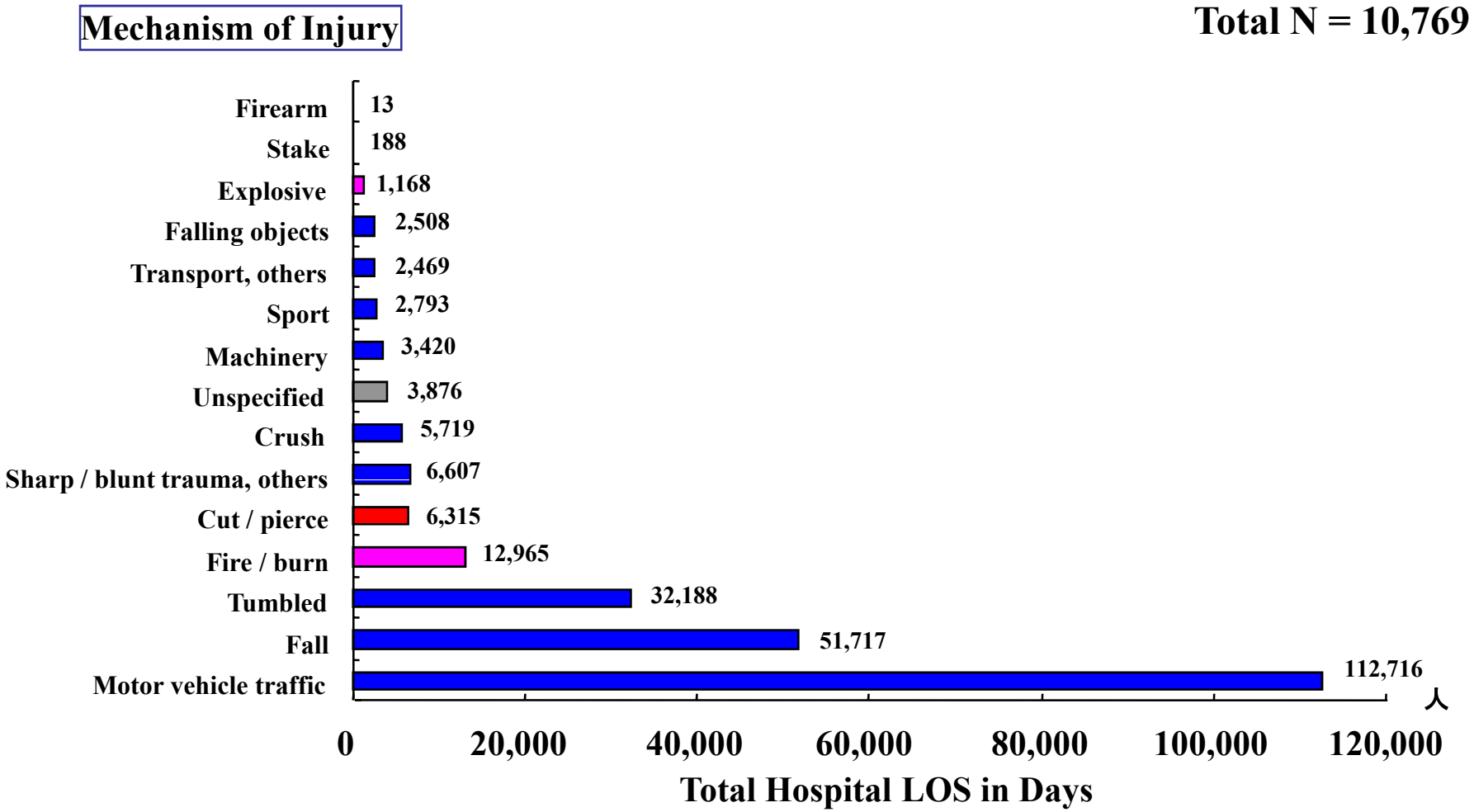

Figure 12 Total hospital LOS by Mechanism of Injury
Proportional distribution of total hospital length of stay, grouped by mechanism.
Total number of patients are 10,769. Total hospital length of stay of all patients are 244,662 days.

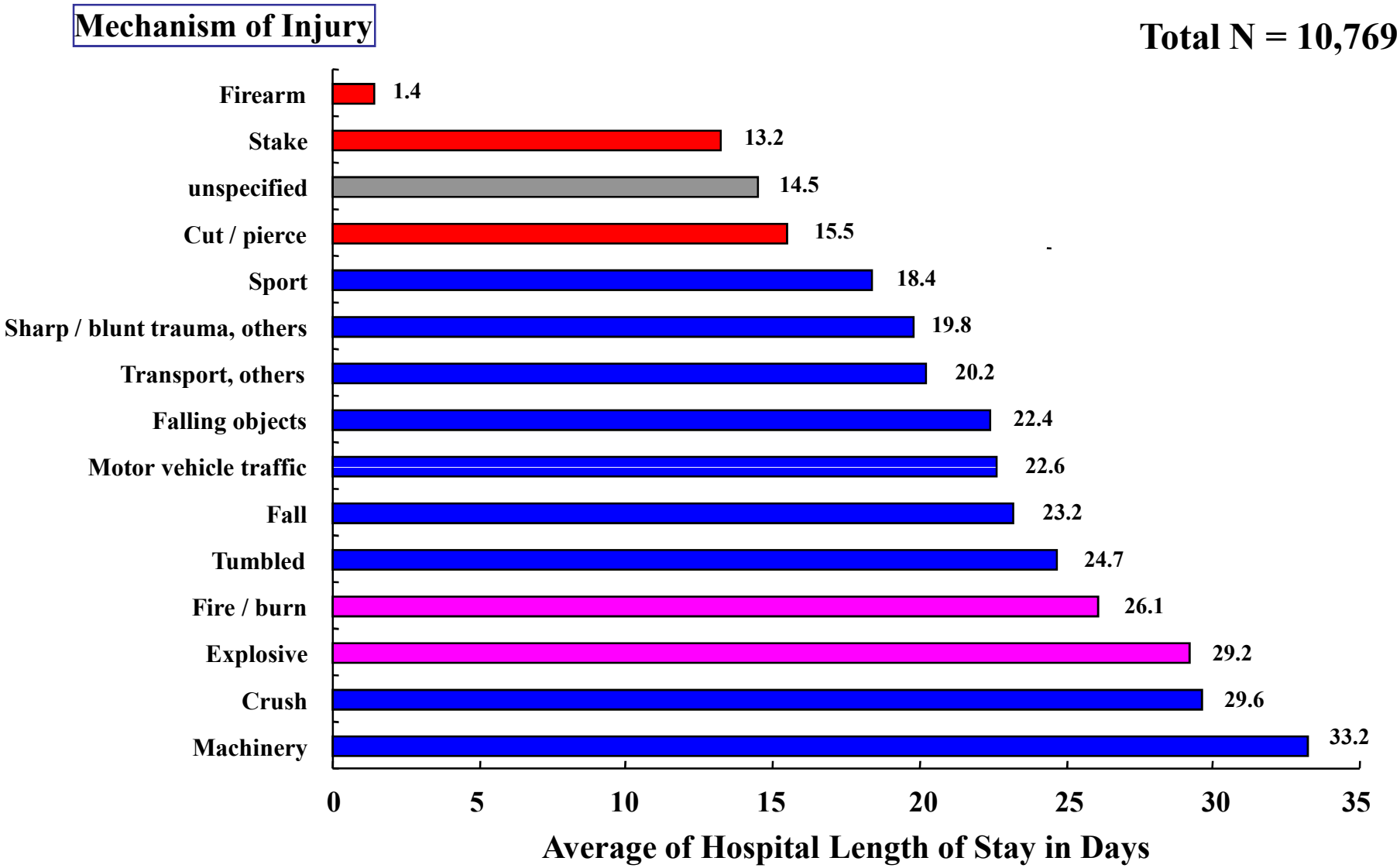

Figure 13 Average Hospital Length of Stay by Mechanism of Injury

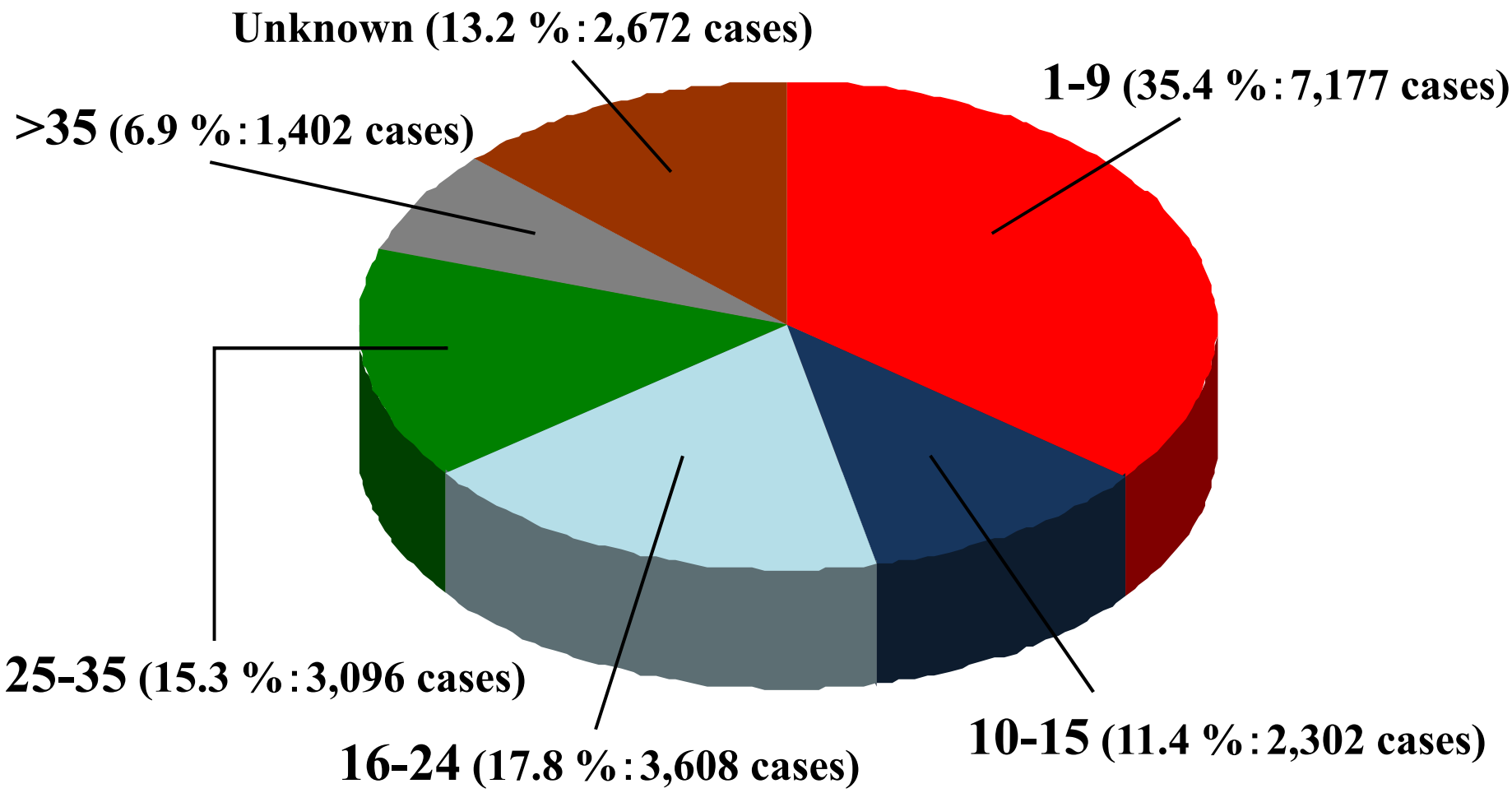

Figure 14 Patients and Injury Severity Score (ISS)

Proportional distribution of patients grouped by categories of the ISS range. Total N=20,257. The number of patients of ISS 1-9 category was the most of all categories.

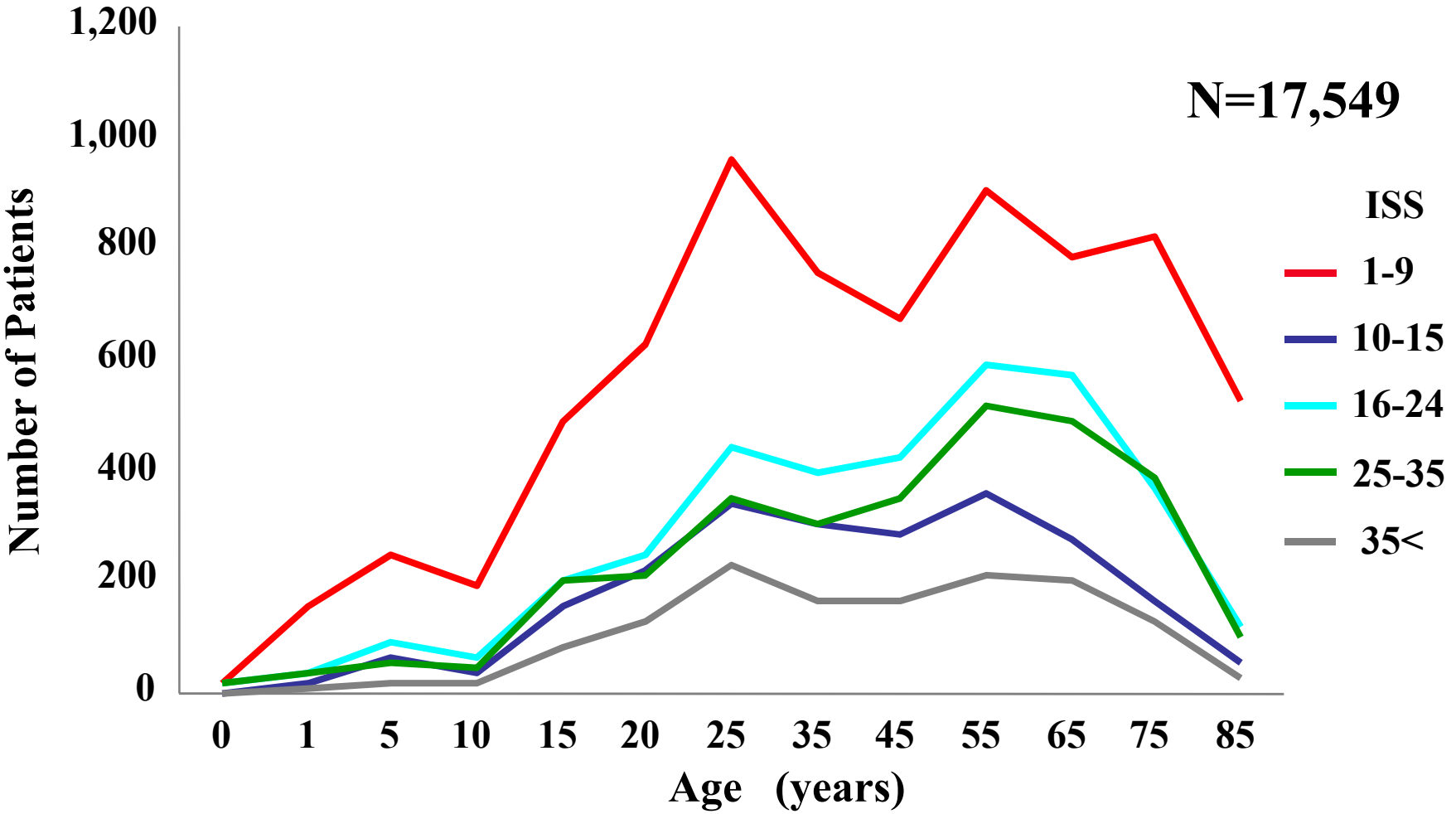

Figure 15 Patients by ISS and Age

Number of injured patients grouped by ISS range, at each age from 0 to 105. Two peaks of the number of patients based on age distribution were seen at 25-34 and 55-64 ages of any ISS categories.

ISS \ Age	0	1	5	10	15	20	25	35	45	55	65	75	85	Unknown	Total
1-9	23	156	247	196	493	629	958	756	672	907	786	825	526	3	7177
10-15	3	15	65	37	159	224	346	306	286	359	274	169	57	2	2302
16-24	23	37	94	62	204	246	444	401	425	595	571	373	123	10	3608
25-35	15	34	60	47	200	214	353	309	352	520	491	389	98	14	3096
35<	1	12	16	14	85	126	234	164	162	213	204	132	32	7	1402
Unknown	12	31	80	50	156	192	334	312	253	408	412	284	119	29	2672
Total	77	285	562	406	1297	1631	2669	2248	2150	3002	2738	2172	955	65	20257

Table 15　Patients by ISS and Age

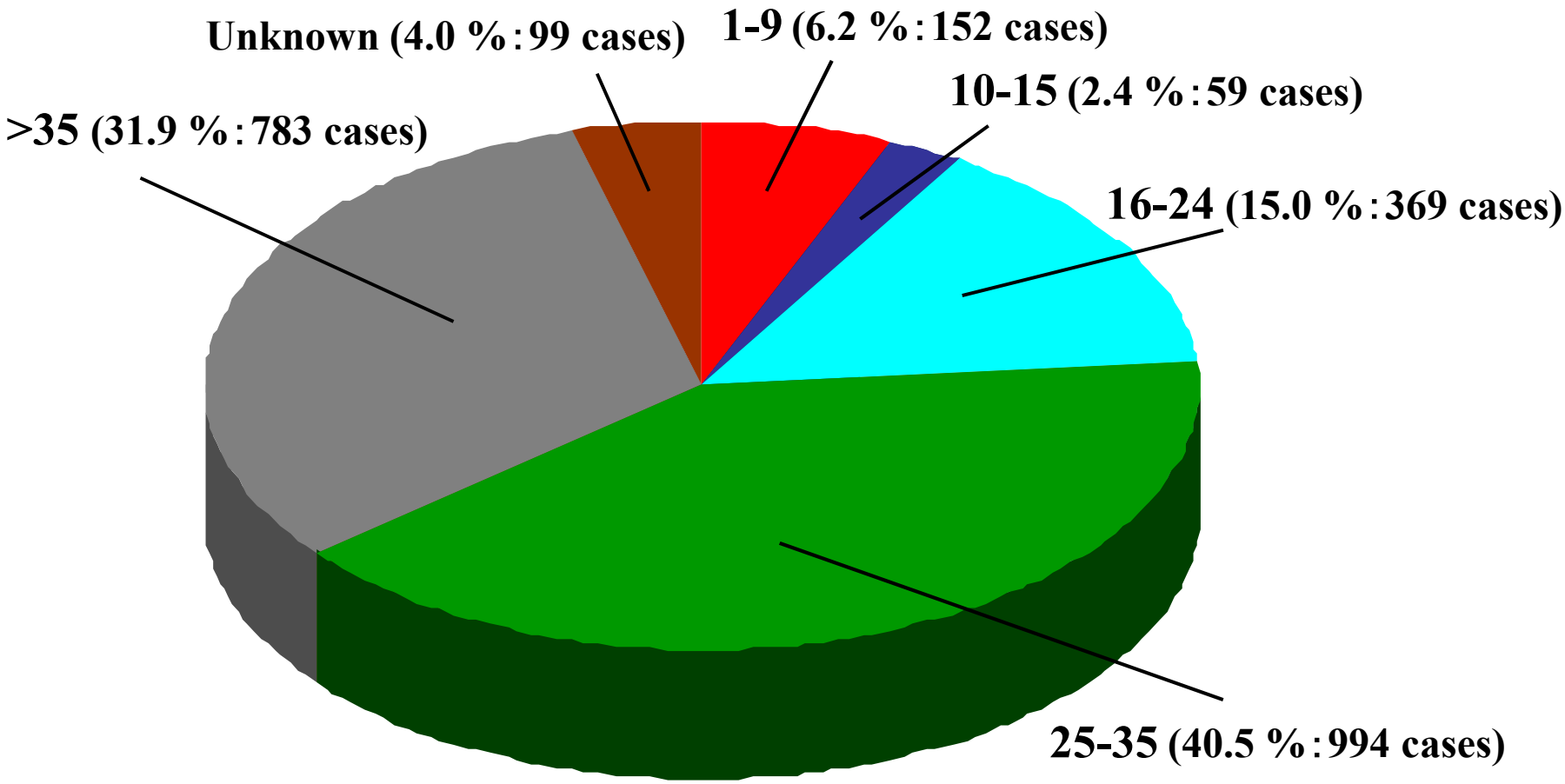

Figure 16A　Deaths and Injury Severity Score (ISS)

Proportional distribution of deaths grouped by categories of ISS range. Total N=2,456. Deaths in ISS 25-35 category were the highest (994 cases: 40.5% of all deaths).

