

# **Japan Trauma Data Bank Report 2005-2009**

## **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)**



## Japan Trauma Data Bank Report 2005-2009

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
Hokkaido University Hospital	Kyorin University Hospital
Hachinohe City Hospital	Nippon Medical School Tama Nagayama Hospital
Kuji Prefectural Hospital	Nippon Medical School Hospital
Iwate Medical University Hospital	National Hospital Organization National Disaster Medical Center
Sendai City Hospital	Tokyo Women's Medical University Medical Center East
Aizu Central Hospital	Tokyo Medical University Hospital
Ishinomaki Red Cross Hospital	International Medical Center of Japan
Ohta Nishinouchi Hospital	Teikyo University Hospital
Tsukuba Medical Center Hospital	Musashino Red Cross Hospital
Dokkyo Medical University Hospital	Metropolitan Hiroo Hospital
Gunma University Hospital	National Hospital Organization Tokyo Medical Center
Maebashi Red Cross Hospital	Showa General Hospital
Critical Care Center, Saitama Medical University	Tokyo Medical University Hachioji Medical Center
National Defense Medical College Hospital	Keio University Hospital
Koshigaya Hospital, Dokkyo University School Medicine	Yokohama City Minato Red Cross Hospital
Kawaguchi Municipal Medical Center	Yokosuka General Hospital Uwamachi
Saitama Red Cross Hospital	Kitasato University Hospital
Kimitsu Chuou Hospital	Showa University Fujigaoka Hospital
Kameda General Hospital	Saiseikai Yokohama-city East Hospital
Chiba Emergency Medical Center	Tokai University Hospital
Nippon Medical School Chiba Hokusoh Hospital	Yokohama City University Medical Center
Asahi Central Hospital	Yokohama Municipal Citizens Hospital
Funabashi Municipal Medical Center	Kanto Rosai Hospital
Metropolitan Bokutoh Hospital	Nippon Medical School Musashikosugi Hospital
Tokyo Medical and Dental University Hospital	St. Marianna University School of Medicine Hospital
Nihon University Itabashi Hospital	Aizawa Hospital
Numazu City Hospital	Takayama Red Cross Hospital
Aishinkai Ohsumi Kanoya Hospital	Shizuoka Saiseikai General Hospital
Teineyama Keijinnkai Hospital	Wakayama Medical University Hospital
Osaki Citizen Hospital	Ehime Prefectural Central Hospital
Jichi Medical School Hospital	Juntendo University Urayasu Hospital
	Shizuoka Children's Hospital
	Hukui Prefectural Hospital

**Figure 1A Names of All Hospitals Submitting Data to the JTDB (N=144, part 1)**

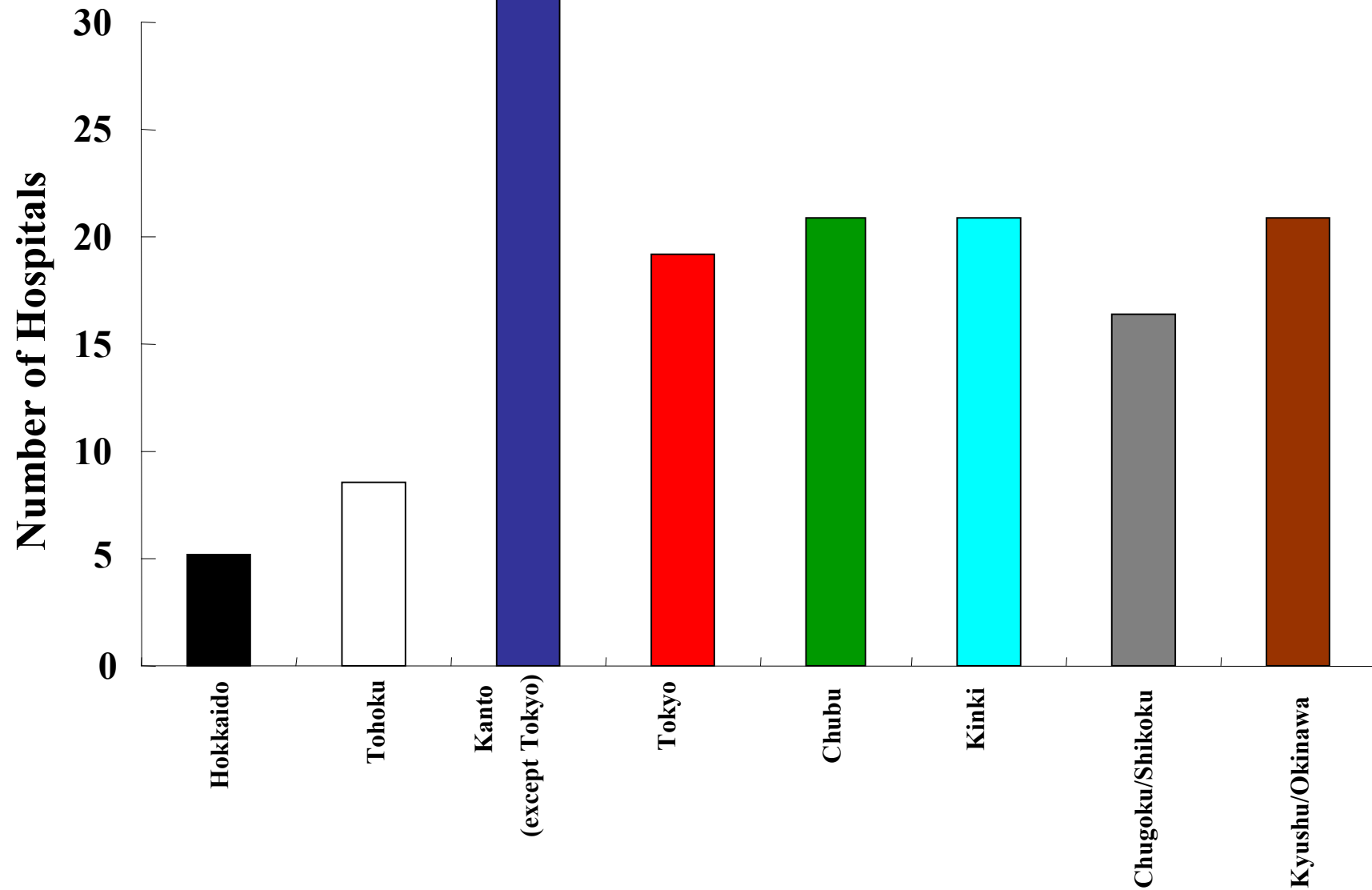
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National Hospital organization Yokohama Medical Center  
Showa University Northern Yokohama Hospital  
Toyama University Hospital  
Toyama Prefectural Central Hospital  
Yamanashi Prefectural Central Hospital  
Shinshu University Hospital  
Saku Central Hospital  
Gifu University Hospital  
JA Gifu Koserren 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  
Osaka National Hospital  
Hyogo Prefectural Nishinomiya Hospital  
Kochi Medical Center  
Okinawa Prefectural Chubu Hospital  
Kurume University Hospital  
Iizuka Hospital  
Shonan Kamakura General Hospital  
Ibaragi Seinan Medical Center Hospital  
Hiroshima University Hospital  
Tokushima Prefectural General 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  
Taoka 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  
Saitama Medical University International Medical Center  
Tokushima Prefectural Kaihu Hospital  
Tohoku University Hospital  
Arao Municipal Hospital  
Kumamoto Red Cross Hospital

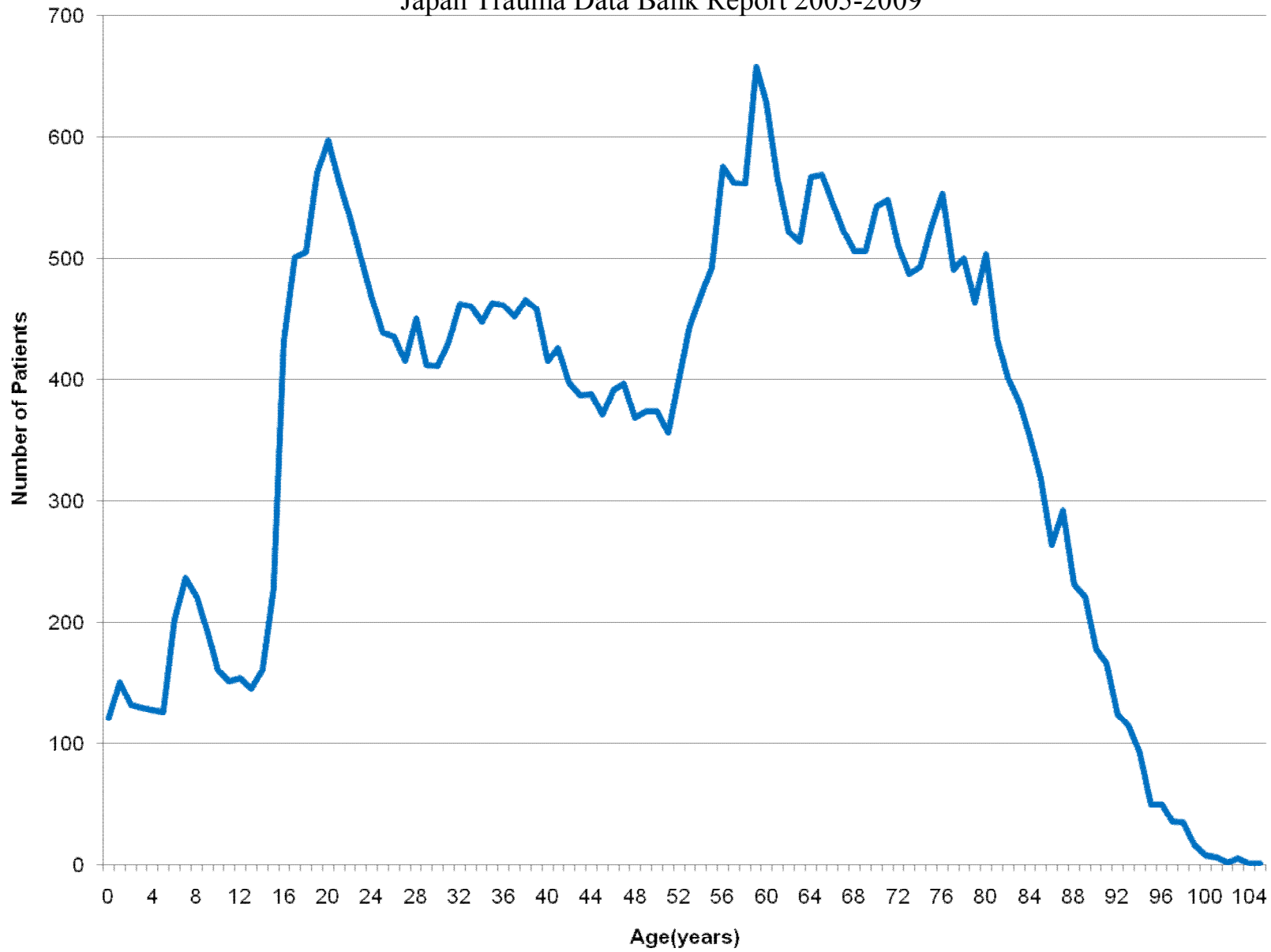
**Figure 1B Names of All Hospitals Submitting Data to the JTDB (N=144, part 2)**

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

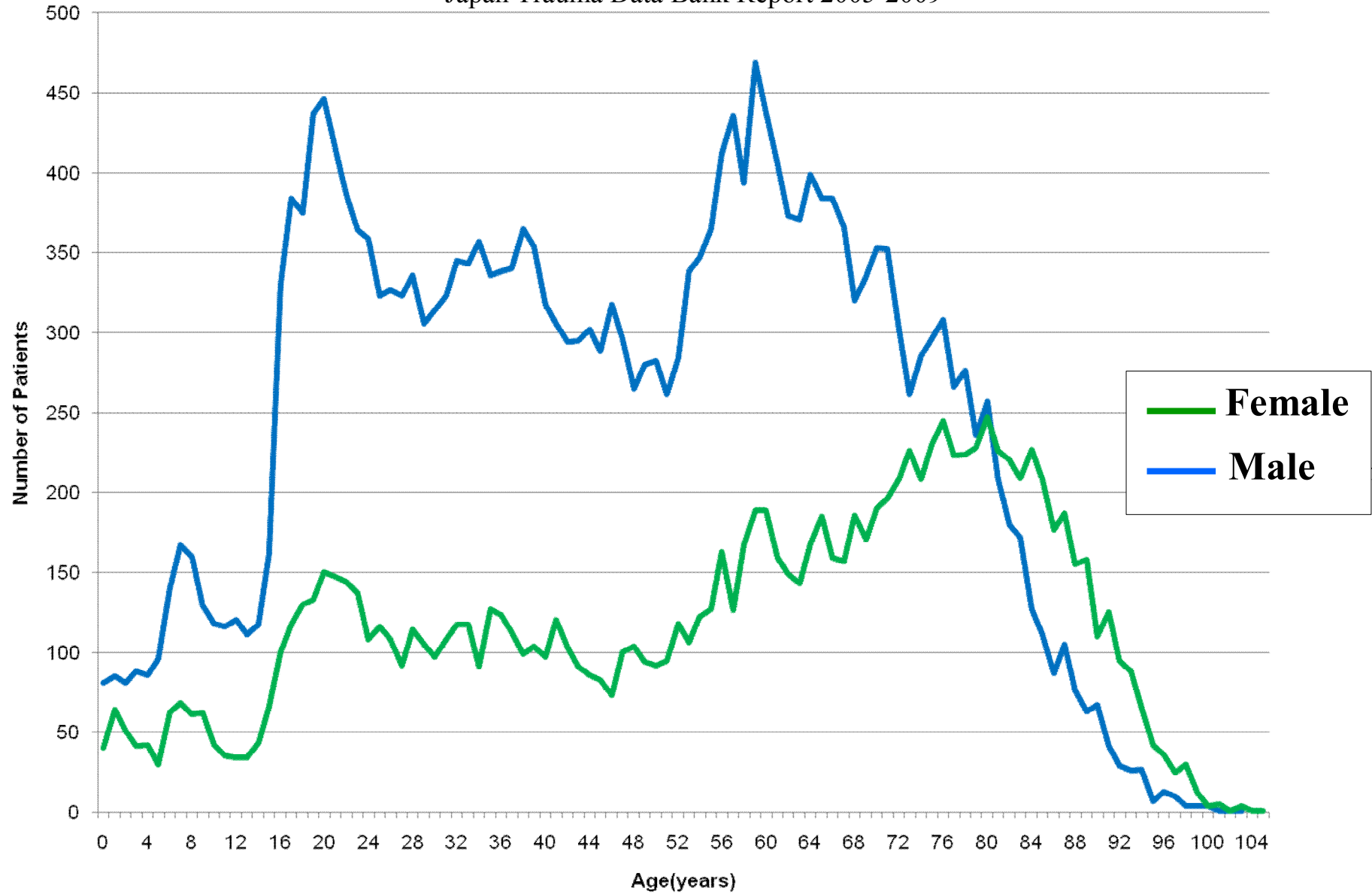
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**Figure 3 Number of patients by Age**

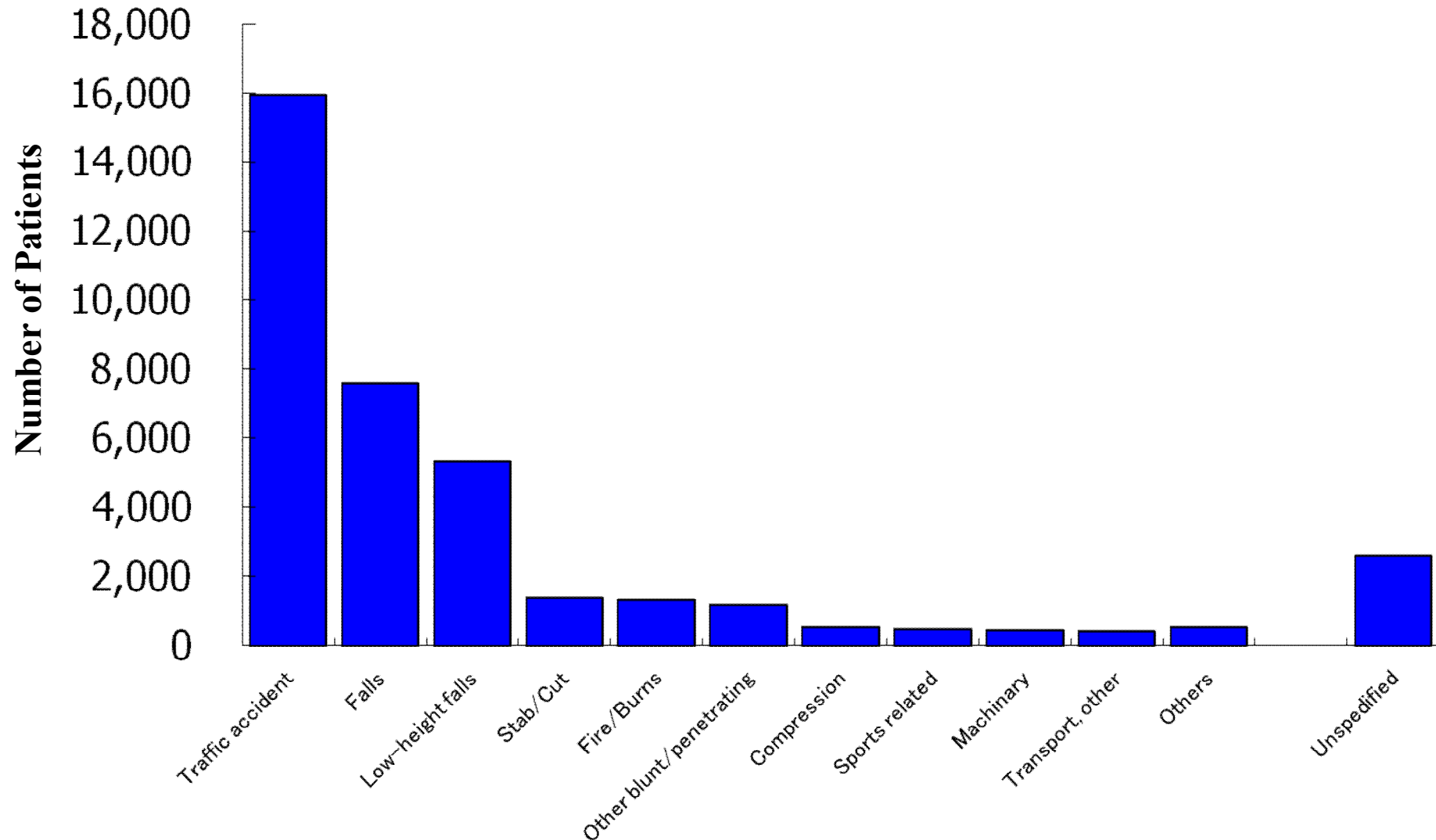
Two peaks were seen in the 20's and 50's.

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**Figure 4 Patients by Age and gender**

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



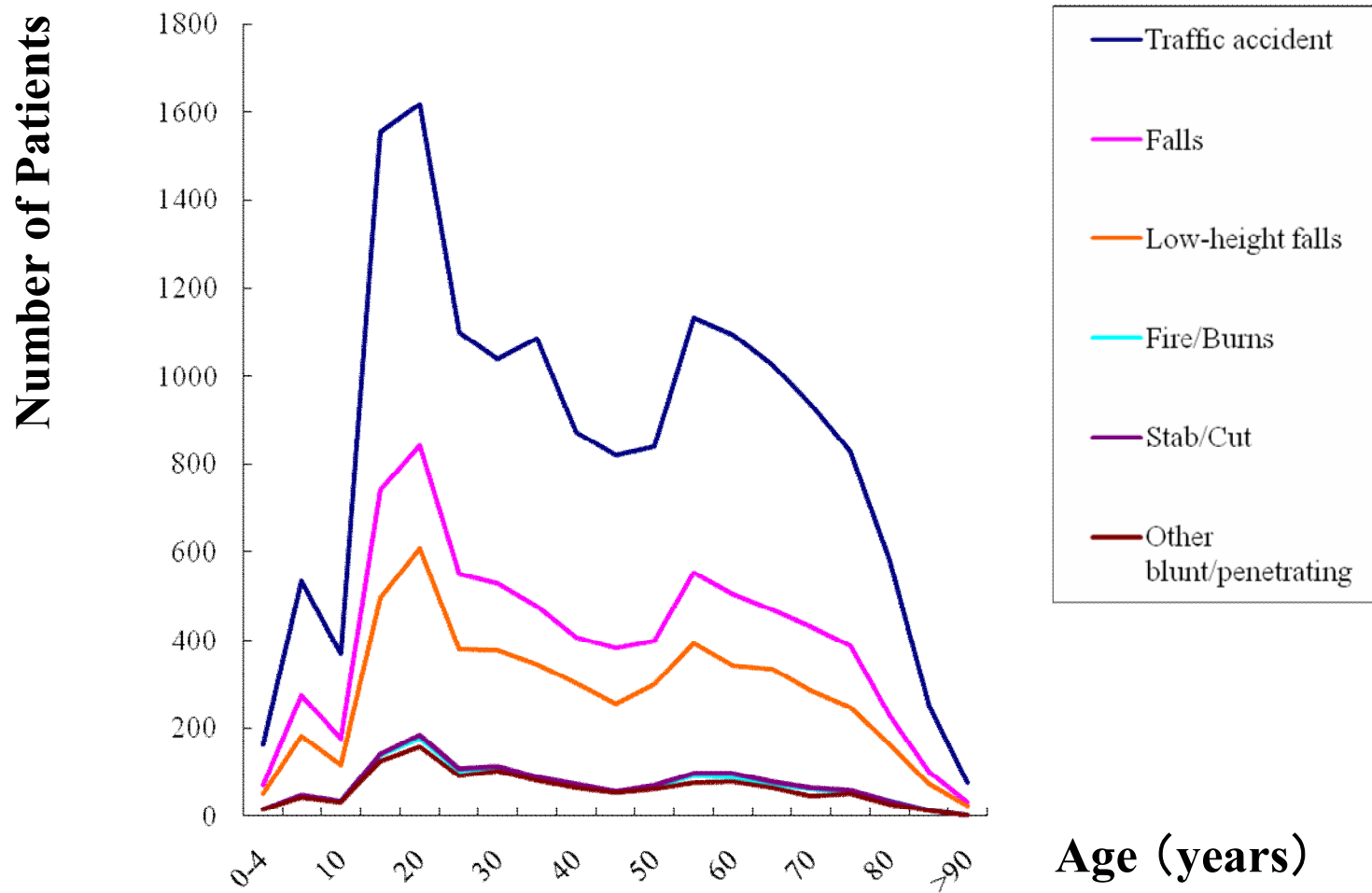
**Figure 5 Patients by Mechanism of Injury**

**Traffic accident includes pedestrian victims.**

Mechanism of injury	Patients (n)	Patients by mechanism of injury (n)
Traffic accident	15961	53.99
Falls	7587	20.07
Low-height falls	5321	14.08
Stab/Cut	1389	3.67
Fire/Burns	1332	3.52
Other blunt/penetrating	1188	3.14
Compression	549	1.45
Sports related	482	1.28
Machinery	462	1.22
Transport, other	410	1.08
Falling object	324	0.86
Impalement injury	43	0.11
Gunshot	35	0.09
House collapse/Landslide	19	0.05
Explosion	108	0.29
Unspecified	2586	6.84
<b>Total</b>	<b>37796</b>	<b>100.00</b>

