JTDB
JAPAN TRAUMA DATA BANK

# Japan Trauma Data Bank Report 2014 (2009-2013)

## Japan Trauma Care and Research


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

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

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

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

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

Figure 2

## Number of Hospitals Submitting to the JTDB by Region

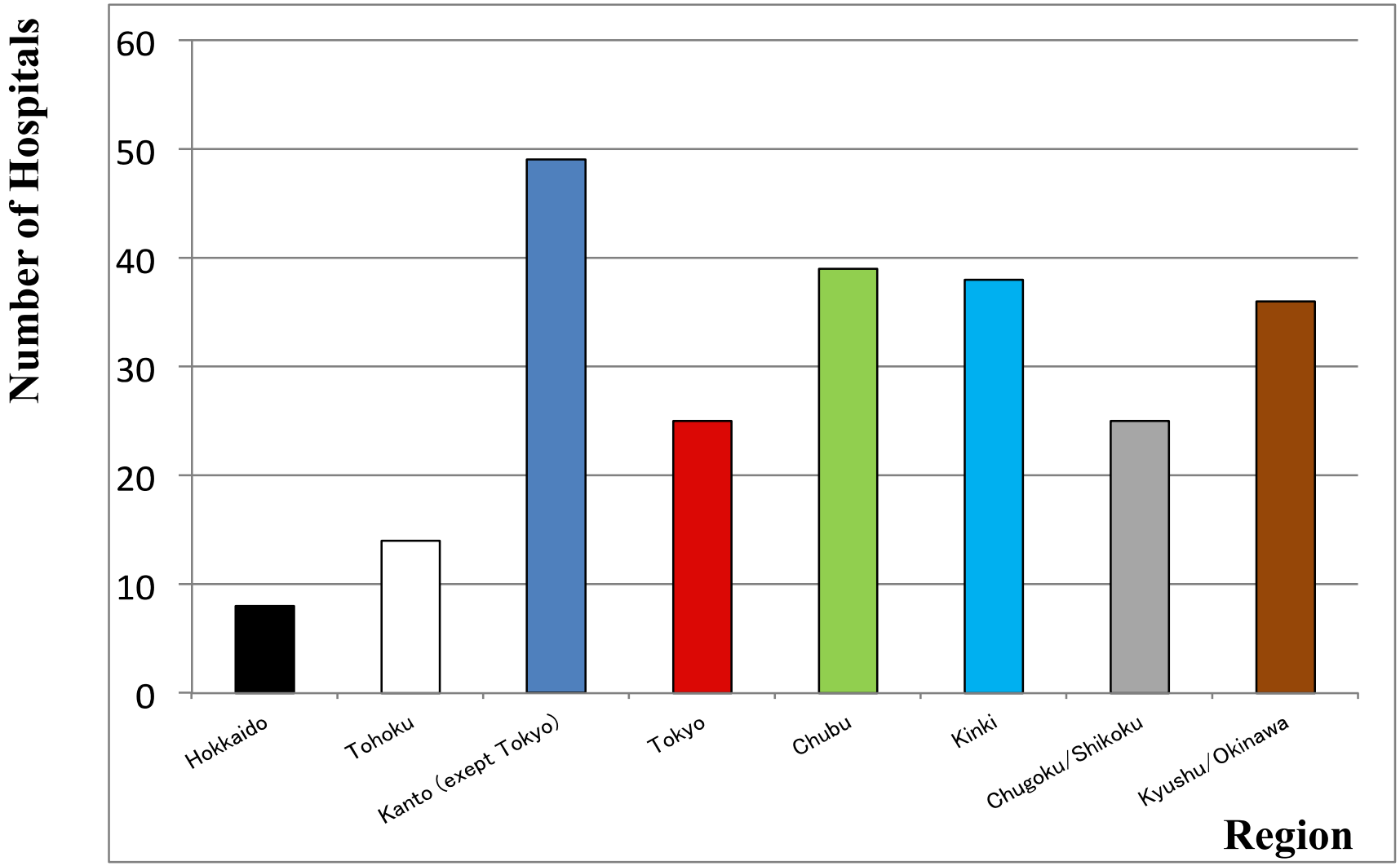


Figure 3

## Number of Patients by Age

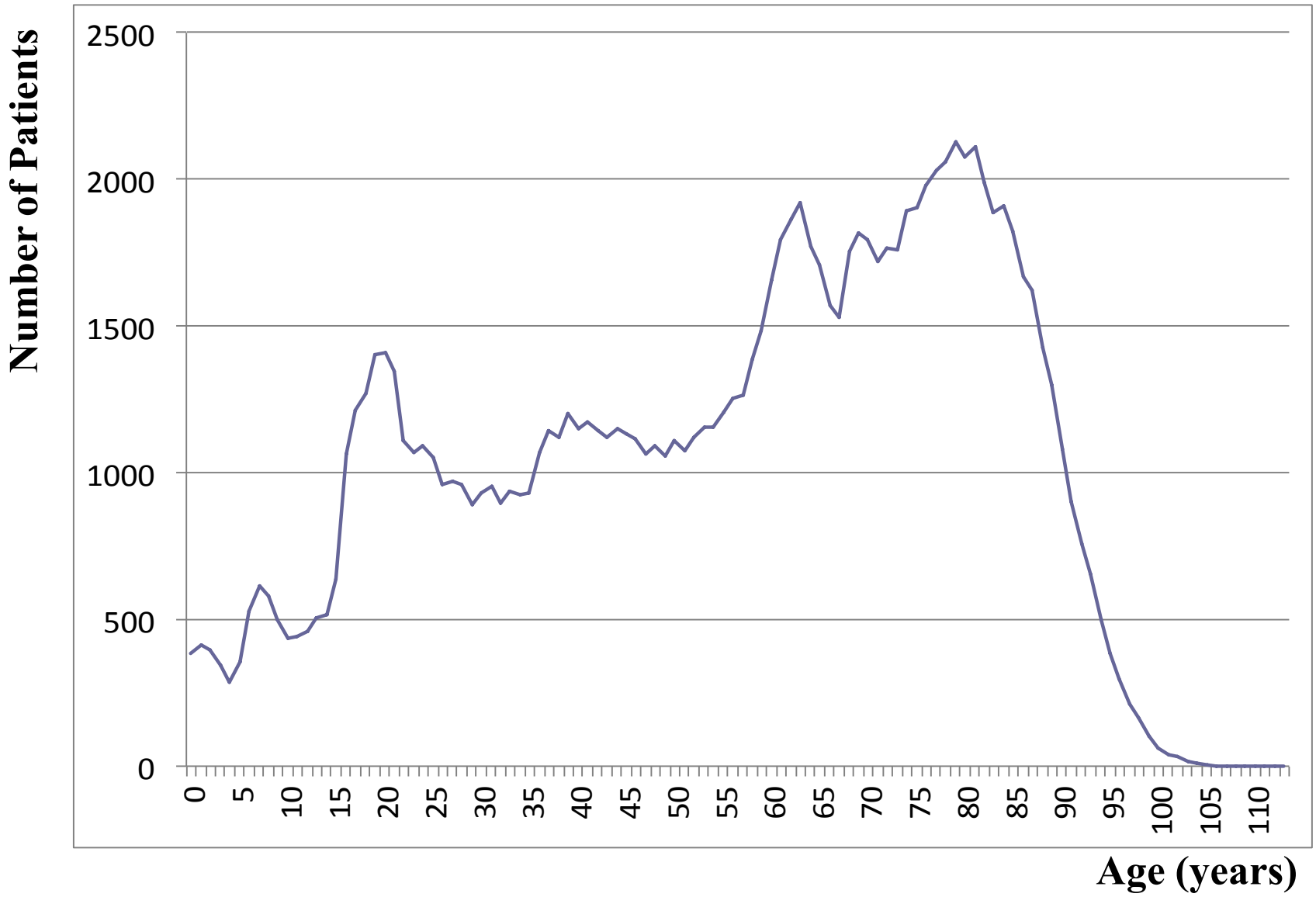


Figure 4

## Patients by Age and Gender

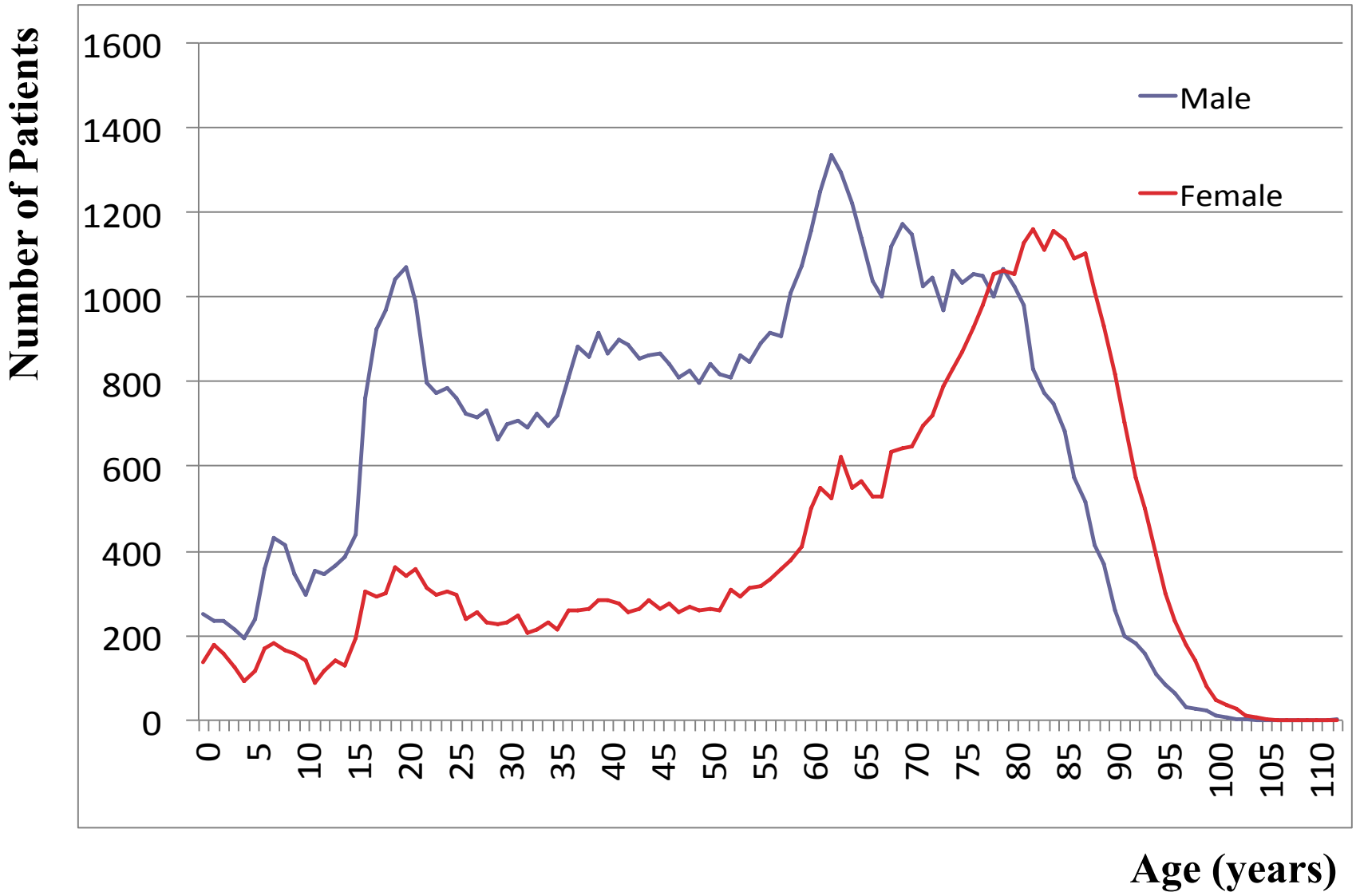


Figure 5

## Patients by mechanism of injury

Motor vehicle traffic includes pedal cyclist and pedestrian victims.