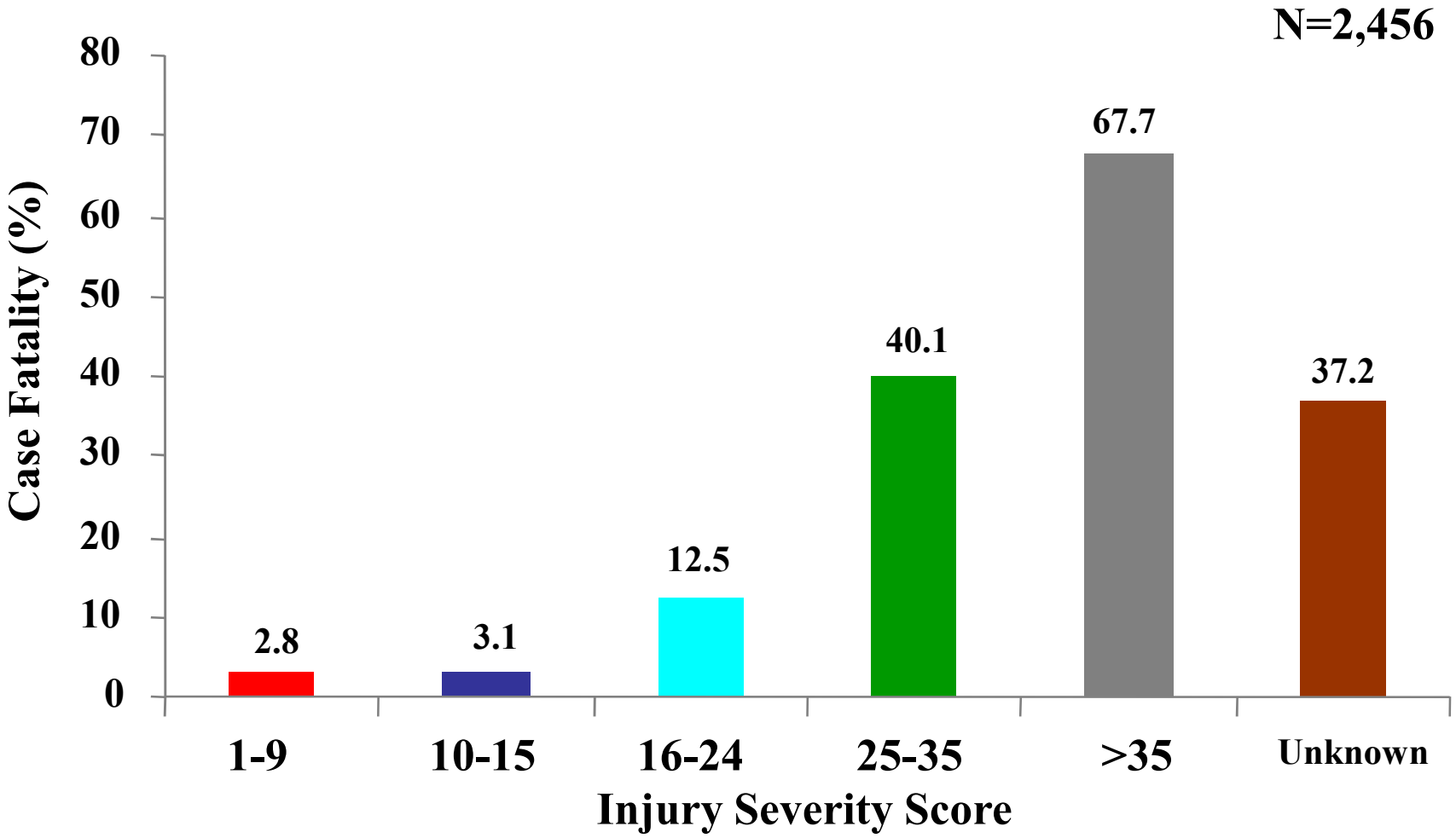

Figure 16B Case Fatality by Injury Severity Score (ISS) Range

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

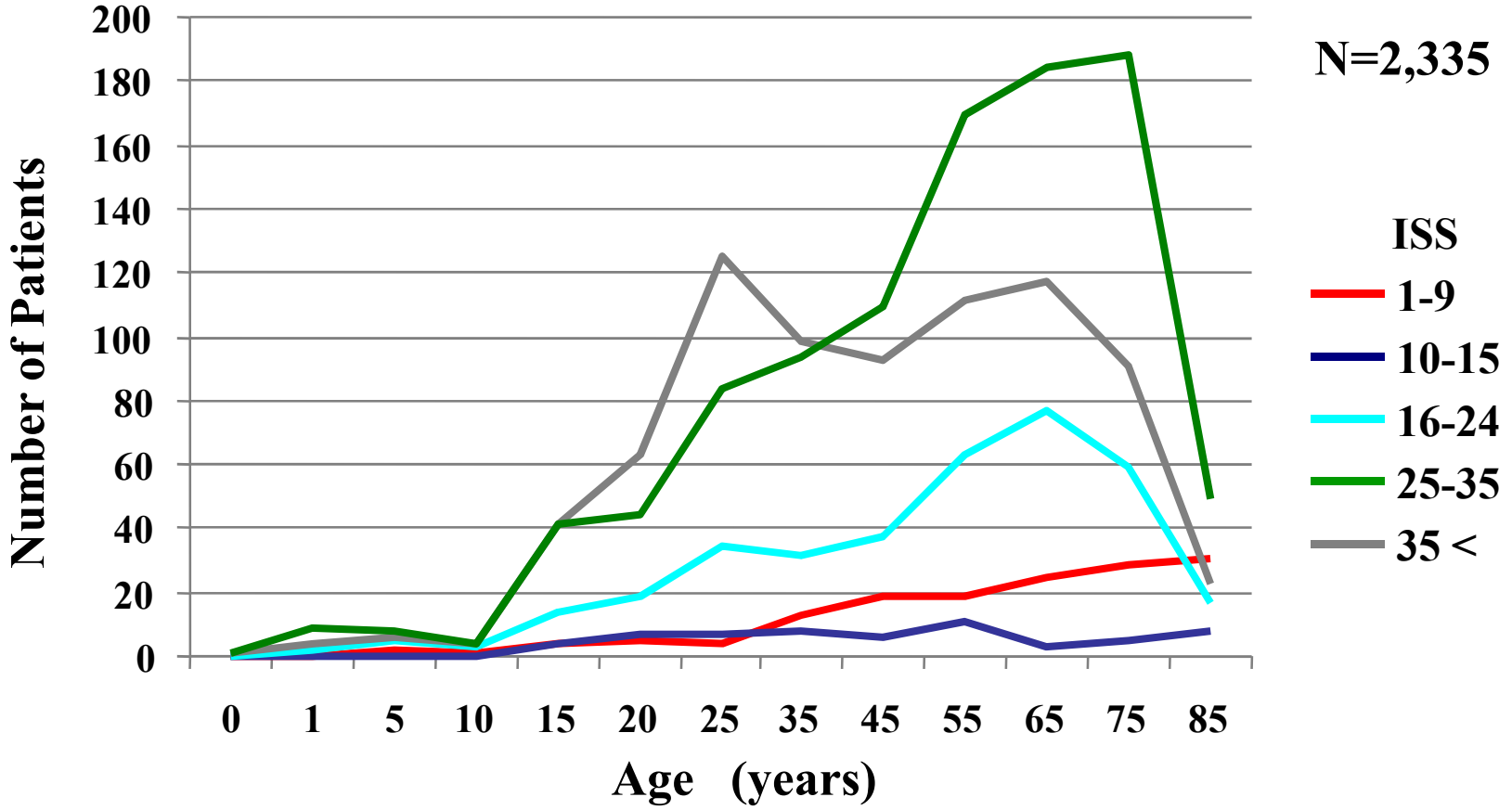

Figure 17 Deaths by ISS and Age

The peak was seen at elderly ages in each ISS 16-24 and ISS 25-35, and the category beyond ISS 35 has two peaks at young and elderly ages.

ISS \ Age	0	1	5	10	15	20	25	35	45	55	65	75	85	Unknown	Total
1-9	0	0	2	1	4	5	4	13	19	19	25	29	31	0	152
10-15	0	0	0	0	4	7	7	8	6	11	3	5	8	0	59
16-24	0	2	5	3	14	19	34	32	37	63	77	59	17	7	369
25-35	1	9	8	4	41	44	84	94	109	169	184	188	49	10	994
35<	1	4	6	4	41	63	125	99	93	111	117	91	23	5	783
Unknown	0	0	0	1	6	7	11	18	8	12	19	10	2	5	99
Total	2	15	21	13	110	145	265	264	272	385	425	382	130	27	2456

Table 17 Deaths by ISS and Age

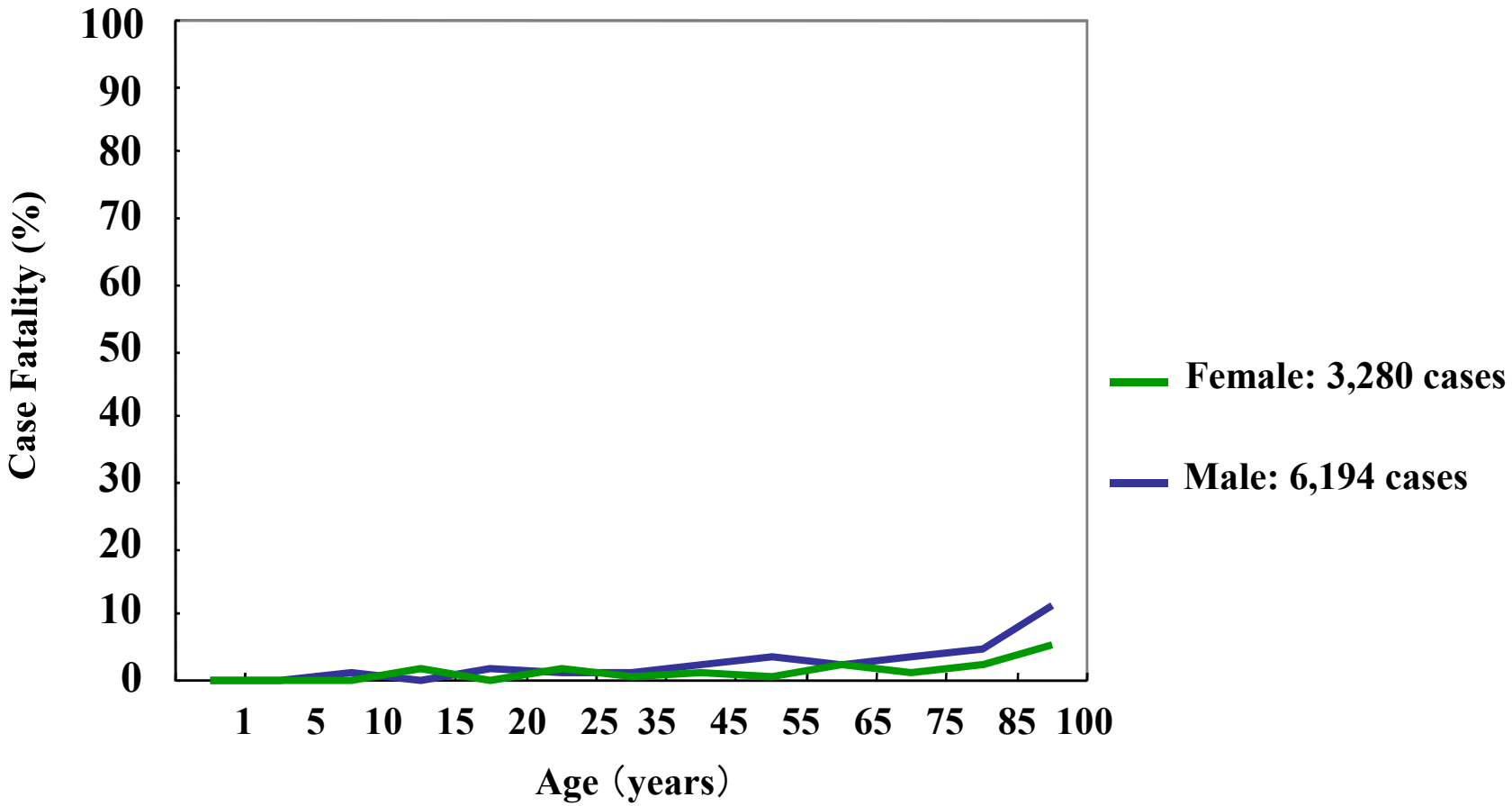

Figure18 Case Fatality by Age and Gender (ISS<=15)

Case fatality for patients with ISS<=15 for males and females at each age category. (Case fatality = number of deaths divided by the number of patients × 100 by age and gender). Total N = 9,474.

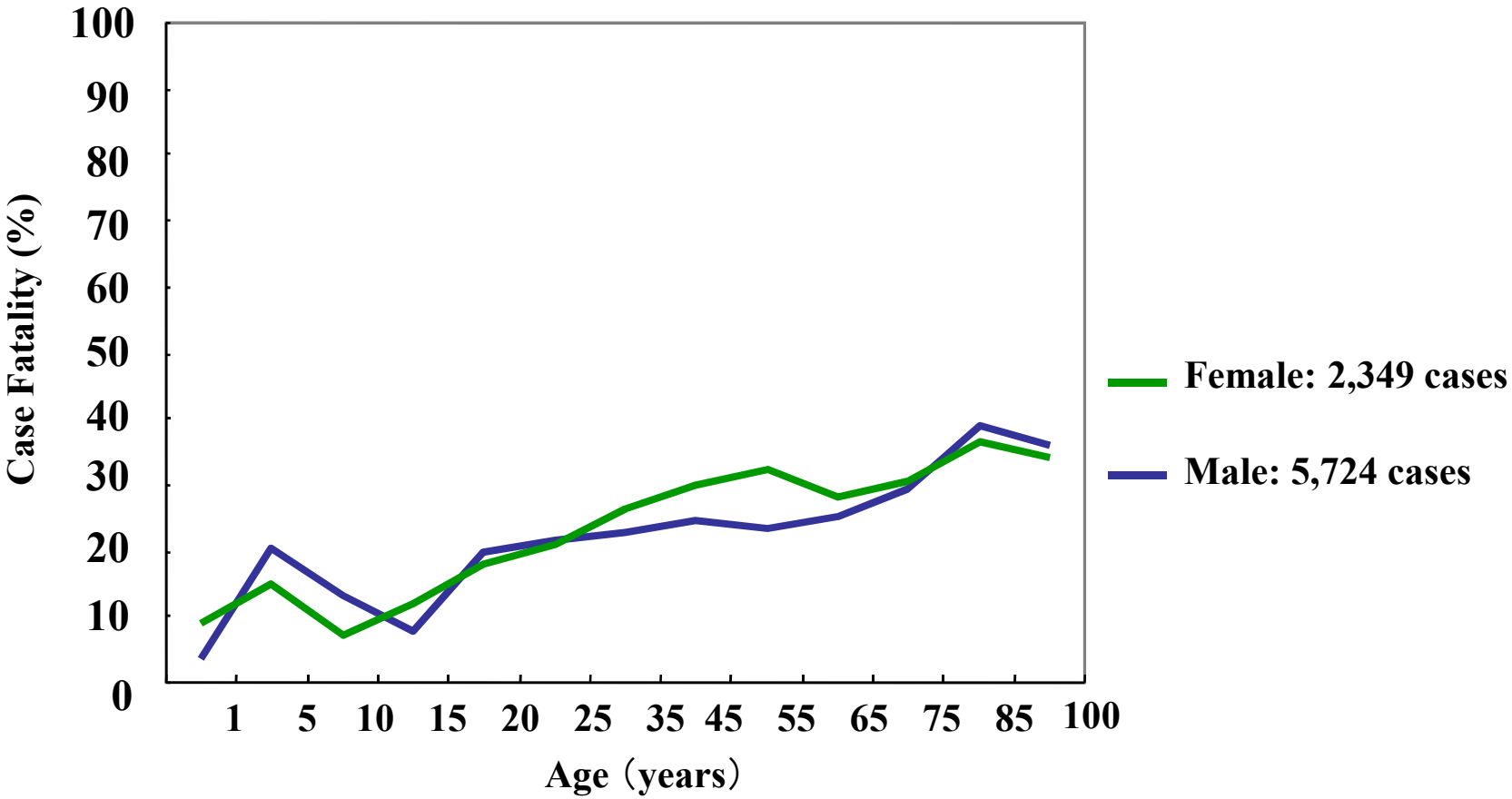

Figure 19 Case Fatality by Age and Gender (ISS>15)

Case fatality for patients with ISS>15 for males and females at each age category. (Case fatality = number of deaths divided by the number of patients × 100 by age and gender). Total N = 8,073.

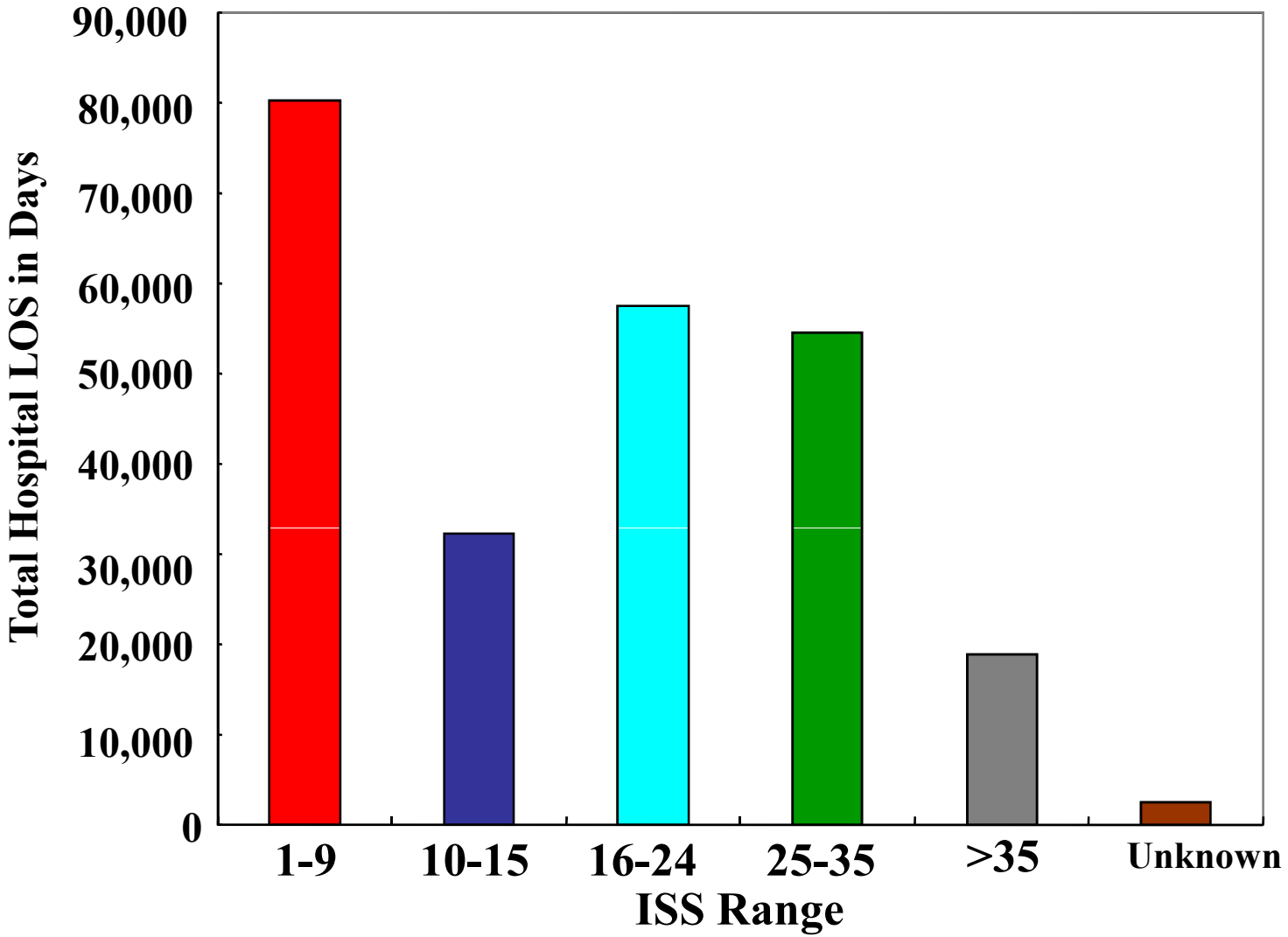

Figure 20A Total Hospital LOS and Injury Severity Score (ISS)

Proportional distribution of total hospital length of stay for patients, grouped by ISS range. Total N = 10,835.