**Table 5 Patients by Mechanism of Injury**



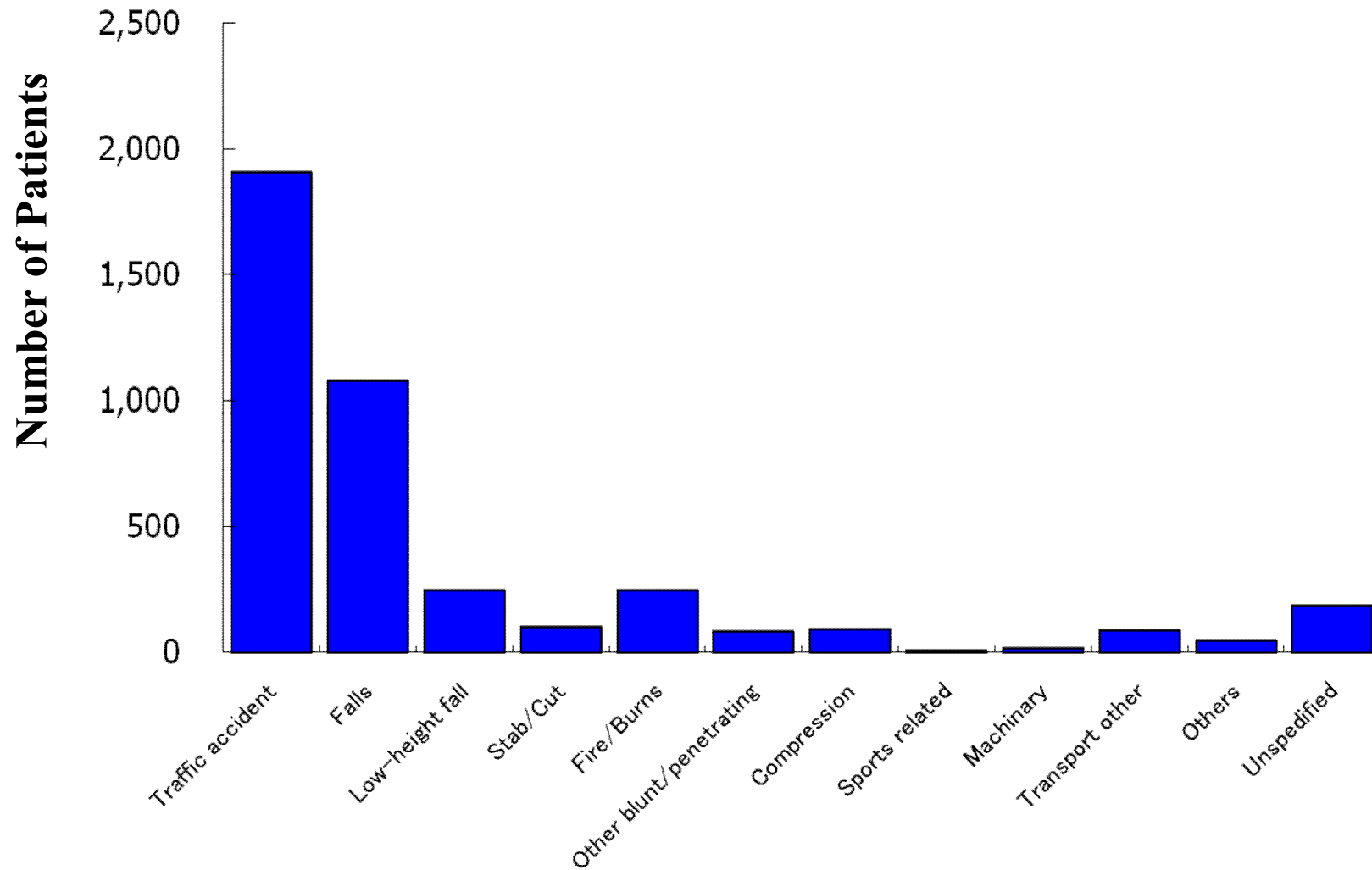


**Figure 6 Mechanism of Injury by Age**

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Range of Age (yr)	Traffic accident (n)	% of total range of age (%)	Falls (n)	% of total range of age (%)	Low-height falls (n)	% of total range of age (%)	Stab/Cut (n)	% of total range of age (%)	Fire/Burns (n)	% of total range of age (%)	Other blunt/pnet rating (n)	% of total range of age (%)
0-4	162	1.01	70	0.92	51	0.96	17	1.22	17	1.28	16	1.35
5-9	535	3.35	275	3.62	181	3.40	49	3.53	46	3.45	42	3.54
10-14	370	2.32	176	2.32	116	2.18	36	2.59	34	2.55	31	2.61
15-19	1557	9.76	740	9.75	498	9.36	140	10.08	138	10.36	124	10.44
20-24	1620	10.15	842	11.10	607	11.41	185	13.32	176	13.21	157	13.22
25-29	1100	6.89	550	7.25	381	7.16	109	7.85	104	7.81	92	7.74
30-34	1041	6.52	528	6.96	376	7.07	114	8.21	111	8.33	102	8.59
35-39	1085	6.80	477	6.29	344	6.46	89	6.41	85	6.38	80	6.73
40-44	872	5.46	407	5.36	301	5.66	74	5.33	71	5.33	65	5.47
45-49	820	5.14	383	5.05	254	4.77	56	4.03	55	4.13	53	4.46
50-54	839	5.26	400	5.27	297	5.58	71	5.11	68	5.11	62	5.22
55-59	1133	7.10	554	7.30	393	7.39	98	7.06	92	6.91	75	6.31
60-64	1095	6.86	506	6.67	342	6.43	96	6.91	90	6.76	77	6.48
65-69	1027	6.43	470	6.19	333	6.26	78	5.62	72	5.41	65	5.47
70-74	937	5.87	431	5.68	286	5.37	65	4.68	62	4.65	46	3.87
75-79	827	5.18	387	5.10	246	4.62	59	4.25	55	4.13	52	4.38
80-84	581	3.64	227	2.99	163	3.06	34	2.45	34	2.55	28	2.36
85-89	249	1.56	99	1.30	73	1.37	14	1.01	14	1.05	13	1.09
>=90	76	0.48	33	0.43	24	0.45	3	0.22	3	0.23	3	0.25
Unspecified	35	0.22	32	0.42	55	1.03	2	0.14	5	0.38	5	0.42
<b>Total</b>	<b>15961</b>		<b>7587</b>		<b>5321</b>		<b>1389</b>		<b>1332</b>		<b>1188</b>	

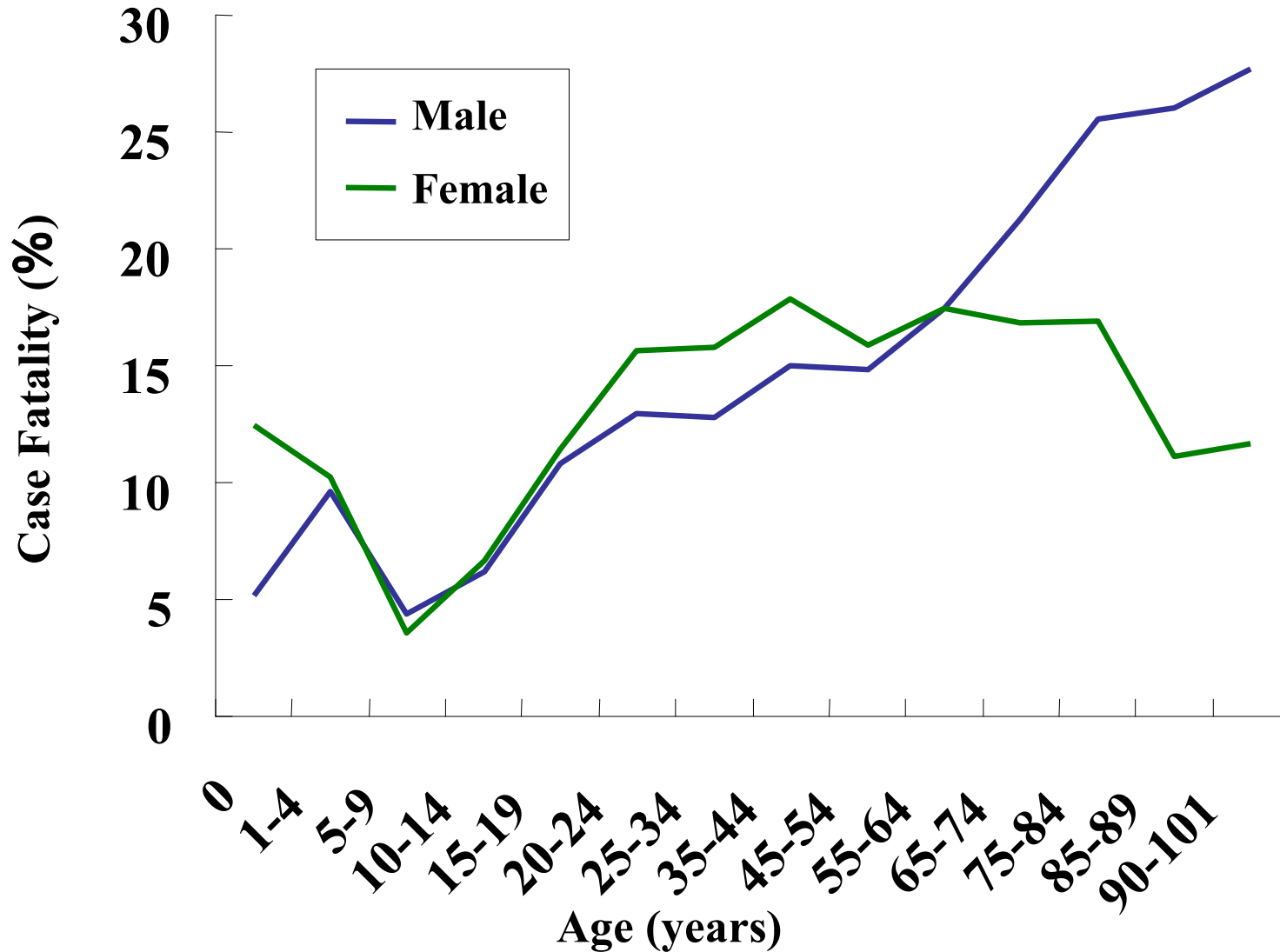
**Table 6 Mechanism of injury by range of age**



**Figure 7 Deaths by Mechanism of Injury**

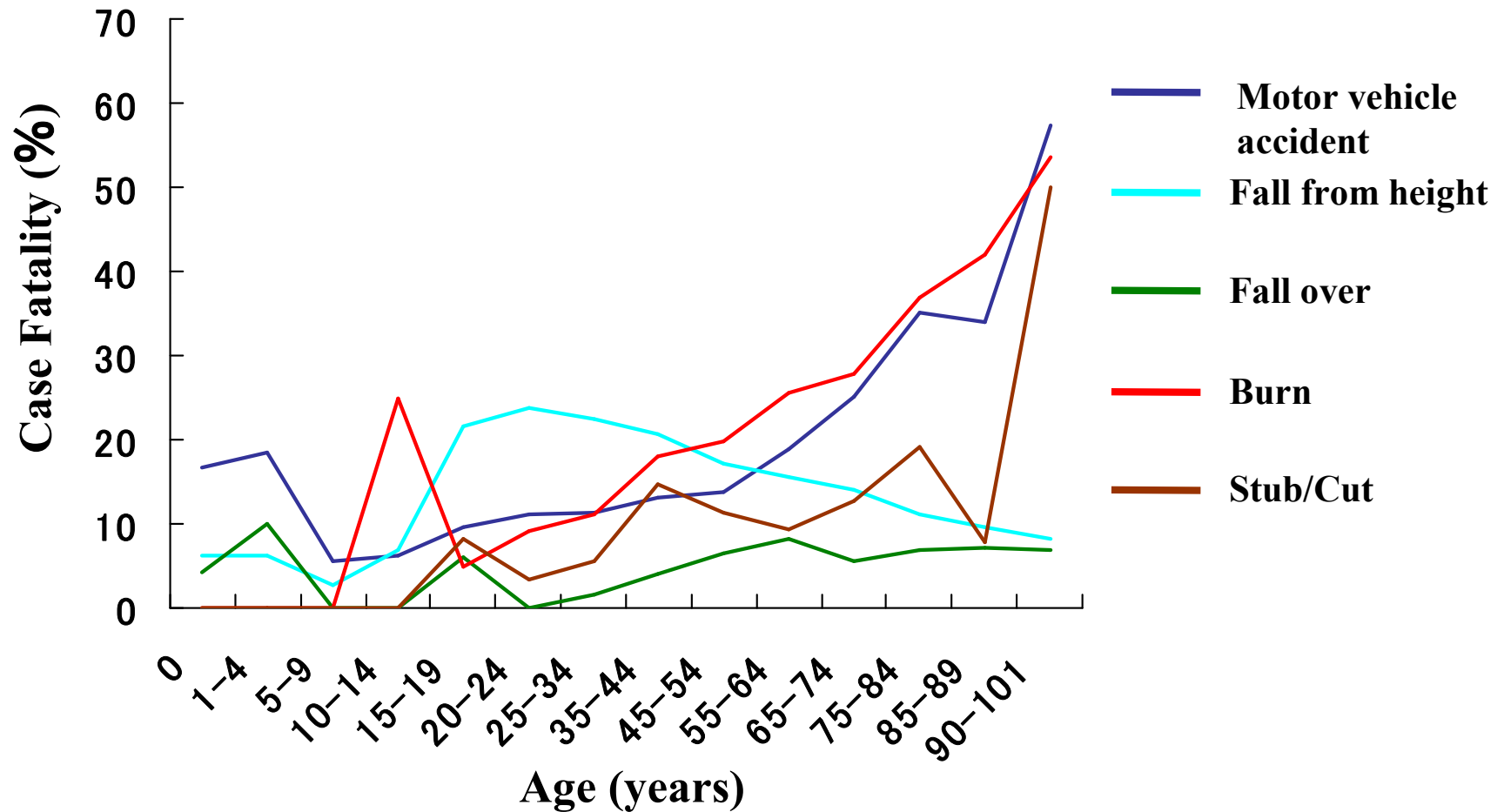


**Figure 8 Case Fatality by Age**



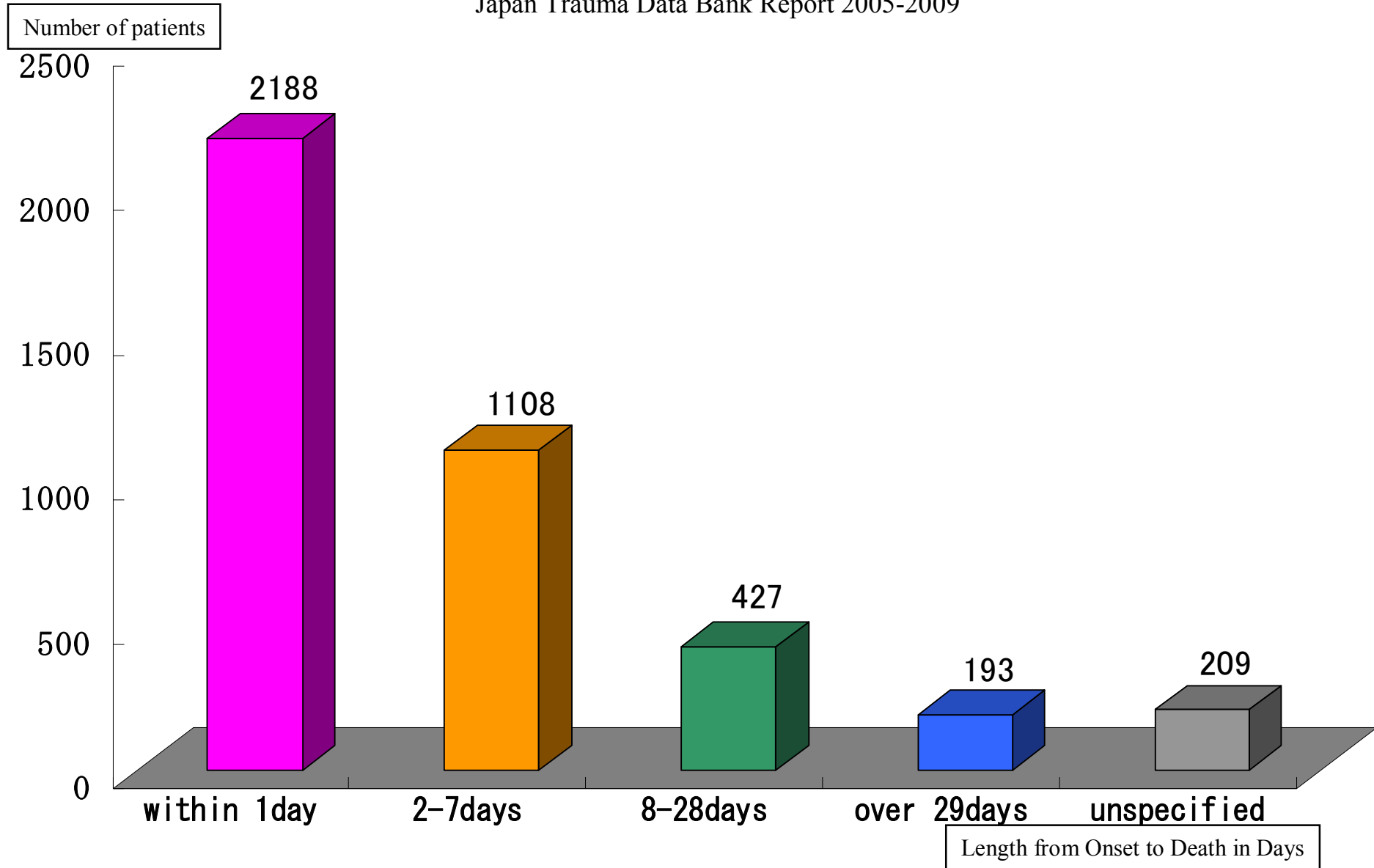
**Figure 9 Case Fatality by Age**

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



**Figure 10 Case Fatality by Injury Mechanism and Age**

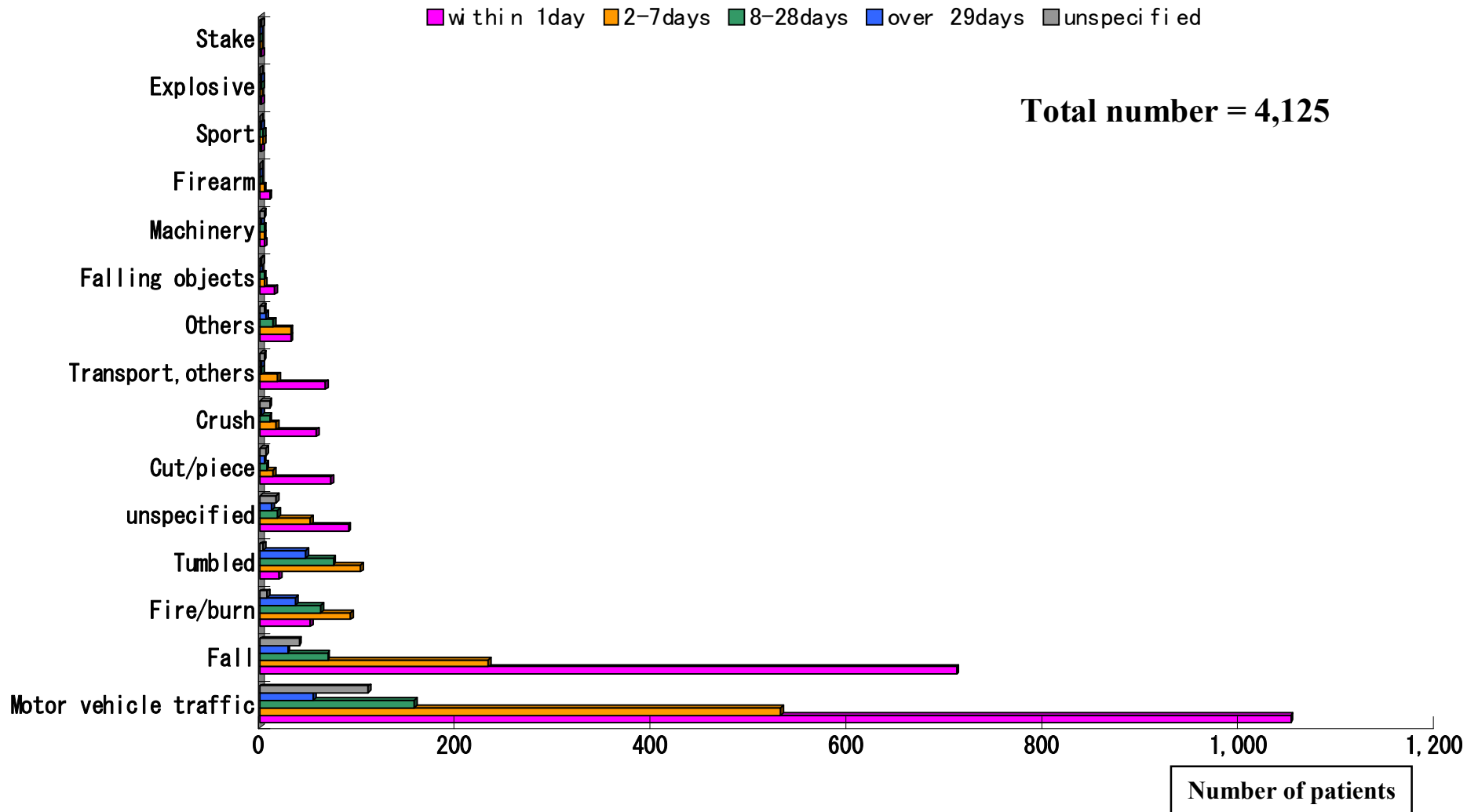
Case fatality due to motor vehicle accidents and burns increased with age.



**Figure 11A Proportional distribution of length from onset to fatality**

**The category within 1 day after onset includes CPAOA patients. Total number = 4,125**

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**Figure 11B Proportional distribution of length from onset to fatality, grouped by mechanism of injury**



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	Motor vehicle traffic	Fall	Fire/burn	Tumbled	unspecified	Cut/piece	Crush	Transport, others
within 1day	1,052	711	52	20	90	73	58	67
2-7days	532	233	92	103	52	14	17	18
8-28days	158	69	62	75	18	7	10	1
over 29days	54	28	36	47	12	4	1	1
unspecified	111	40	8	3	17	6	10	4
<b>計</b>	<b>1907</b>	<b>1081</b>	<b>250</b>	<b>248</b>	<b>189</b>	<b>104</b>	<b>96</b>	<b>91</b>

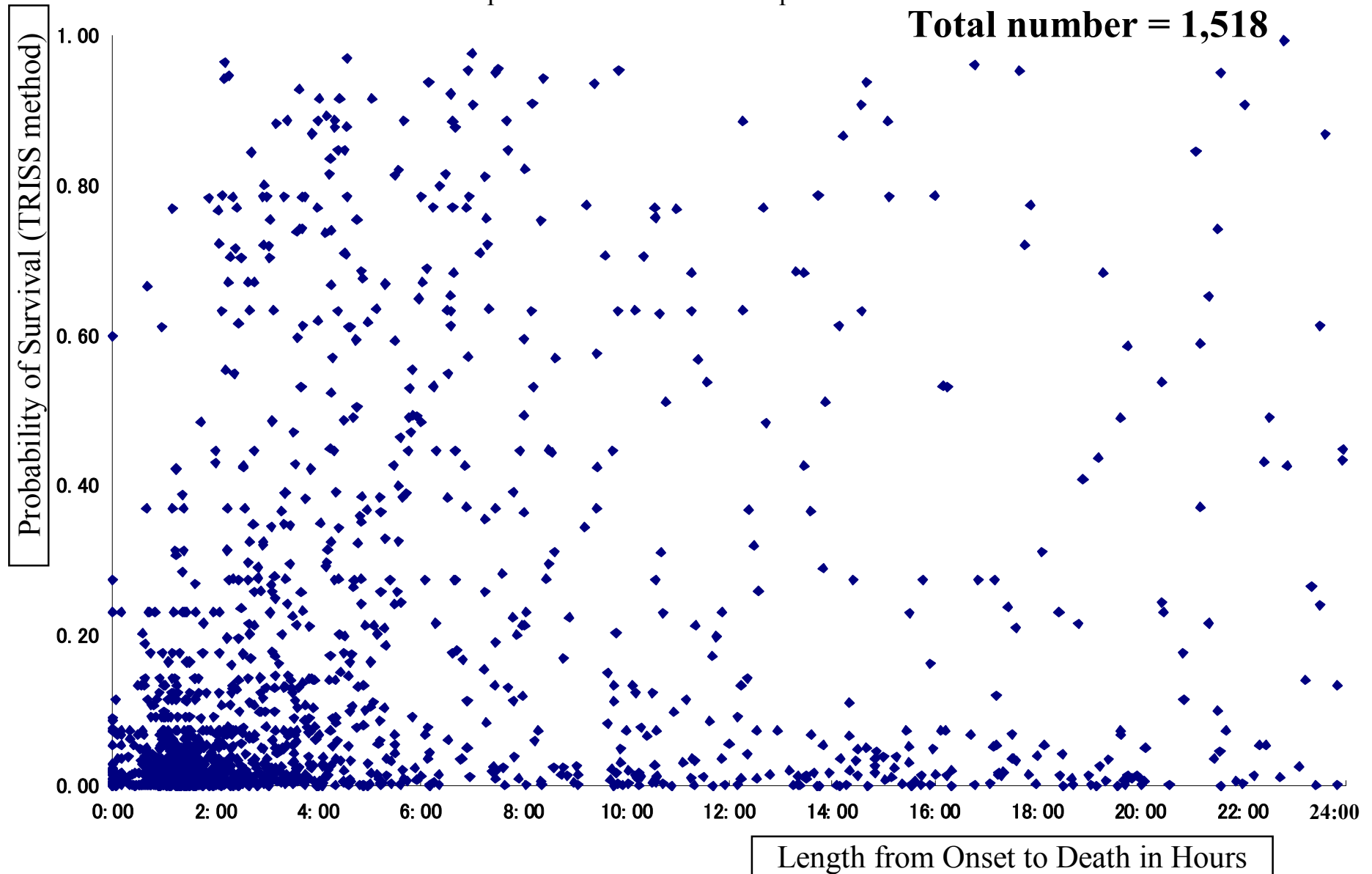
  

	Others	Falling objects	Machinery	Firearm	Sports	Explosive	Stake	Total
within 1day	31	15	5	10	2	1	1	2188
2-7days	31	5	4	4	3	0	0	1108
8-28days	14	4	4	0	3	2	0	427
over 29days	6	0	1	0	1	2	0	193
unspecified	4	1	4	0	0	0	1	209
<b>計</b>	<b>86</b>	<b>25</b>	<b>18</b>	<b>14</b>	<b>9</b>	<b>5</b>	<b>2</b>	<b>4125</b>