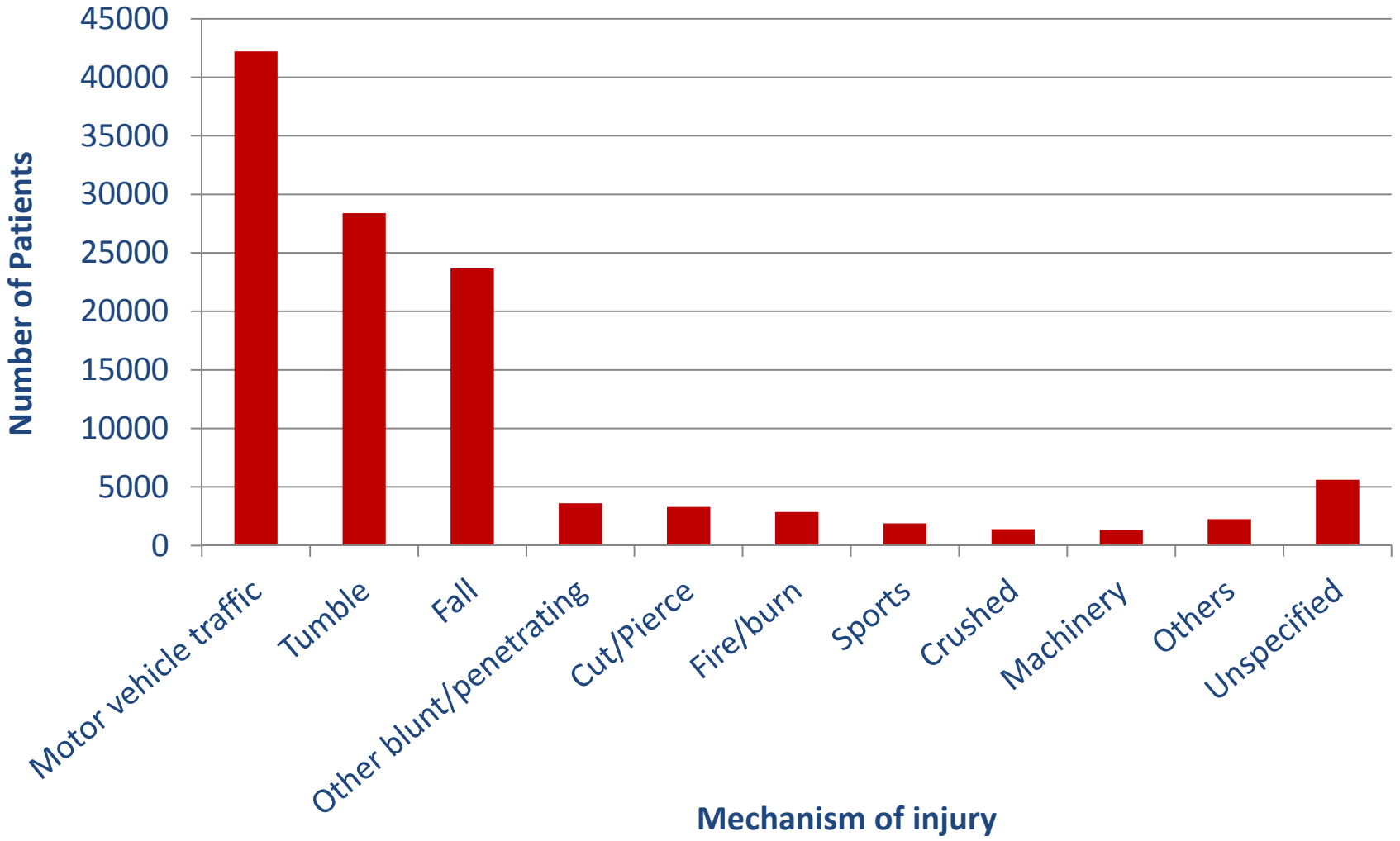


Table 5

## Patients by mechanism of injury

| Mechanism of injury | Patients (n) | Patients by mechanism of injury |
|---|---|---|
| Motor vehicle traffic | 42207 | 36.24 % |
| Tumble | 28381 | 24.37 % |
| Fall | 23669 | 20.32 % |
| Other blunt/penetrating | 3614 | 3.10 % |
| Cut/Pierce | 3280 | 2.82 % |
| Fire/burn | 2860 | 2.46 % |
| Sports | 1881 | 1.62 % |
| Crushed | 1395 | 1.20 % |
| Machinery | 1325 | 1.14 % |
| Transport, others | 1052 | 0.90 % |
| Falling objects | 847 | 0.73 % |
| Explosion | 212 | 0.18 % |
| Stake | 98 | 0.08 % |
| Firearm | 36 | 0.03 % |
| Unspecified | 5609 | 4.82 % |
| Total | 116466 | 100.00 % |