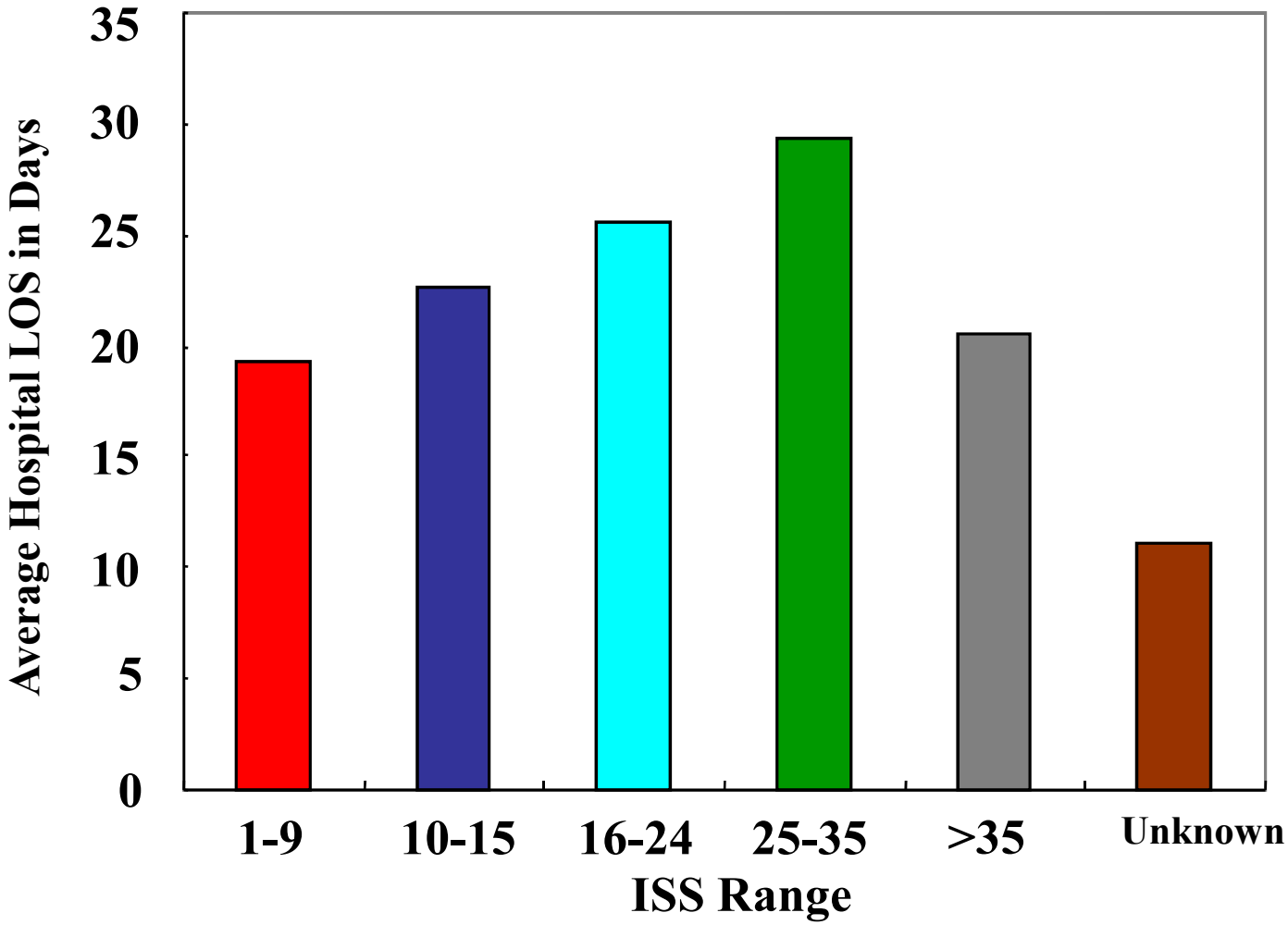

Figure 20B Average Hospital LOS and Injury Severity Score
Average hospital length of stay for each category of ISS range. (Average hospital length of stay = total hospital length of stay for each ISS range divided by the total number of patients). Total N = 10,835.

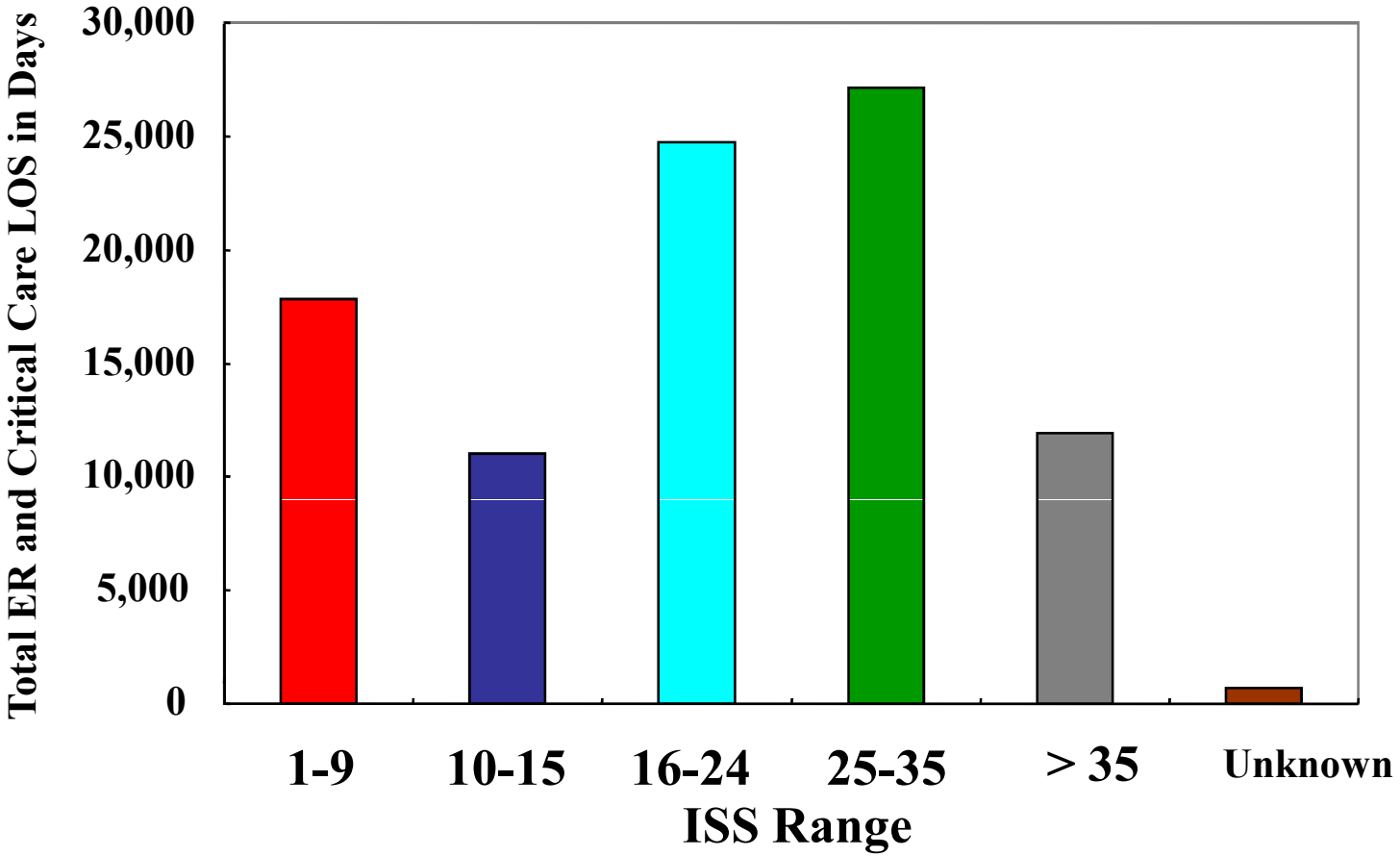

Figure 20C Total ER and Critical Care LOS and Injury Severity Score (ISS)
Proportional distribution of total ER and critical care length of stay in patients, grouped by ISS range.
Total N = 9,437

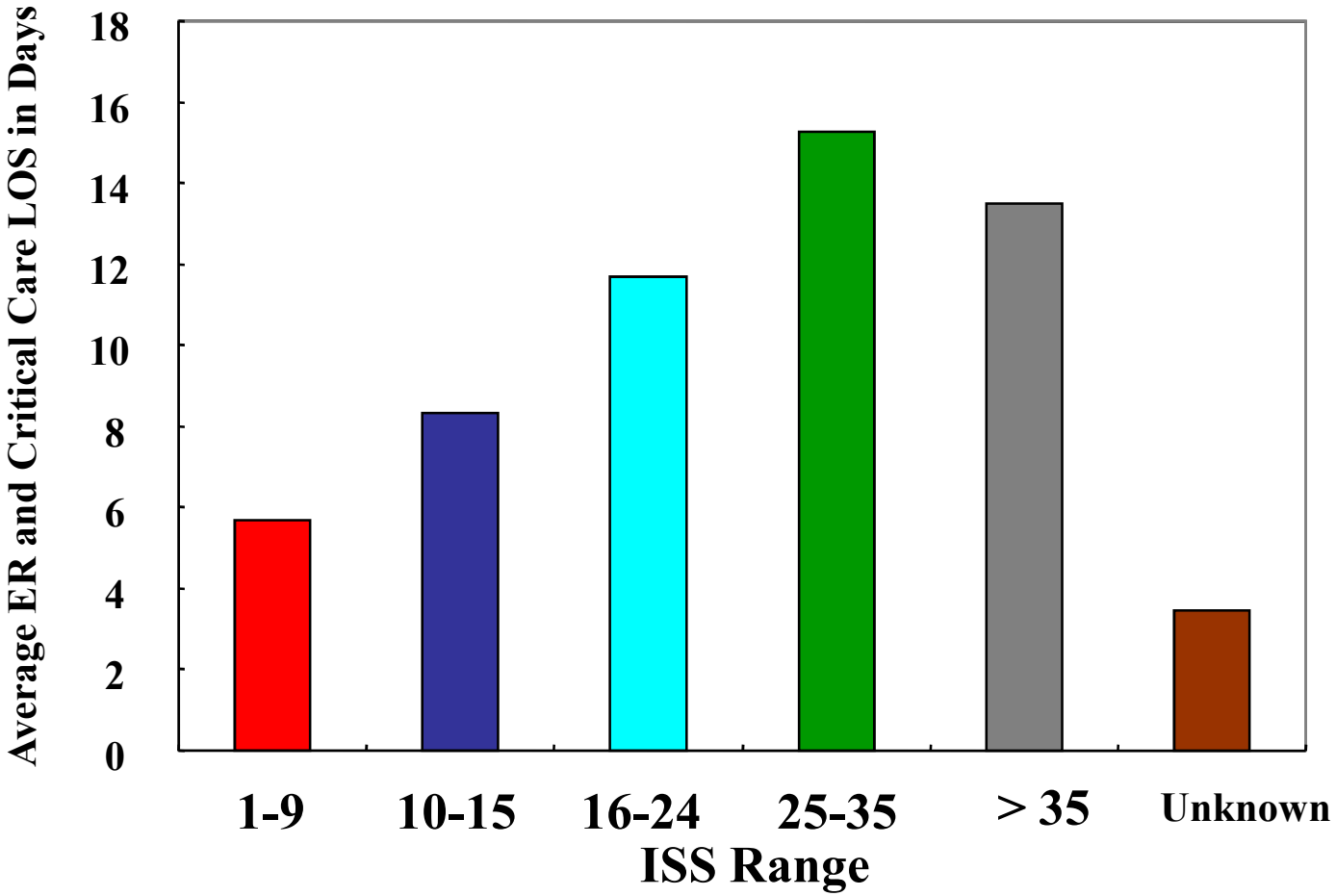

Figure 20D Average ER and Critical Care LOS and Injury Severity Score
Average ER and critical care length of stay for each ISS range. (Average ER and critical care LOS = total ER and critical care LOS for each ISS range divided by the total number of patients).
Total N = 9,437

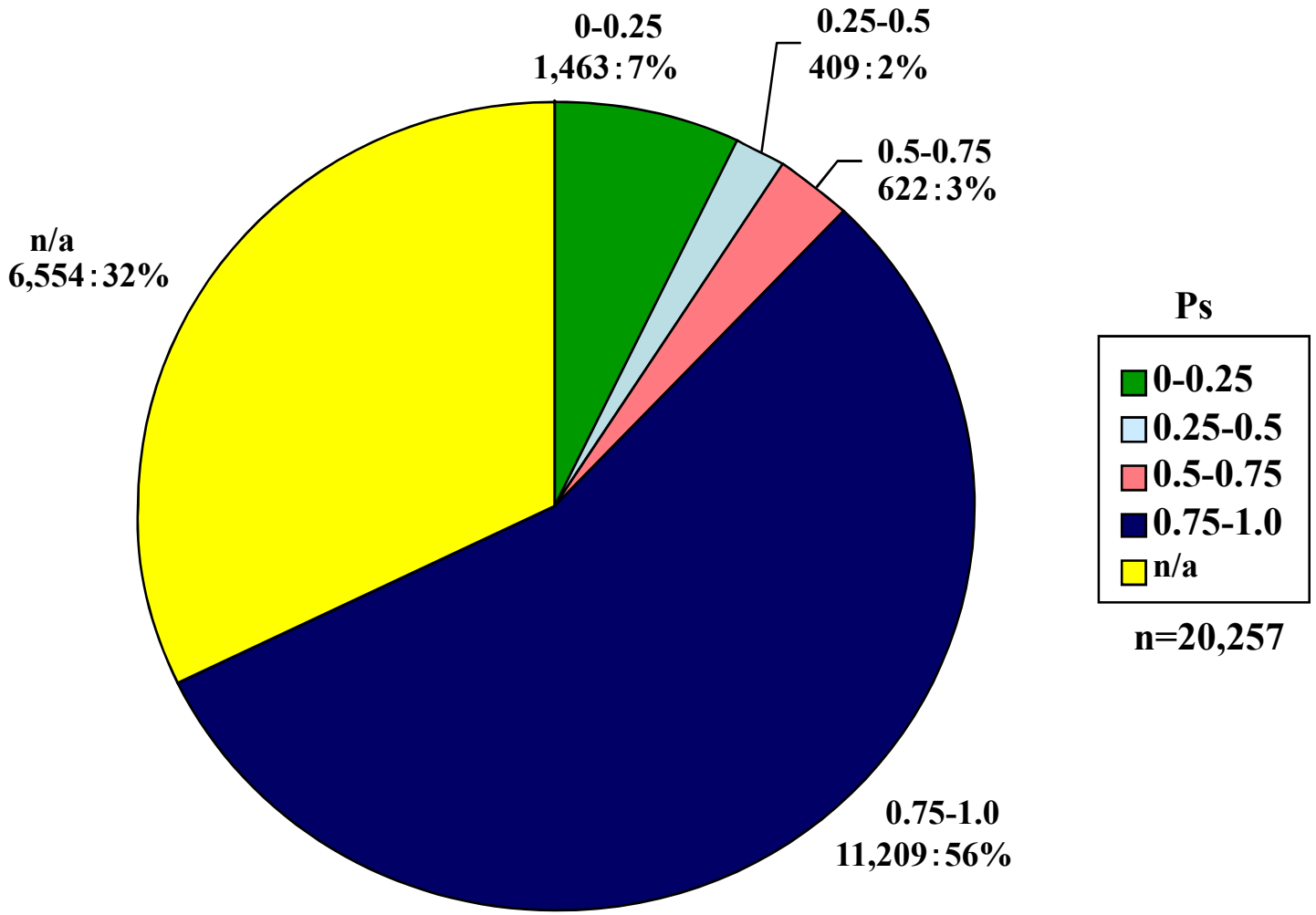

Figure 21 Patients by Probability of Survival (Ps)

Proportional distribution of patients, grouped by each category of Ps. The Ps category(0.75-1.0) accounted for 56% of all cases. Thirty-two percent of cases were missing at least one variable required to calculate Ps. n/a: not assessed due to missing values

Ps	0-0.25	0.25-0.5	0.5-0.75	0.75-1.0	n/a
Cases	1,463	409	622	11,209	6,554
Proportion to total number of patients	7.2%	2.0%	3.1%	55.3%	32.4%

Table 21 Patients by Probability of Survival (Ps)

Proportional distribution of patients, grouped by each category of Ps. The Ps category(0.75-1.0) accounted for 56% of all cases. Thirty-two percent of cases were missing at least one variable required to calculate Ps. n/a: not assessed due to missing values

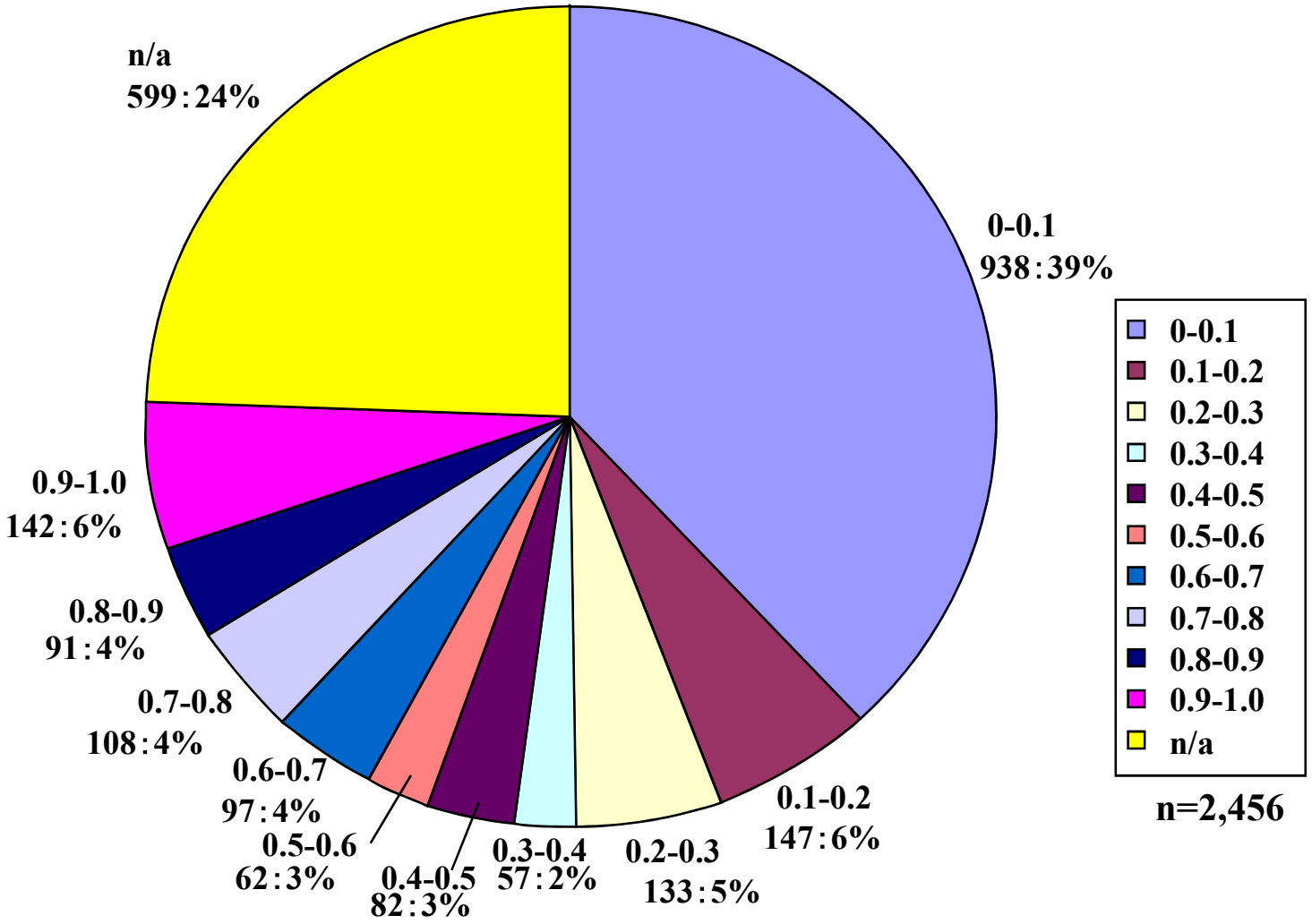

Figure 22A Deaths by Probability of survival (Ps)

Proportional distribution of deaths, grouped by each category of Ps. The lowest Ps category (0-0.1) accounted for 38.2% of all death cases. n/a: not assessed due to missing values

Ps	0-0.1	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.6
Deaths	938	147	133	57	82	62
Proportion to the total number of deaths	38.2%	6.0%	5.4%	2.3%	3.3%	2.5%
Ps	0.6-0.7	0.7-0.8	0.8-0.9	0.9-1.0	n/a	Total
Deaths	97	108	91	142	599	2,456
Proportion to the total number of deaths	3.9%	4.4%	3.7%	5.8%	24.4%	100%

Table 22A Deaths by Probability of survival (Ps)

Proportional distribution of deaths, grouped by each category of Ps. The lowest Ps category (0-0.1) accounted for 38.2% of all death cases. n/a: not assessed due to missing values