**Others; Other specified and classifiable**

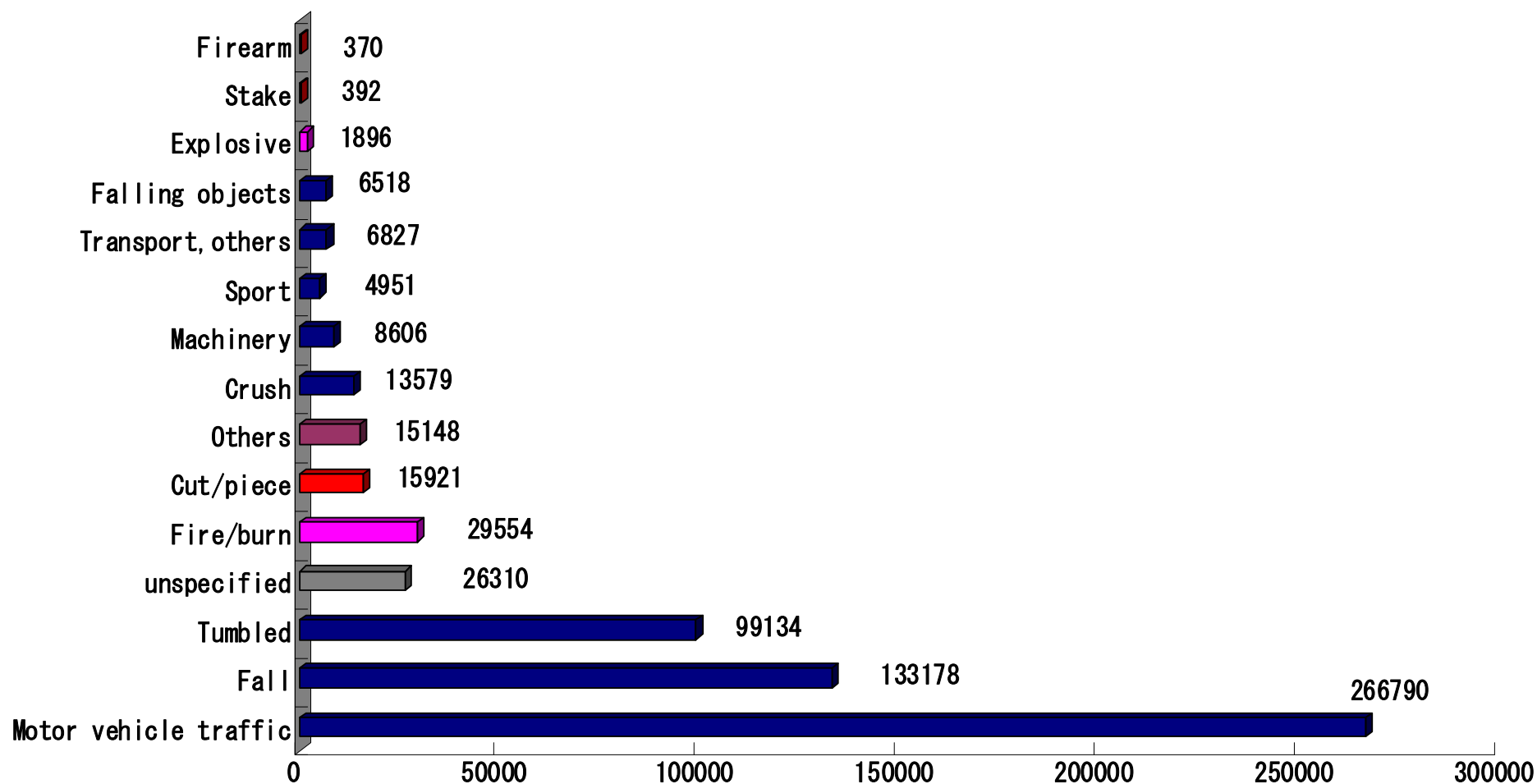
**Table 11B Proportional distribution of length from onset to fatality, grouped by mechanism of injury Total number = 4,125**

**Total number = 1,518**



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

**This figure includes trauma-induced CPAOA cases.**



**Figure 12 Total hospital length of stay by Mechanism of Injury**

**Proportional distribution of total hospital length of stay, grouped by mechanism.**

**Total number of patients are 27,779. Total hospital length of stay of all patients are 629,124 days.**

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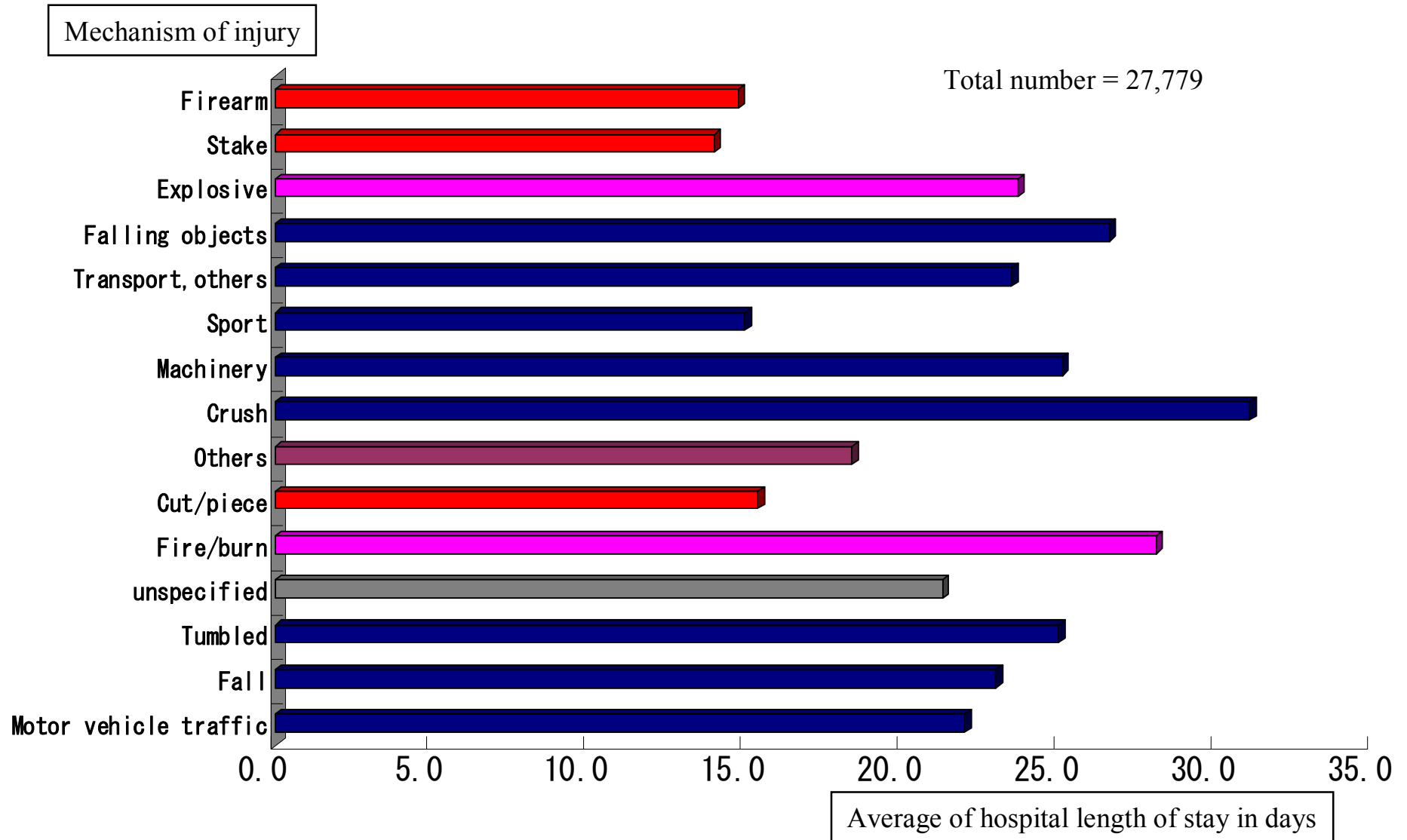
<b>Mechanism of Injury</b>	<b>Number of patients</b>	<b>% of total patients</b>	<b>Total hospital LOS in days</b>	<b>Average of hospital LOS in days</b>
<b>Motor vehicle traffic</b>	<b>12120</b>	<b>43.6%</b>	<b>266790</b>	<b>22.0</b>
<b>Fall</b>	<b>5781</b>	<b>20.8%</b>	<b>133178</b>	<b>23.0</b>
<b>Tumbled</b>	<b>3960</b>	<b>14.3%</b>	<b>99134</b>	<b>25.0</b>
<b>unspecified</b>	<b>1234</b>	<b>4.4%</b>	<b>26310</b>	<b>21.3</b>
<b>Fire/burn</b>	<b>1053</b>	<b>3.8%</b>	<b>29554</b>	<b>28.1</b>
<b>Cut/piece</b>	<b>1032</b>	<b>3.7%</b>	<b>15921</b>	<b>15.4</b>
<b>Others</b>	<b>822</b>	<b>3.0%</b>	<b>15148</b>	<b>18.4</b>
<b>Crush</b>	<b>436</b>	<b>1.6%</b>	<b>13579</b>	<b>31.1</b>
<b>Machinery</b>	<b>343</b>	<b>1.2%</b>	<b>8606</b>	<b>25.1</b>
<b>Sport</b>	<b>330</b>	<b>1.2%</b>	<b>4951</b>	<b>15.0</b>
<b>Transport,others</b>	<b>290</b>	<b>1.0%</b>	<b>6827</b>	<b>23.5</b>
<b>Falling objects</b>	<b>245</b>	<b>0.9%</b>	<b>6518</b>	<b>26.6</b>
<b>Explosive</b>	<b>80</b>	<b>0.3%</b>	<b>1896</b>	<b>23.7</b>
<b>Stake</b>	<b>28</b>	<b>0.1%</b>	<b>392</b>	<b>14.0</b>
<b>Firearm</b>	<b>25</b>	<b>0.1%</b>	<b>370</b>	<b>14.8</b>
<b>Total</b>	<b>27779</b>		<b>629174</b>	

LOS; length of stay

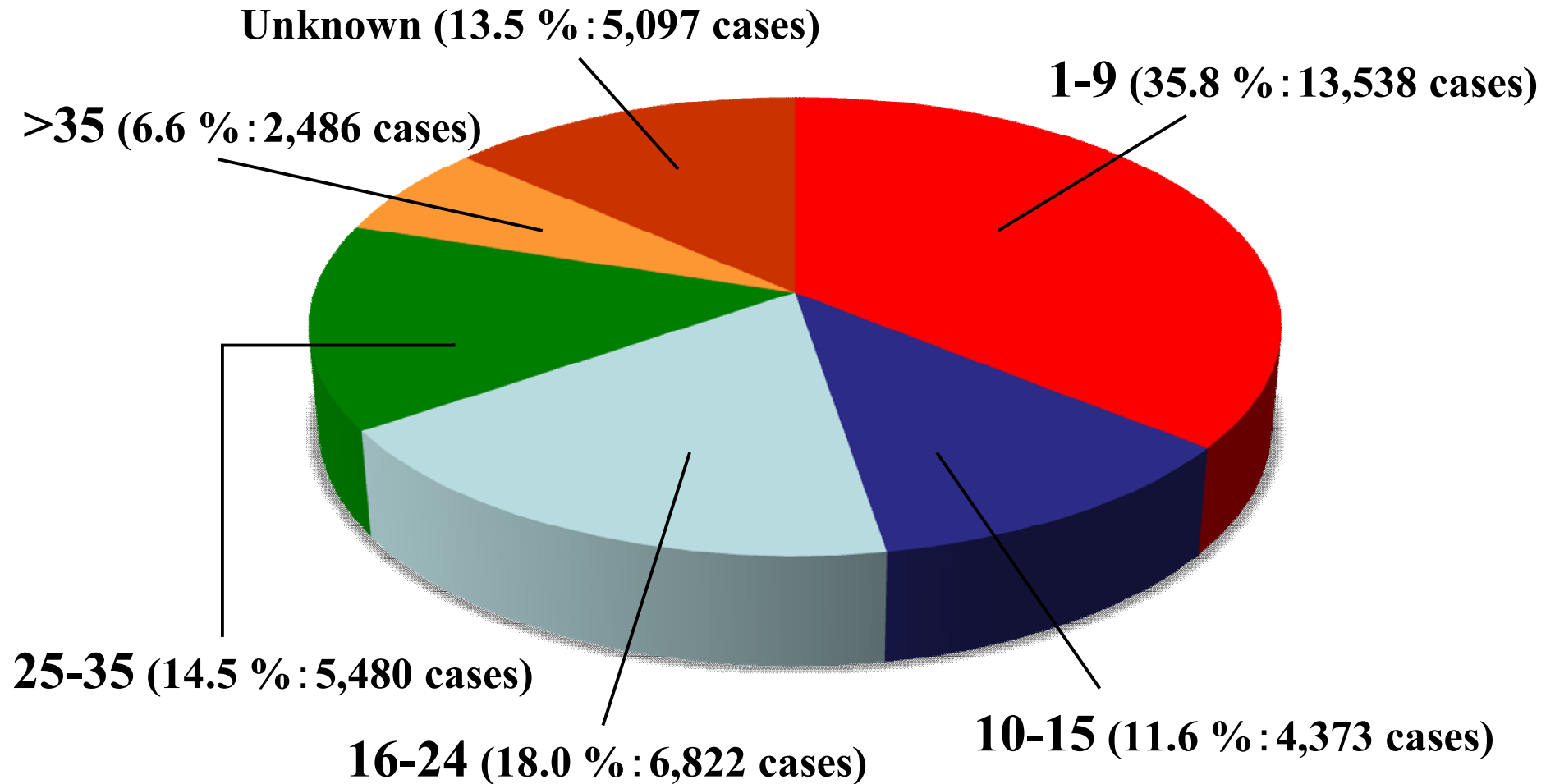
Others; Other specified and classifiable

**Table12 Total and average hospital length of stay by mechanism of injury**

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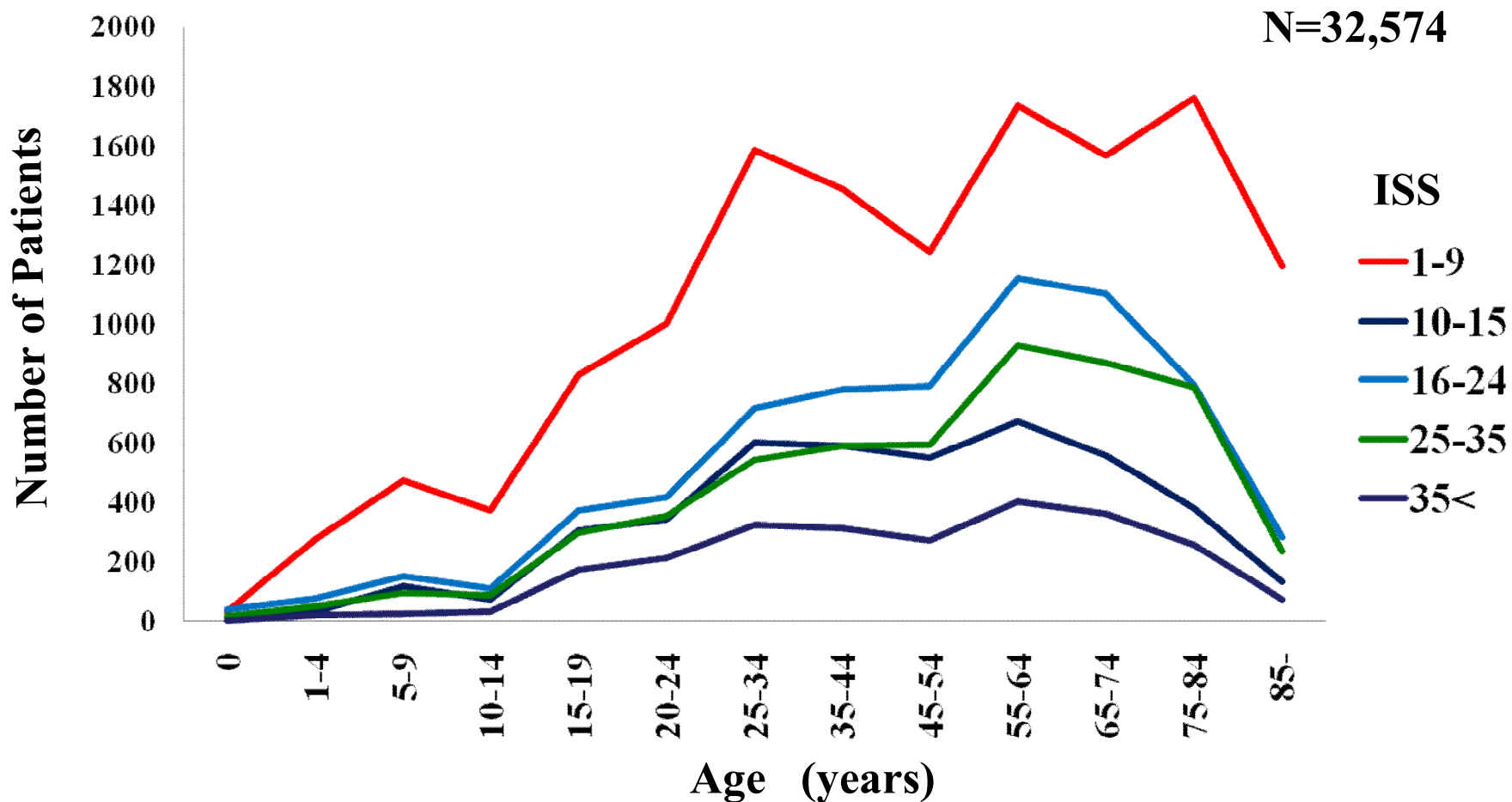


**Figure 13 Average hospital length of stay by mechanism of injury**



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

Proportional distribution of patients grouped by categories of the ISS range. Total N=37,796. The number of patients of ISS 1-9 category was the most of all categories.



**Figure 15 Patients by ISS and Age**

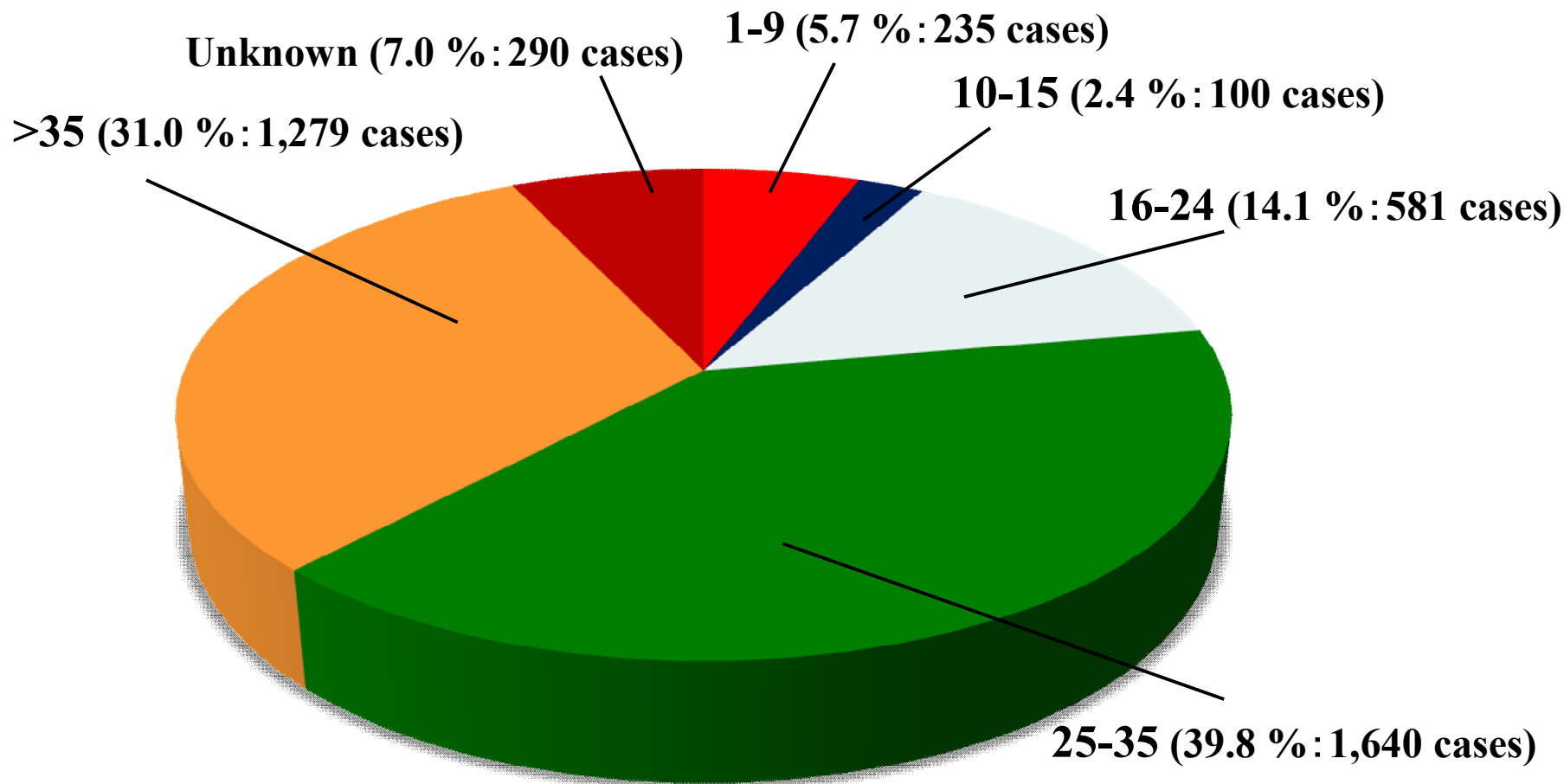
Number of injured patients grouped by ISS range, at each age from 0 to 105. The peaks of the number of patients based on age distribution were seen at 25-34 and 55-64 ages of any ISS categories, and at 75-84 ages of ISS 1-9 . Total N=32,574.

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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
1-9	34	278	472	372	829	1000	1586	1452	1242	1732	1566	1761	1194	20	13538
10-15	5	34	116	72	306	343	602	589	551	671	557	381	131	15	4373
16-24	38	78	149	110	373	418	715	778	792	1153	1103	794	284	37	6822
25-35	19	52	94	87	300	354	543	592	594	926	867	785	236	31	5480
35<	1	21	23	31	173	213	324	313	272	401	363	256	73	22	2486
Unknown	24	76	122	98	254	331	593	588	495	761	776	629	288	62	5097
<b>Total</b>	<b>121</b>	<b>539</b>	<b>976</b>	<b>770</b>	<b>2235</b>	<b>2659</b>	<b>4363</b>	<b>4312</b>	<b>3946</b>	<b>5644</b>	<b>5232</b>	<b>4606</b>	<b>2206</b>	<b>187</b>	<b>37796</b>