Figure 6

## Mechanism of injury by age

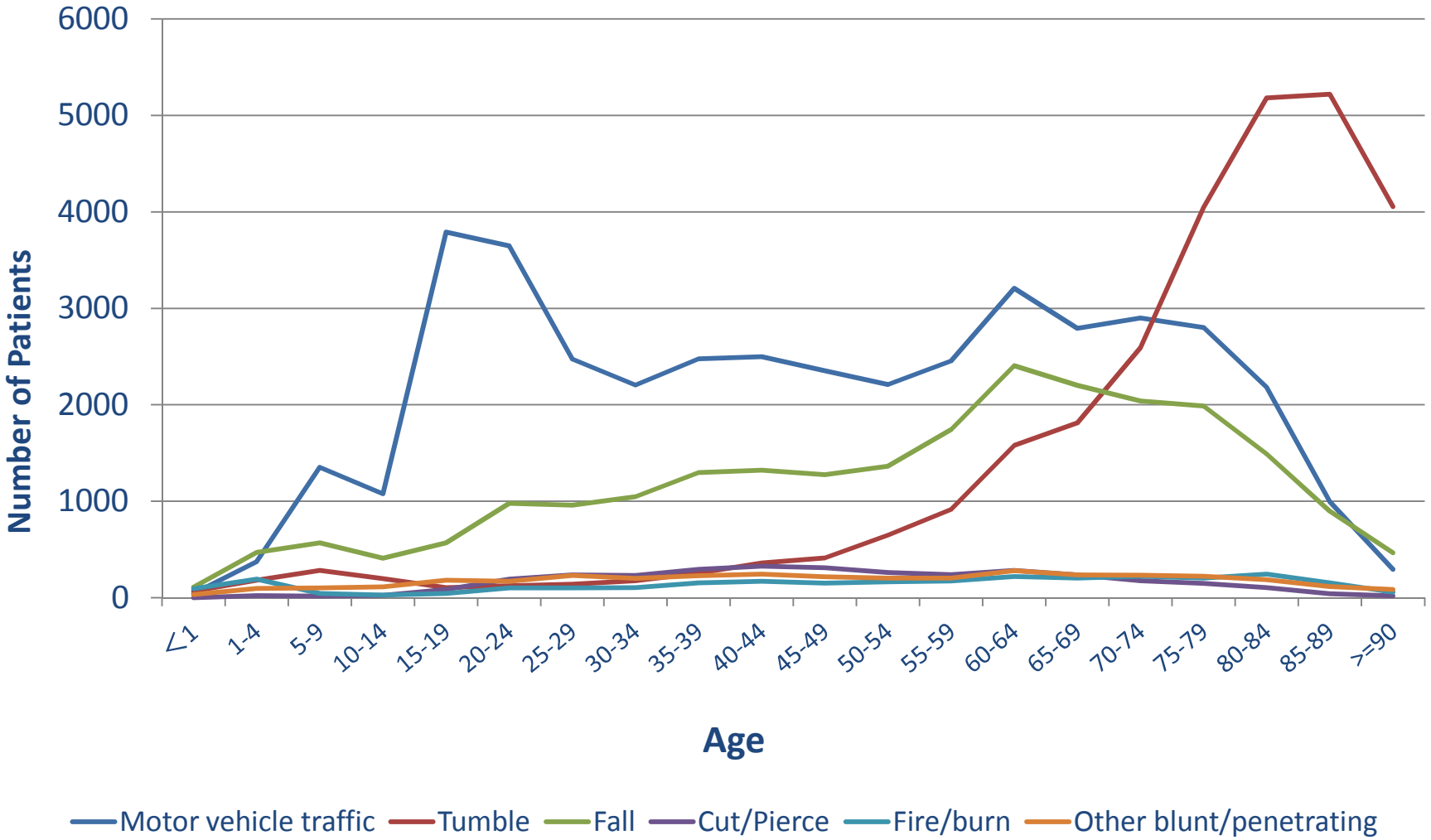


Table 6

# Mechanism of injury by range of age

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

Figure 7

## Deaths by mechanism of injury

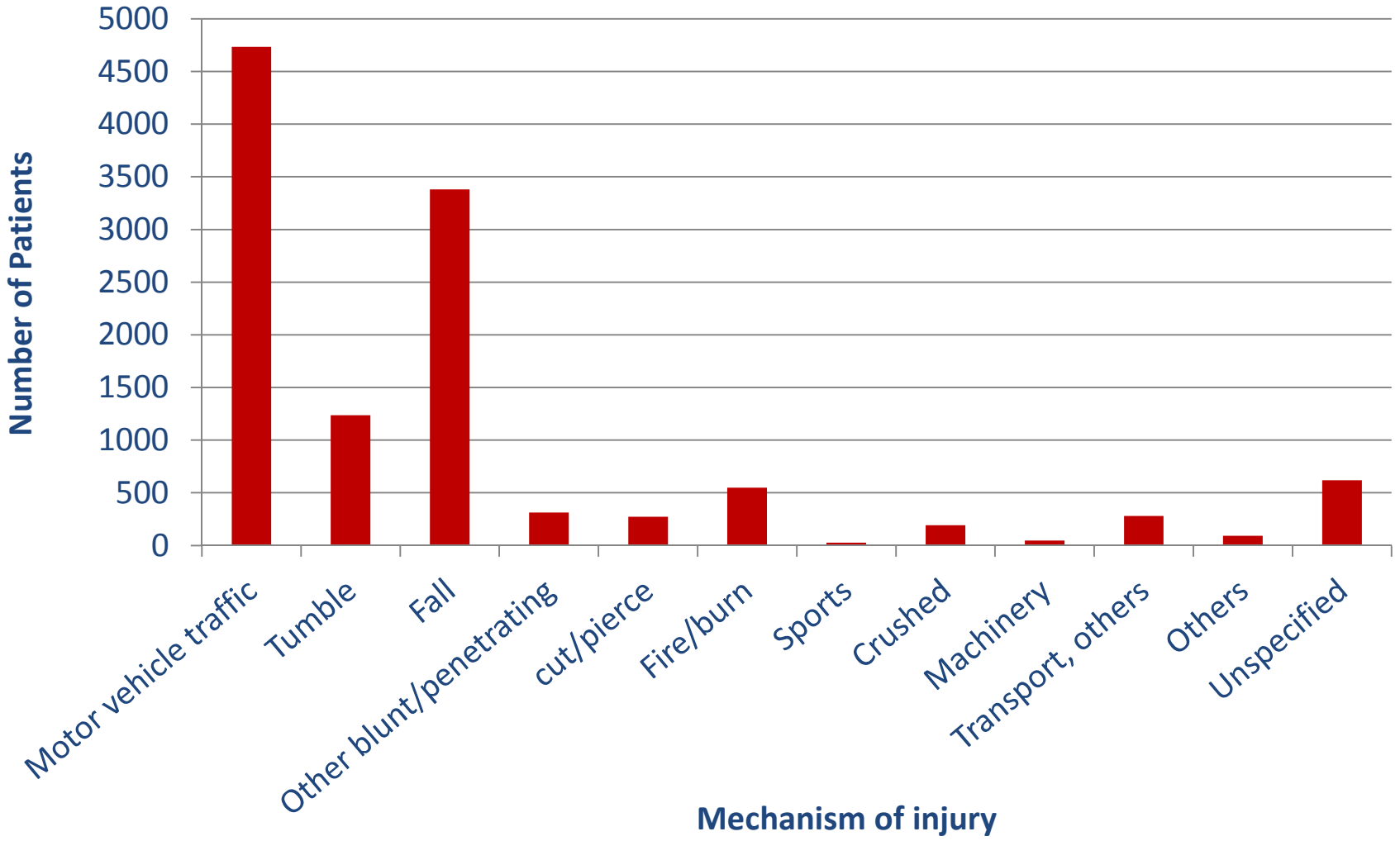
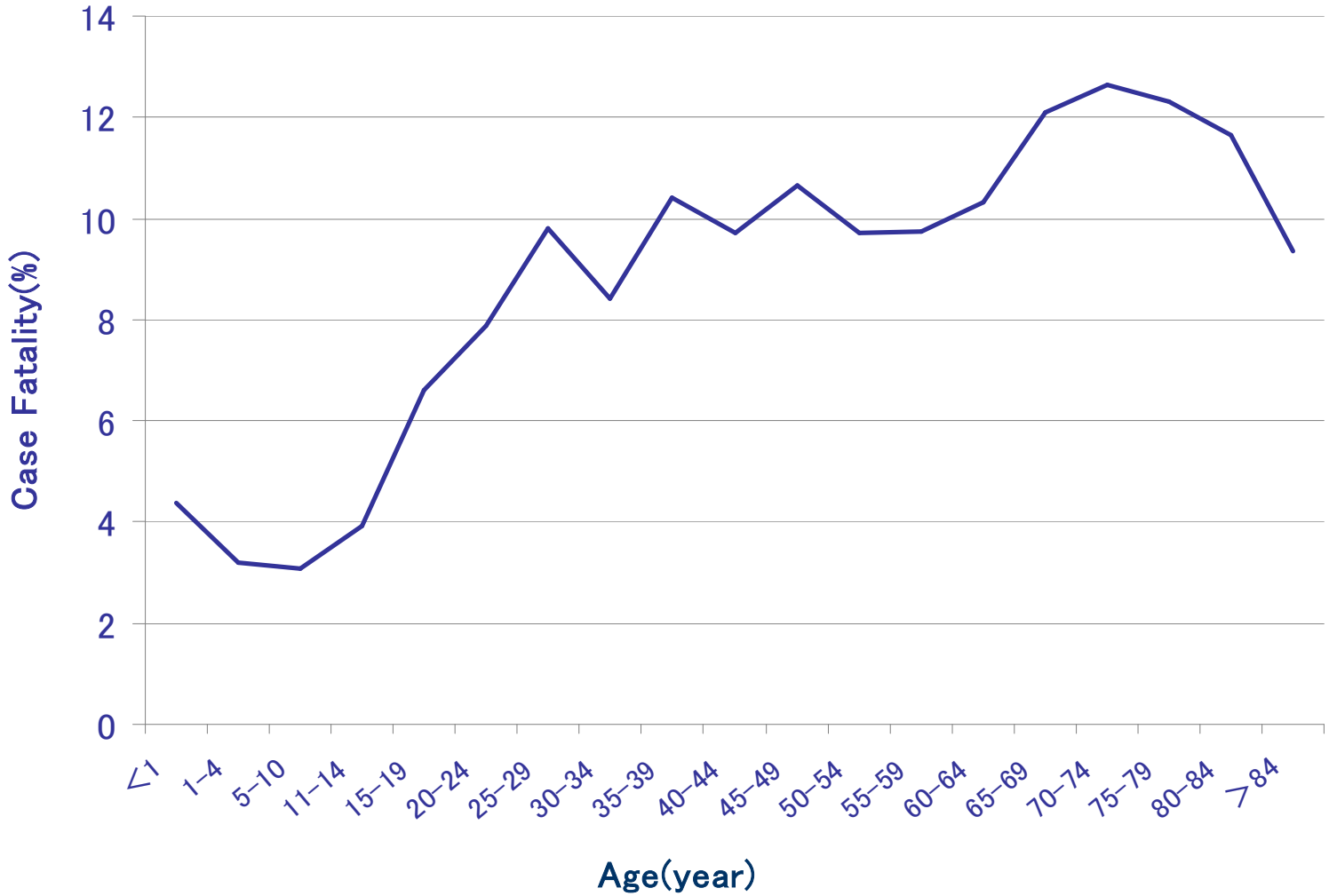