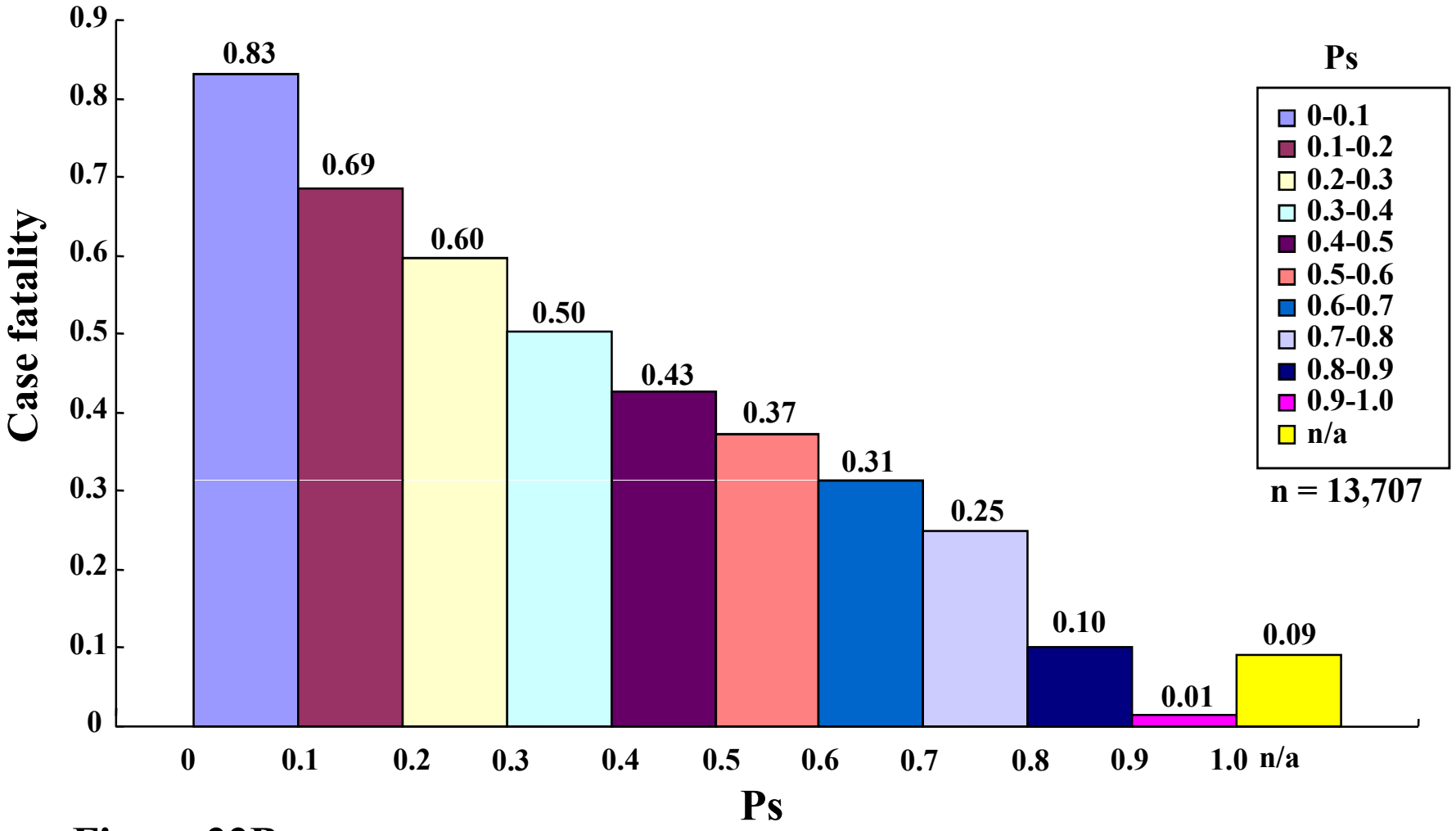

Figure 22B Case Fatality by Probability of Survival (Ps)

Case fatality for each Ps category (Case fatality = number of deaths divided by the number of patients × 100 for each Ps category). The lowest Ps category (0-0.1) and highest Ps category (0.9-1.0) had the highest fatality 85% and the lowest fatality 1.6%, respectively. The trend that fatality would decrease as Ps increased was observed. n/a: not assessed due to missing values

Ps	0-0.1	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.6
Cases	1,130	214	223	113	192	166
Deaths	938	147	133	57	82	62
Proportion to the total number of deaths	0.83	0.69	0.60	0.50	0.43	0.37
Ps	0.6-0.7	0.7-0.8	0.8-0.9	0.9-1.0	n/a	Total
Cases	310	432	899	10,024	6,554	20,257
Deaths	97	108	91	142	599	2,456
Proportion to the total number of deaths	0.31	0.25	0.10	0.01	0.09	0.12

Table 22B Case Fatality by Probability of Survival (Ps)

The lowest Ps category (0-0.1) and highest Ps category (0.9-1.0) had the highest fatality 83% and the lowest fatality 1.6%, respectively. The trend that fatality would decrease as Ps increased was observed.

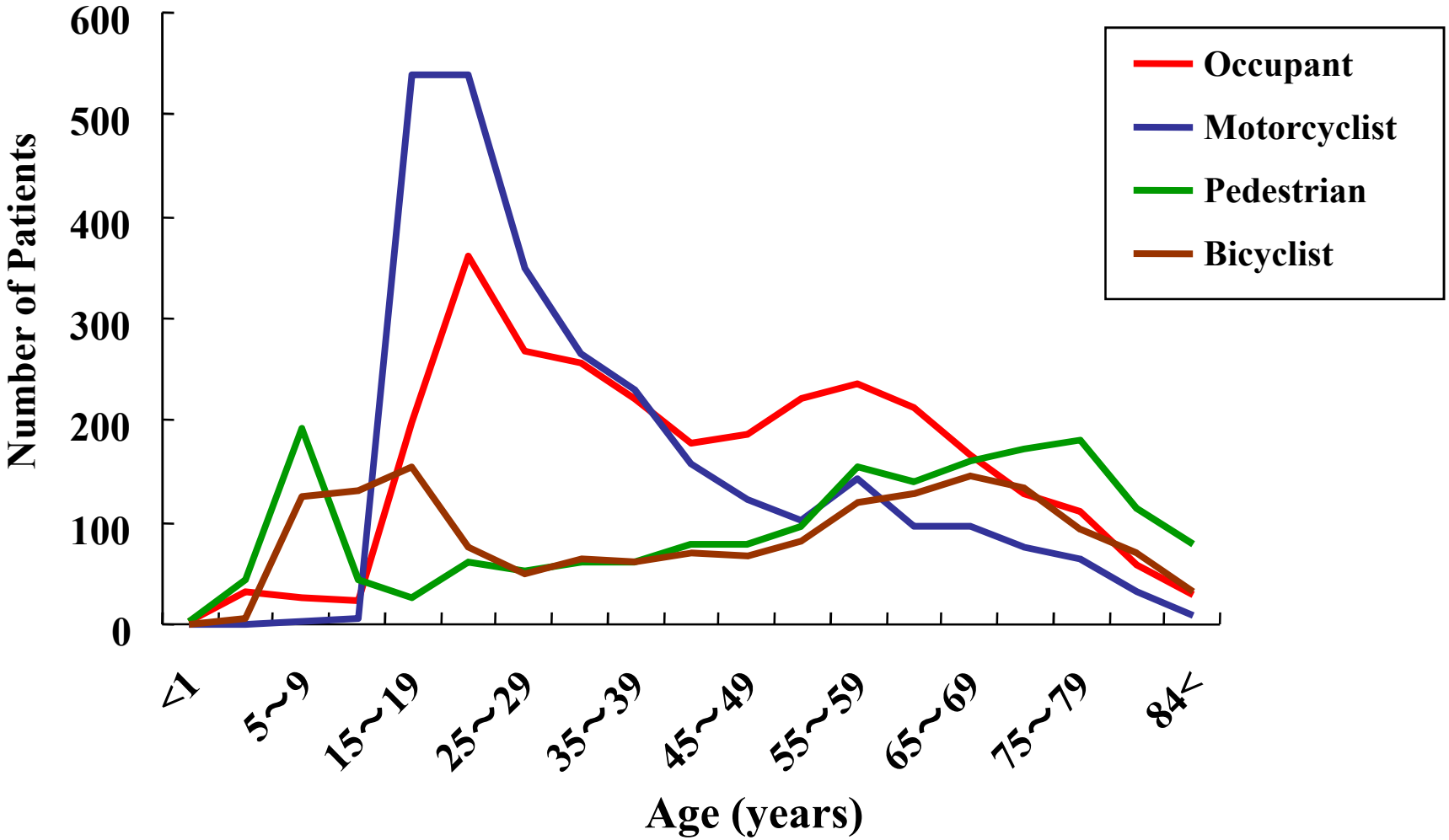

Figure 23 Motor Vehicle Traffic Related Injuries

Age (years)	Occupant	Motorcyclist	Pedestrian	Bicyclist
<1	2	0	2	0
1～4	32	0	45	7
5～9	25	2	192	124
10～14	24	6	43	132
15～19	197	538	27	155
20～24	361	540	62	76
25～29	268	349	52	49
30～34	256	264	61	65
35～39	221	230	61	60
40～44	179	158	80	70
45～49	187	123	80	68
50～54	222	103	96	82
55～59	237	143	154	120
60～64	213	96	139	129
65～69	166	95	160	146
70～74	129	76	173	133
75～79	111	64	182	93
80～84	59	33	114	70
84<	28	8	78	33
Total	2,917	2,828	1,801	1,612

Table 23 **Motor Vehicle Traffic Related Injuries**

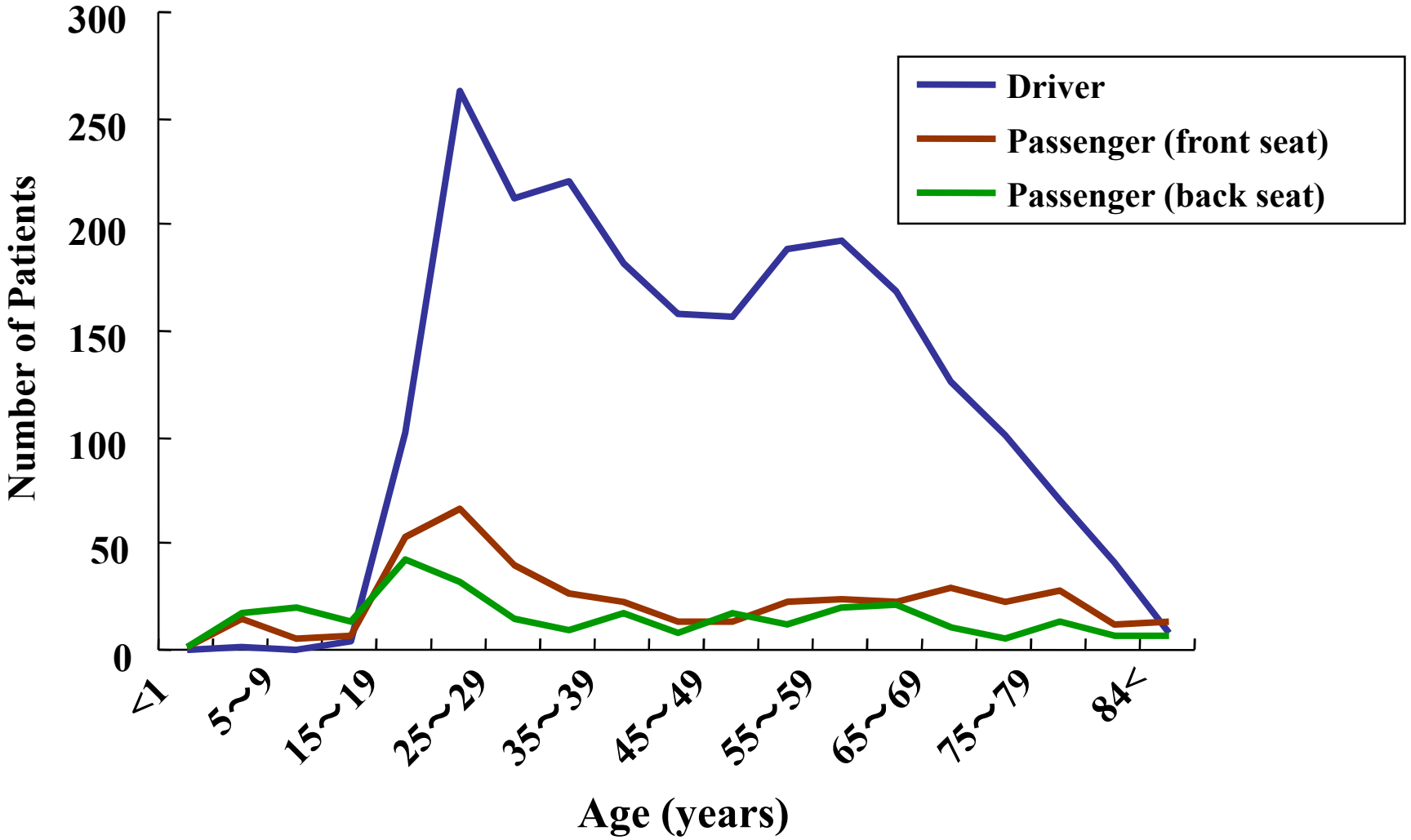

Figure 24 **Motor Vehicle Related Injuries – Driver and Passenger by Age**

Age (years)	Driver	Passenger (front seat)	Passenger (back seat)	Total
<1	0	1	1	2
1～4	1	14	17	32
5～9	0	5	20	25
10～14	4	7	13	24
15～19	102	53	42	197
20～24	263	66	32	361
25～29	213	40	15	268
30～34	220	27	9	256
35～39	182	22	17	221
40～44	158	13	8	179
45～49	157	13	17	187
50～54	188	22	12	222
55～59	193	24	20	237
60～64	169	23	21	213
65～69	126	29	11	166
70～74	101	23	5	129
75～79	70	28	13	111
80～84	41	12	6	59
84<	8	13	7	28
Total	2,196	435	286	2,917

Table 24 Motor Vehicle Related Injuries, Driver and Passenger by Age

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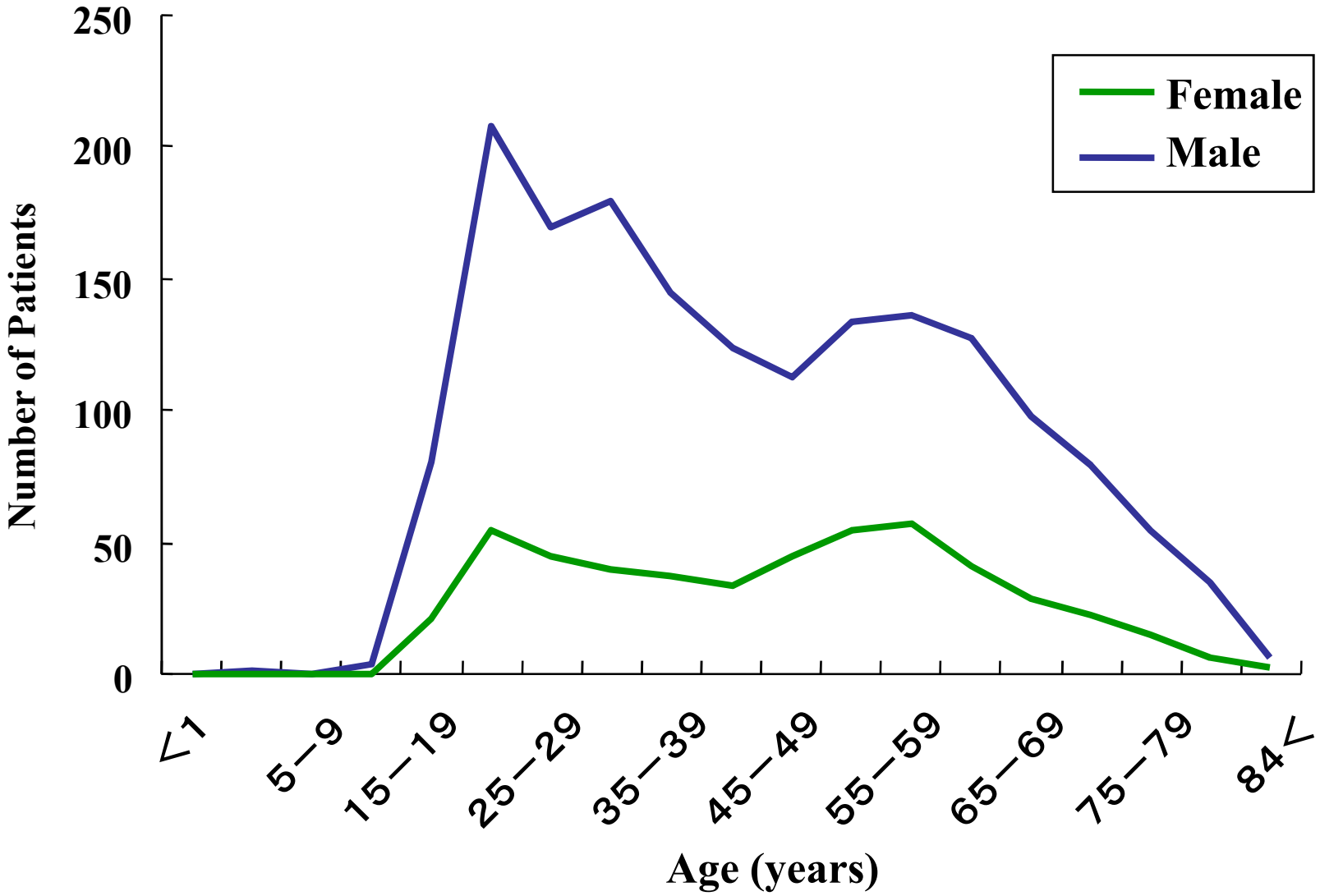


Figure 25 **Motor Vehicle Related Injuries – Driver by Gender and Age**

Age (years)	Male	Female	Total
<1	0	0	0
1～4	1	0	1
5～9	0	0	0
10～14	4	0	4
15～19	81	21	102
20～24	208	55	263
25～29	169	44	213
30～34	180	40	220
35～39	145	37	182
40～44	124	34	158
45～49	113	44	157
50～54	134	54	188
55～59	136	57	193
60～64	128	41	169
65～69	98	28	126
70～74	79	22	101
75～79	55	15	70
80～84	35	6	41
84<	6	2	8
Total	1,696	500	2,196