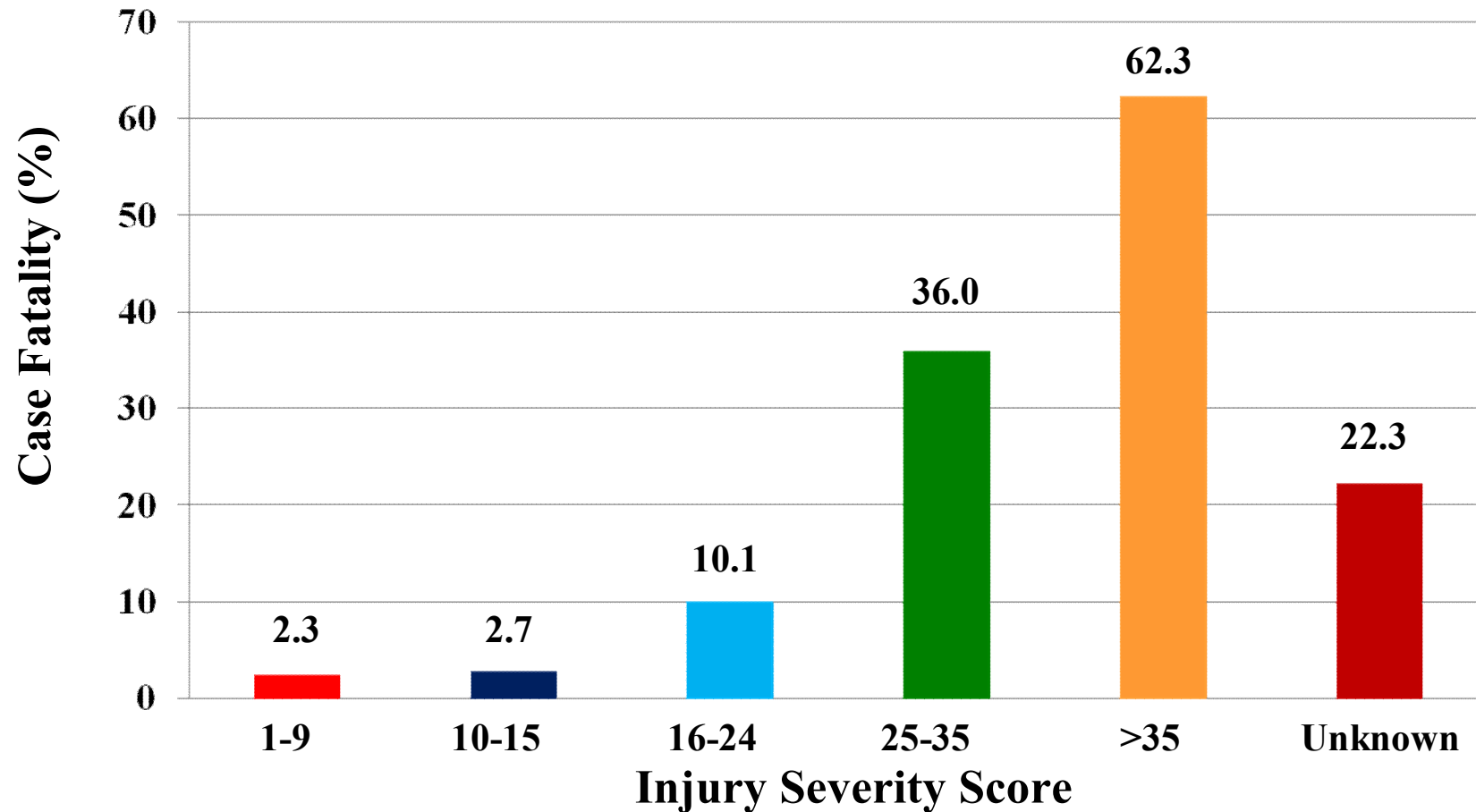
**Table 15 Patients by ISS and Age**





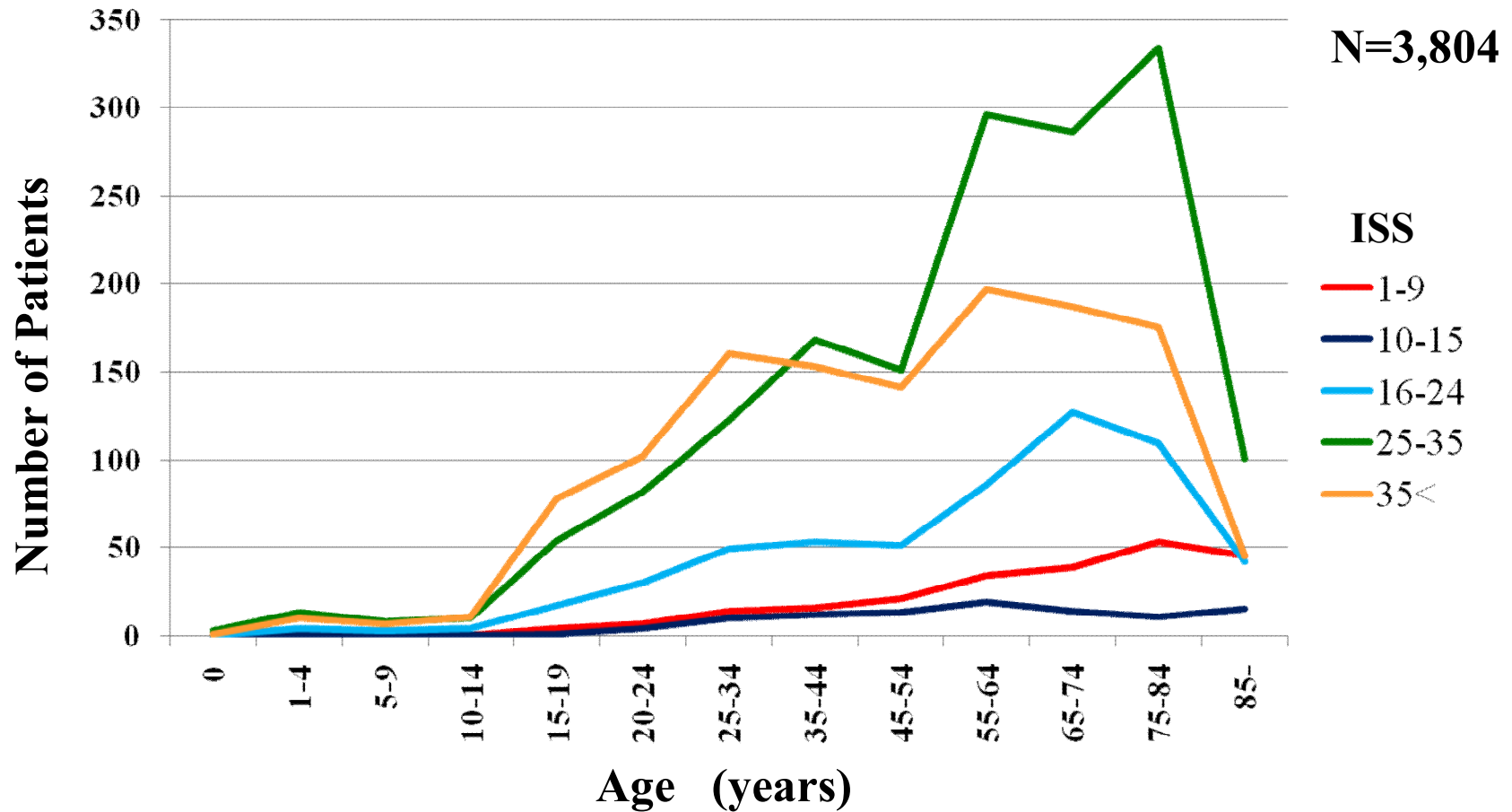
**Figure 16A Deaths and Injury Severity Score (ISS)**

**Proportional distribution of deaths grouped by categories of ISS range. Total N=4,125. Deaths in ISS 25-35 category were the highest (1,640 cases: 39.8% 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  $\times$  100 by ISS range). Case fatality was higher in severe trauma category.



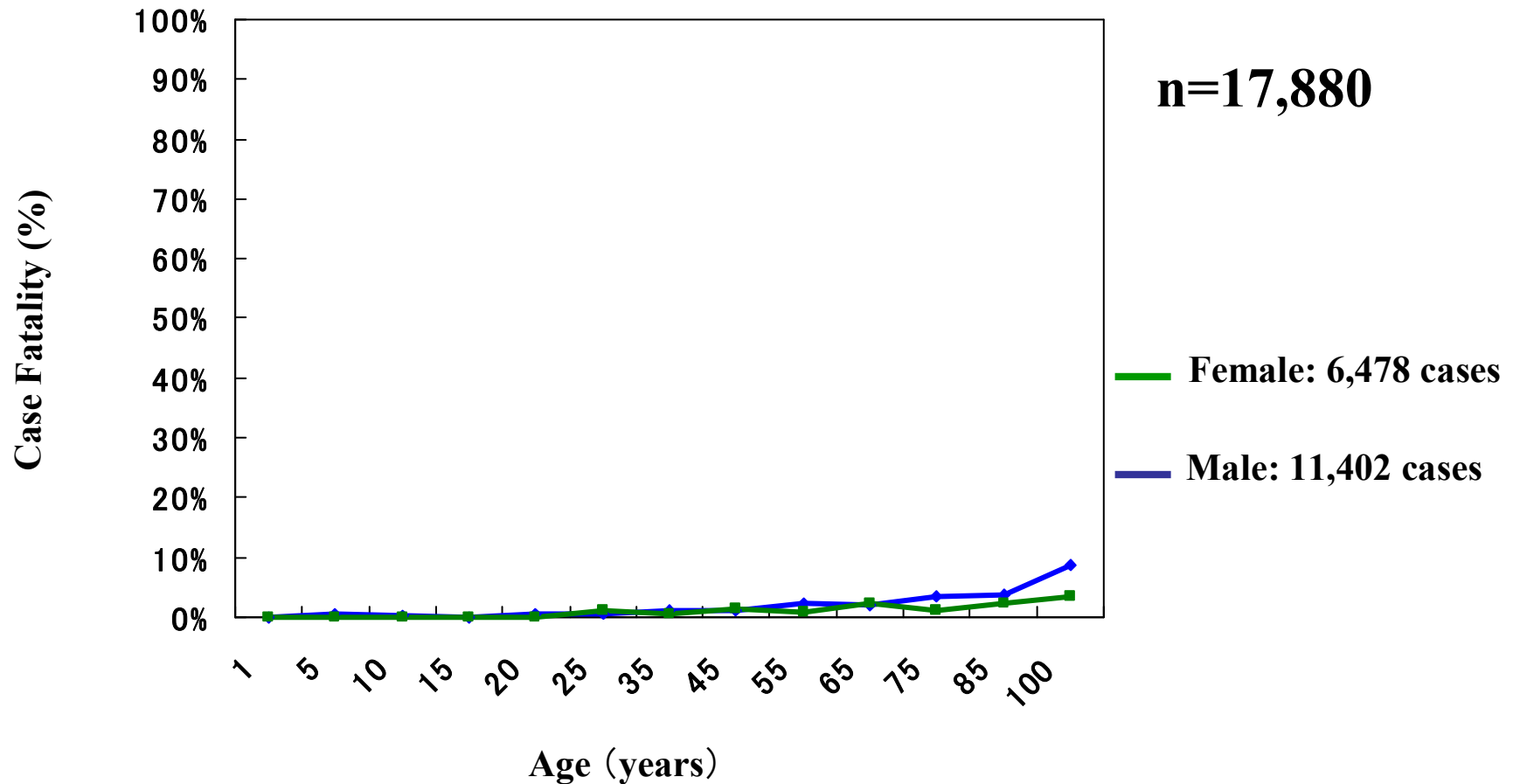
**Figure 17 Deaths by ISS and Age**

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.

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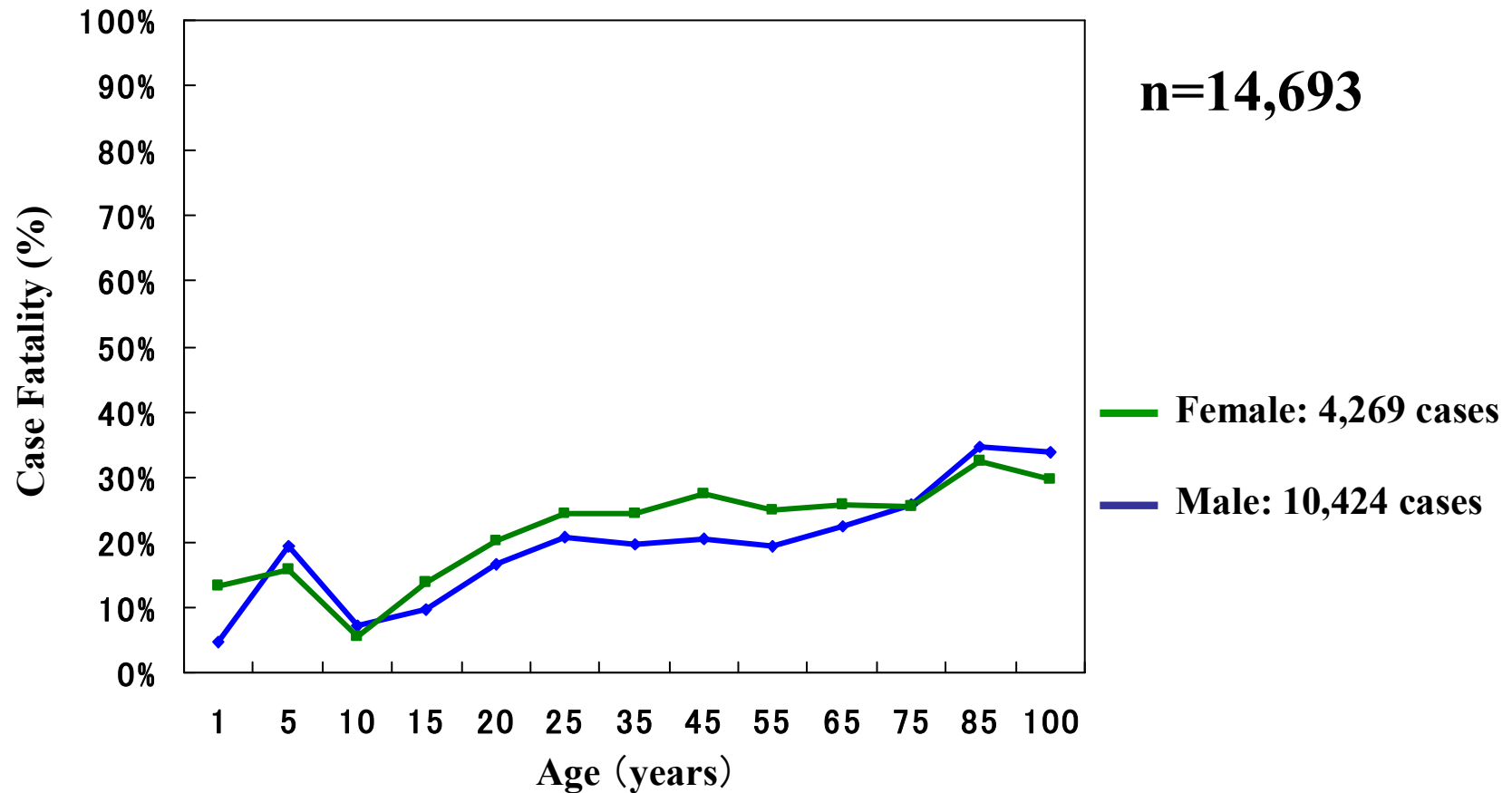
Age ISS	0	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85-	Unknown	Total
1-9	0	1	1	0	4	7	14	16	21	34	39	53	45	0	235
10-15	0	0	0	0	1	4	10	12	13	19	14	11	15	1	100
16-24	0	4	3	4	17	30	49	53	51	86	127	109	42	6	581
25-35	3	13	8	10	54	82	122	168	151	296	286	334	101	12	1640
35<	1	10	7	11	78	102	160	153	141	197	187	175	45	12	1279
Unknown	1	0	2	3	10	16	34	41	28	41	52	40	16	6	290
<b>Total</b>	<b>5</b>	<b>28</b>	<b>21</b>	<b>28</b>	<b>164</b>	<b>241</b>	<b>389</b>	<b>443</b>	<b>405</b>	<b>673</b>	<b>705</b>	<b>722</b>	<b>264</b>	<b>37</b>	<b>4125</b>

**Table 17 Deaths by ISS and Age**



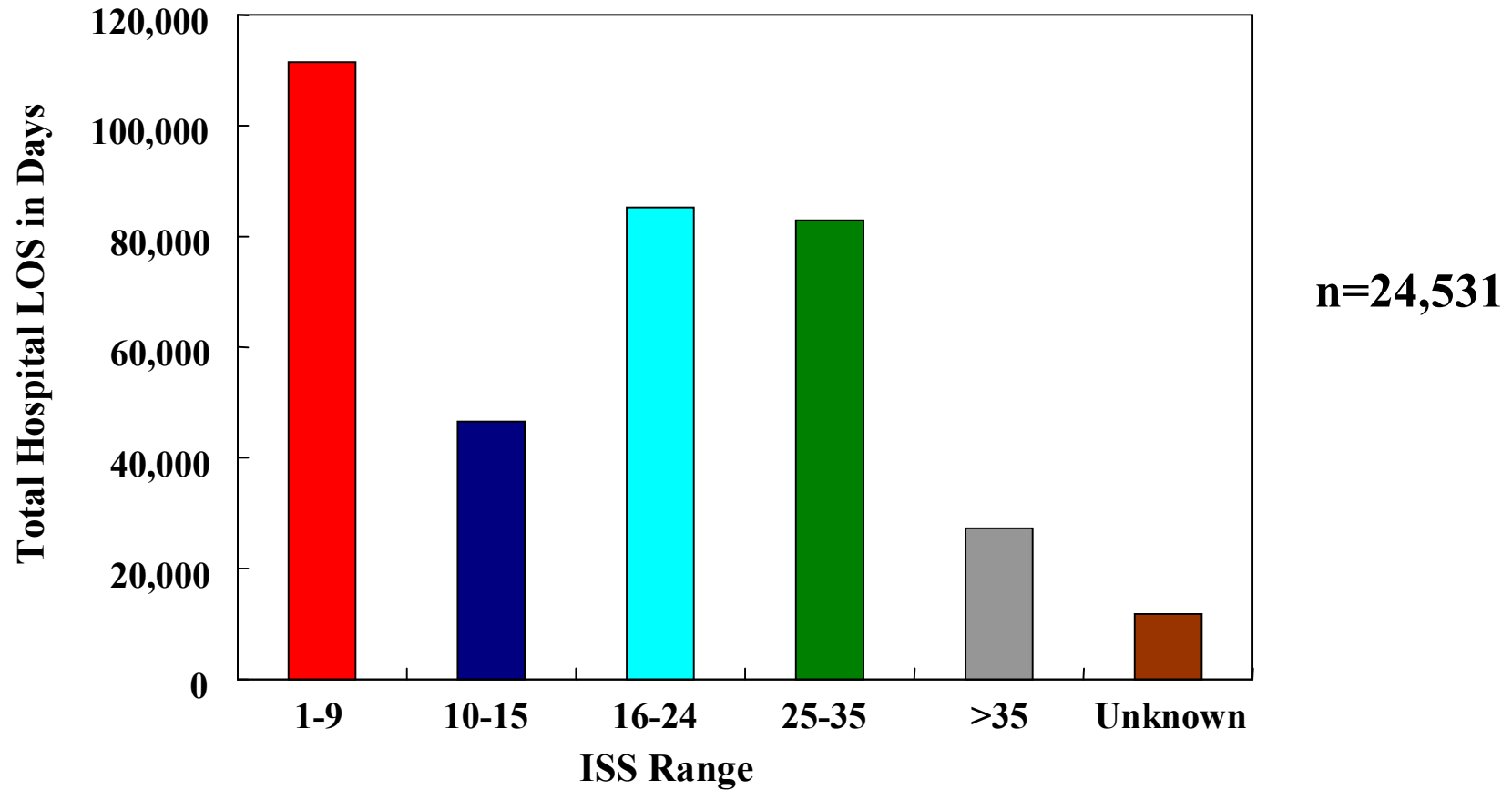
**Figure18 Case Fatality by Age and Gender (ISS<=15)**

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  $\times$  100 by age and gender). Total N = 17,880.

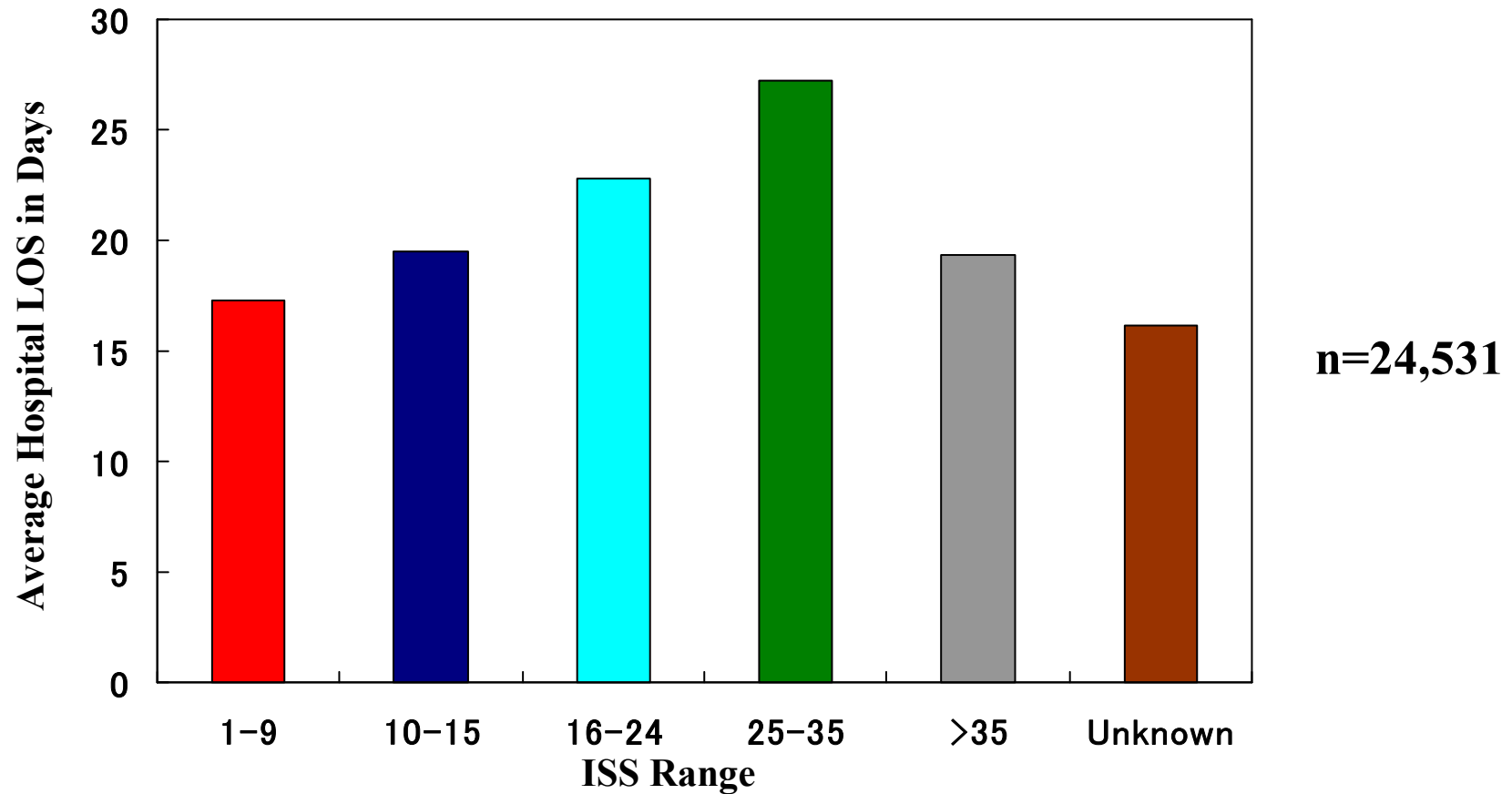


**Figure 19 Case Fatality by Age and Gender (ISS>15)**

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  $\times$  100 by age and gender). Total N = 14,693.

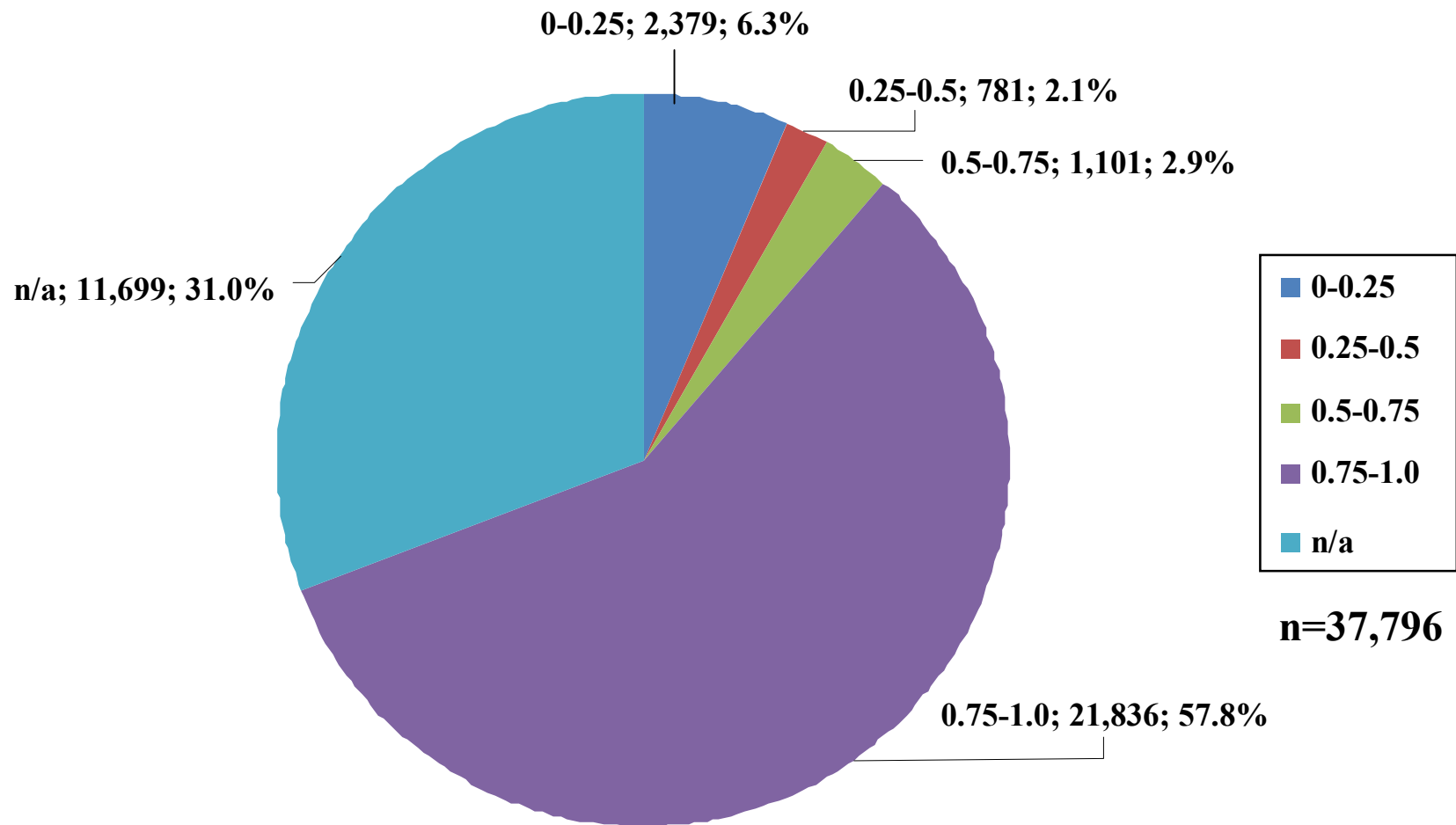


**Figure 20A Total Hospital LOS and Injury Severity Score (ISS)**  
Proportional distribution of total hospital length of stay for patients, grouped by ISS range.  
Total N = 24,531.