Figure 8

## Case Fatality by age




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

Figure 9

## Case Fatality by age and Gender

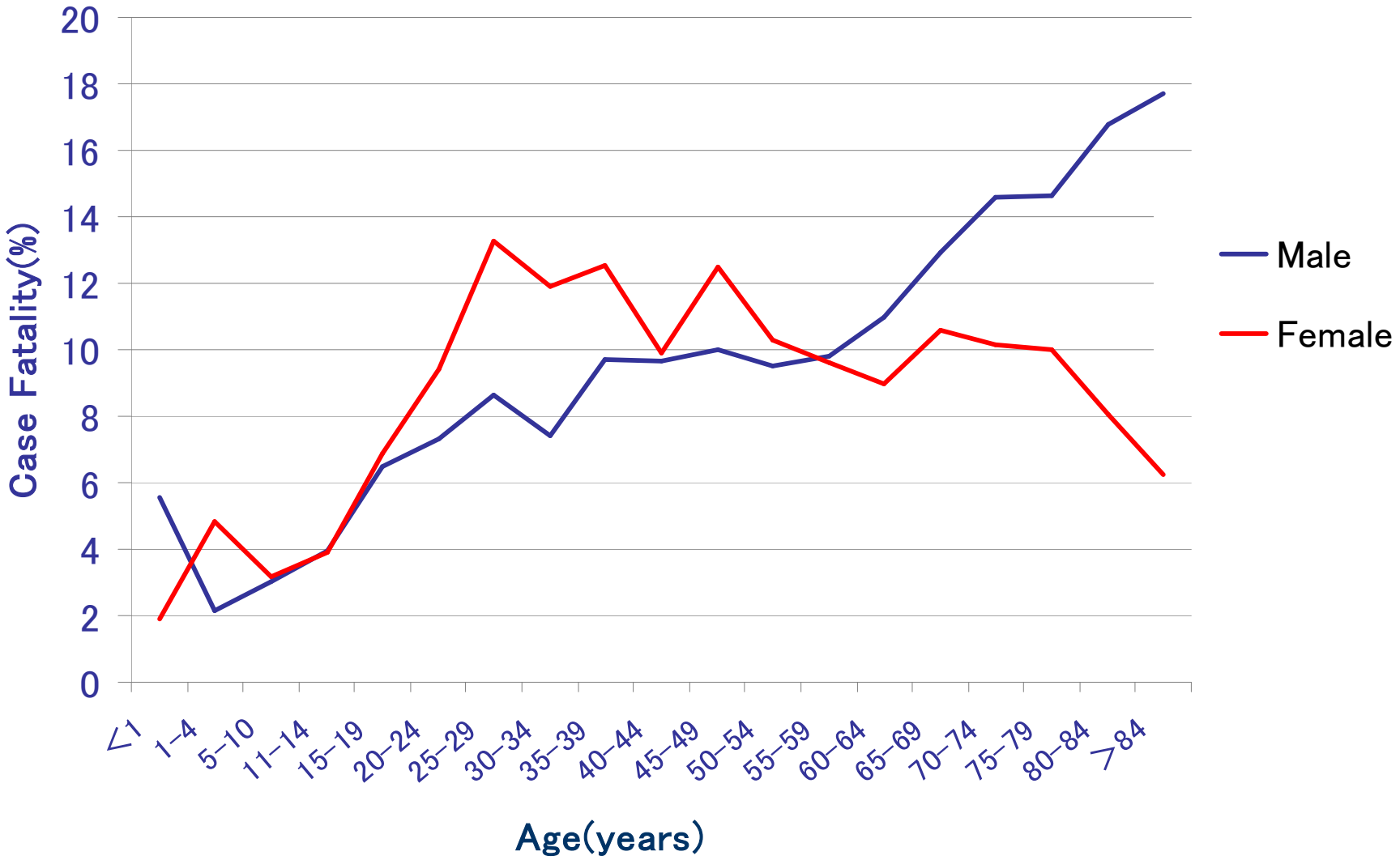


Figure 10

## Case Fatality by Age

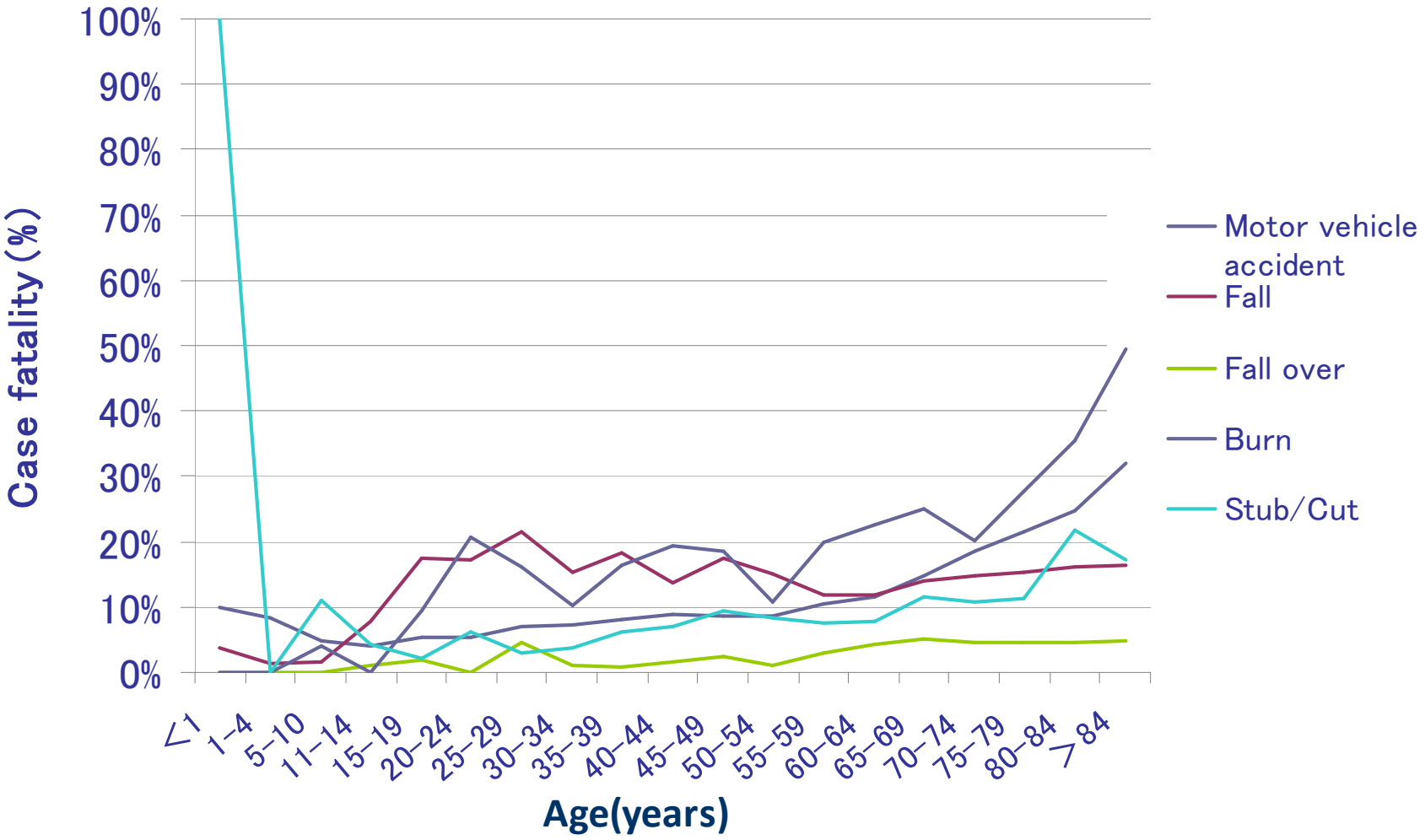
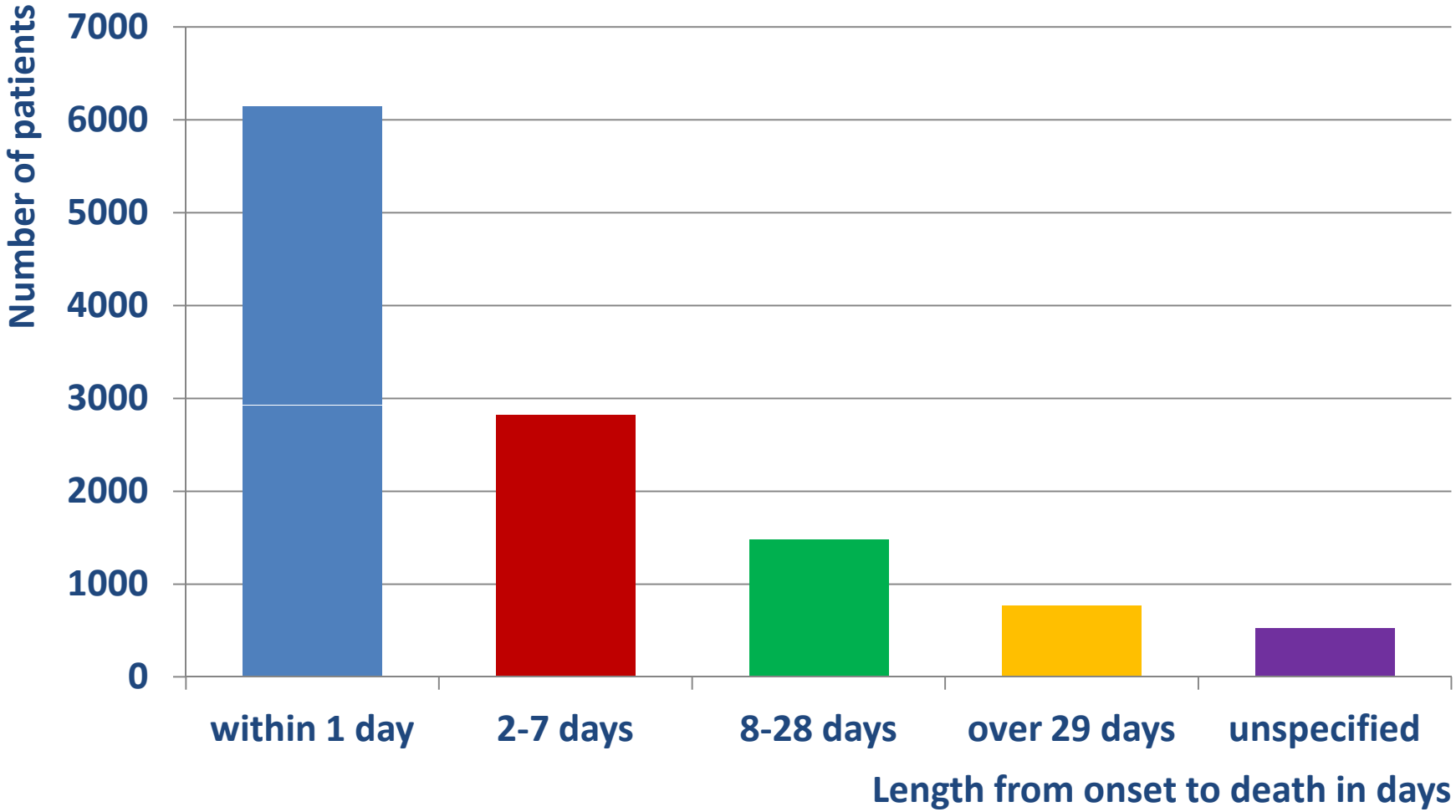


Figure 11A

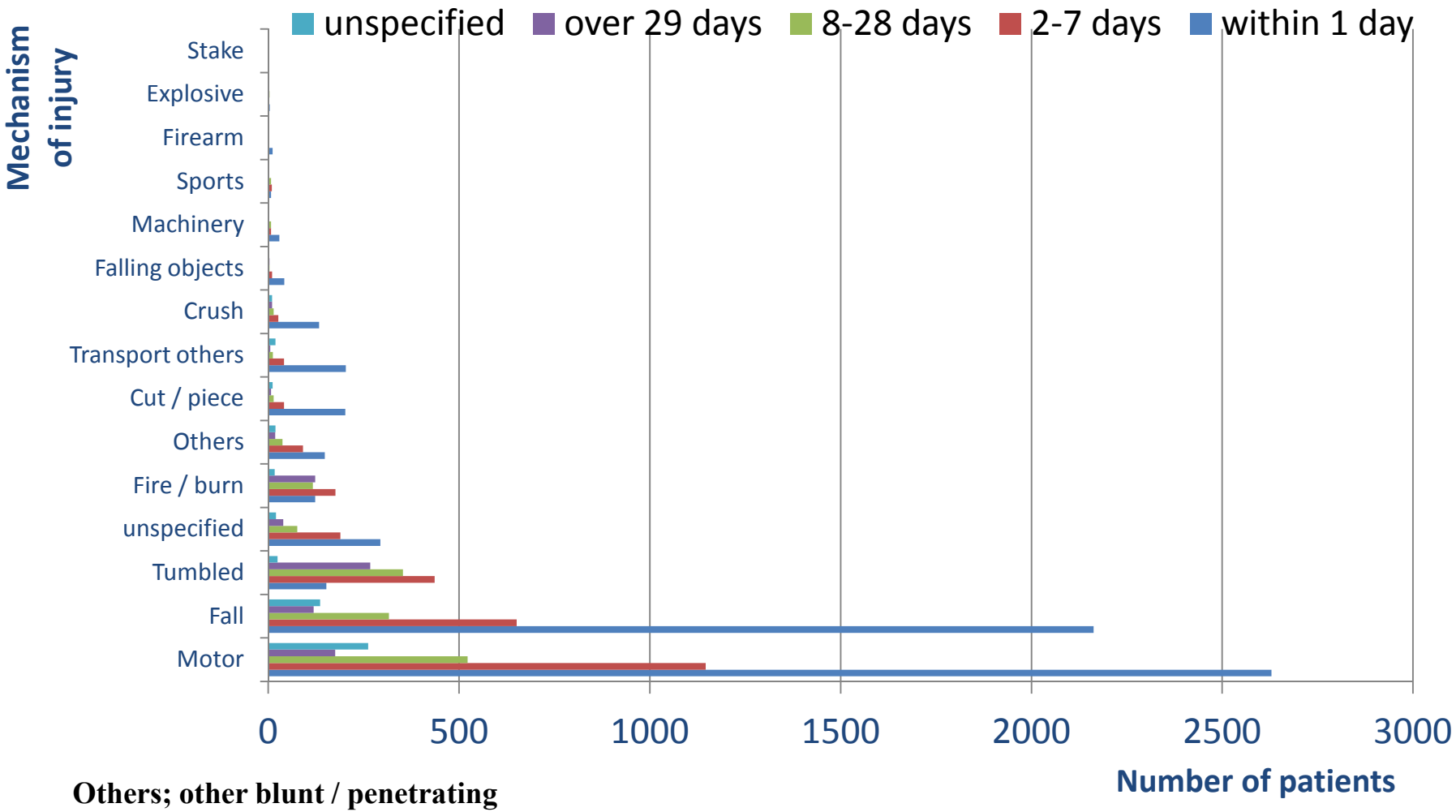
## Proportional distribution of length from onset to facility N = 11,745