Table 25 Motor Vehicle Related Injuries – Driver by Gender and Age

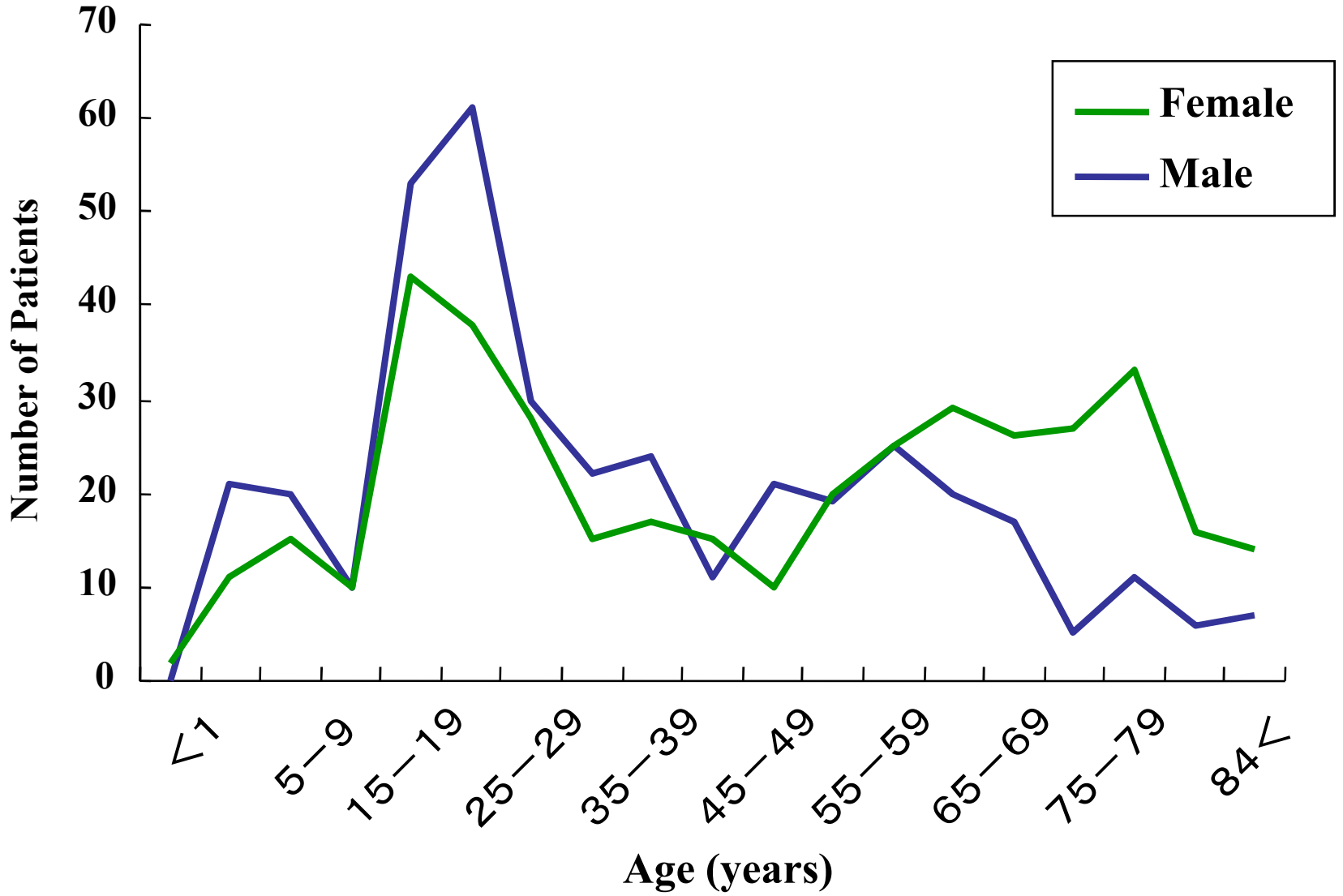
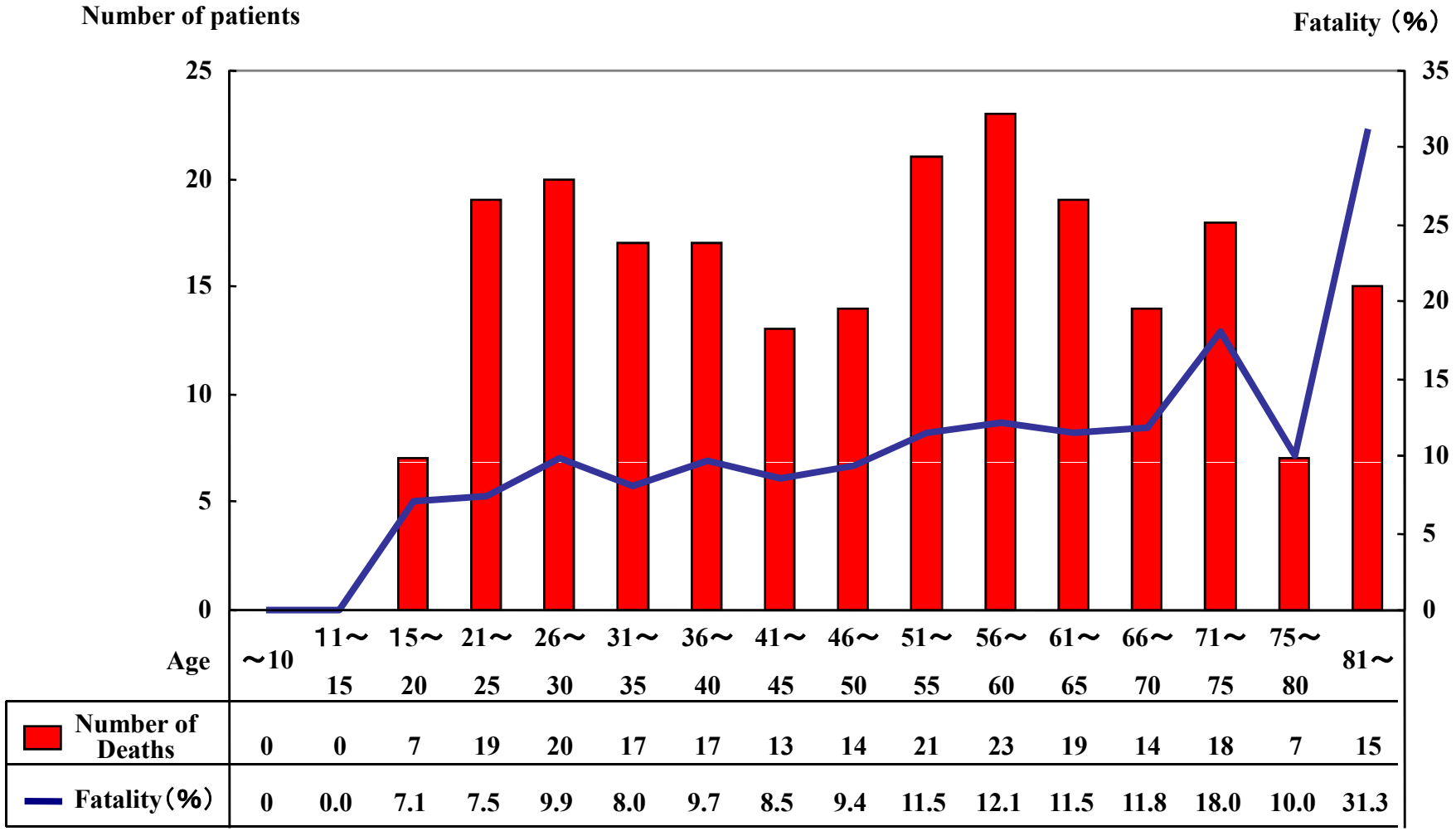


Figure 26 **Motor Vehicle Related Injuries – Passenger by Gender and Age**

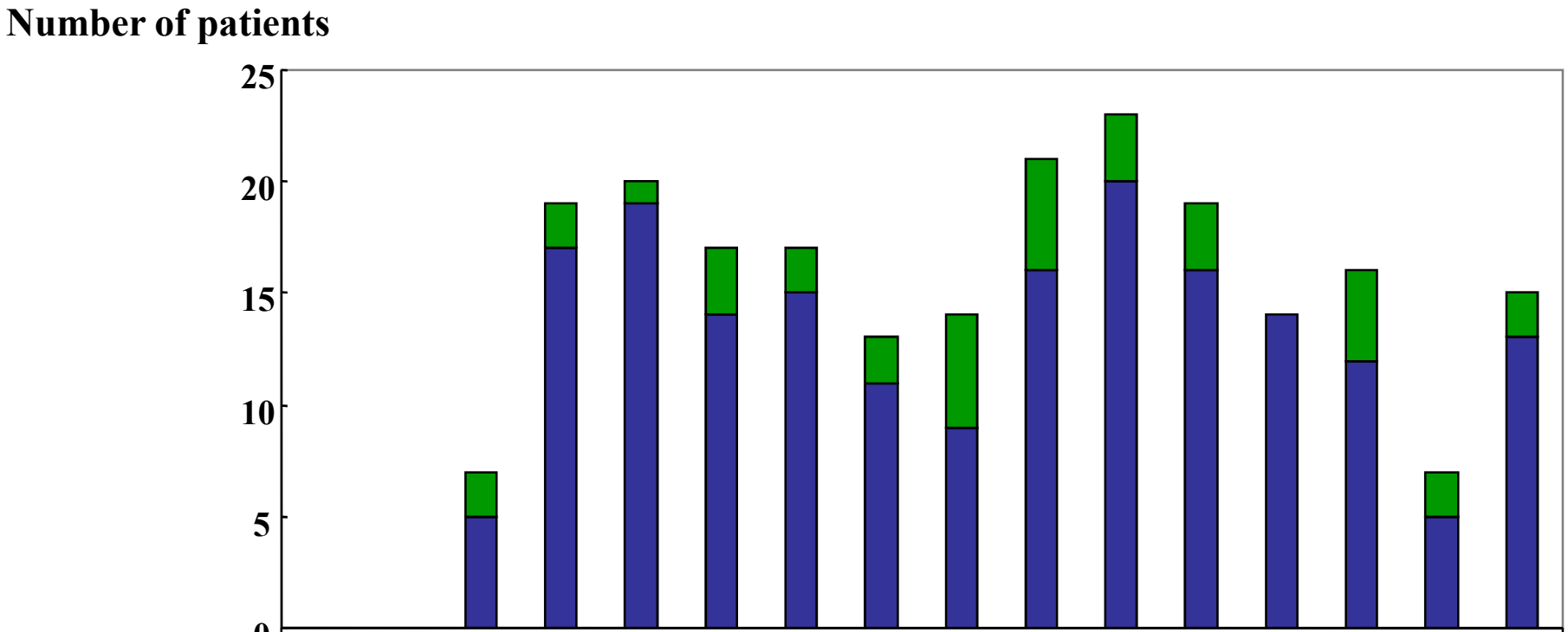
Age (years)	Male	Female	Total
<1	0	2	2
1～4	21	11	32
5～9	20	15	35
10～14	10	10	20
15～19	53	43	96
20～24	61	38	99
25～29	30	28	58
30～34	22	15	37
35～39	24	17	41
40～44	11	15	26
45～49	21	10	31
50～54	19	20	39
55～59	25	25	50
60～64	20	29	49
65～69	17	26	43
70～74	5	27	32
75～79	11	33	44
80～84	6	16	22
84<	7	14	21
Total	383	394	777

Table 26 Motor Vehicle Related Injuries – Passenger by Gender and Age



Age	～10	11～15	15～20	21～25	26～30	31～35	36～40	41～45	46～50	51～55	56～60	61～65	66～70	71～75	75～80	81～
Number of Deaths	0	0	7	19	20	17	17	13	14	21	23	19	14	18	7	15
Fatality（%）	0	0.0	7.1	7.5	9.9	8.0	9.7	8.5	9.4	11.5	12.1	11.5	11.8	18.0	10.0	31.3

Figure 27 Number of Deaths and Fatalities of Motor Vehicular Drivers by Age



Age	～10	11～15	15～20	21～25	26～30	31～35	36～40	41～45	46～50	51～55	56～60	61～65	66～70	71～75	75～80	81～
Number of Female Deaths	0	0	2	2	1	3	2	2	5	5	3	3	0	4	2	2
Number of Male Deaths	0	0	5	17	19	14	15	11	9	16	20	16	14	12	5	13

Figure 28 Deaths of Motor Vehicular Drivers by Age and Genders

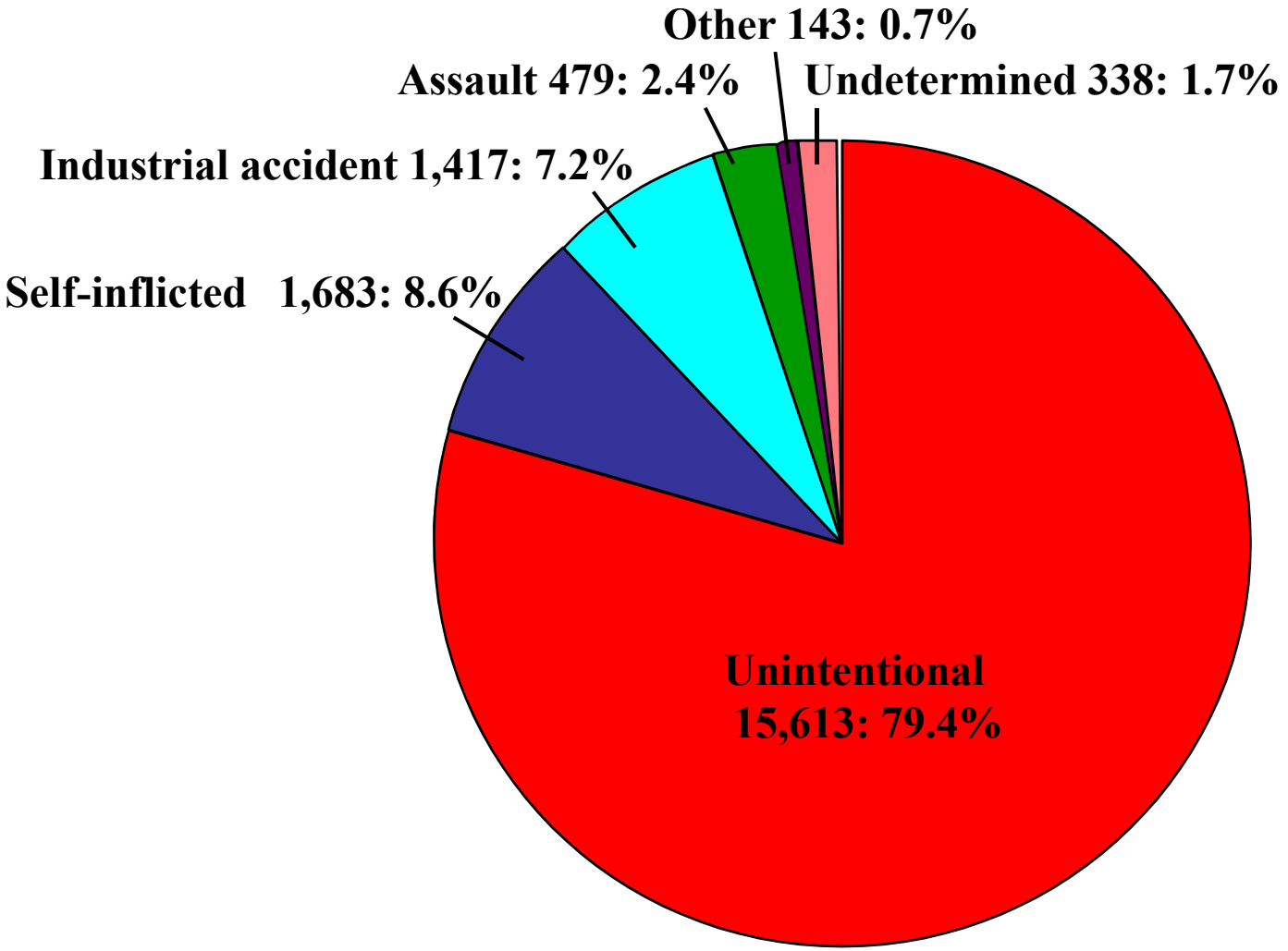


Figure 29 Proportional Distribution of Registered Patients, Grouped by Intent

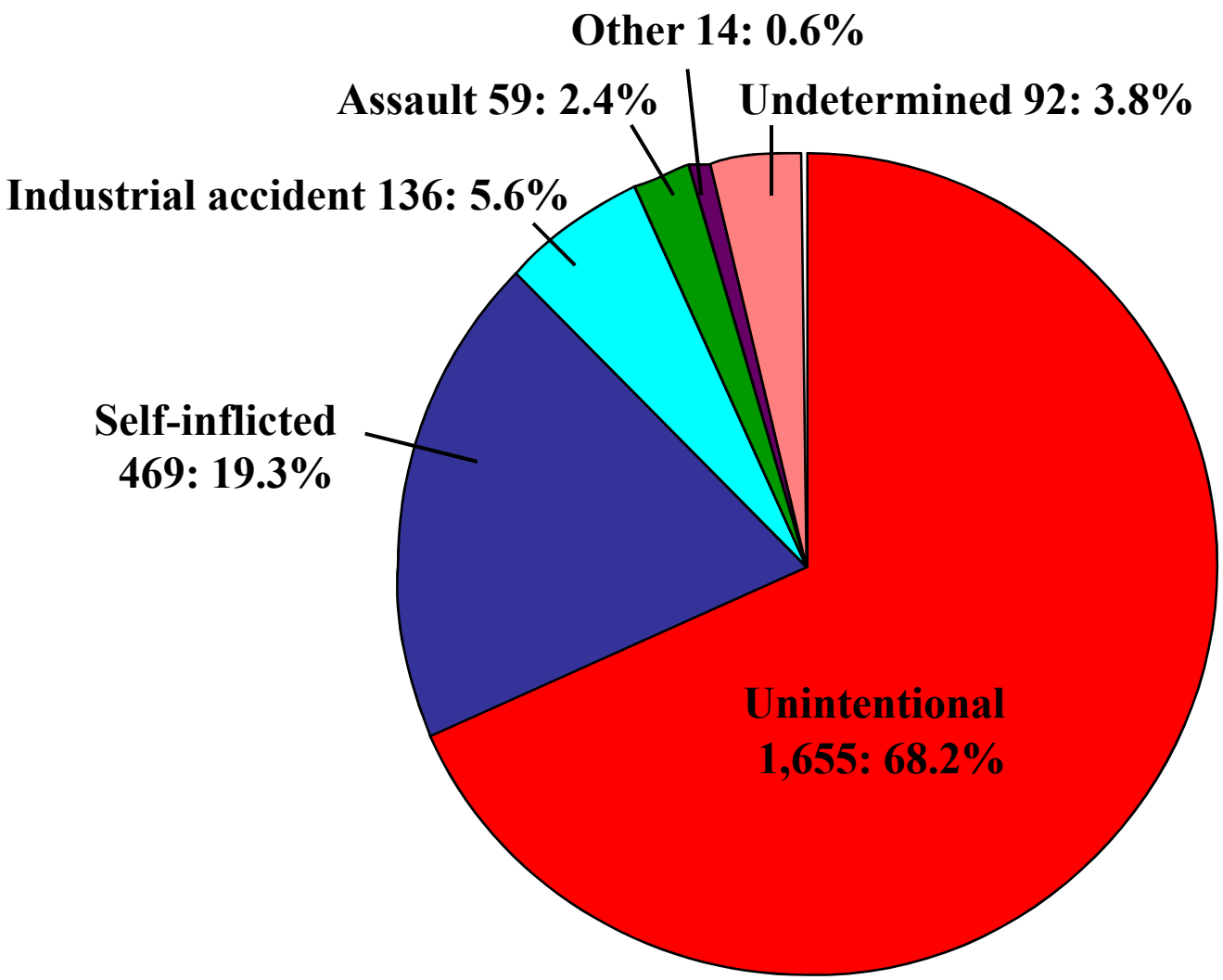


Figure 30 Proportional Distribution of Deaths, Grouped by Intent

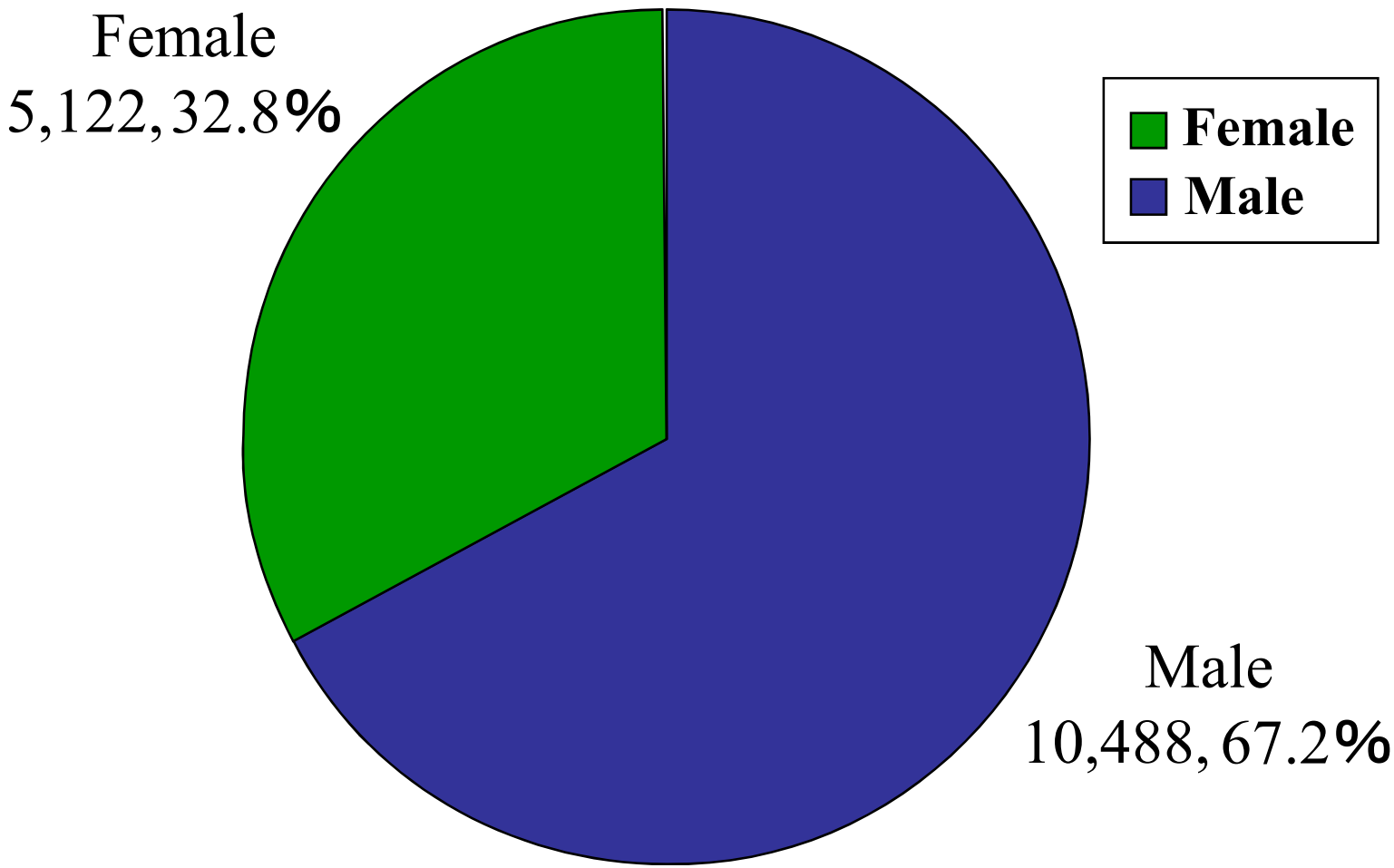


Figure 31 Unintentional Injury and Gender

Does not include cases where age is unknown. Includes cases of industrial accidents.