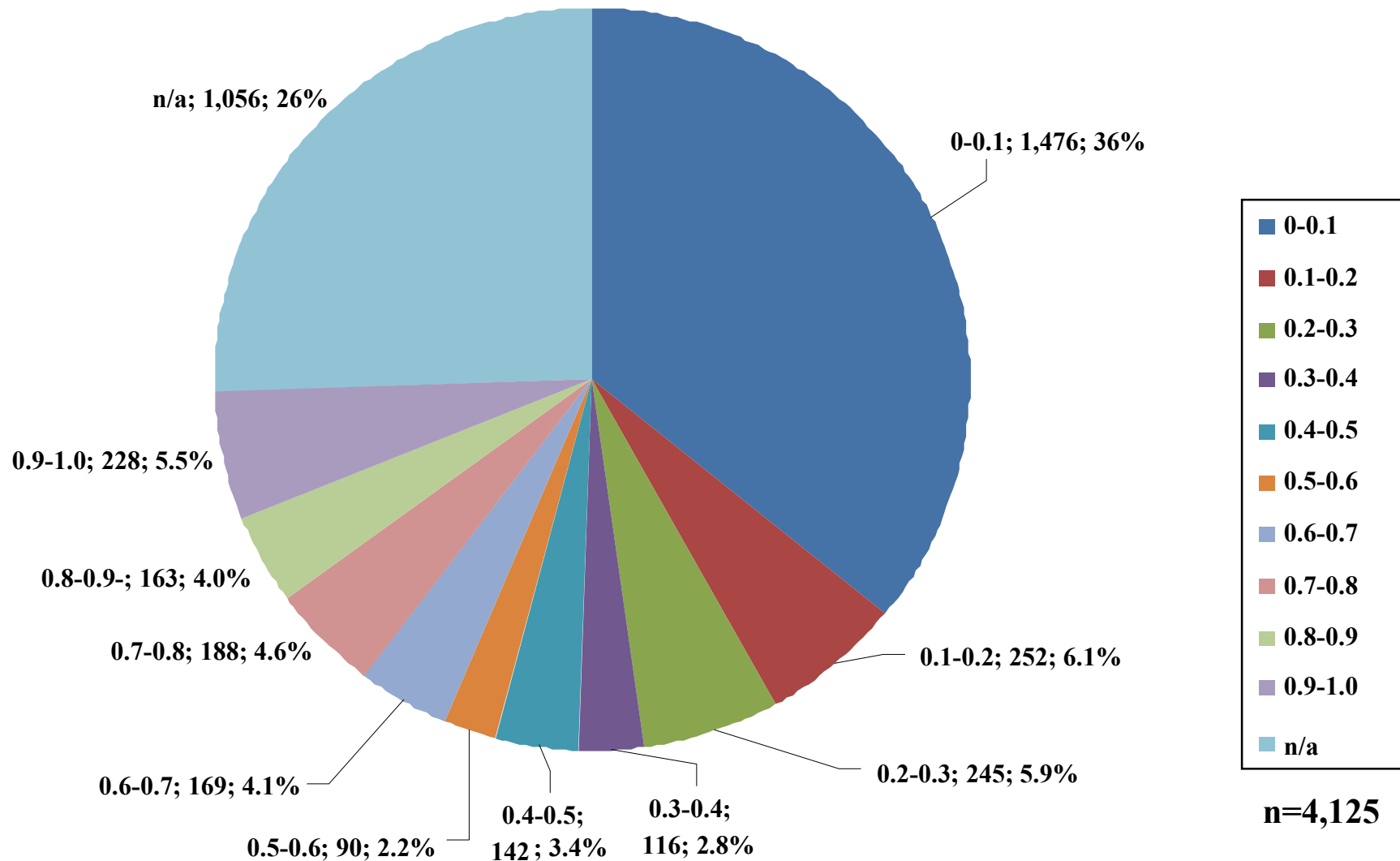
**Figure 20B Average Hospital LOS and Injury Severity Score**  
Average hospital length of stay for each category of ISS range. (Average hospital length of stay = total hospital length of stay for each ISS range divided by the total number of patients).  
Total N = 24,531.





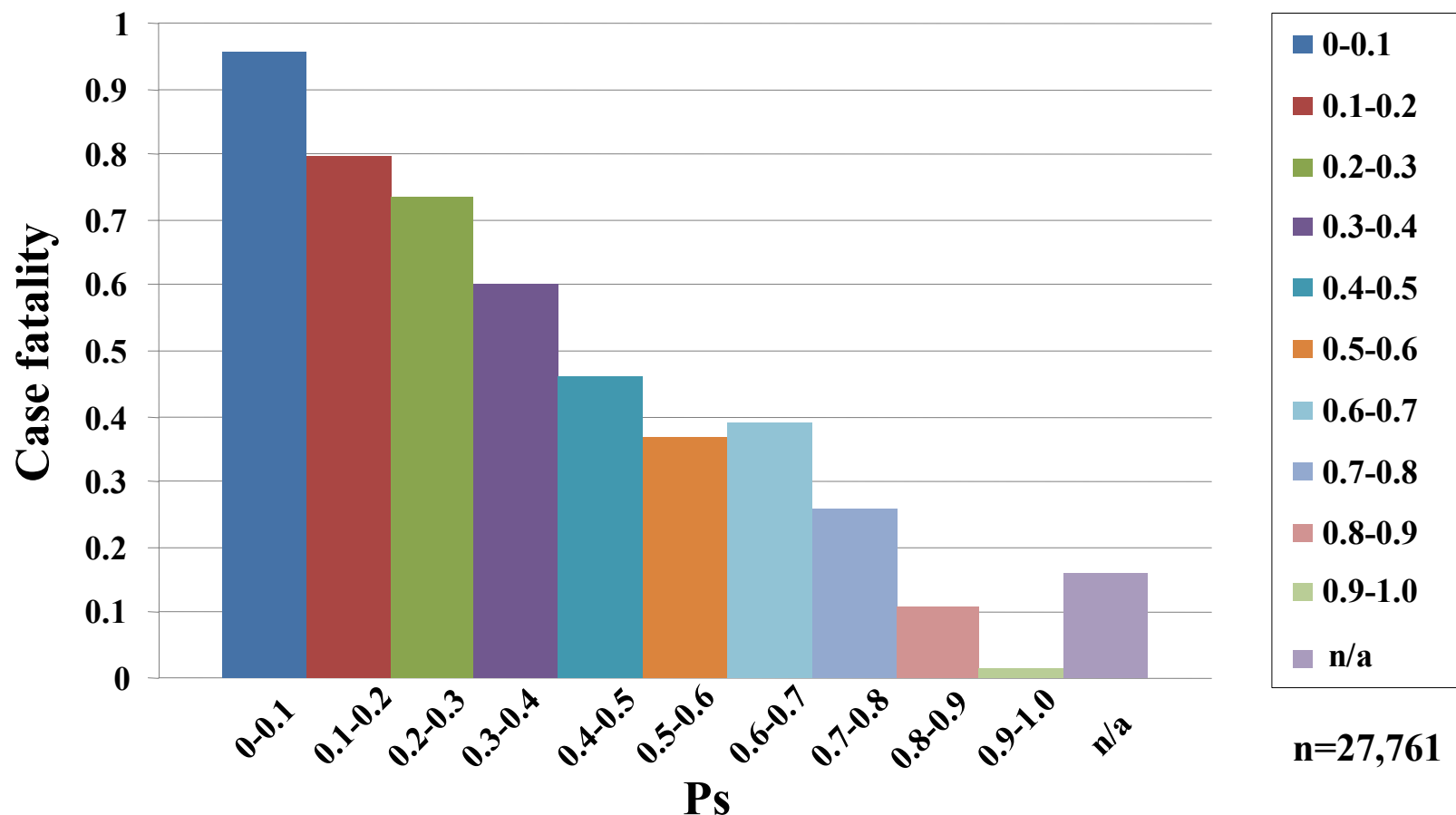
**Figure 21 Patients by Probability of Survival (Ps)**

Proportional distribution of patients, grouped by each category of Ps. The Ps category(0.75-1.0) accounted for 57.8% of all cases. Thirty-one percent of cases were missing at least one variable required to calculate Ps. n/a: not assessed due to missing values



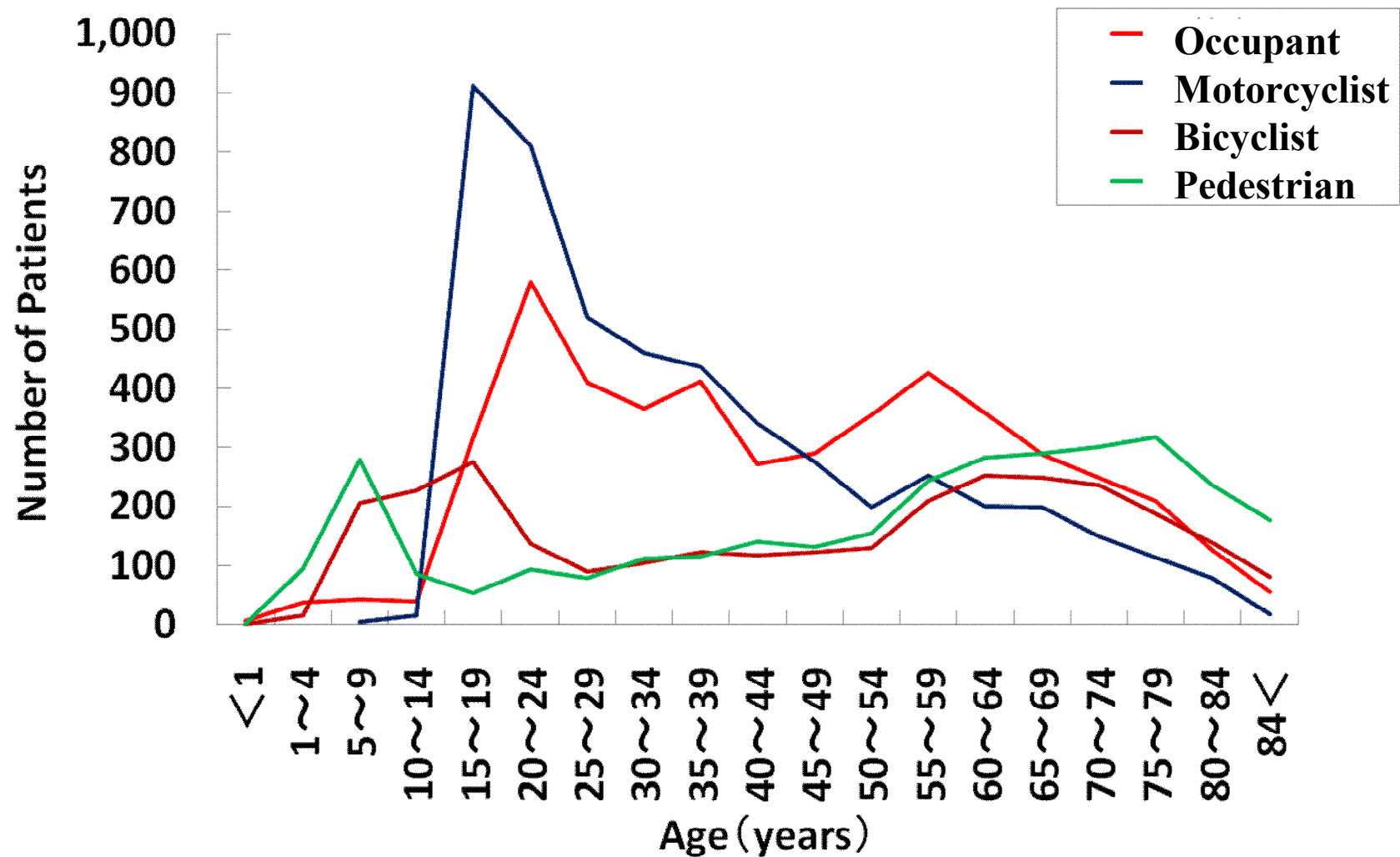
**Figure 22A Deaths by Probability of survival (Ps)**

Proportional distribution of deaths, grouped by each category of Ps. The lowest Ps category (0-0.1) accounted for 36% of all death cases. n/a: not assessed due to missing values

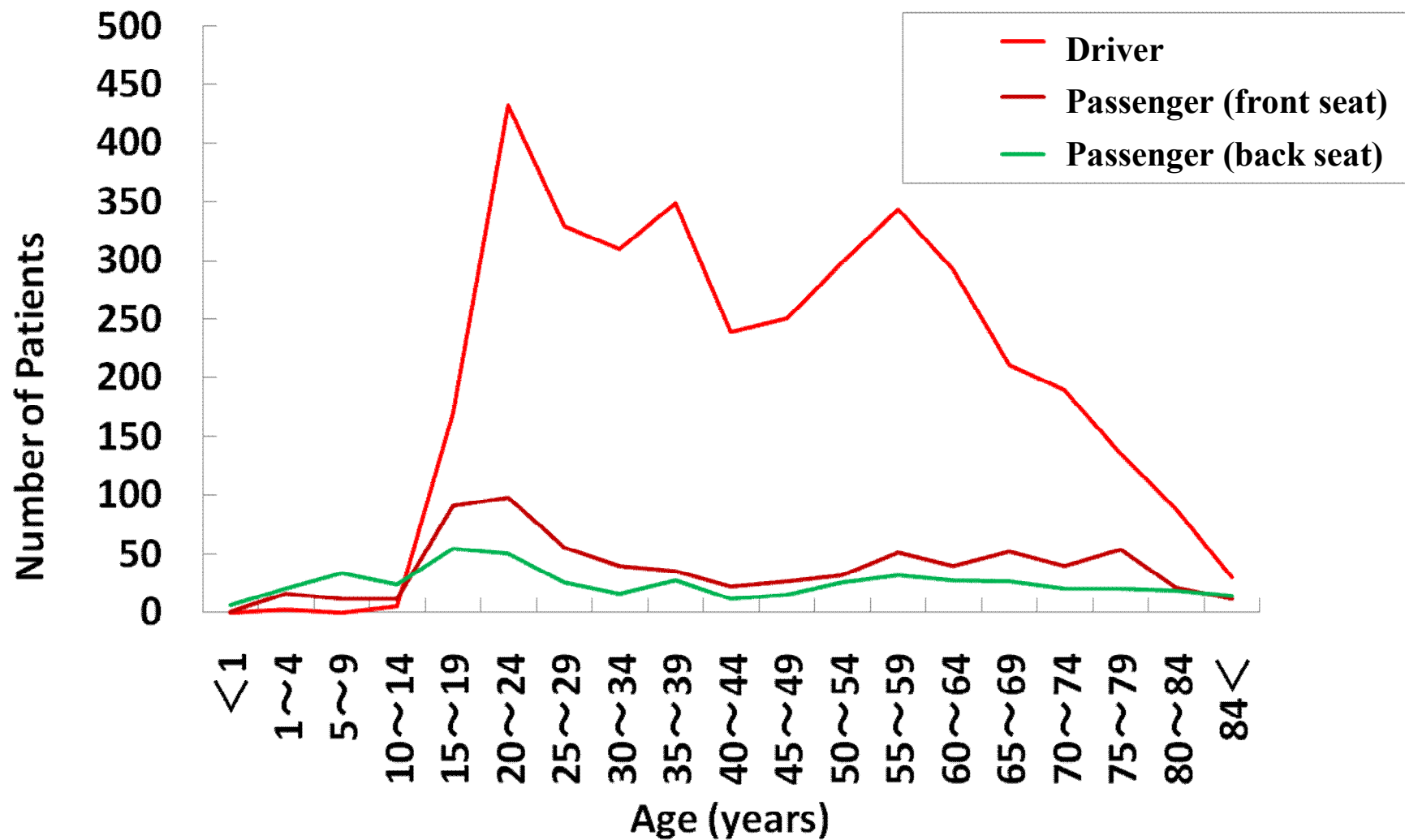


**Figure 22B Case Fatality by Probability of Survival (Ps)**

Case fatality for each Ps category (Case fatality = the number of deaths divided by the number of patients x 100 for each Ps category). The lowest Ps category (0-0.1) and the highest Ps category (0.9-1.0) had the highest fatality 98.5% and the lowest fatality 4.3%, respectively. The trend that the fatality would decrease as Ps increased was observed. n/a: not assessed due to missing values.



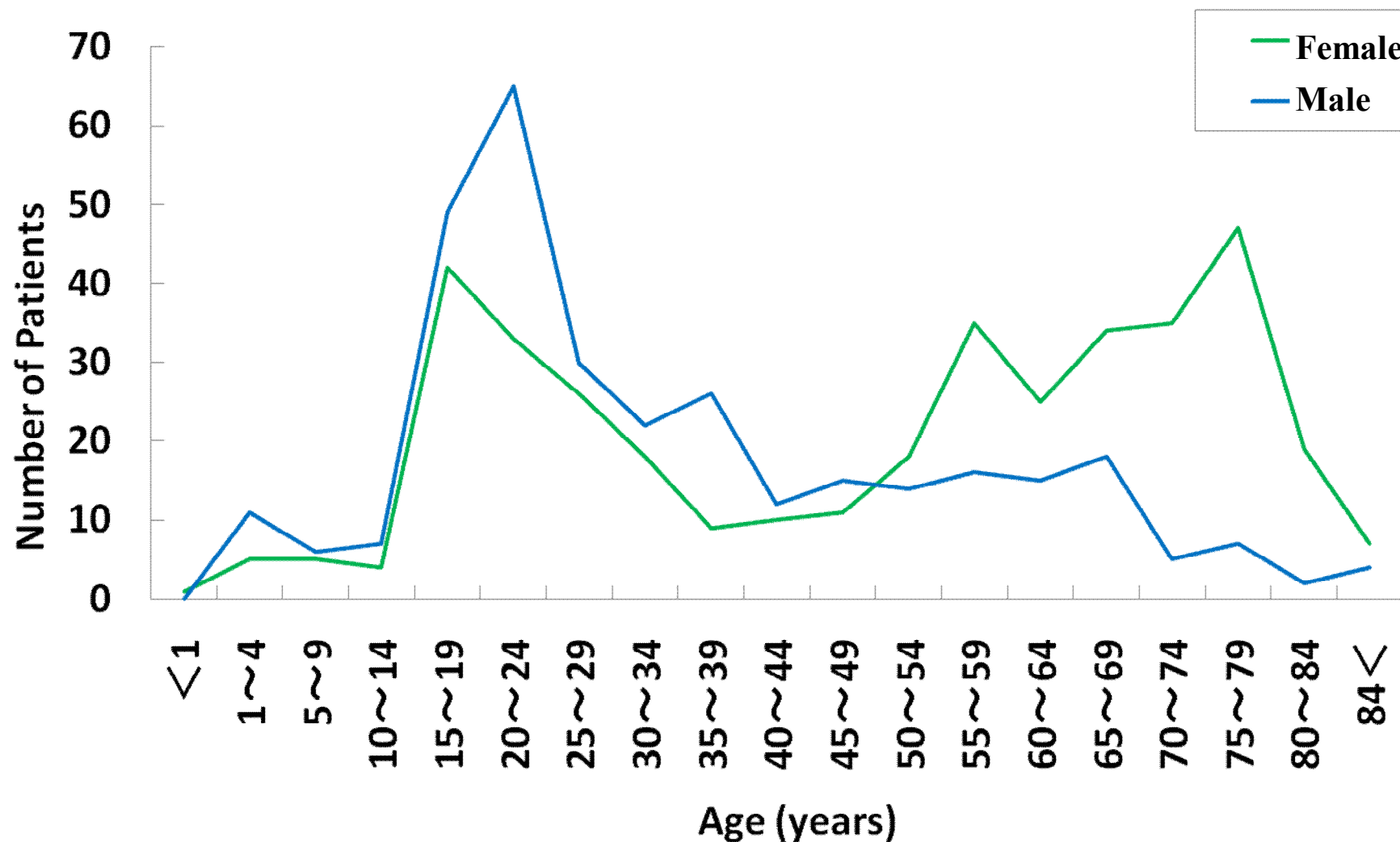
**Figure 23 Motor Vehicle Traffic Related Injuries**



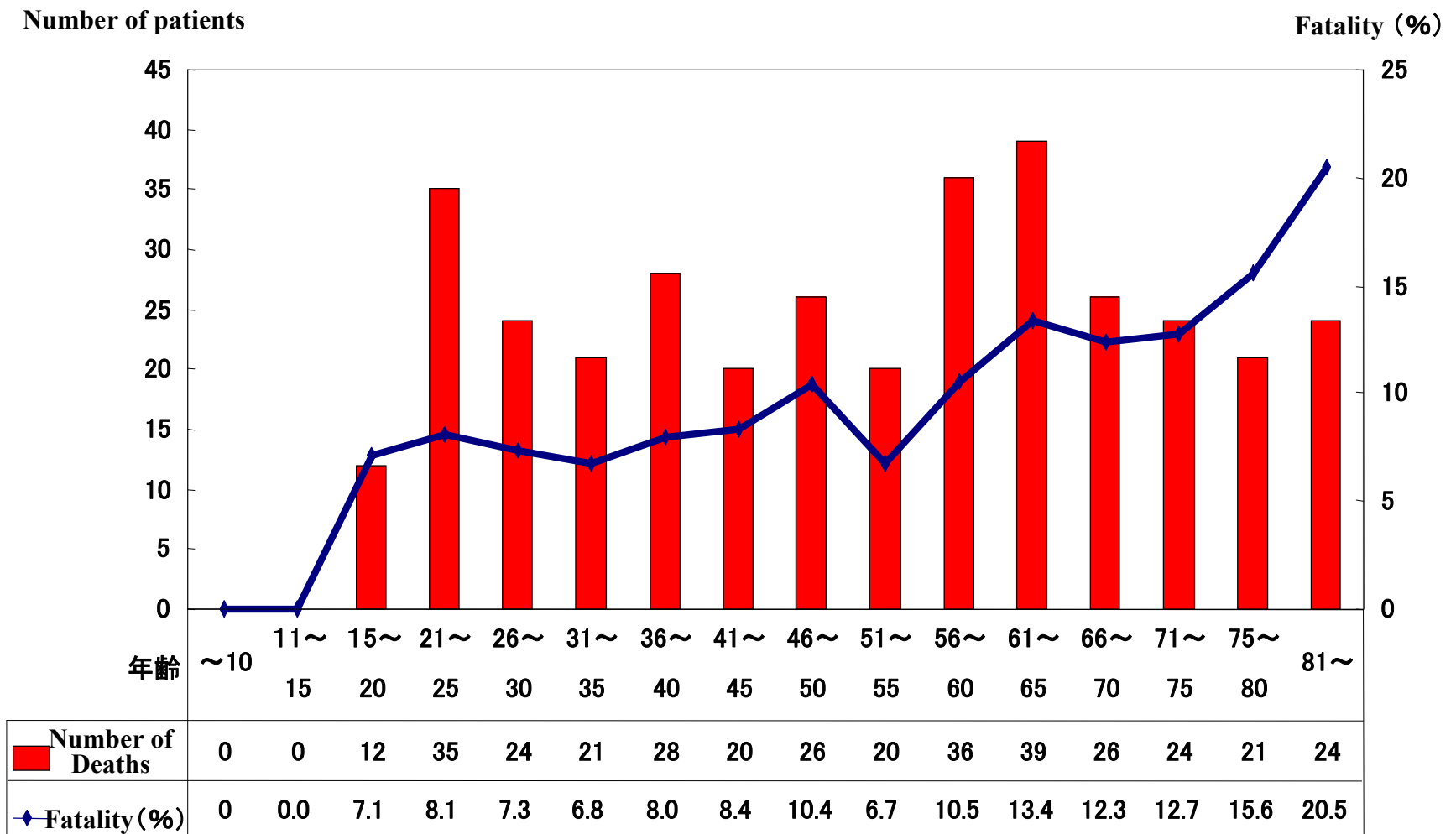
**Figure 24 Motor Vehicle Related Injuries – Driver and Passenger by Age**