**The category within 1 day after onset includes CPAOA patients.**

**Figure 11B**

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




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

Table 11B

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

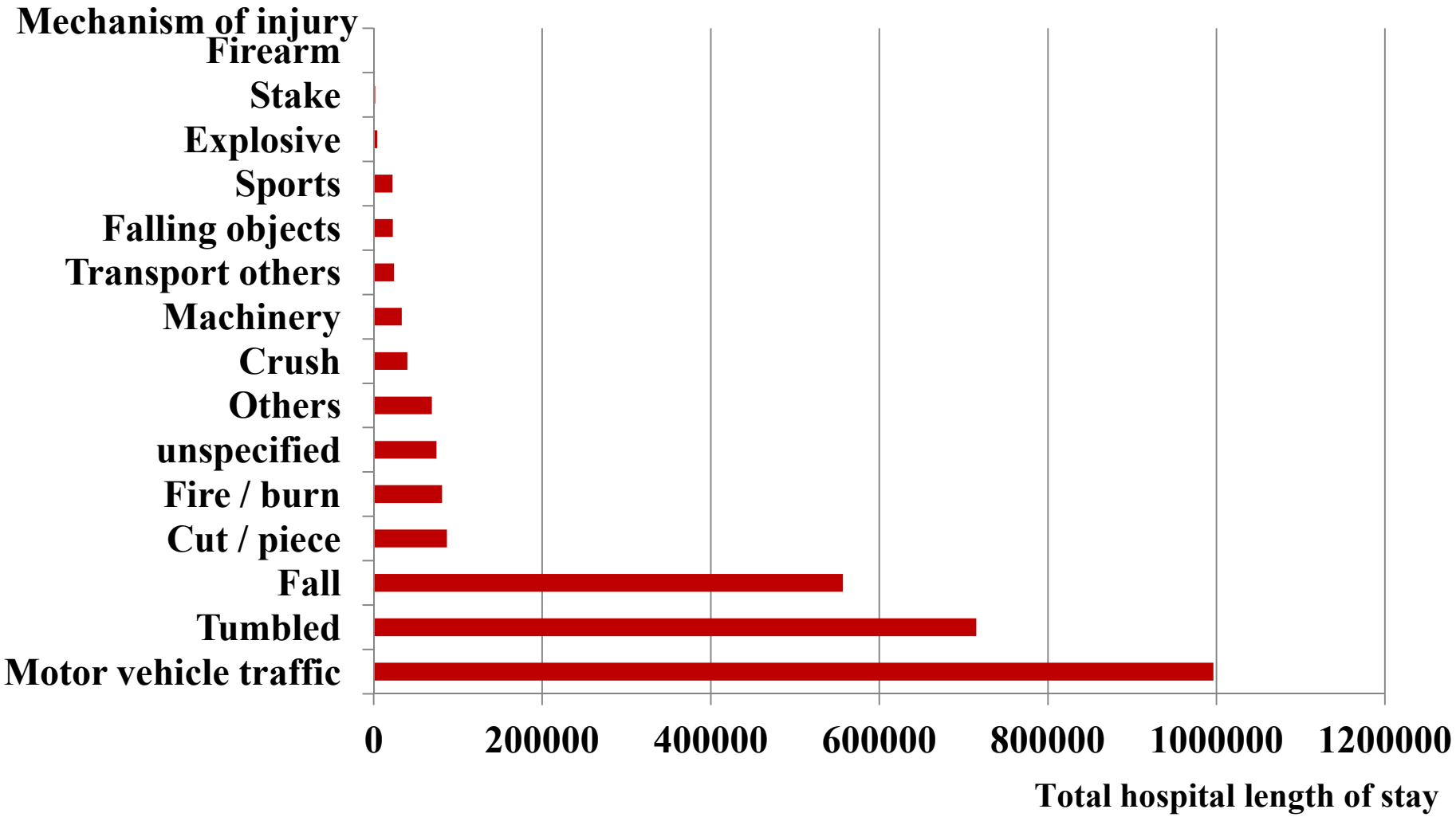
| Mechanism / Length of hospital days | Motor vehicle traffic | Fall | Tumbled | unspecified | Fire / burn | Other blunt/penetrating | Transport others | Cut / piece |
|---|---|---|---|---|---|---|---|---|
| within 1 day | 2629 | 2163 | 152 | 294 | 123 | 148 | 203 | 202 |
| 2 - 7 days | 1146 | 651 |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

**Motor vehicle traffic includes pedal cyclist and pedestrian victims.**

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

Figure 12

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




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

Table 12

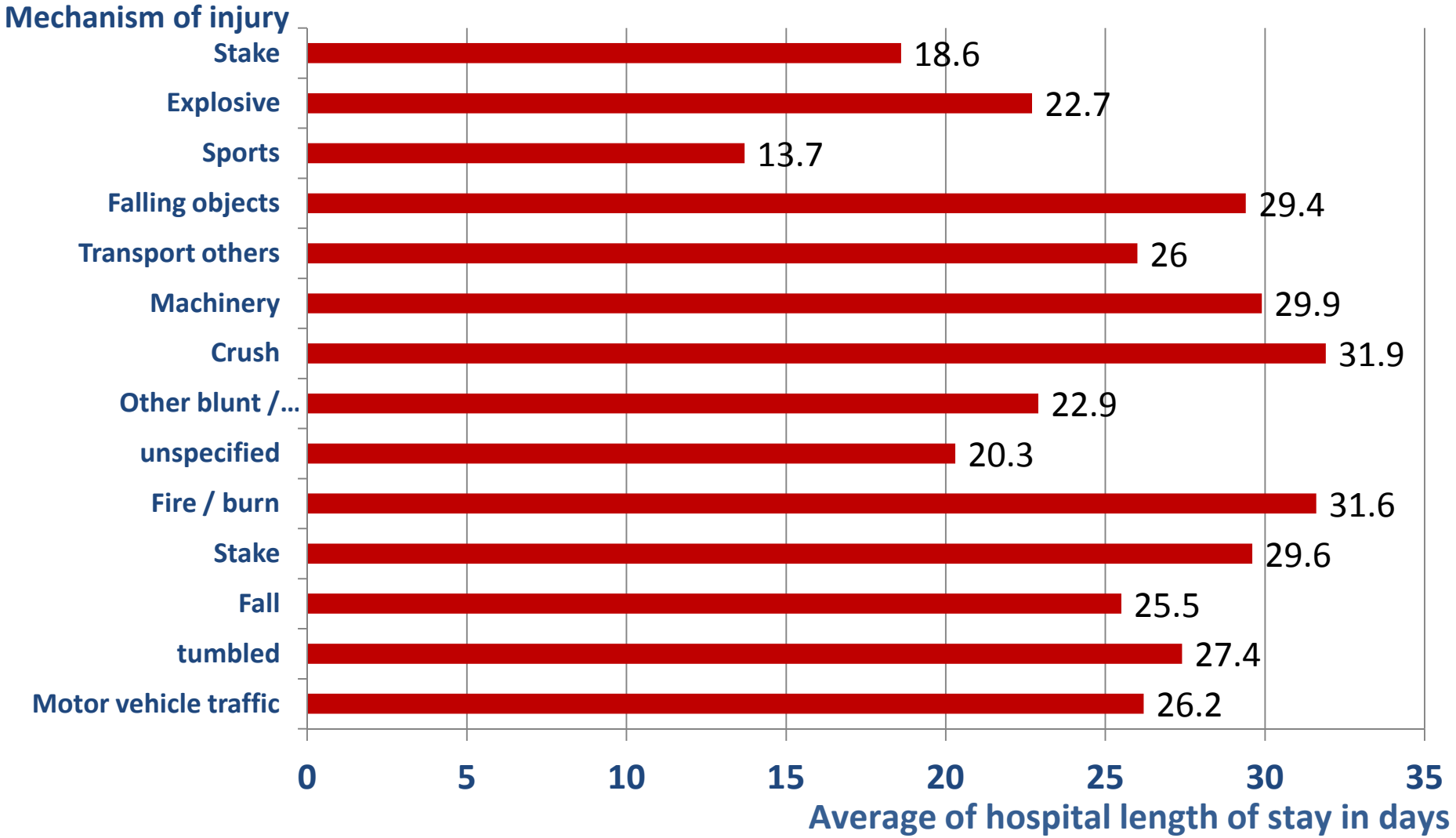
## Total and average hospital length of stay by mechanism of injury N = 104,098

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

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

Figure 13

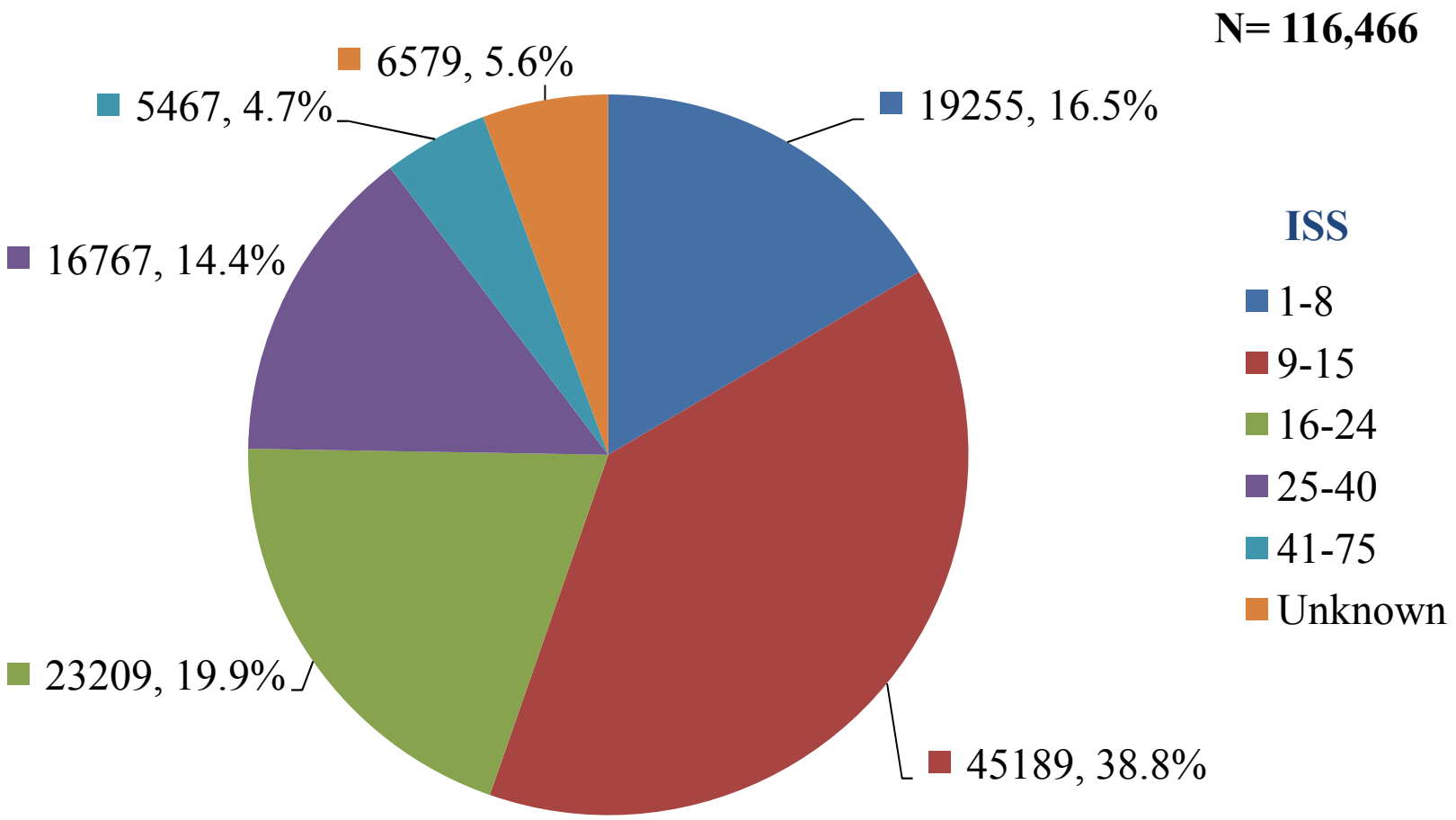
## Average hospital length of stay by mechanism of injury N = 104,098