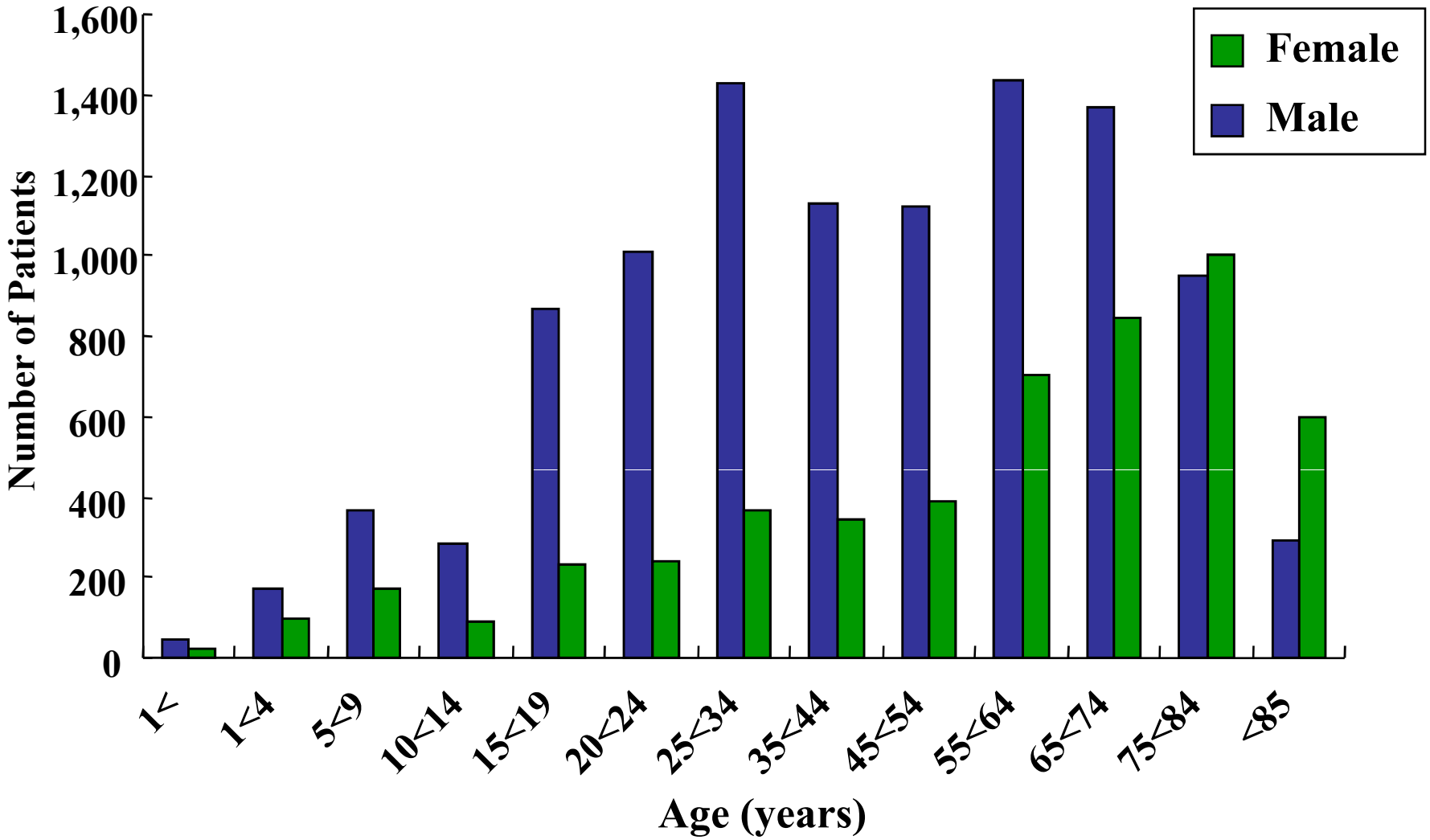


Figure 32 Unintentional Injury by Age and Gender

	Male	Female	Total
1<	44	25	69
1<4	175	94	269
5<9	363	174	537
10<14	281	93	374
15<19	866	230	1,096
20<24	1,008	241	1,249
25<34	1,430	363	1,793
35<44	1,126	347	1,473
45<54	1,123	392	1,515
55<64	1,434	701	2,135
65<74	1,371	847	2,218
75<84	953	1,005	1,958
<85	292	600	892
Total	10,466	5,112	15,578

Table 32 Unintentional Injury by Age and Gender

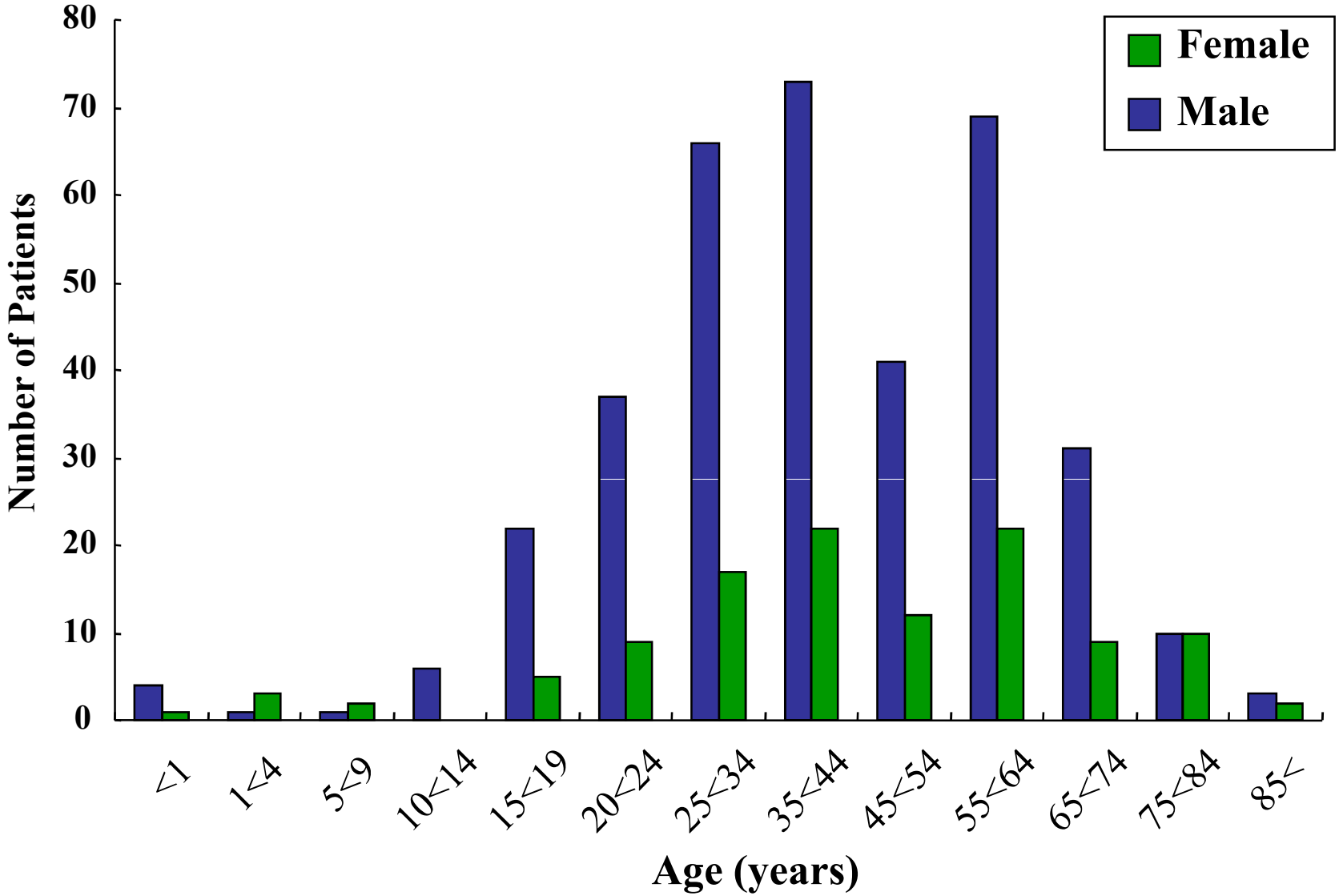


Figure 33 Intentional Injury by Age and Gender

	Male	Female	Total
1<	4	1	5
1<4	1	3	4
5<9	1	2	3
10<14	6		6
15<19	22	5	27
20<24	37	9	46
25<34	66	17	83
35<44	73	22	95
45<54	41	12	53
55<64	69	22	91
65<74	31	9	40
75<84	10	10	20
<85	3	2	5
Total	364	114	478

Table 33 Intentional Injury by Age and Gender

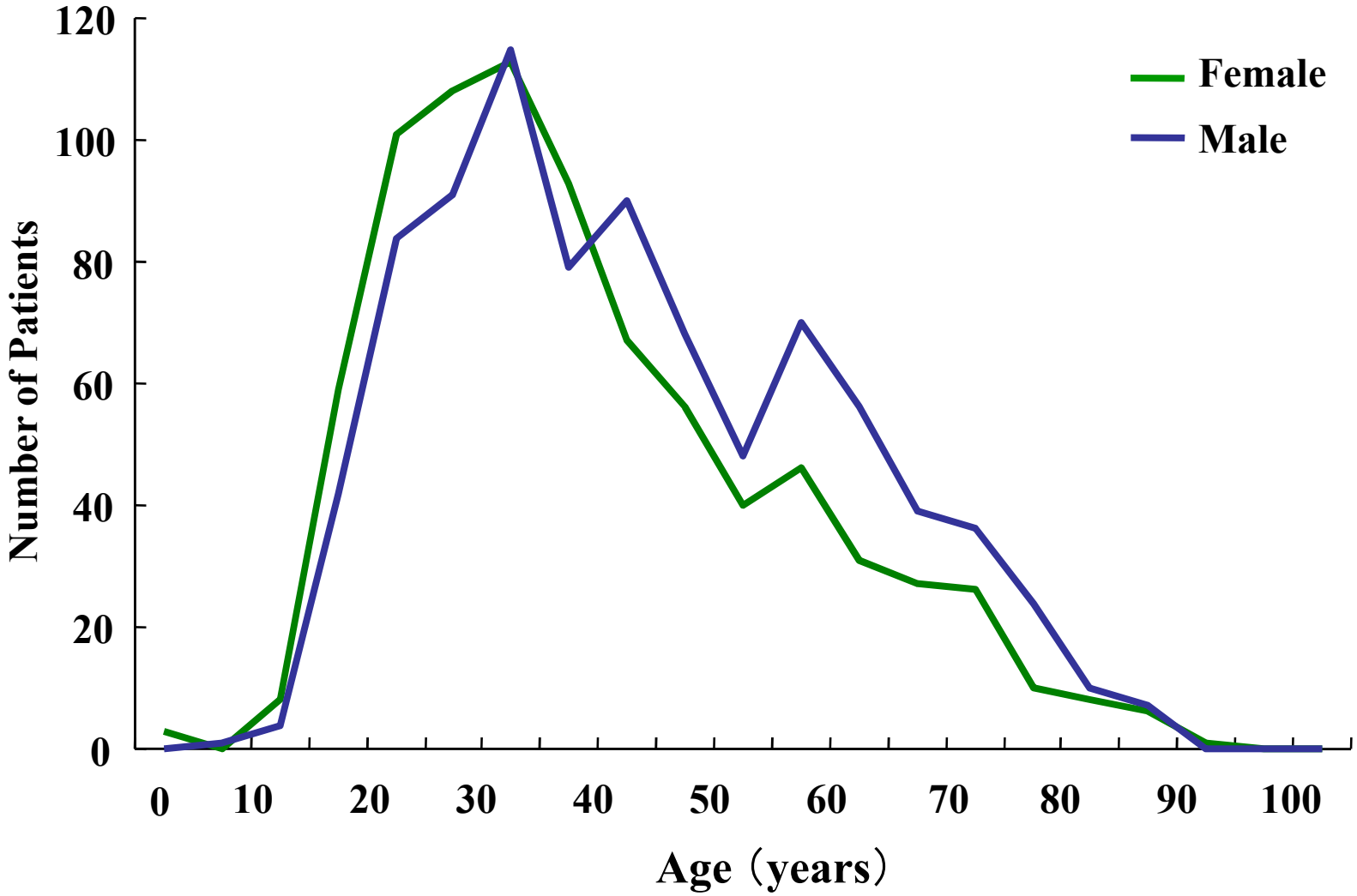


Figure 34 Self-inflicted by Age and Gender

	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85-	90-	95-	100-	unknown	total
female	3	0	8	59	101	108	113	93	67	56	40	46	31	27	26	10	8	6	1	0	0	9	812
male	0	1	4	42	84	91	115	79	90	68	48	70	56	39	36	24	10	7	0	0	0	5	869
total	3	1	12	101	185	199	228	172	157	124	88	116	87	66	62	34	18	13	1	0	0	14	1,681

Table 34 Self-inflicted by Age and Gender

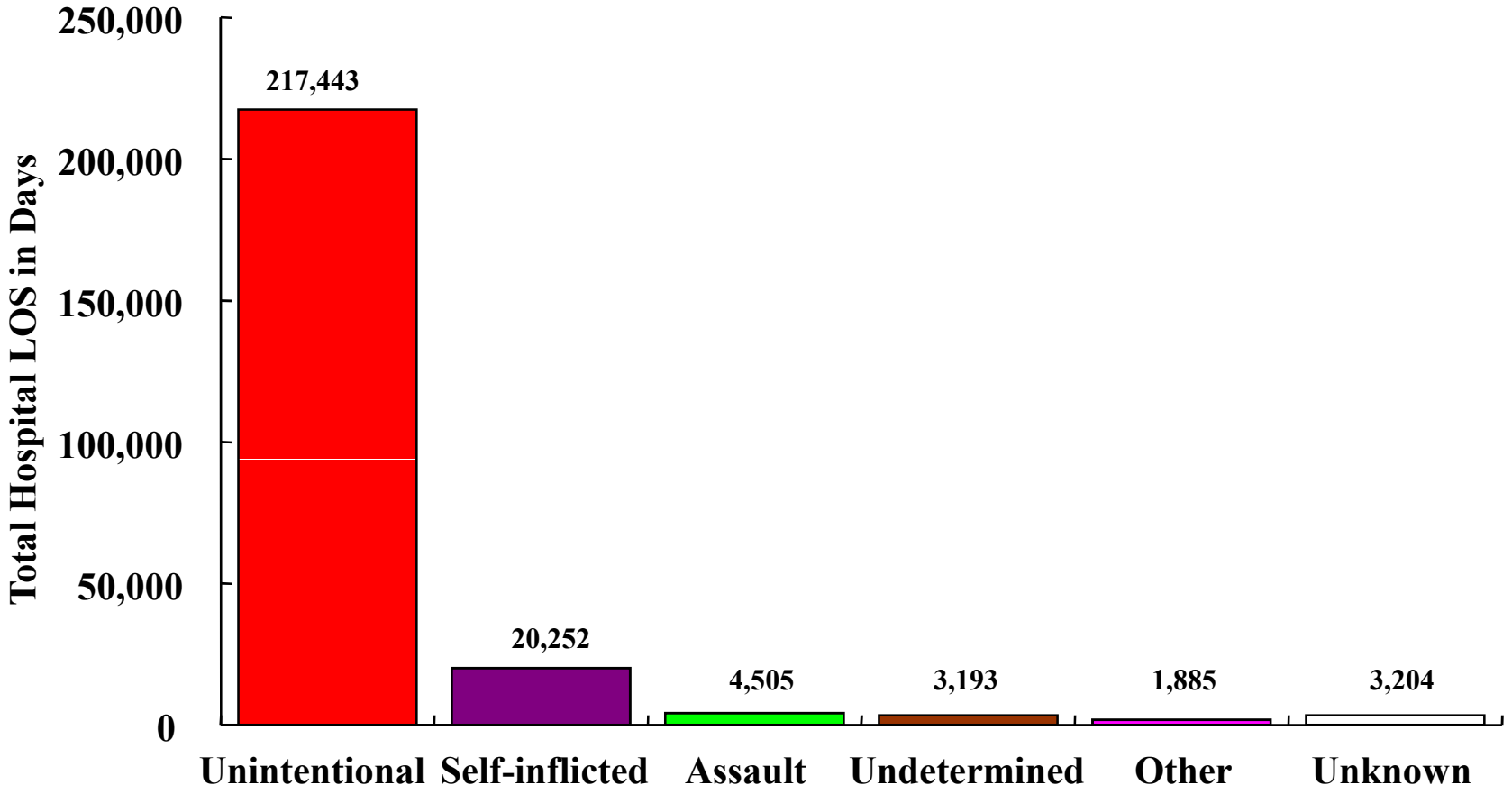


Figure 35A Total Hospital LOS by Intent
Industrial accident was included in the category of "Unintentional".