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



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



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



Number of patients

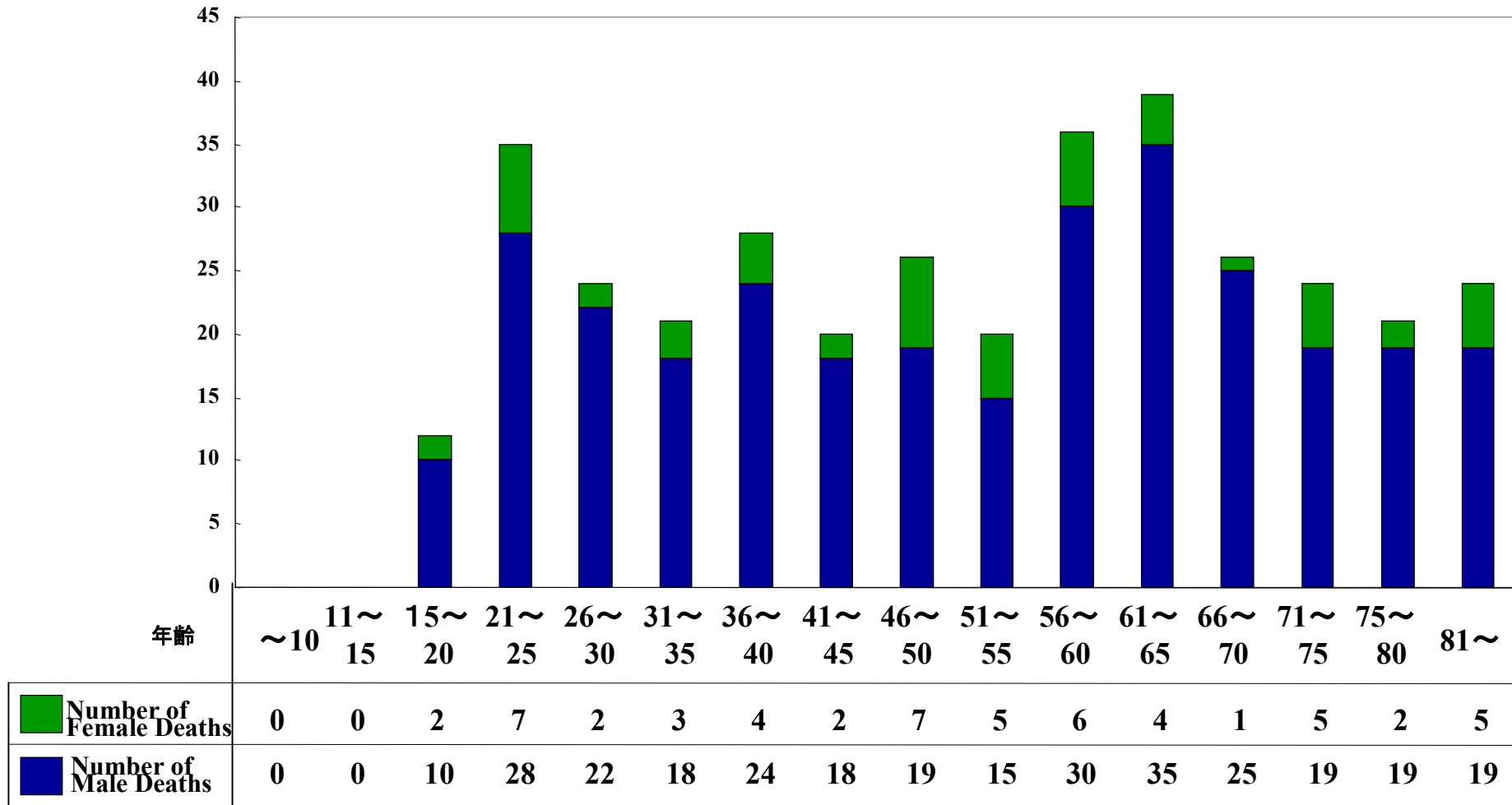
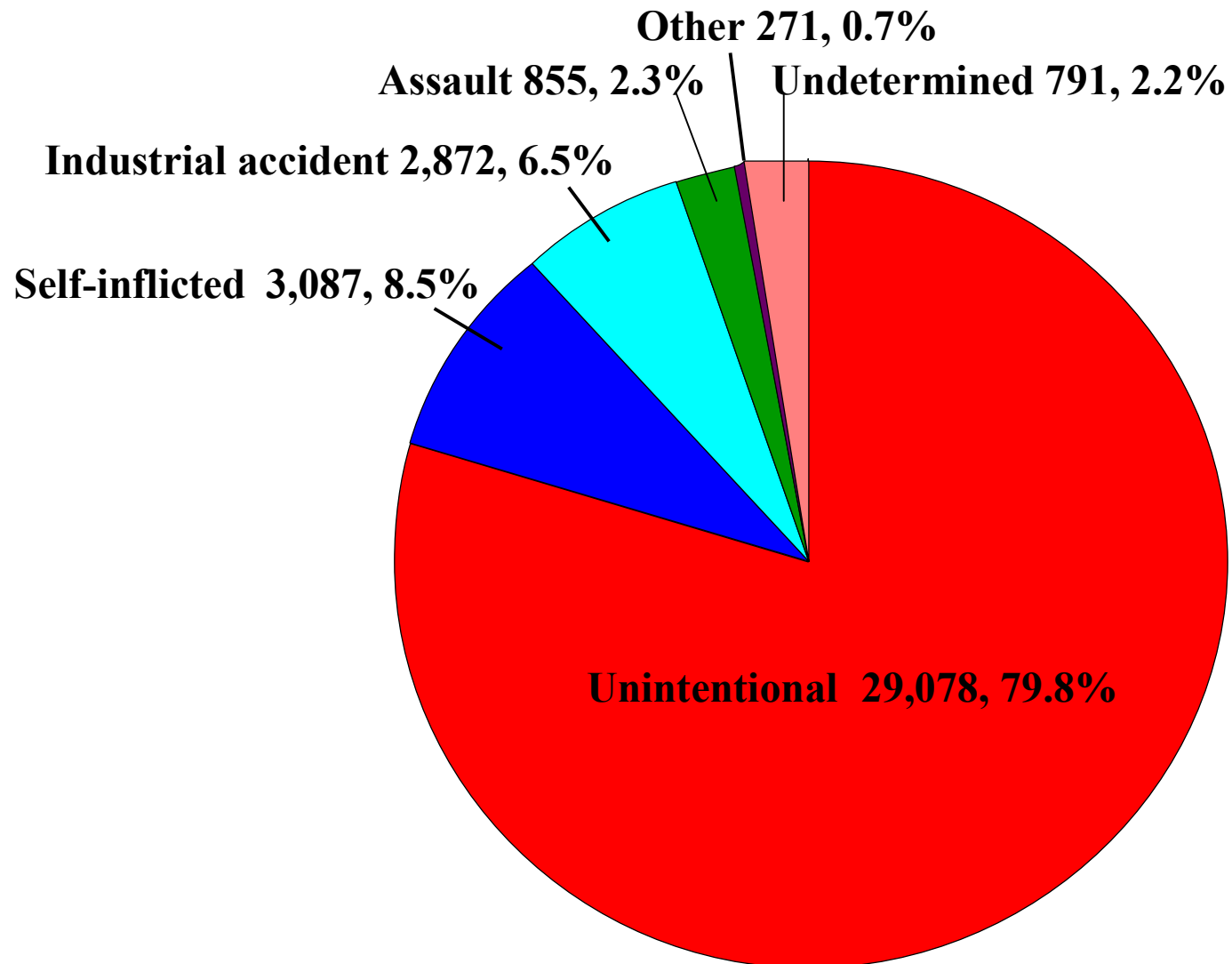
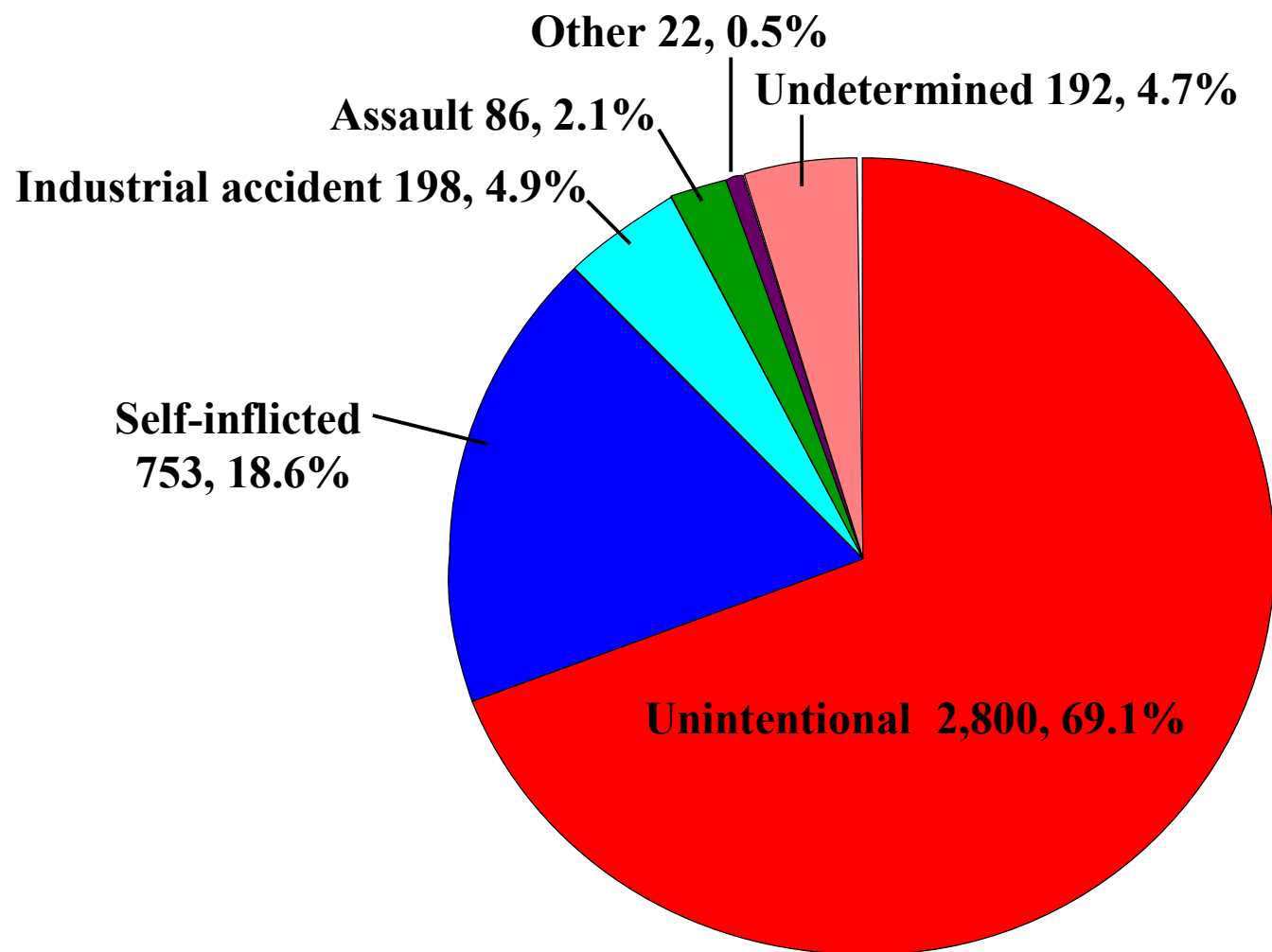


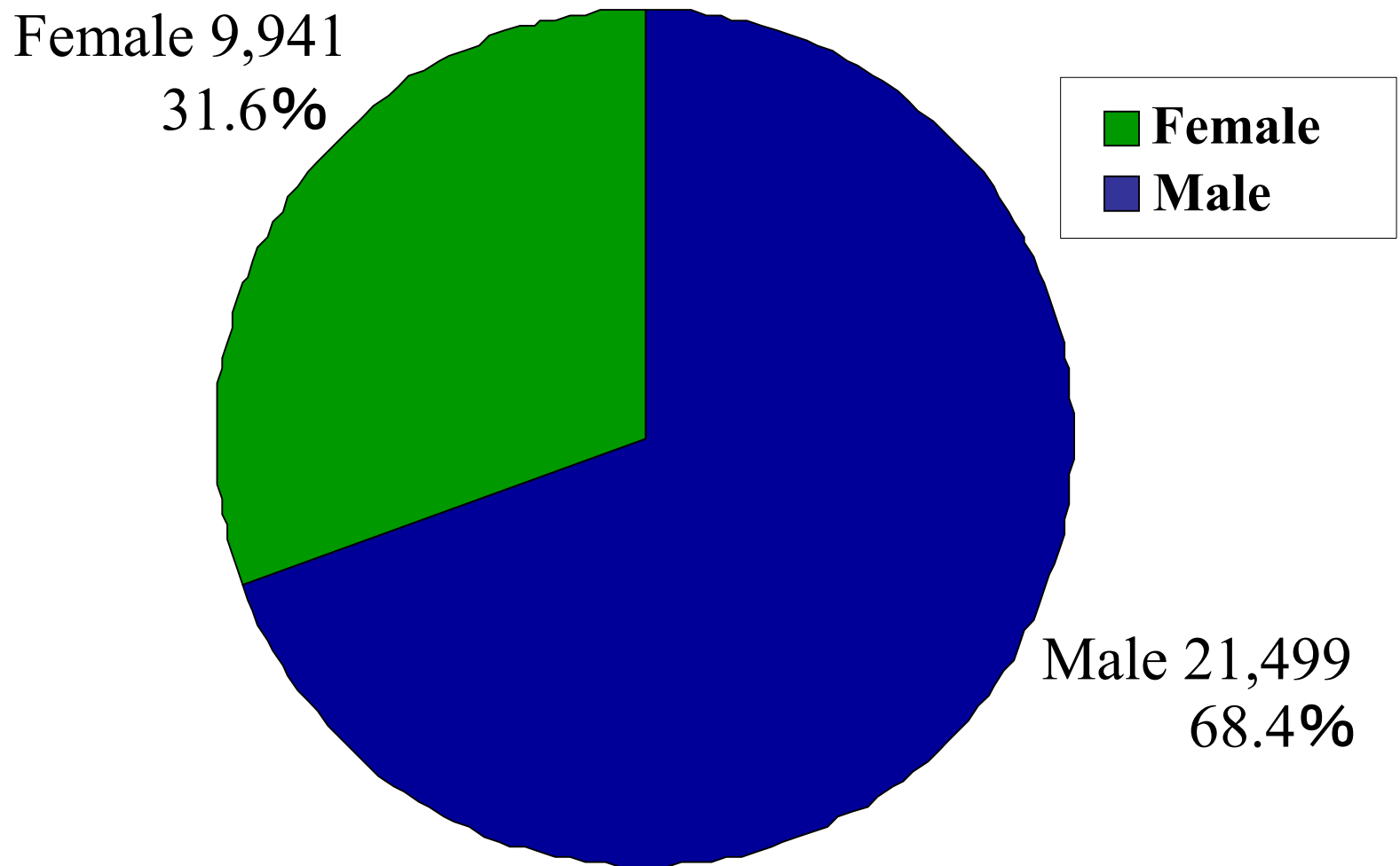
Figure 28 Deaths of Motor Vehicular Drivers by Age and Genders



**Figure 29 Proportional Distribution of Registered Patients, Grouped by Intent**

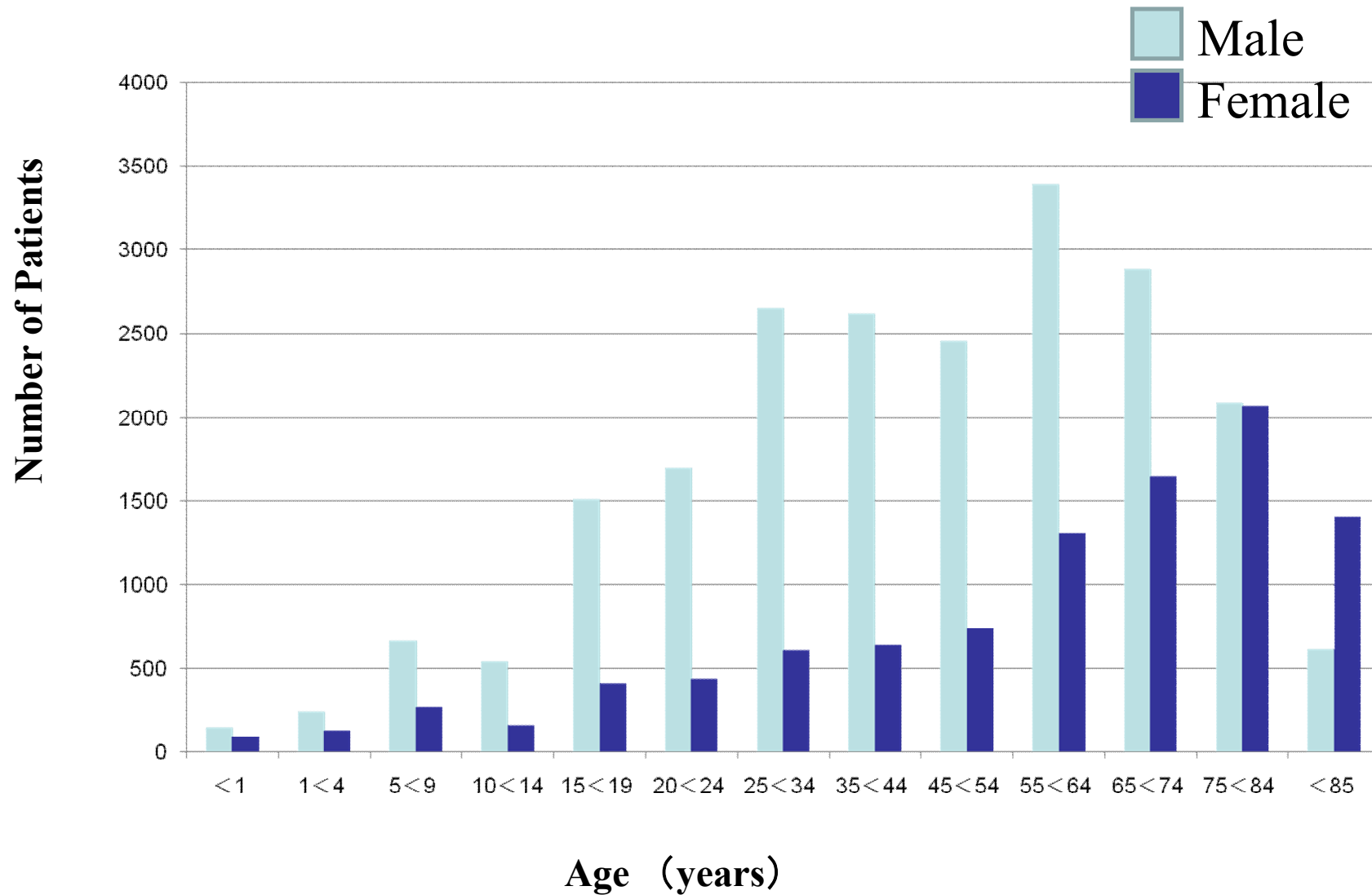


**Figure 30 Proportional Distribution of Deaths, Grouped by Intent**



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

**Figure 31 Unintentional Injury and Gender**

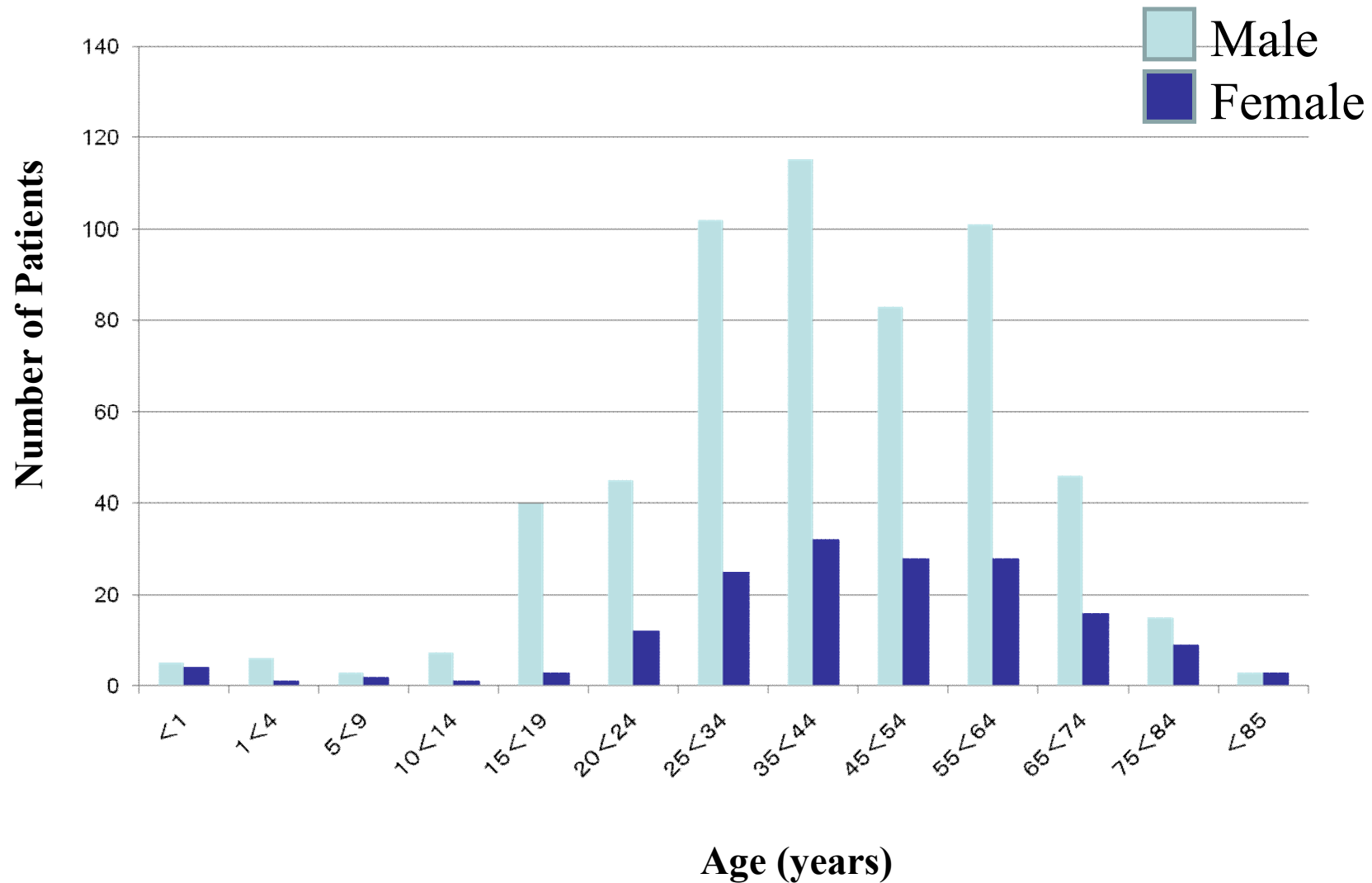


**Figure 32 Unintentional Injury by Age and Gender**

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	<b>Male</b>	<b>Female</b>	<b>Total</b>
<b>&lt;1</b>	<b>145</b>	<b>90</b>	<b>235</b>
<b>1&lt;4</b>	<b>235</b>	<b>129</b>	<b>364</b>
<b>5&lt;9</b>	<b>663</b>	<b>274</b>	<b>937</b>
<b>10&lt;14</b>	<b>534</b>	<b>161</b>	<b>695</b>
<b>15&lt;19</b>	<b>1503</b>	<b>411</b>	<b>1914</b>
<b>20&lt;24</b>	<b>1694</b>	<b>440</b>	<b>2134</b>
<b>25&lt;34</b>	<b>2646</b>	<b>608</b>	<b>3254</b>
<b>35&lt;44</b>	<b>2616</b>	<b>638</b>	<b>3254</b>
<b>45&lt;54</b>	<b>2454</b>	<b>737</b>	<b>3191</b>
<b>55&lt;64</b>	<b>3393</b>	<b>1310</b>	<b>4703</b>
<b>65&lt;74</b>	<b>2885</b>	<b>1643</b>	<b>4528</b>
<b>75&lt;84</b>	<b>2082</b>	<b>2072</b>	<b>4154</b>
<b>&lt;85</b>	<b>611</b>	<b>1408</b>	<b>2019</b>
<b>Total</b>	<b>21461</b>	<b>9921</b>	<b>31382</b>