**Motor vehicle traffic includes pedal cyclist and pedestrian victims.**

Figure 14

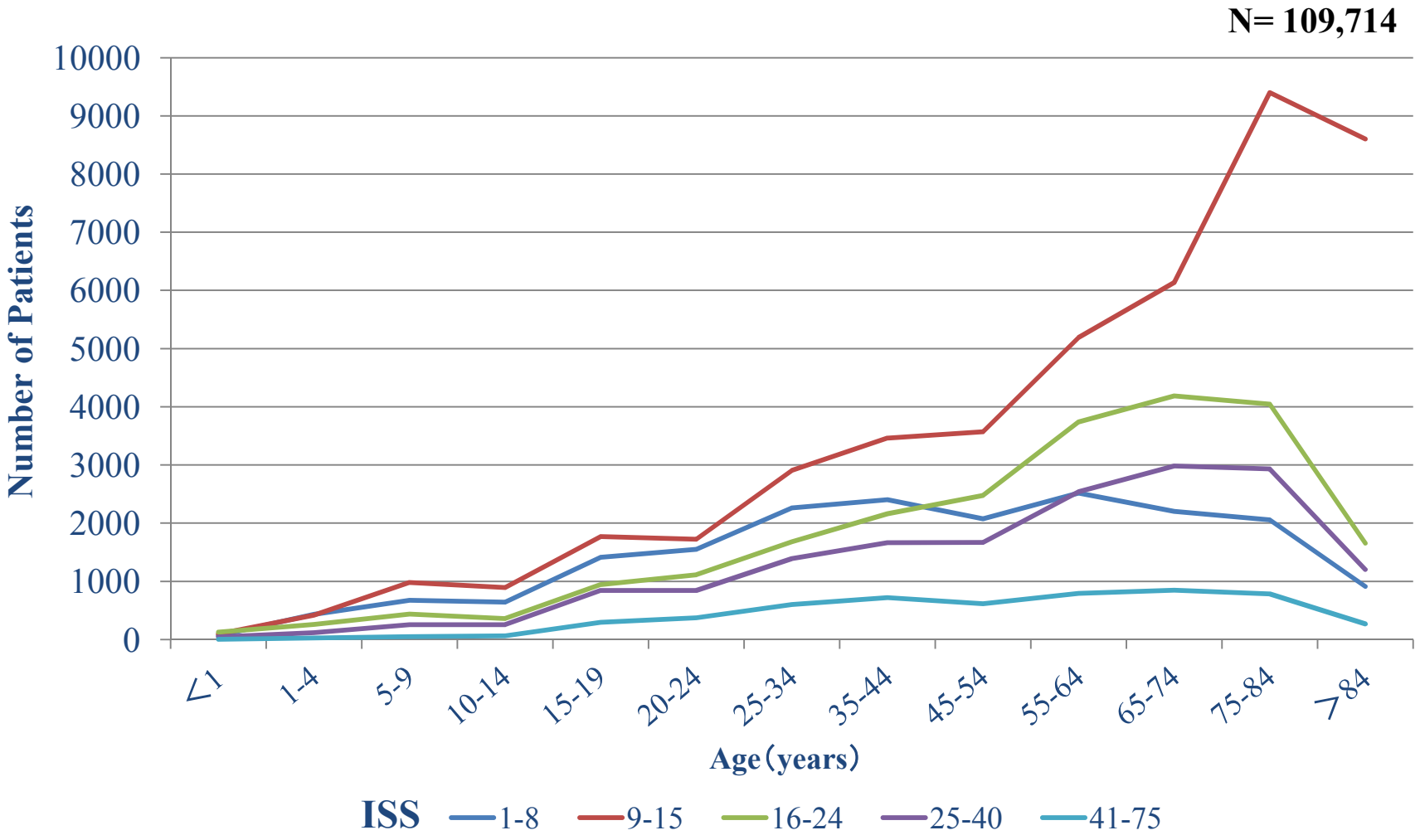
## Patients and Injury Severity Score (ISS)