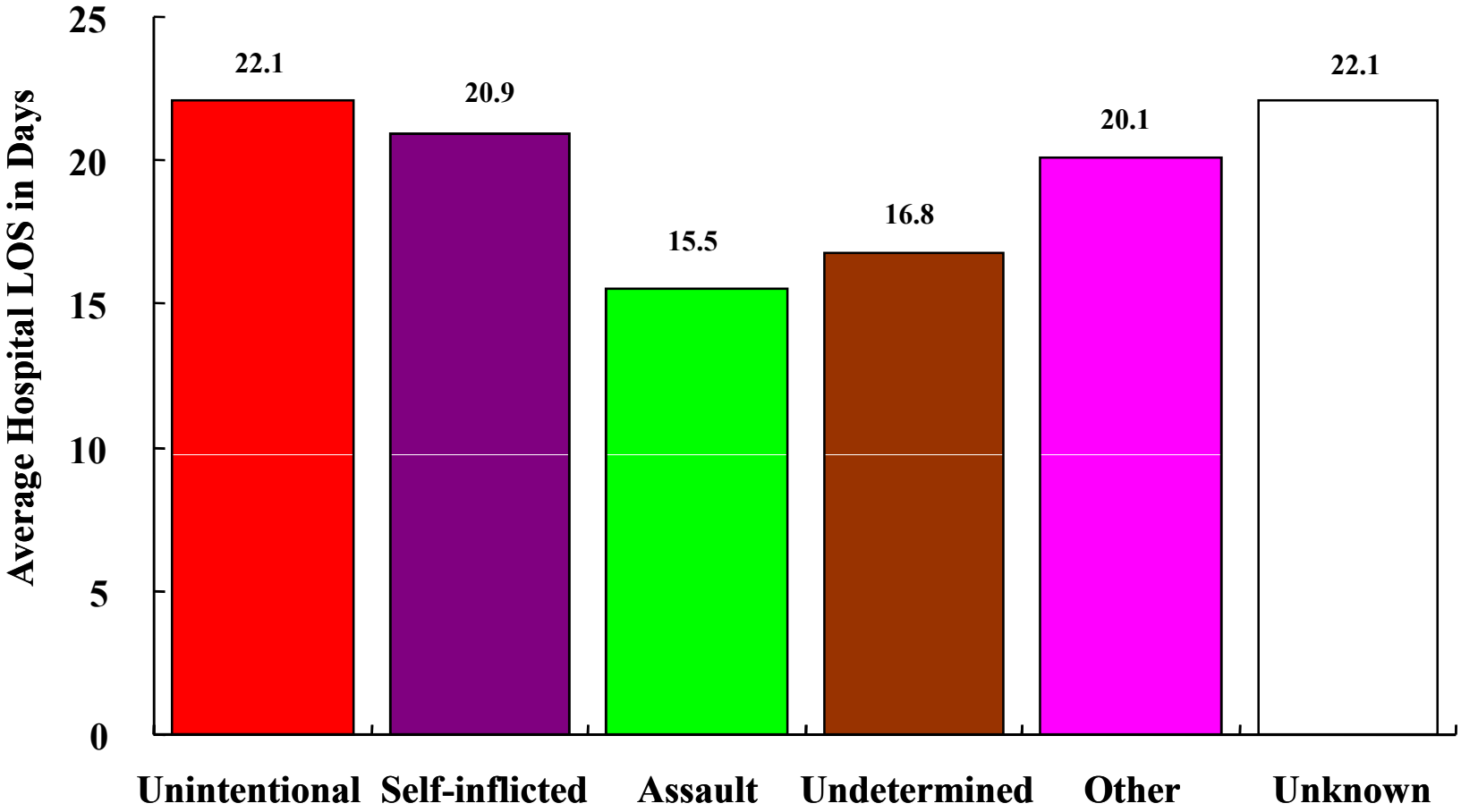


Figure 35B Average Hospital LOS by Intent

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

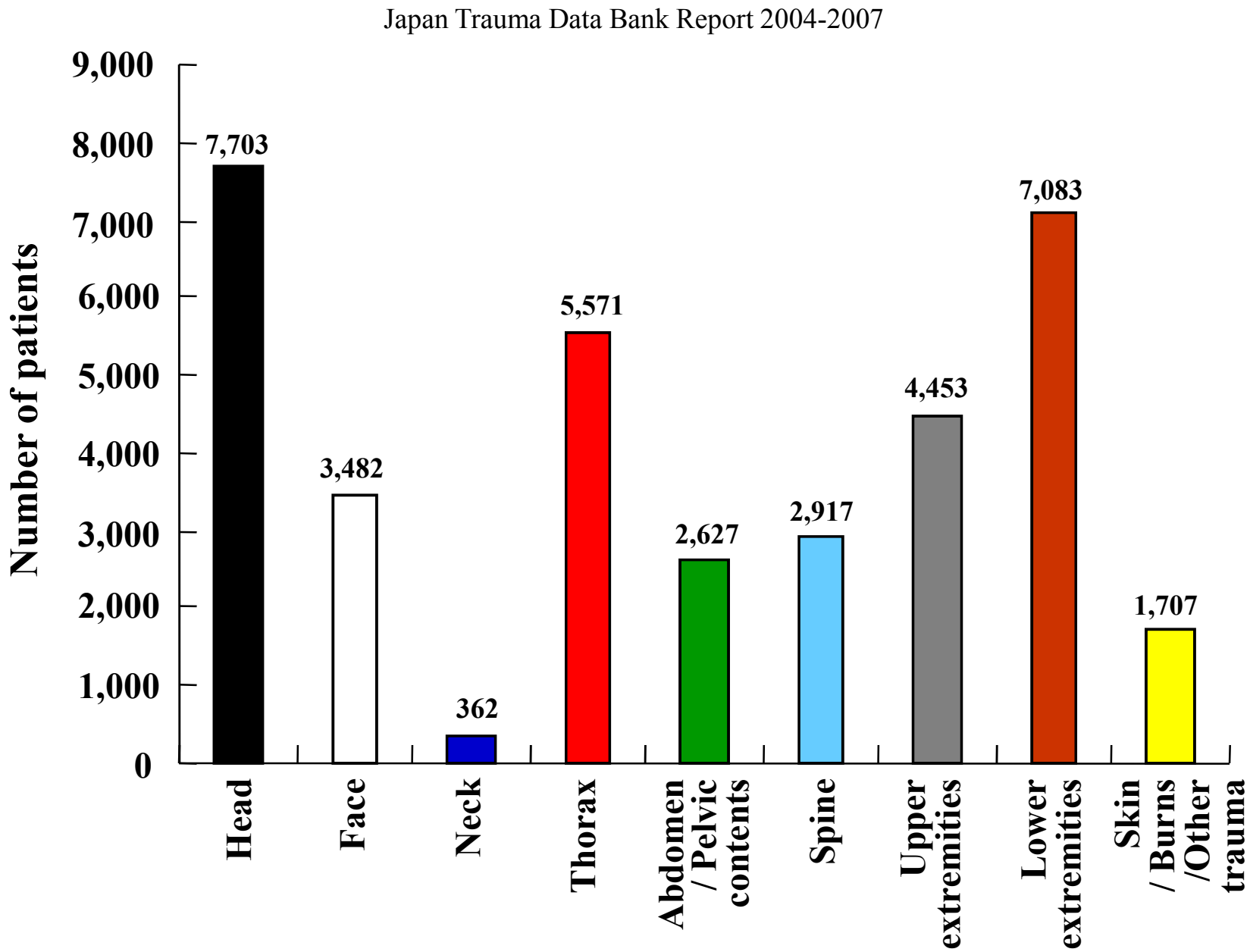


Figure 36 Number of Patients with Injured Body Parts based on AIS

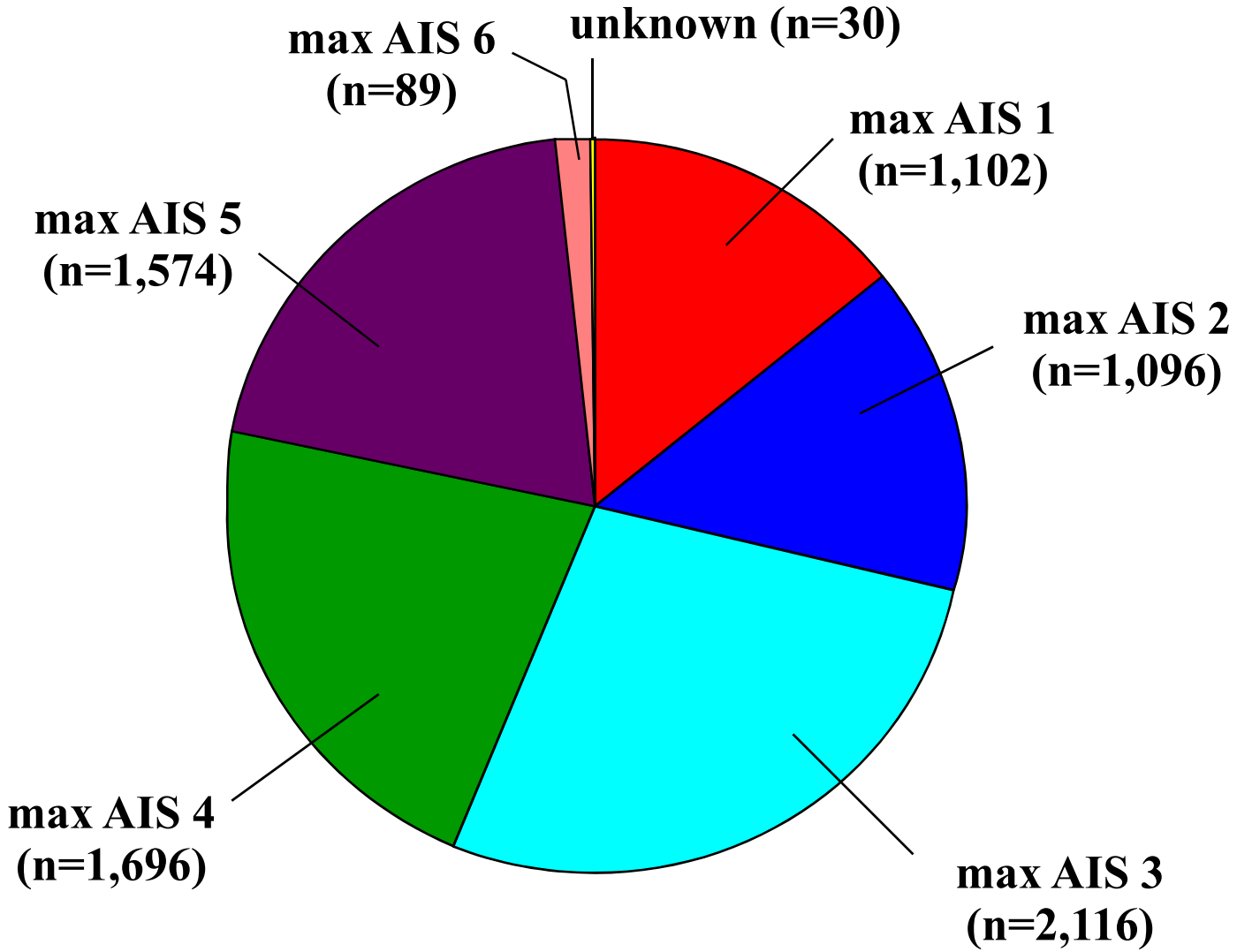


Figure 37A Head Injury and max AIS Score

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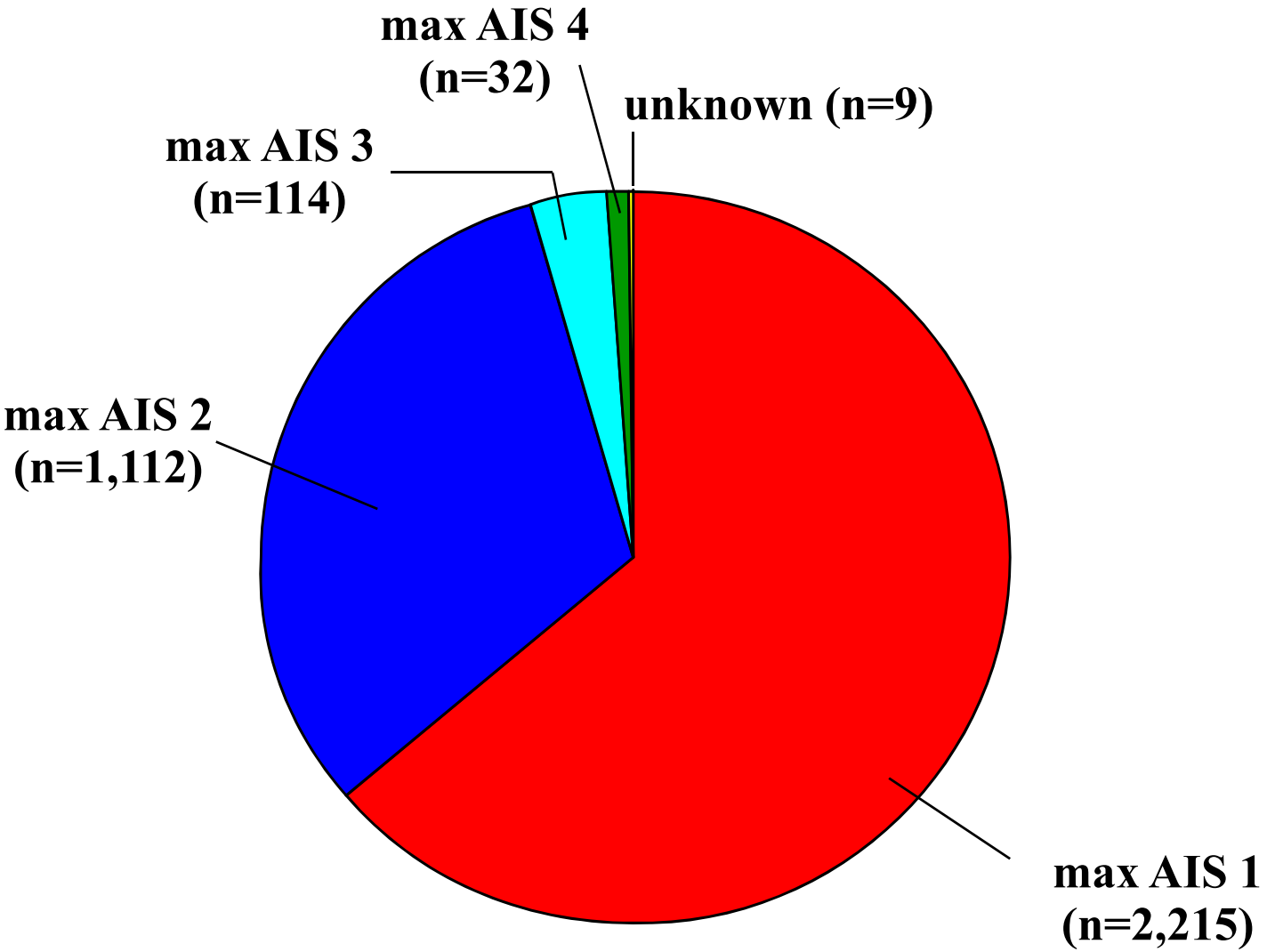