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

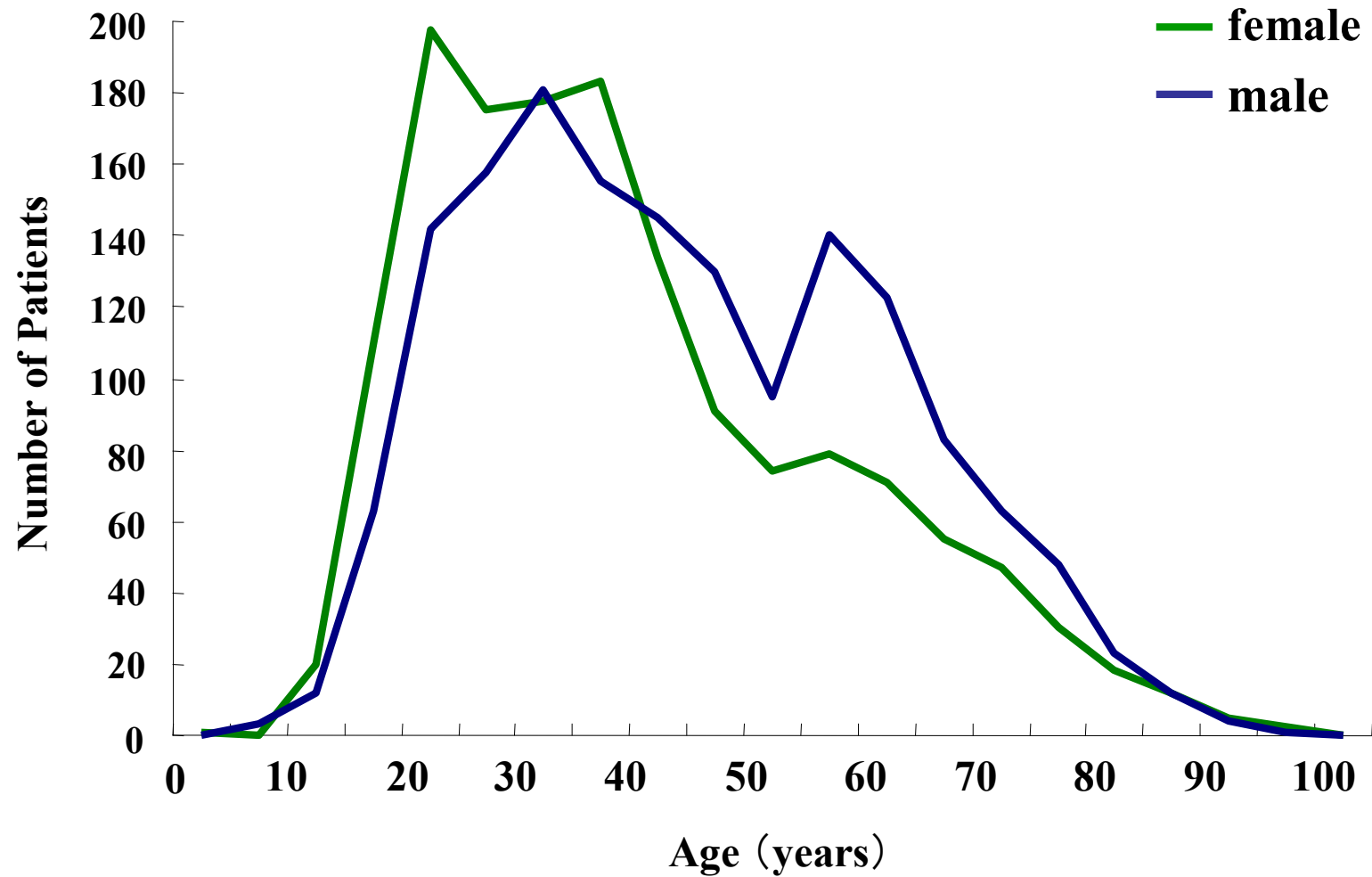


**Figure 33 Intentional Injury by Age and Gender**

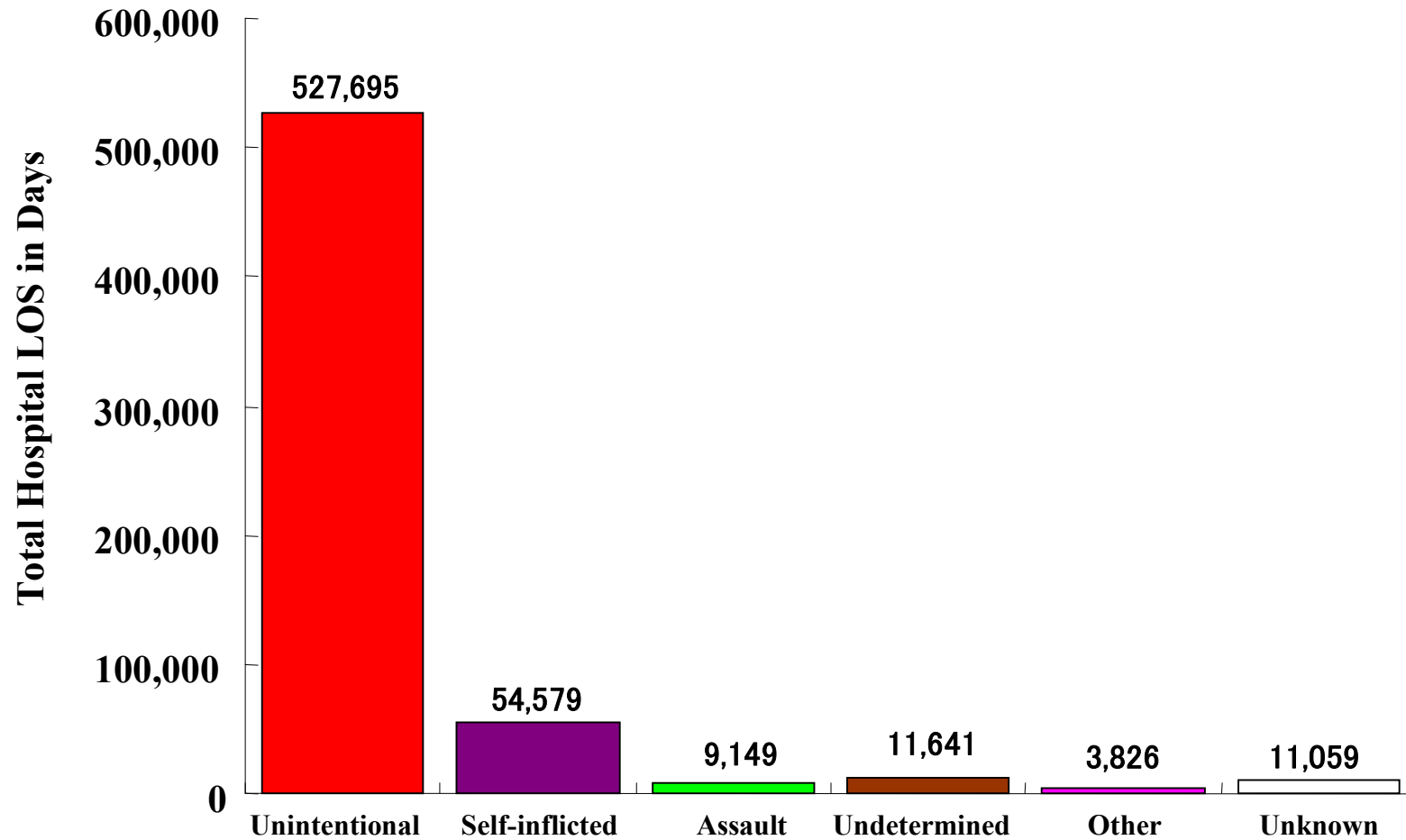
	<b>Male</b>	<b>Female</b>	<b>Total</b>
<1	<b>5</b>	<b>4</b>	<b>9</b>
1<4	<b>6</b>	<b>1</b>	<b>7</b>
5<9	<b>3</b>	<b>2</b>	<b>5</b>
10<14	<b>7</b>	<b>1</b>	<b>8</b>
15<19	<b>40</b>	<b>3</b>	<b>43</b>
20<24	<b>45</b>	<b>12</b>	<b>57</b>
25<34	<b>102</b>	<b>25</b>	<b>127</b>
35<44	<b>115</b>	<b>32</b>	<b>147</b>
45<54	<b>83</b>	<b>28</b>	<b>111</b>
55<64	<b>101</b>	<b>28</b>	<b>129</b>
65<74	<b>46</b>	<b>16</b>	<b>62</b>
75<84	<b>15</b>	<b>9</b>	<b>24</b>
<85	<b>3</b>	<b>3</b>	<b>6</b>
<b>Total</b>	<b>571</b>	<b>164</b>	<b>735</b>

**Table 33 Intentional Injury by Age and Gender**

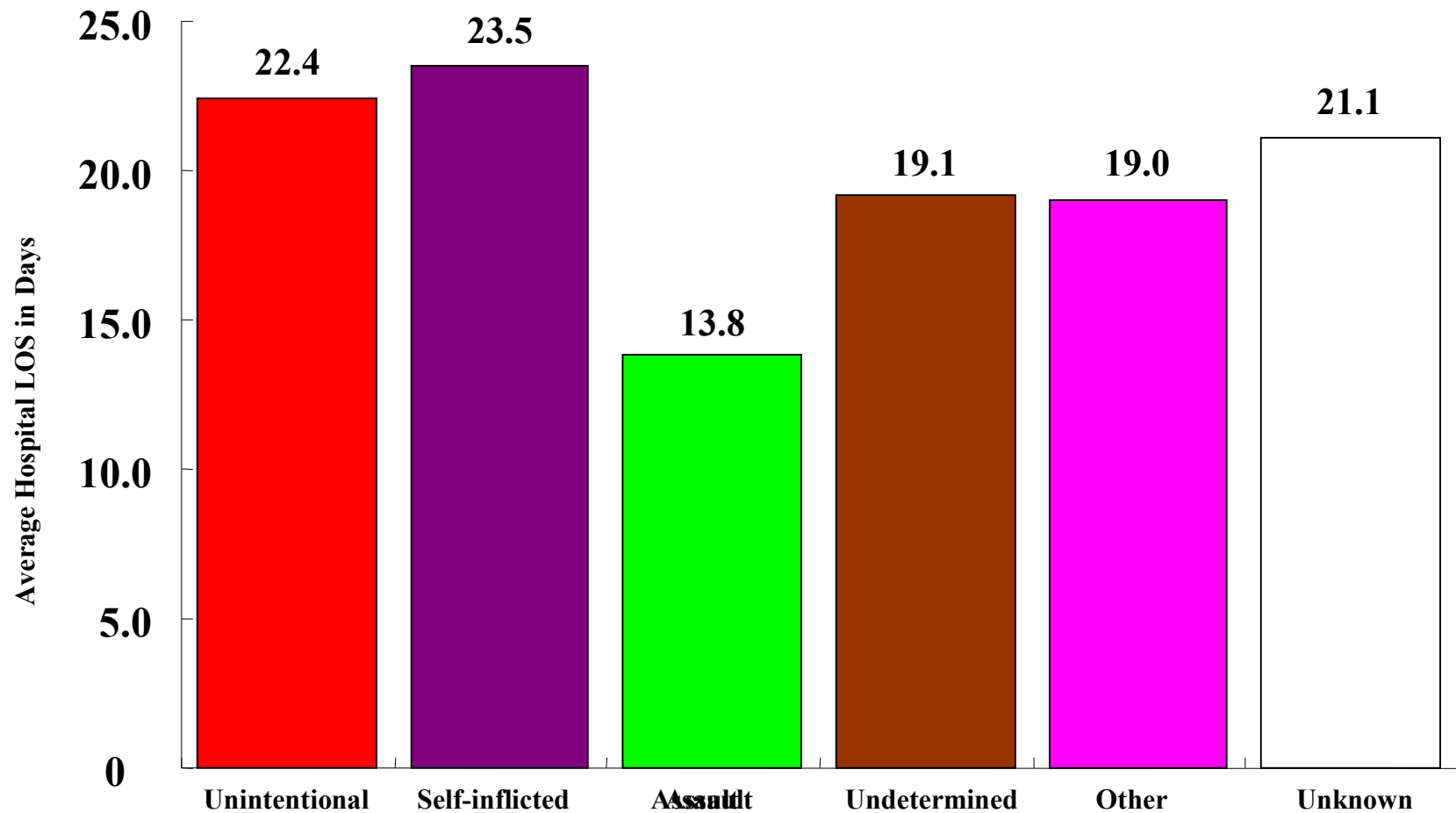




**Figure 34 Self-inflicted by Age and Gender**

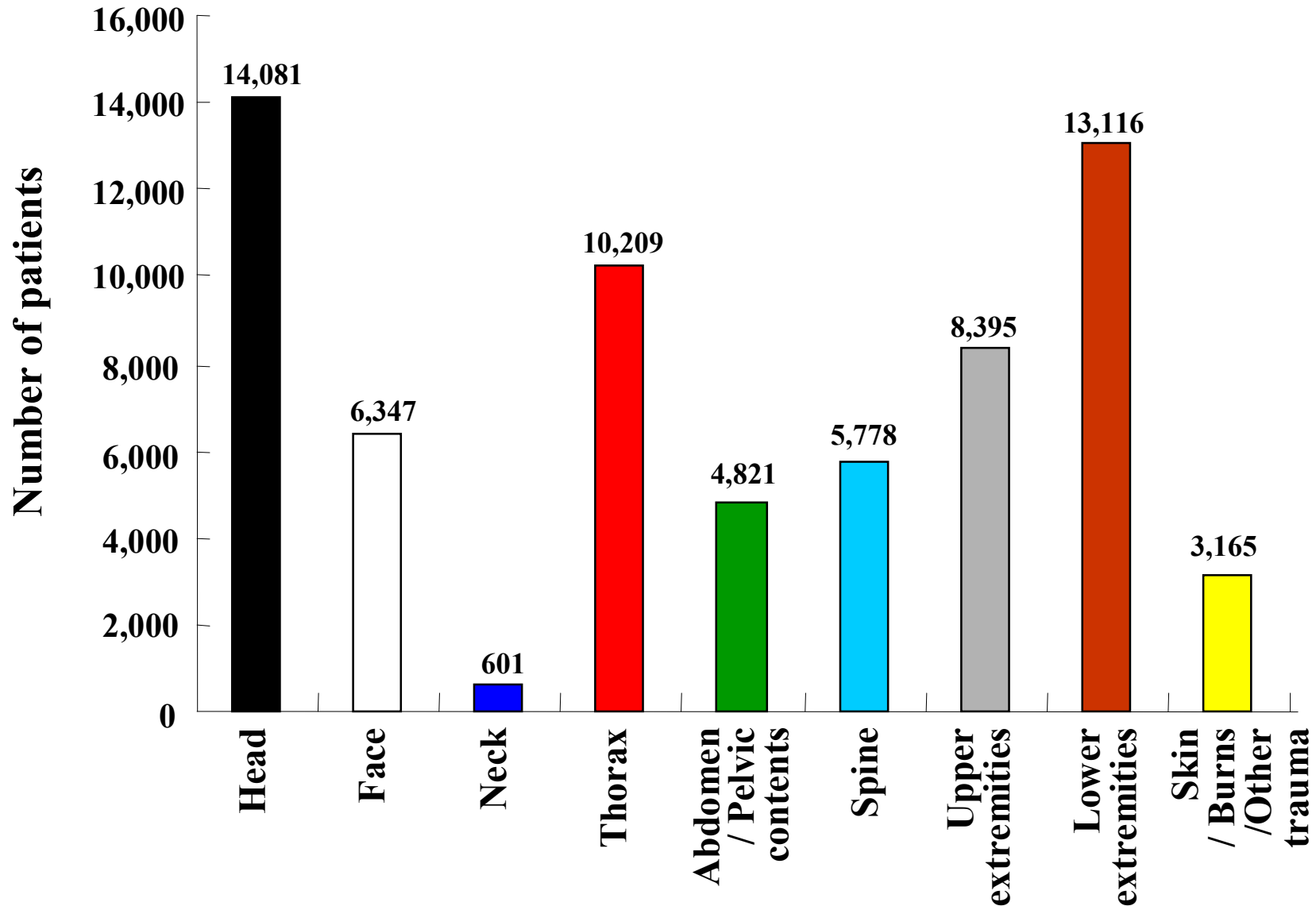


**Figure 35A Total Hospital LOS by Intent**  
Industrial accident was included in the category of “Unintentional”.

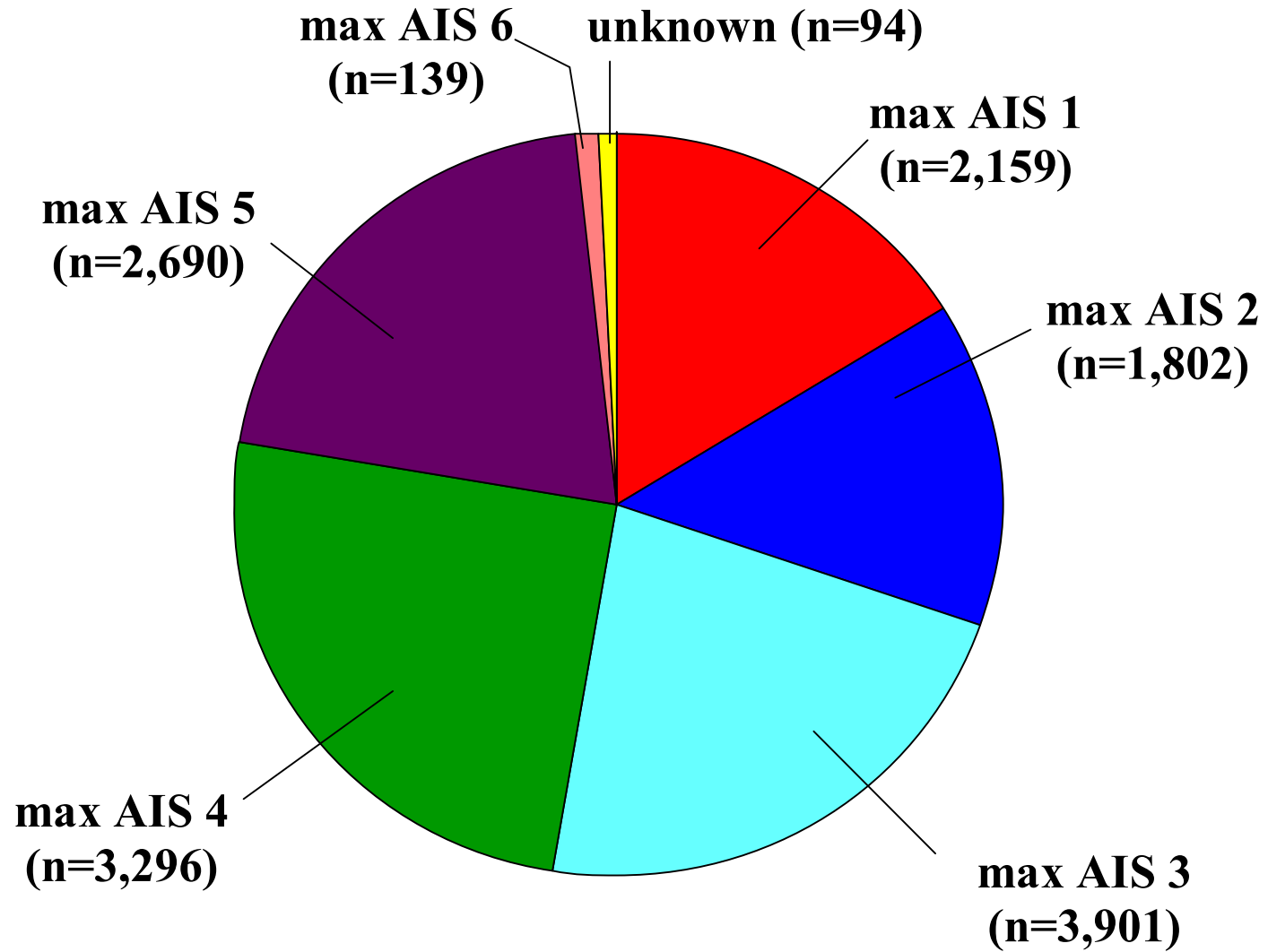


**Figure 35B Average Hospital LOS by Intent**

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

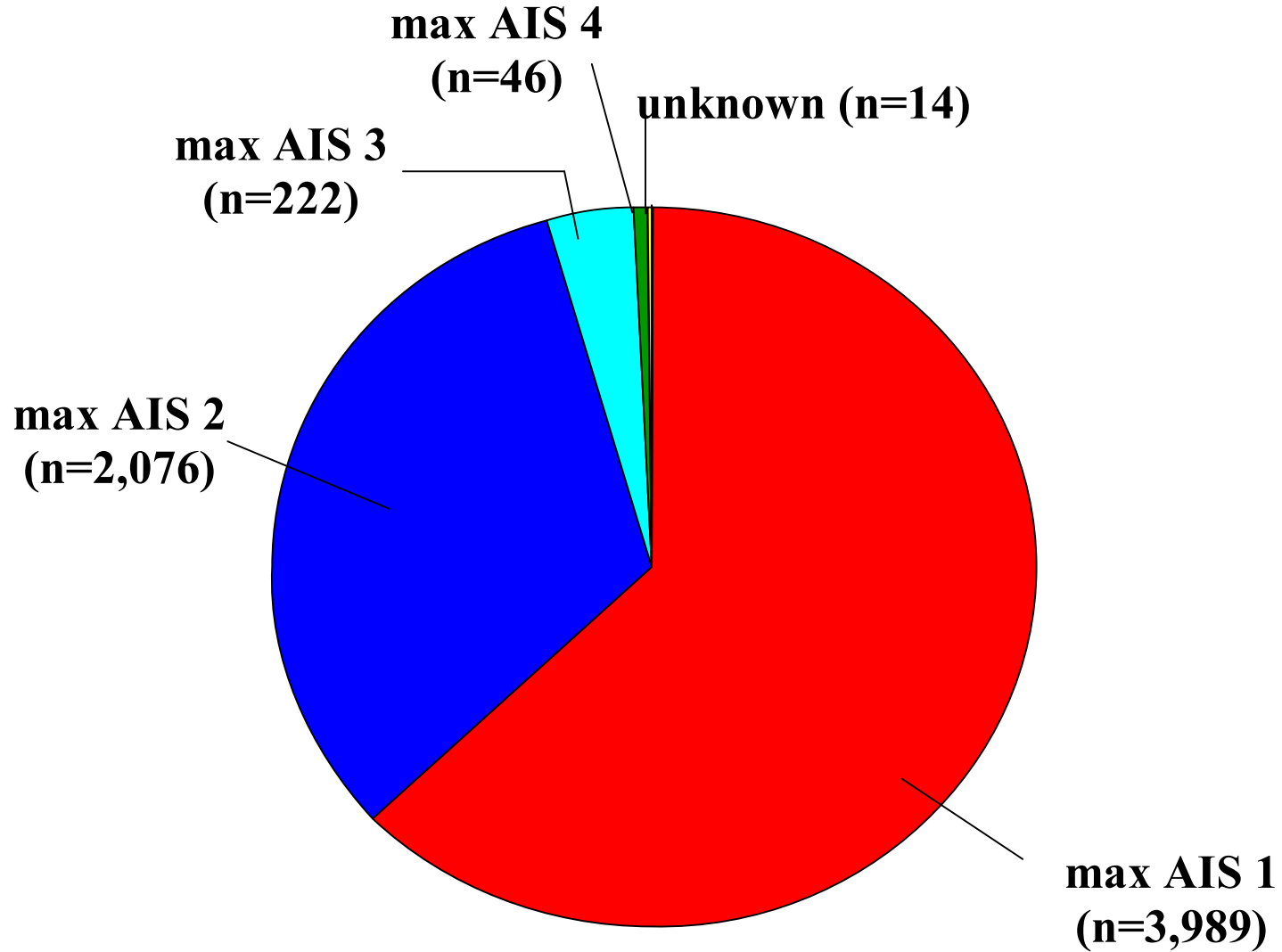


**Figure 36 Number of Patients with Injured Body Parts based on AIS**

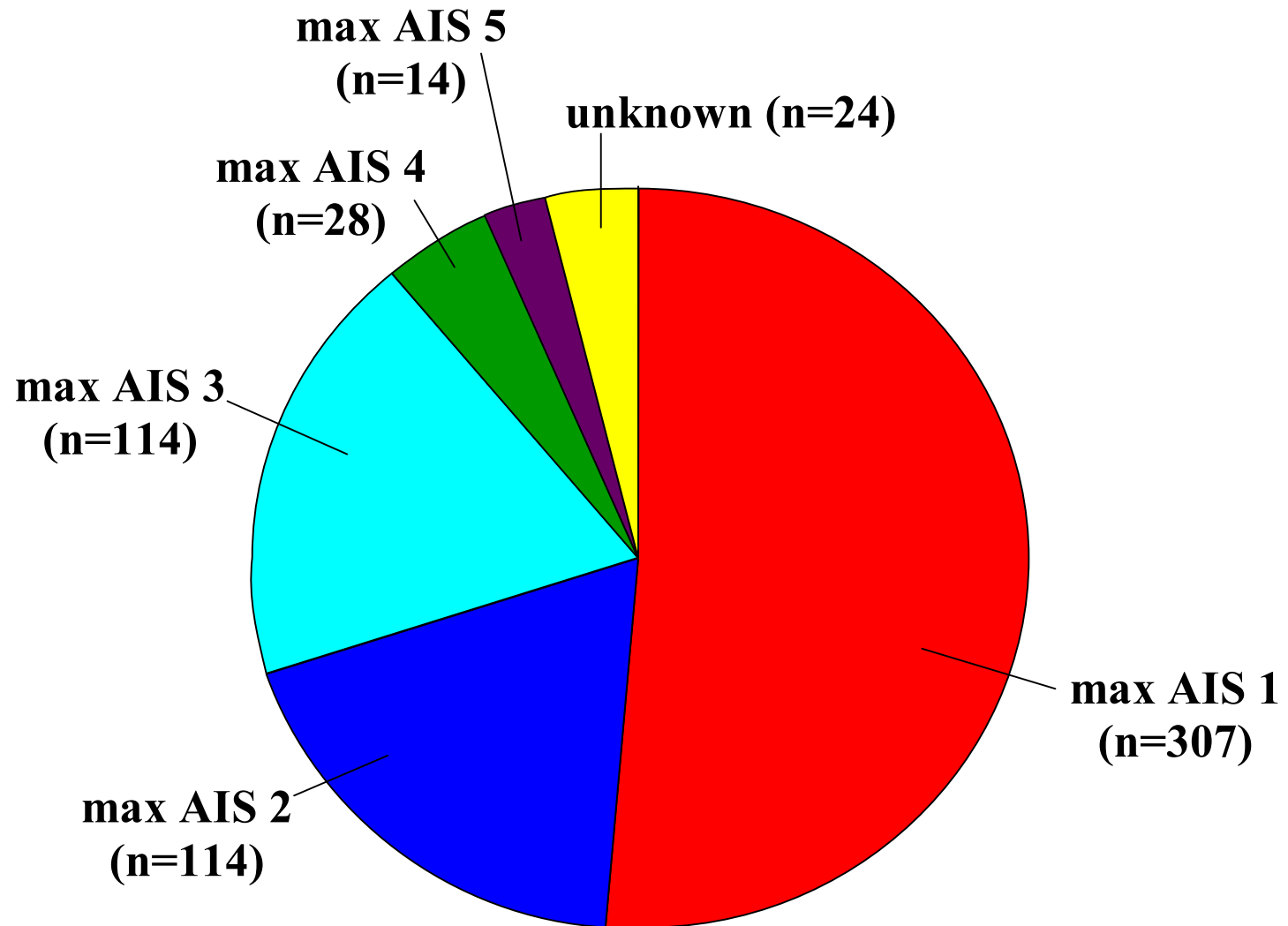


**Figure 37A Head Injury and max AIS Score**

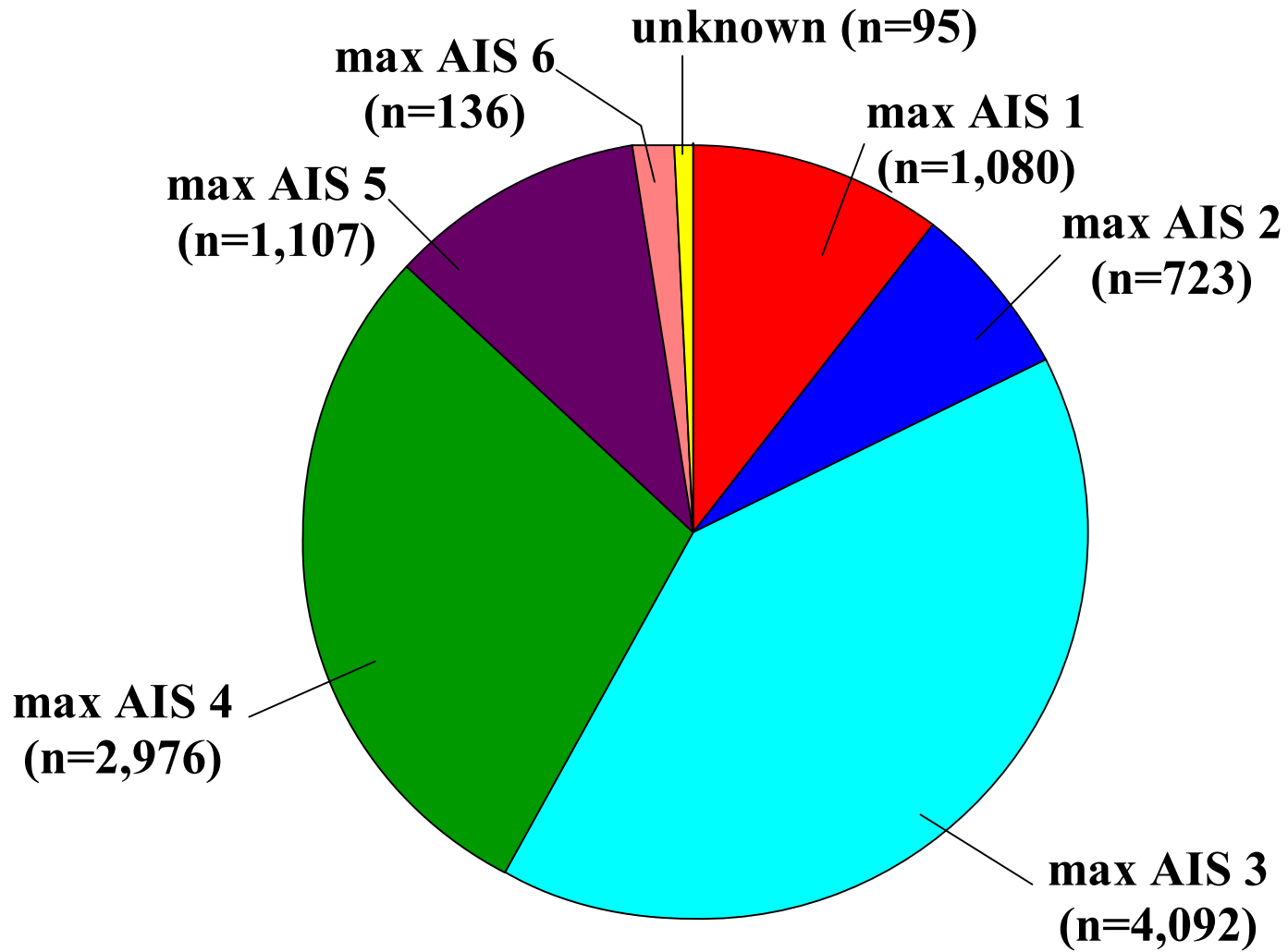
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**Figure 37B Facial Injury and max AIS Score**