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

Figure 15

## Patients by ISS and Age




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

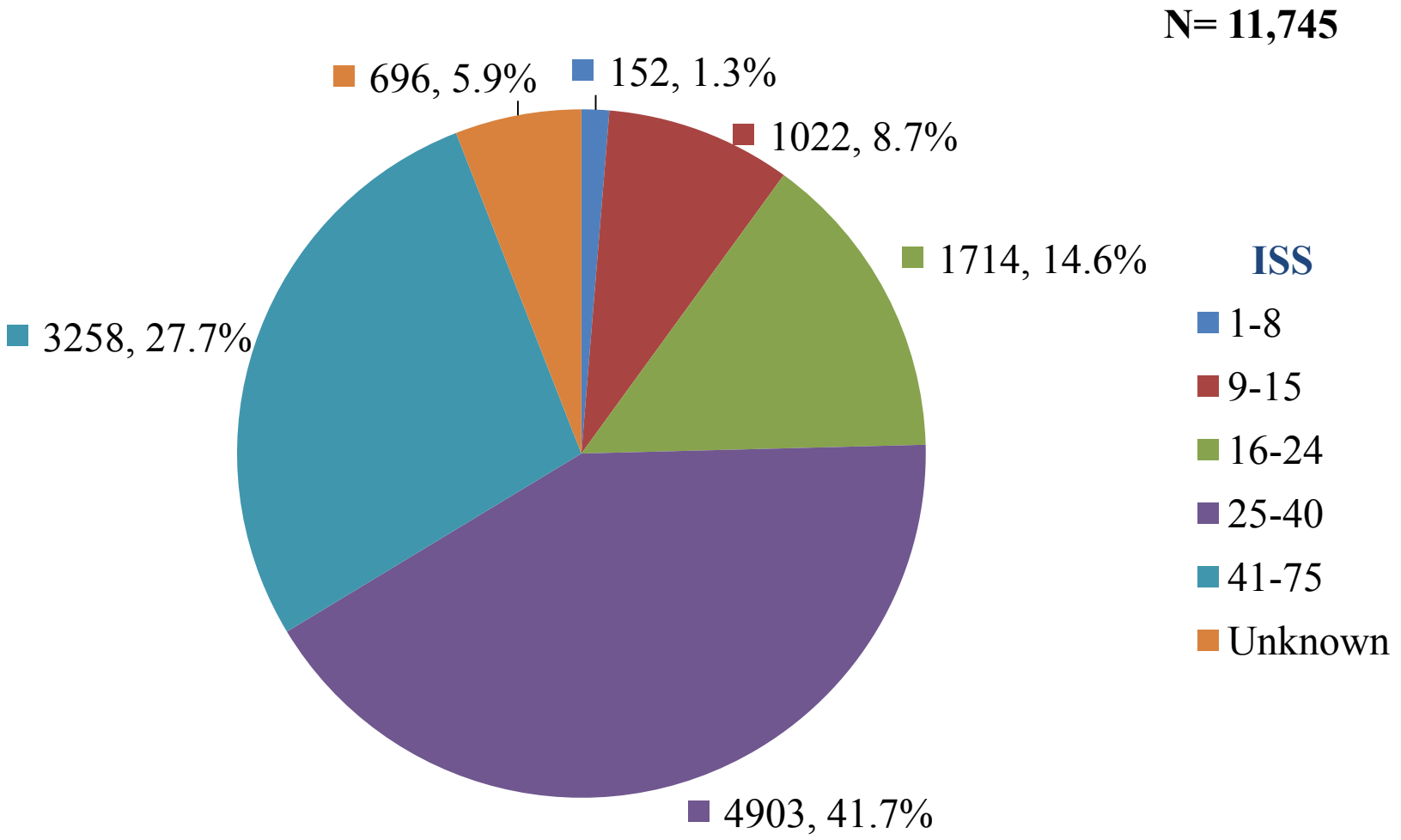
Table 15

# Patients by ISS and Age

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

Figure 16A

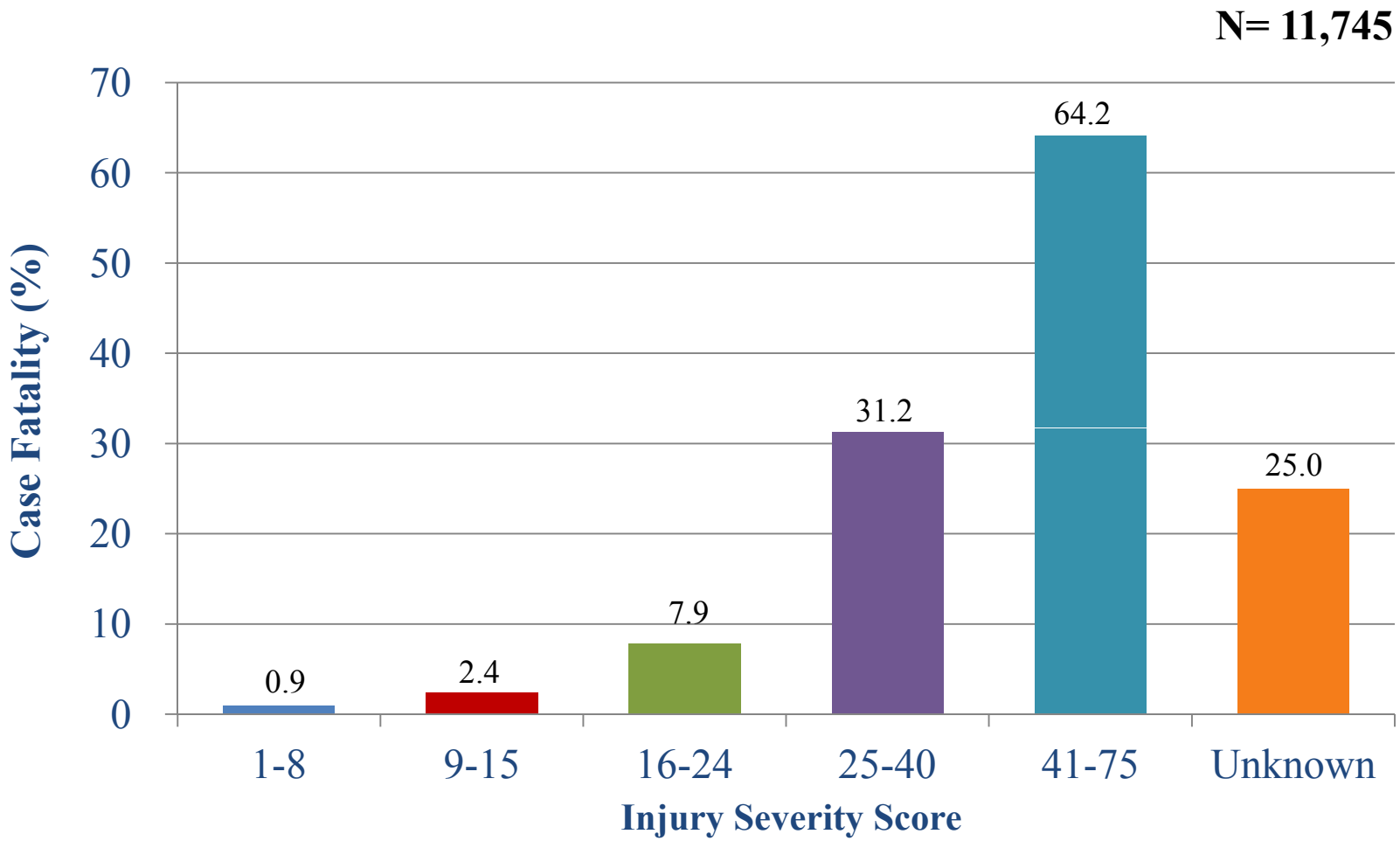
## Deaths and Injury Severity Score (ISS)




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

Figure 16B

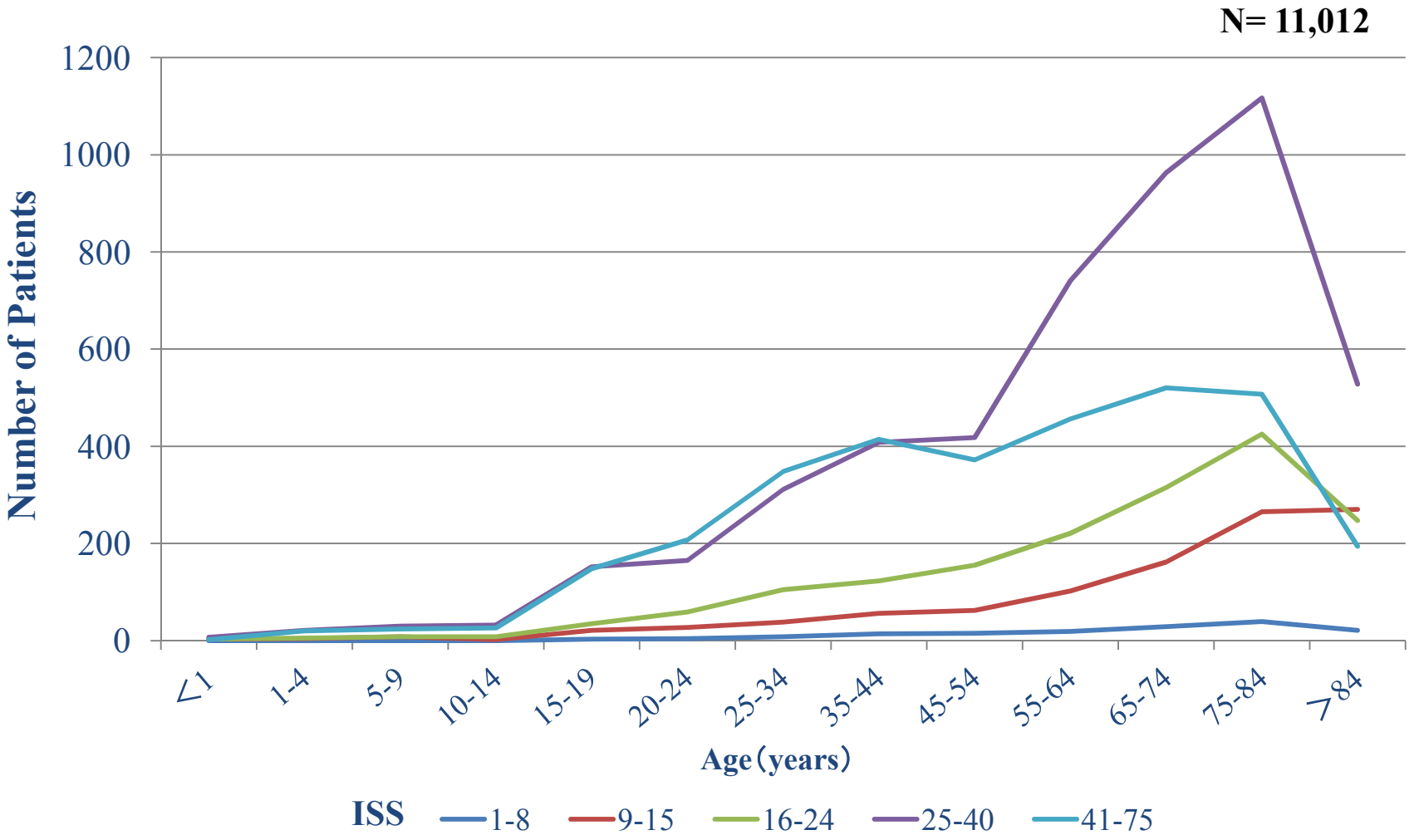
## Case Fatality by Injury Severity Score (ISS) Range