Figure 37B Facial Injury and max AIS Score

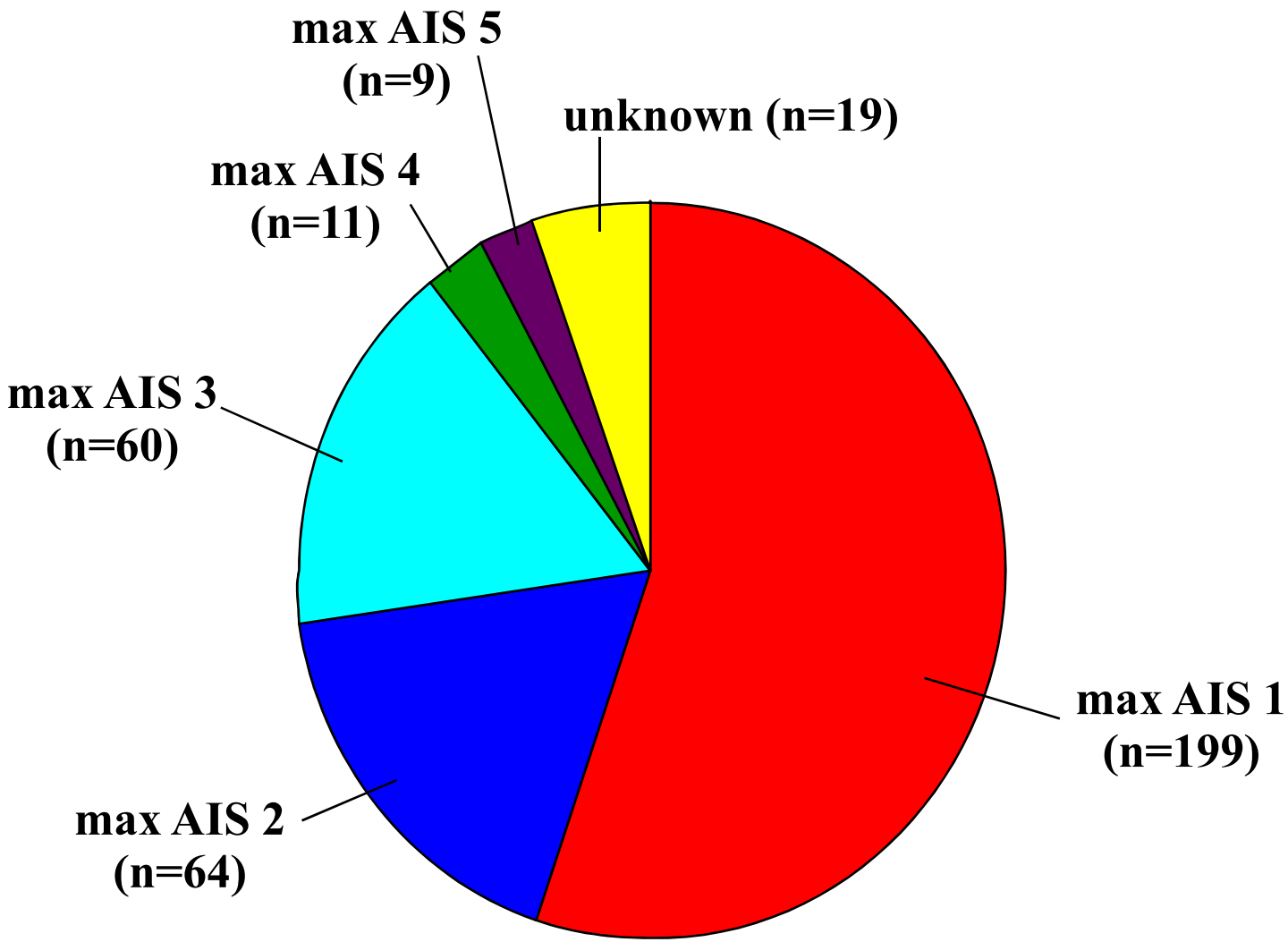

Figure 37C Neck Injury and max AIS Score

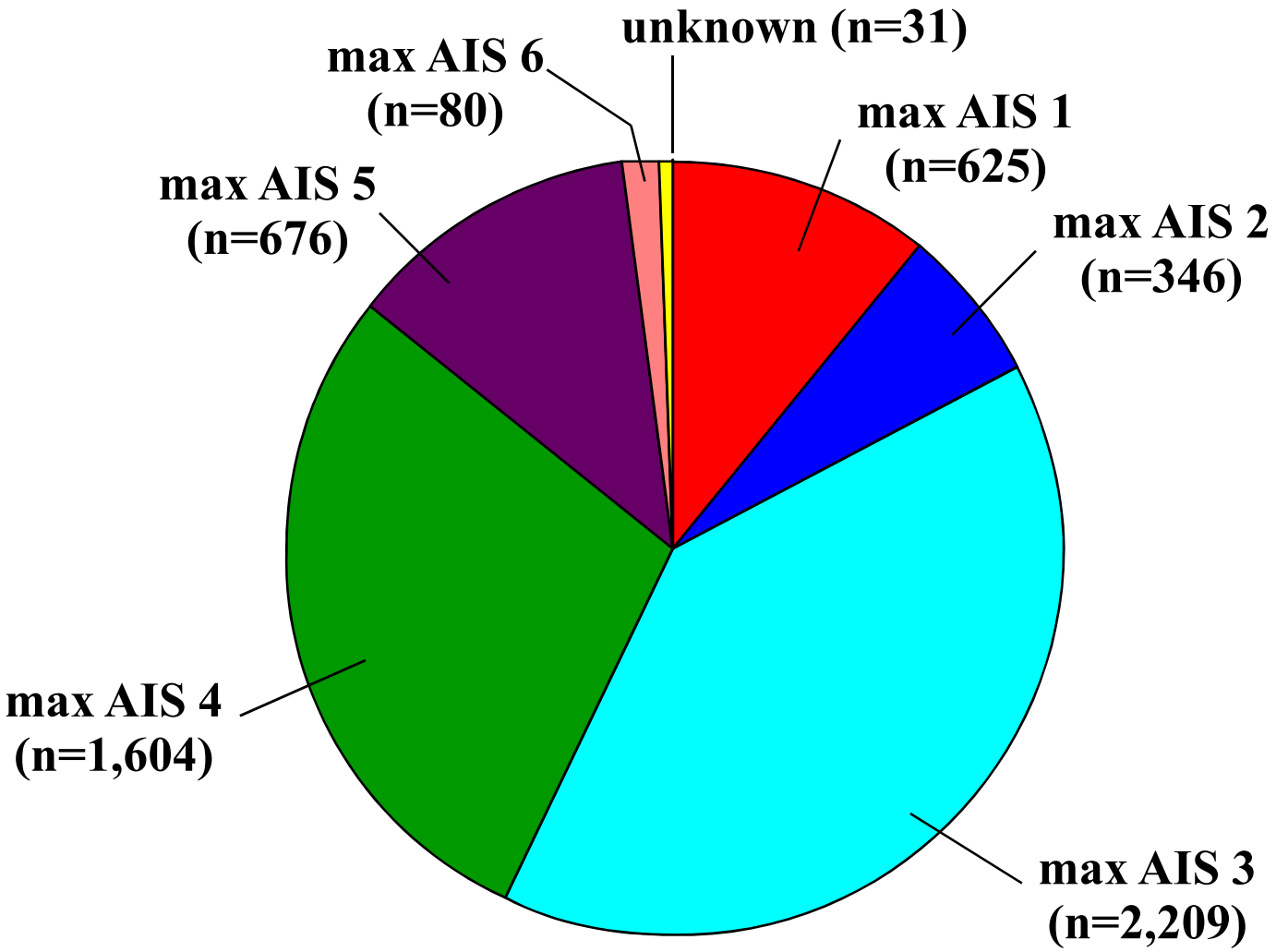

Figure 37D Thoracic Injury and max AIS Score

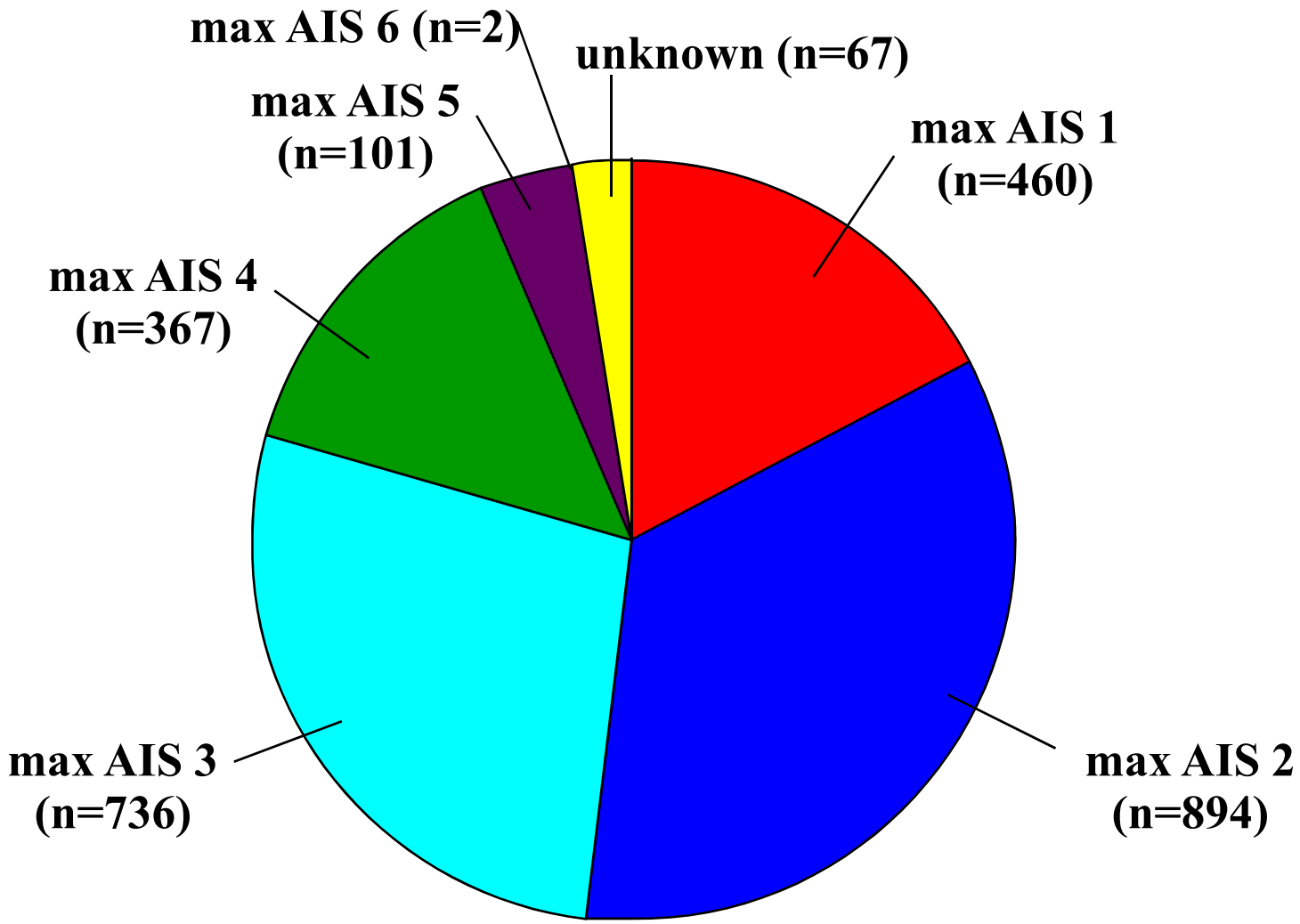

Figure 37E Injury of Abdomen/Pelvic Contents and max AIS Score

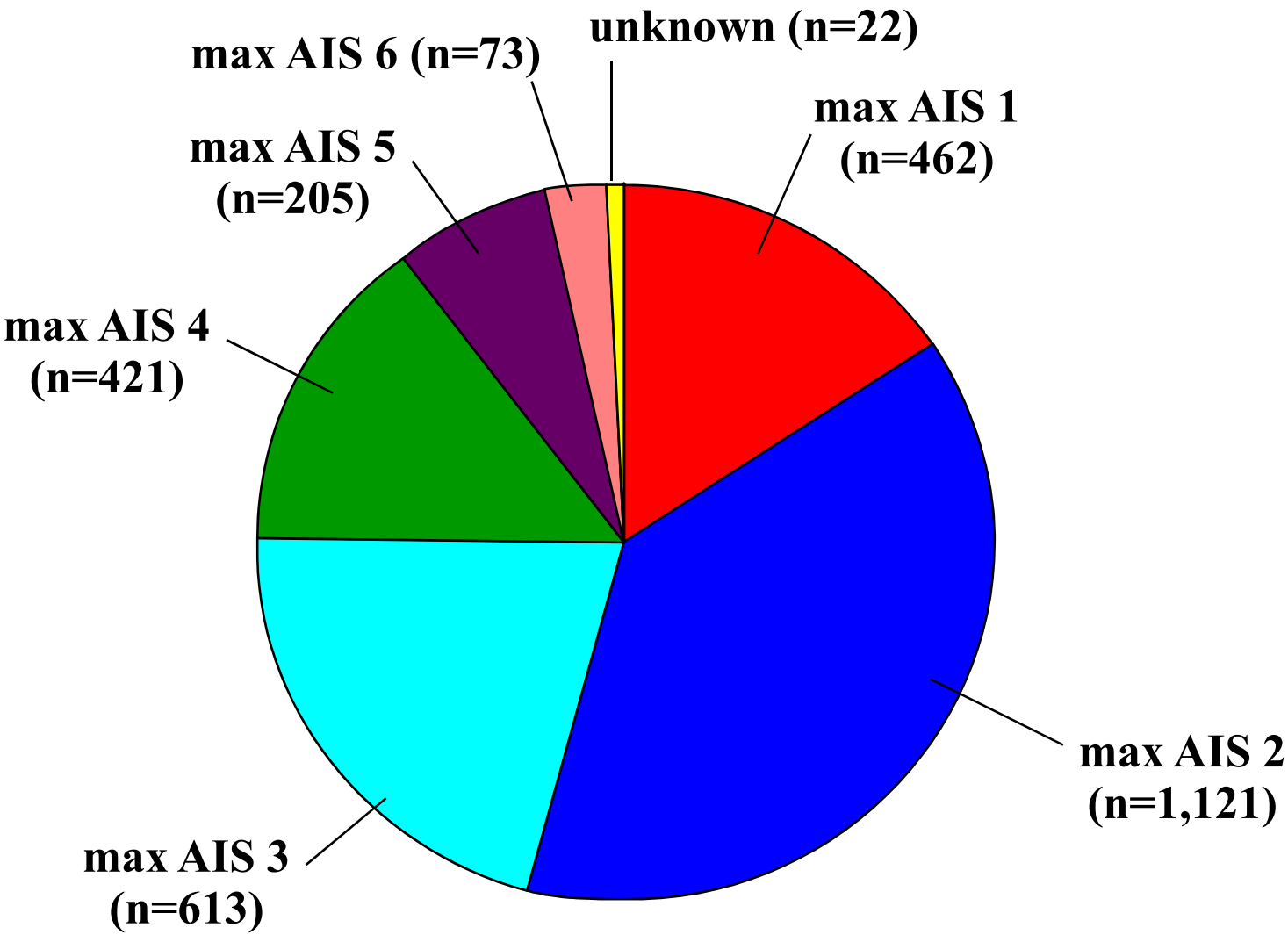

Figure 37F Spine Injury and max AIS Score

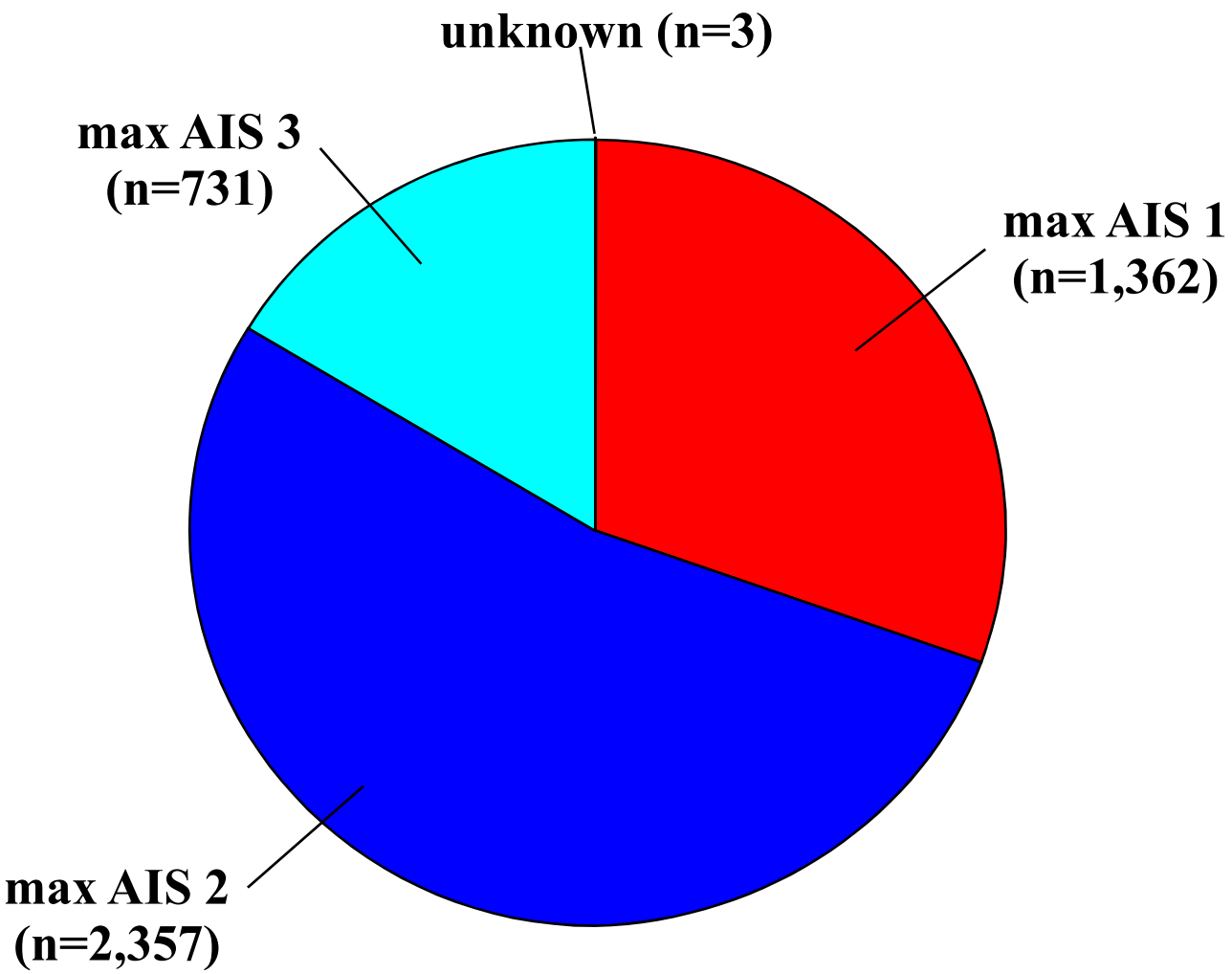

Figure 37G Injury of Upper Extremities and max AIS Score

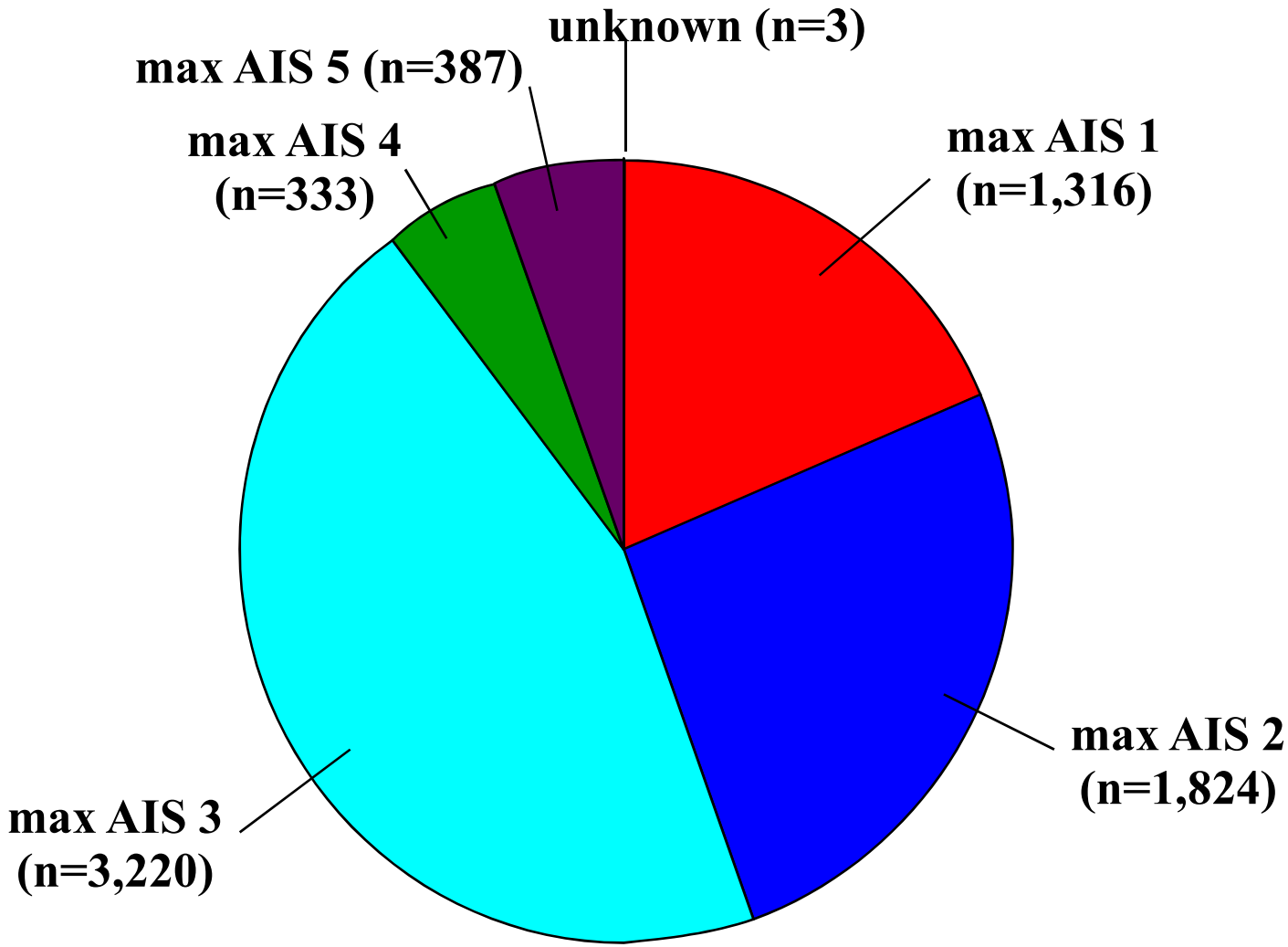

Figure 37H Injury of Lower Extremities and max AIS Score

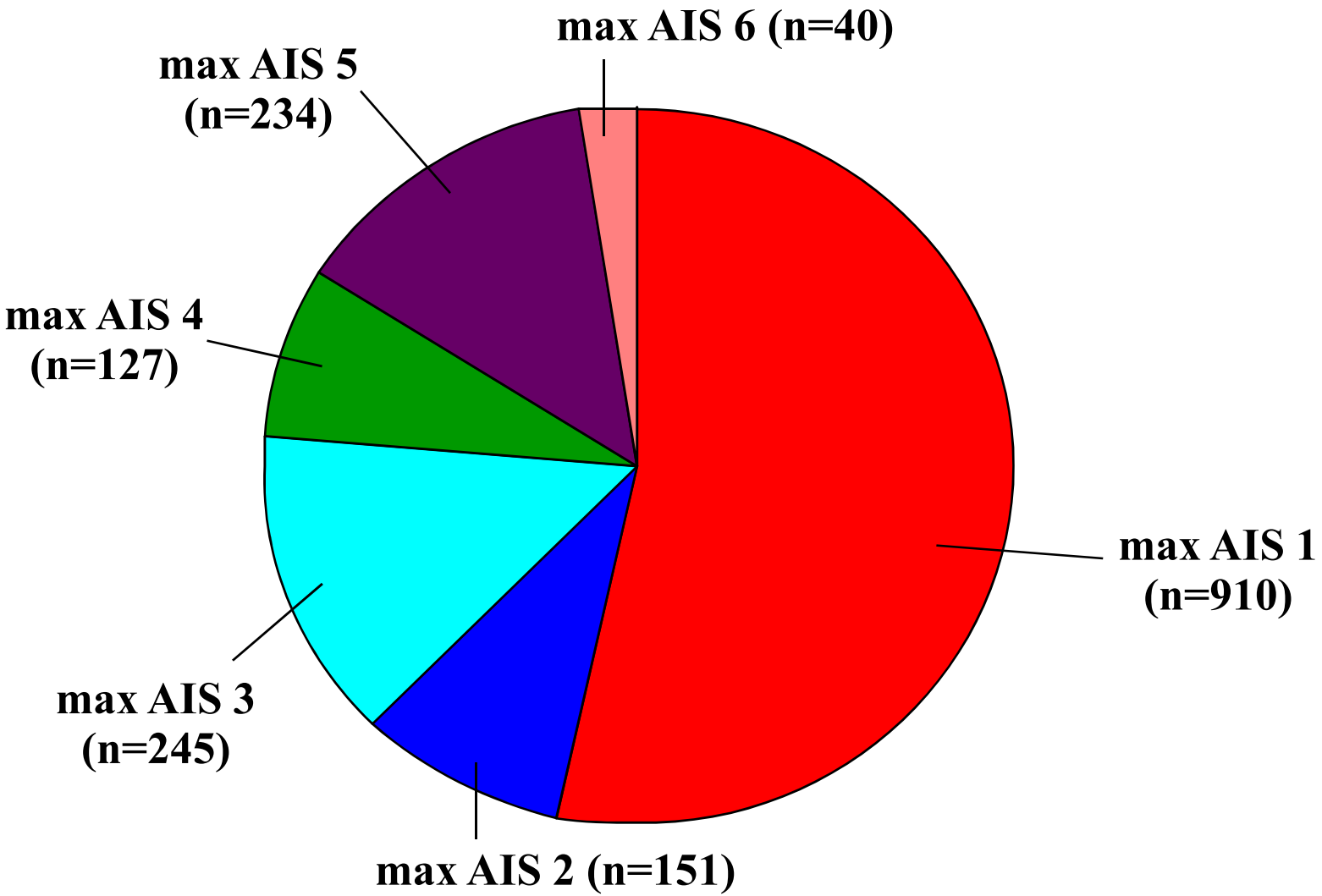

Figure 37I Skin/Burns/Other Trauma and max AIS Score

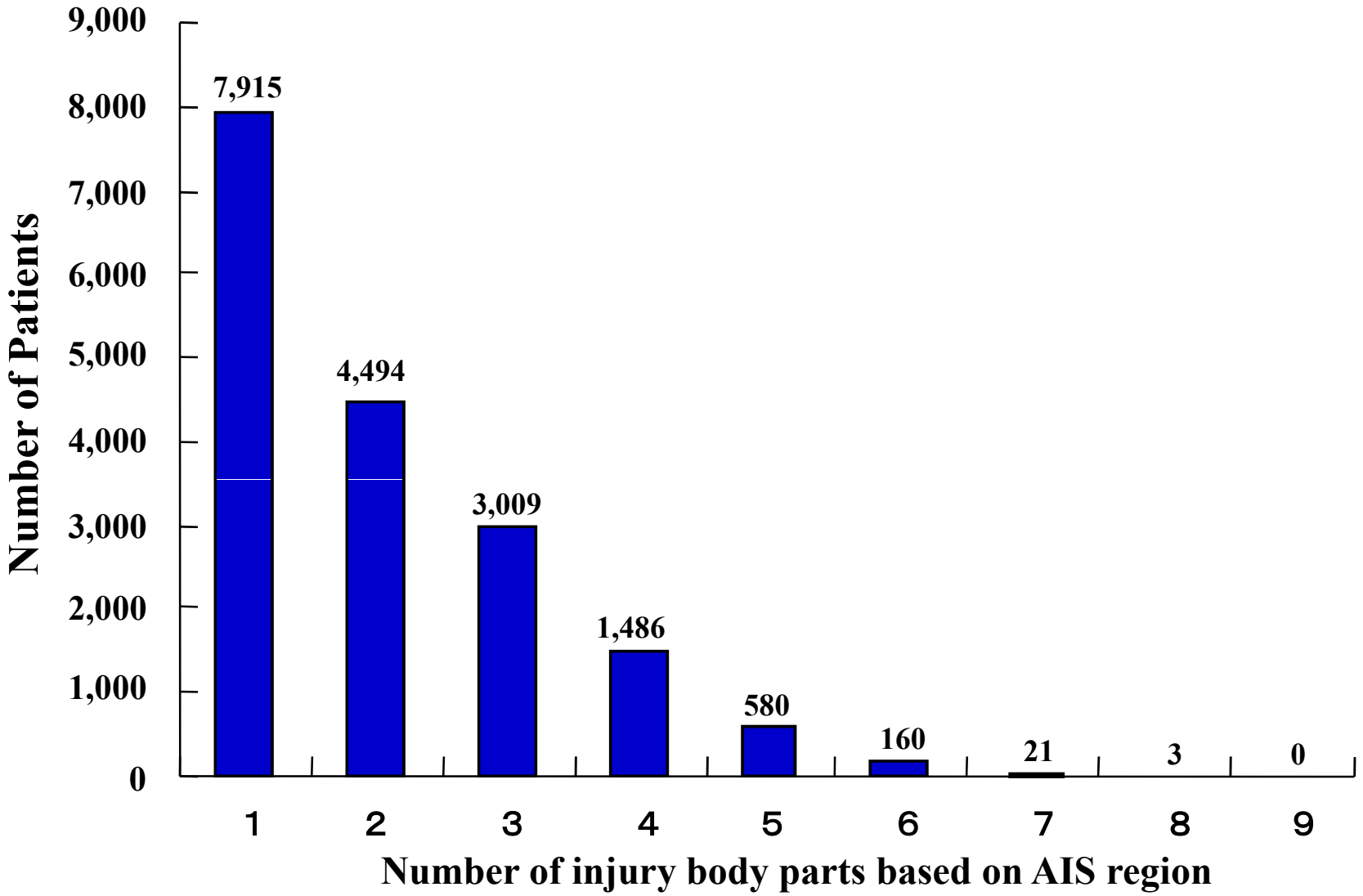

Figure 38 Number of Patients and Injured Body Parts based on AIS

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February 8, 2009

The Japanese Association for Acute Medicine
(Committee for Clinical Care Evaluation)
Trustee: Tohru Aruga, MD
Chairman: Tetsuya Sakamoto, MD

The Japanese Association for the Surgery of Trauma
(Trauma Registry Committee)
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Akio Kimura, MD
Hideo Tohira, MD
Munetaka Hayashi, MD
Atsuhiro Fukuda, MD
Takashi Fujita, MD
Tomohiko Masuno, MD
Yasufumi Miyake, MD
Naoto Morimura, MD
Yoshihiro Yamaguchi, MD
Noriaki Aoki, MD