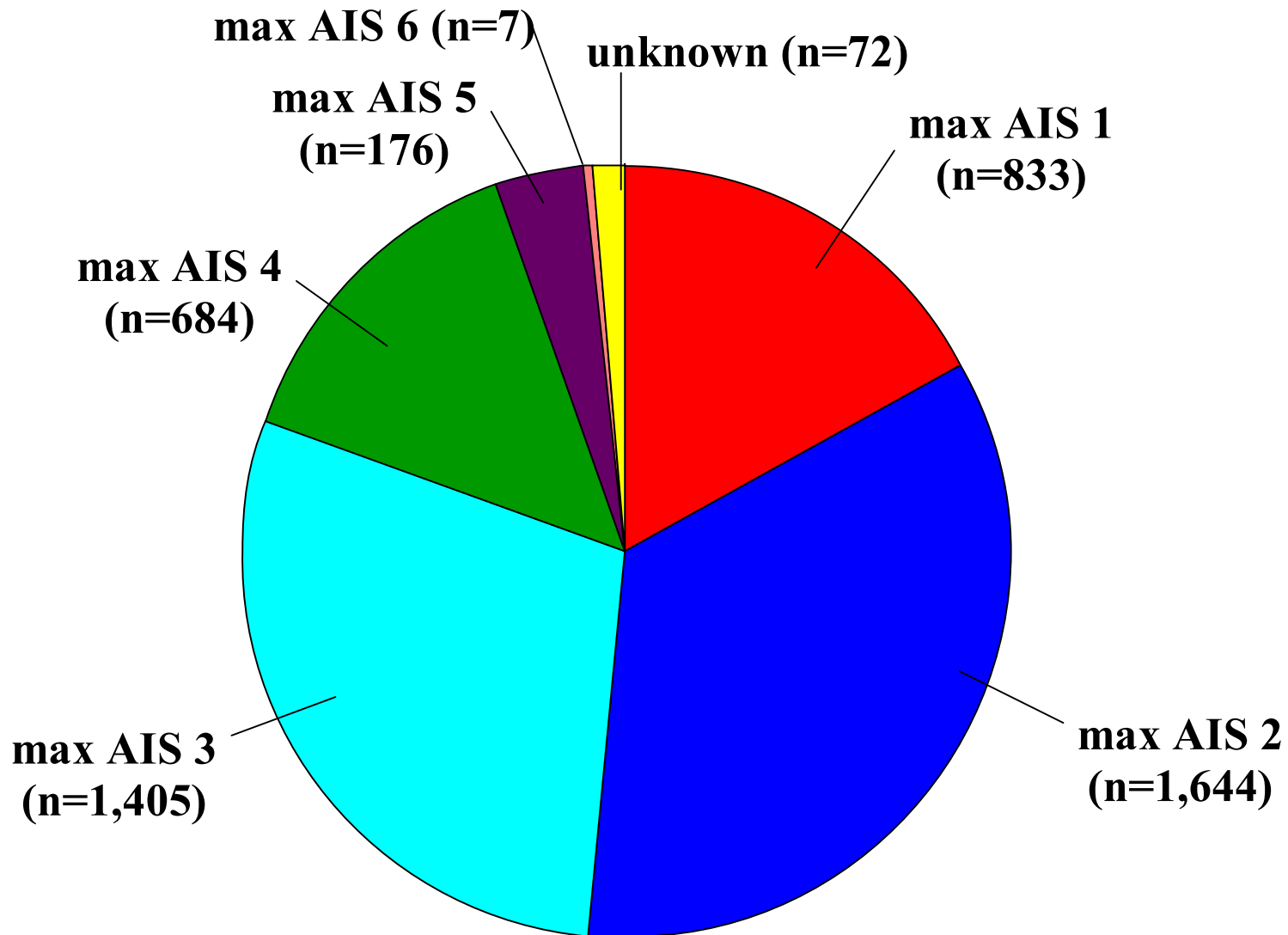


**Figure 37C Neck Injury and max AIS Score**

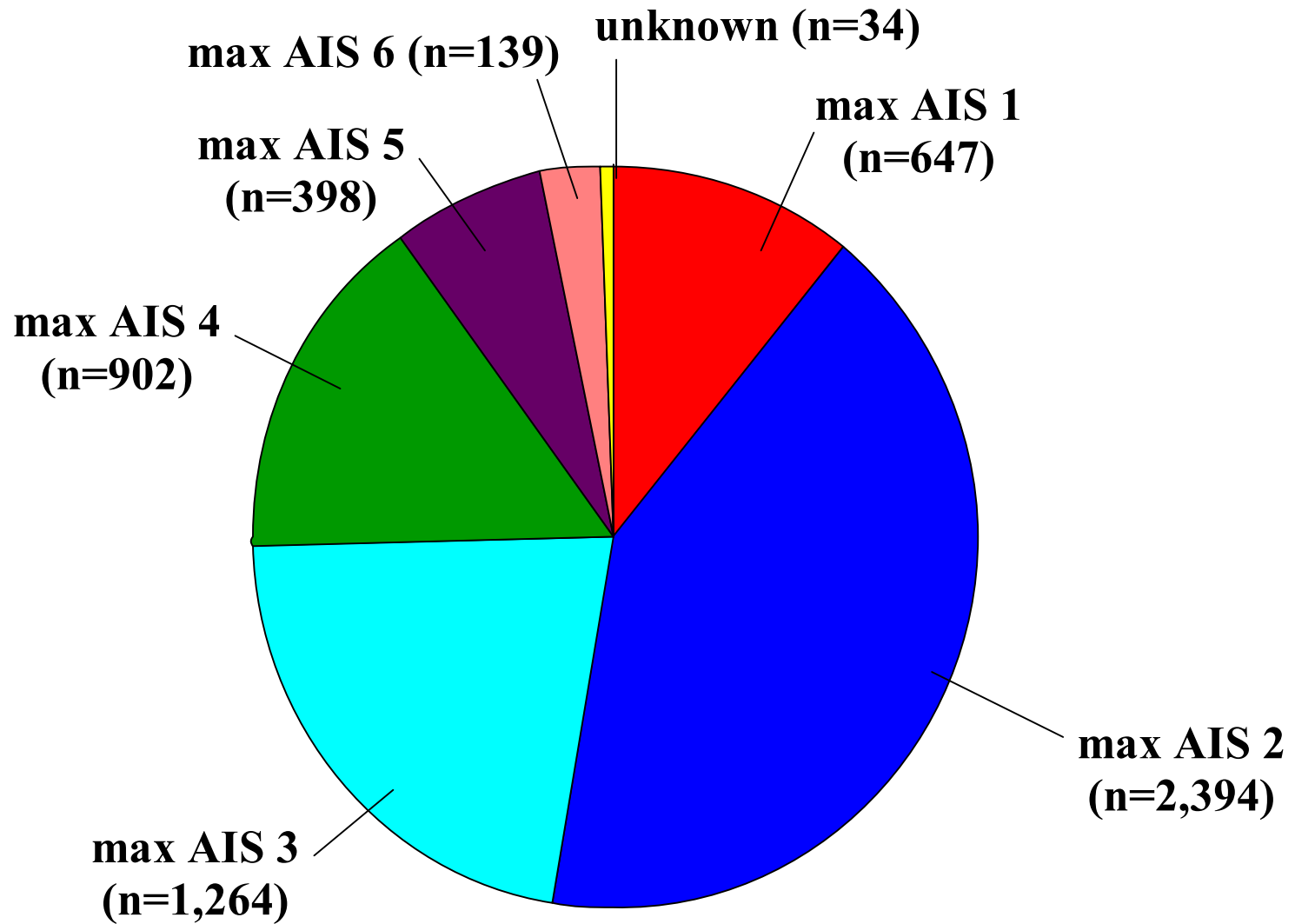


**Figure 37D Thoracic Injury and max AIS Score**

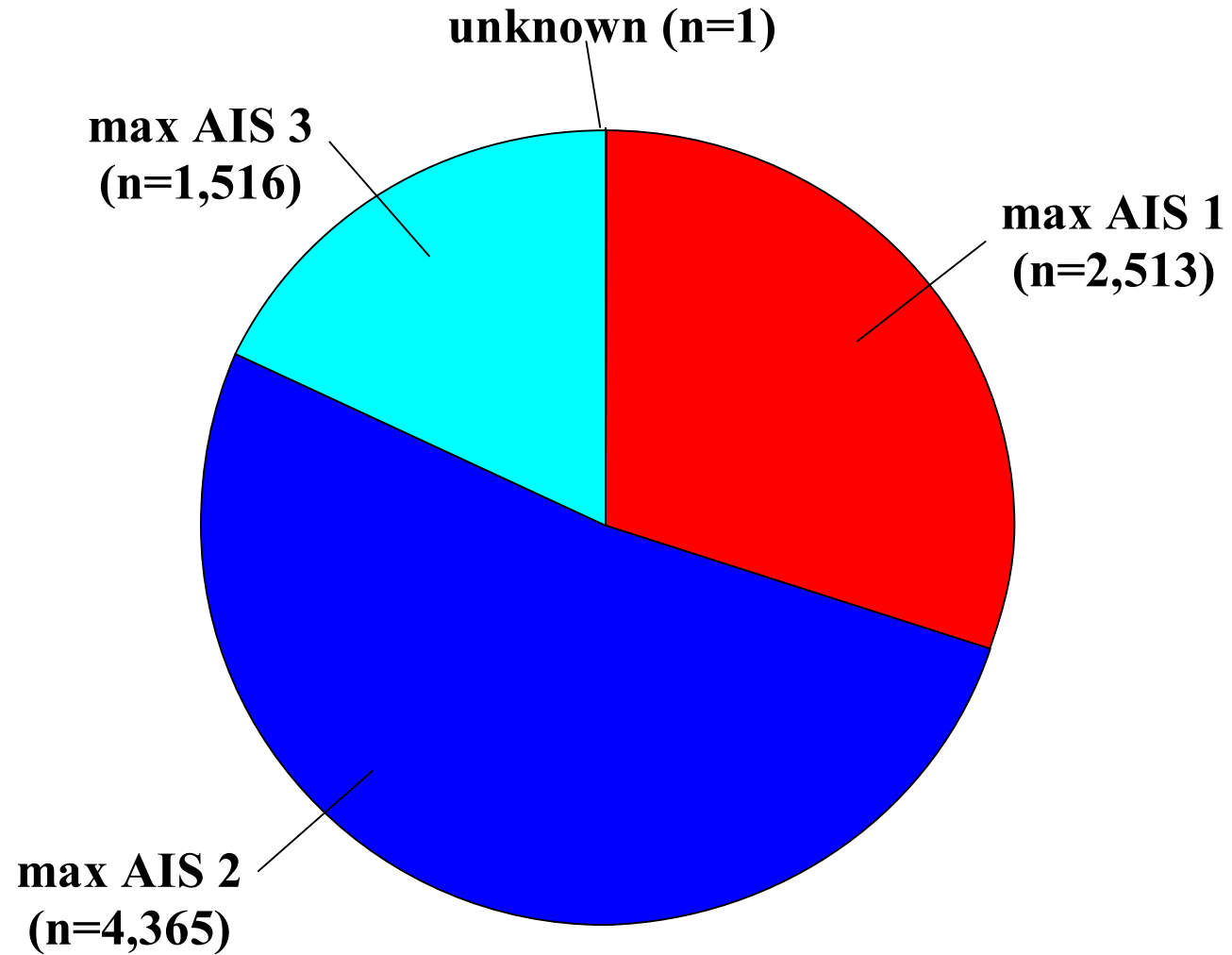




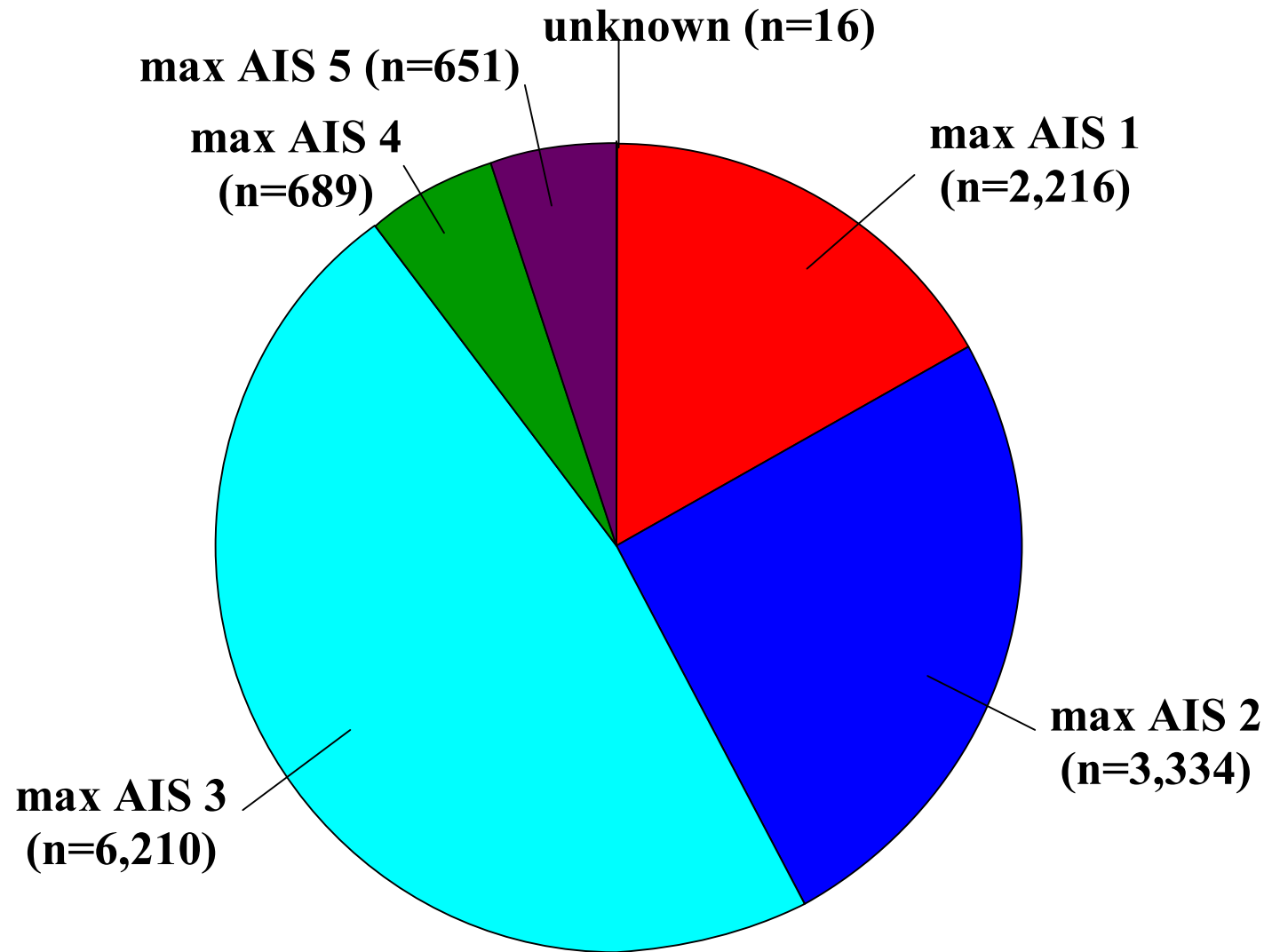
**Figure 37E Injury of Abdomen/Pelvic Contents and max AIS Score**



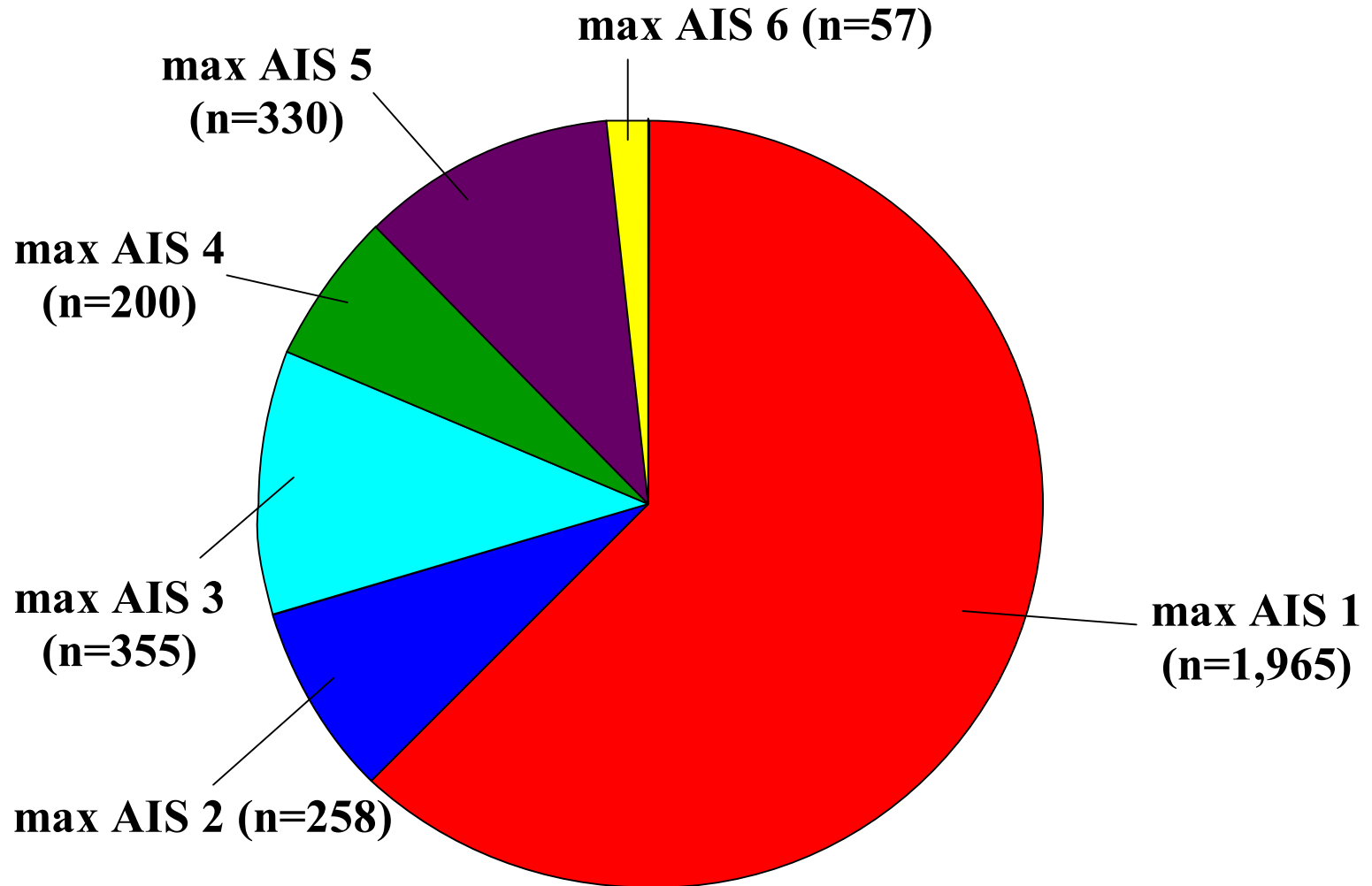
**Figure 37F Spine Injury and max AIS Score**



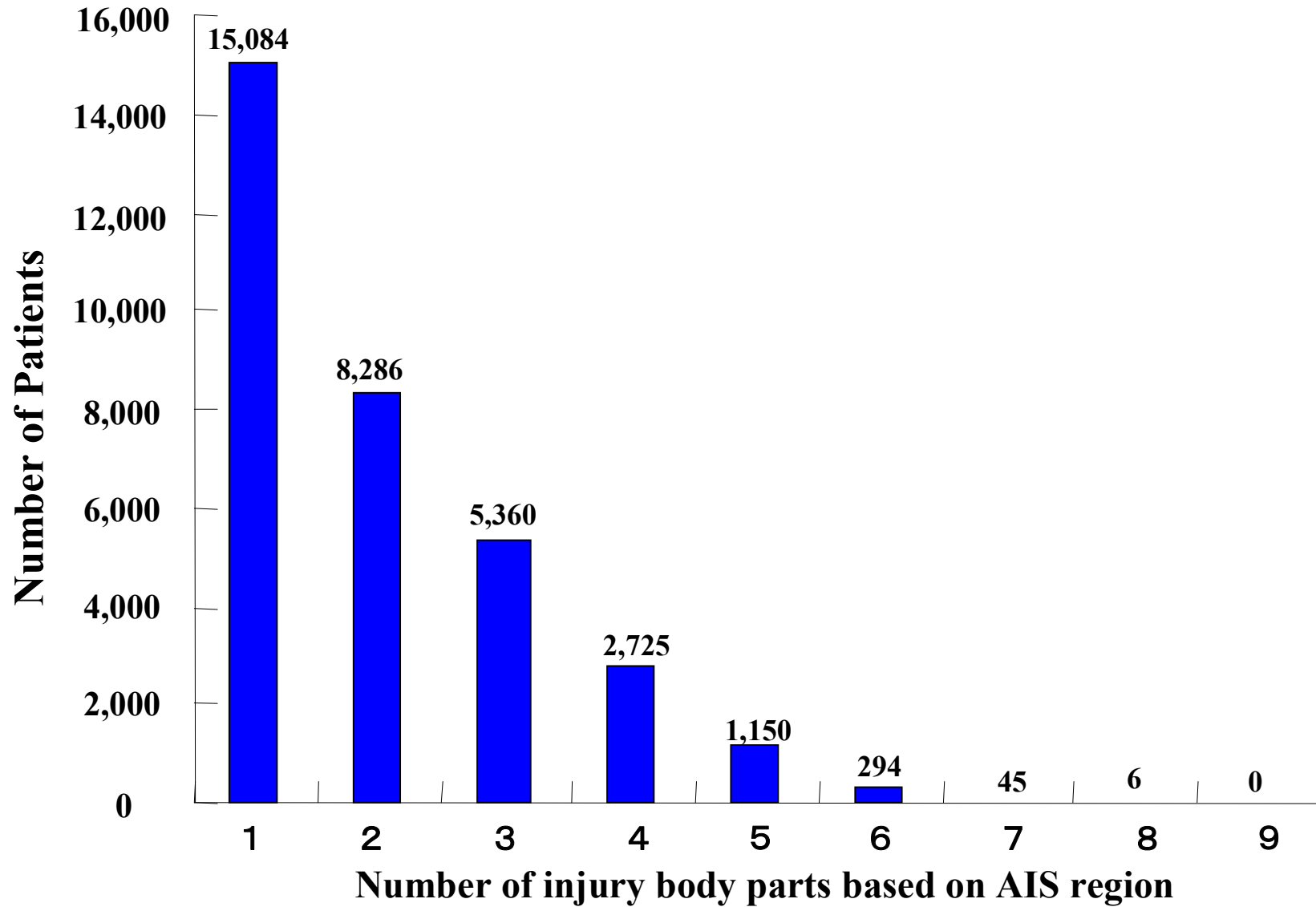
**Figure 37G Injury of Upper Extremities and max AIS Score**



**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

**JAPAN TRAUMA DATA BANK  
REPORT 2005-2009**

**December 1, 2010**



**The Japanese Association for Acute Medicine**



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

**Task Force:**

**Noriaki Aoki, MD**

**Jun Oda, MD**

**Akio Kimura, MD**

**Daizoh Saitoh, MD**

**Yuichiro Sakamoto, MD**

**Hideo Tohira, MD**

**Munetaka Hayashi, MD**

**Atsuhiko Fukuda, MD**

**Takashi Fujita, MD**

**Tomohiko Masuno, MD**

**Yasufumi Miyake, MD**

**Naoto Morimura, MD**

**Yoshihiro Yamaguchi, MD**