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

Figure 17

## Deaths by ISS and Age




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

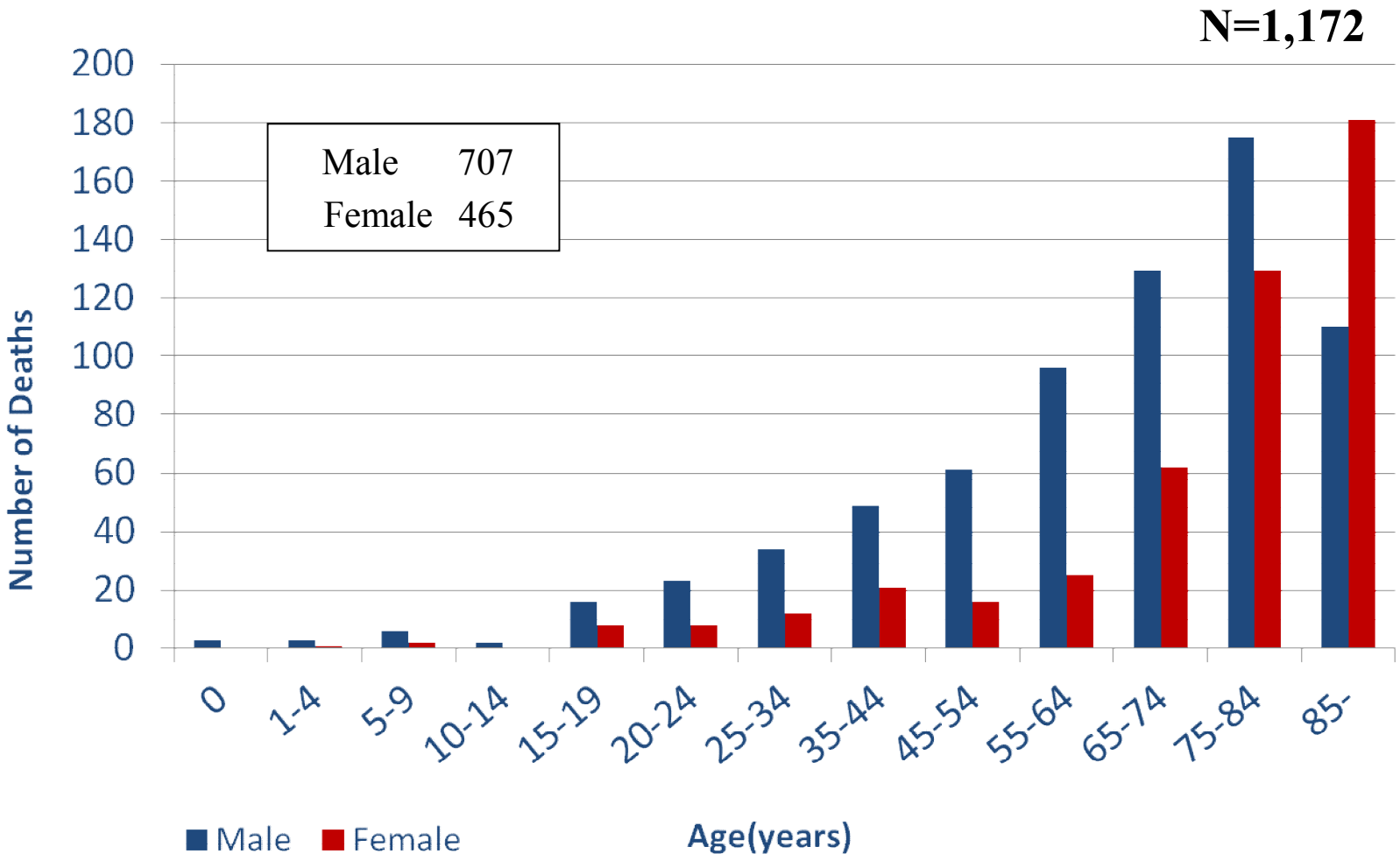
Table 17

# Deaths by ISS and Age

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

Figure 18

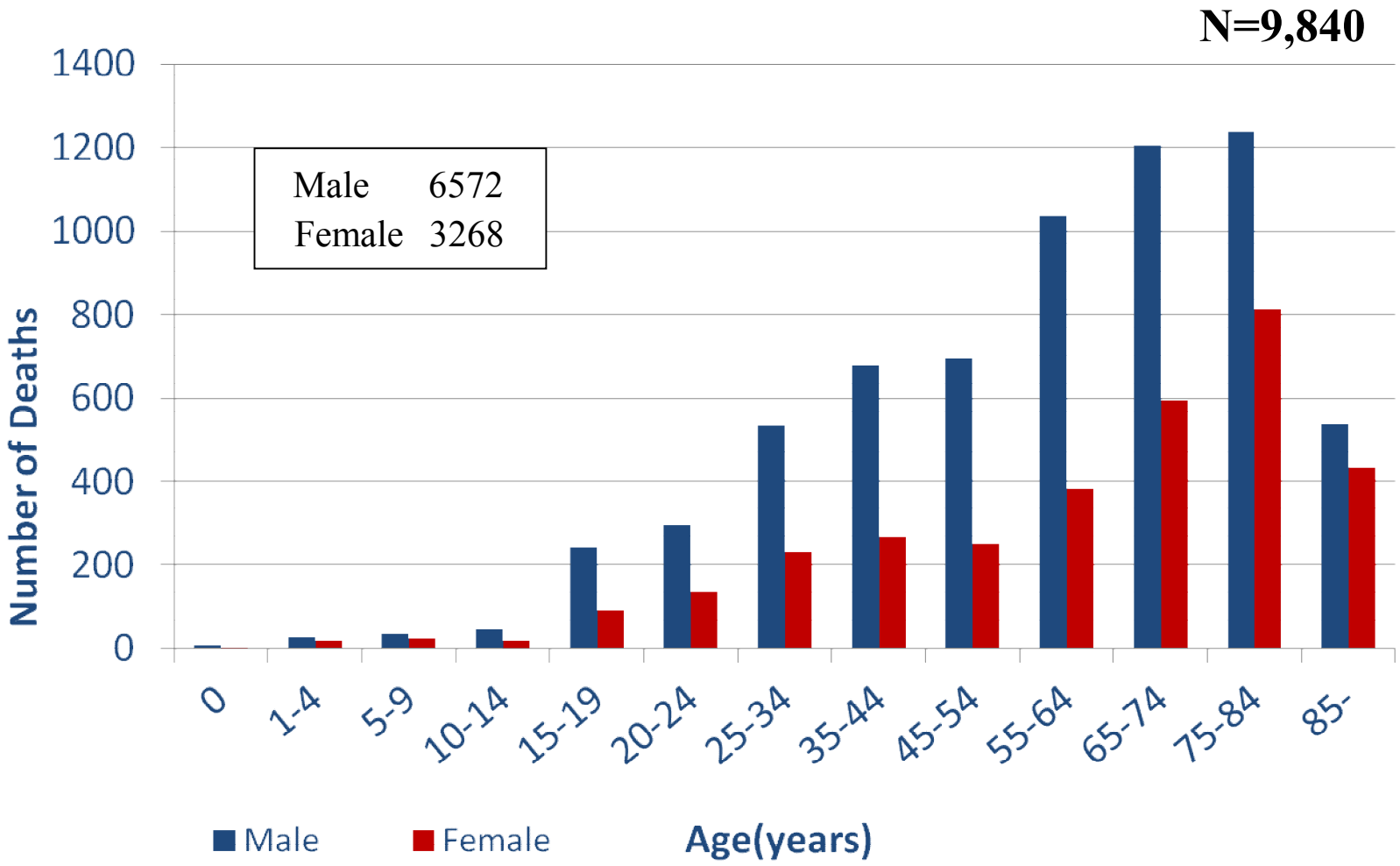
## Deaths by Age and Gender (ISS<=15)




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

Figure 19

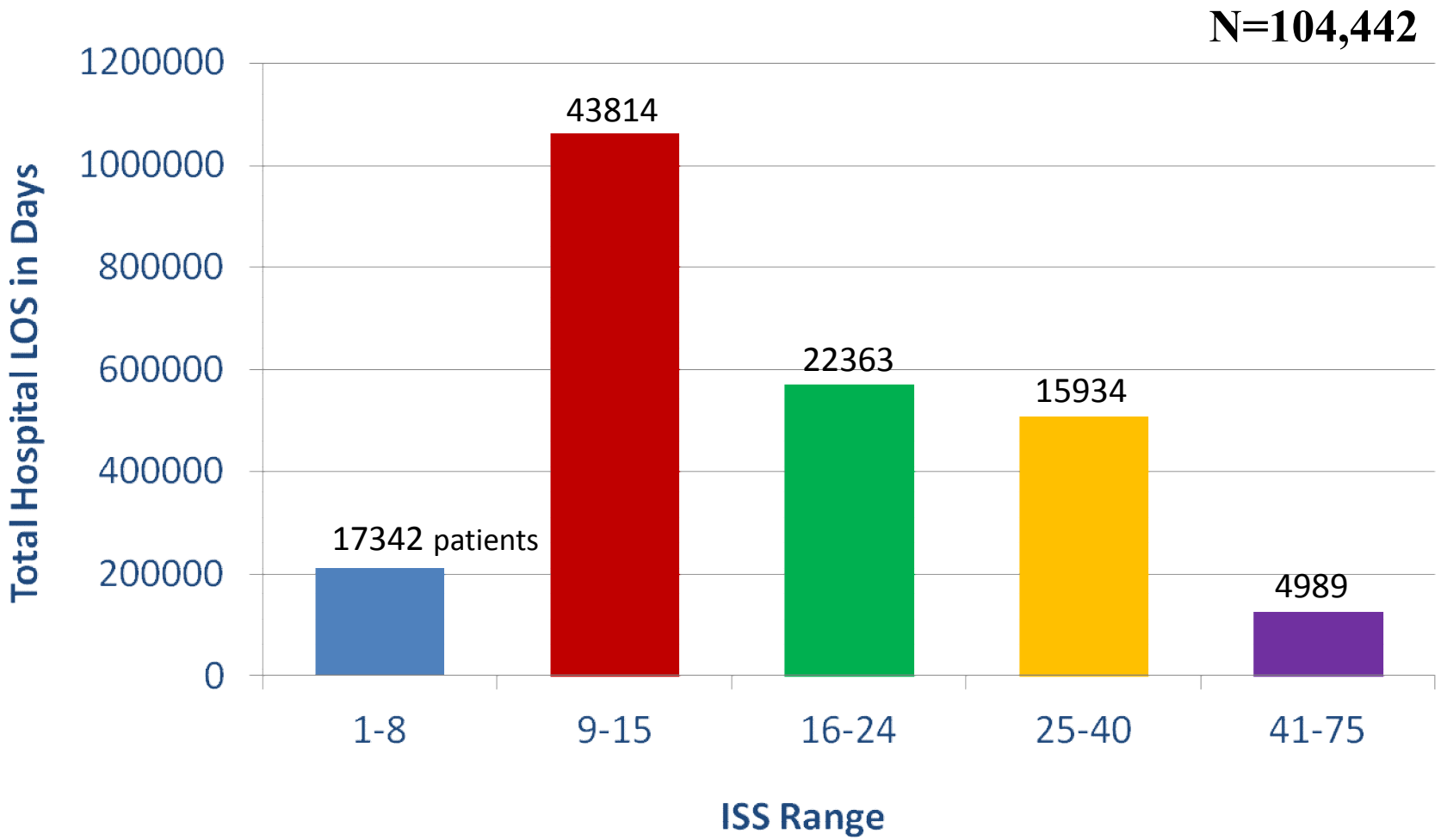
## Deaths by Age and Gender (ISS>15)




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

Figure 20A

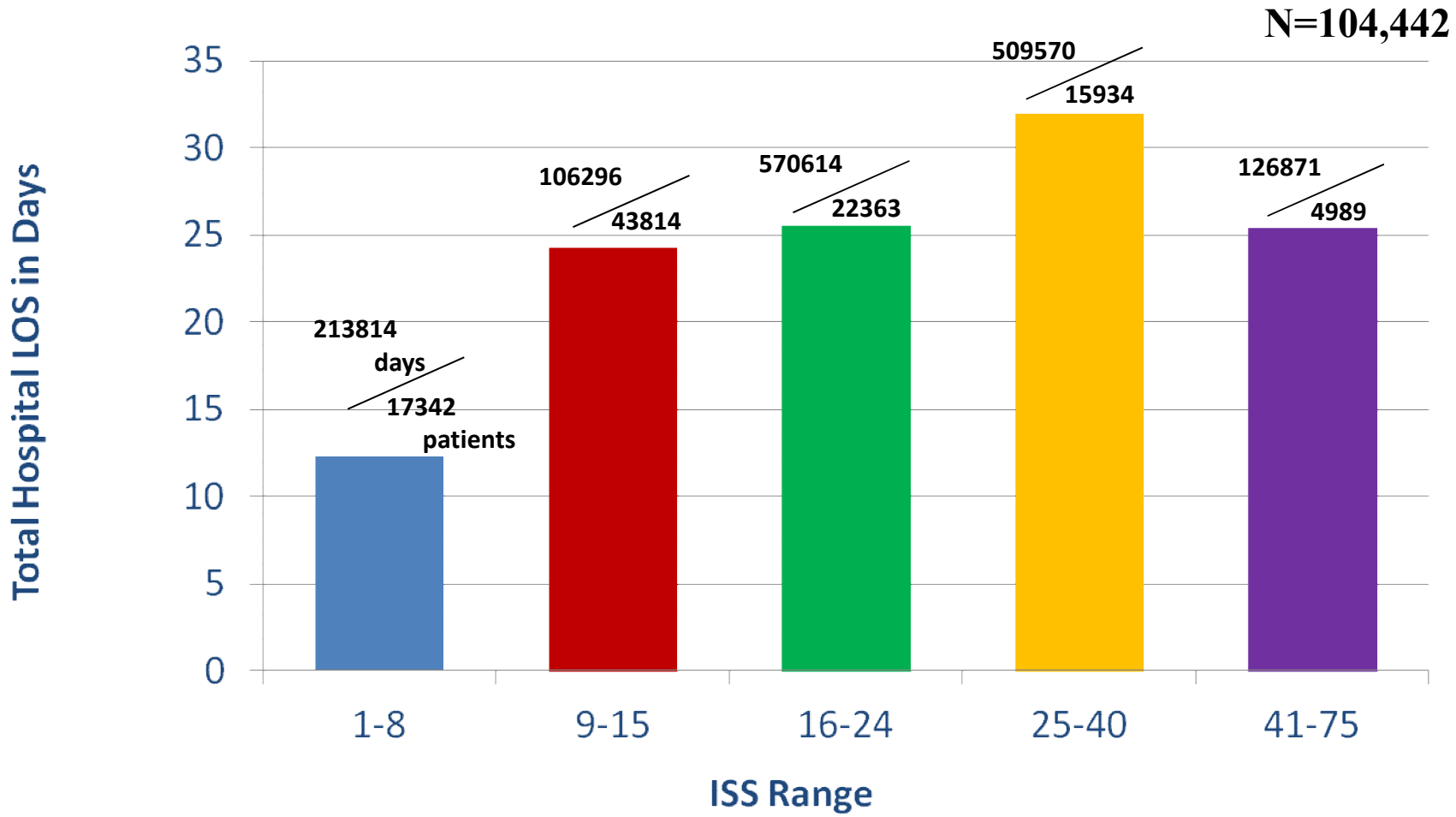
## Total Hospital LOS and Injury Severity Score (ISS)




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

Figure 20B

## Average Hospital LOS and Injury Severity Score




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

Figure 21

## Distribution of patients by probability of survival (Ps)

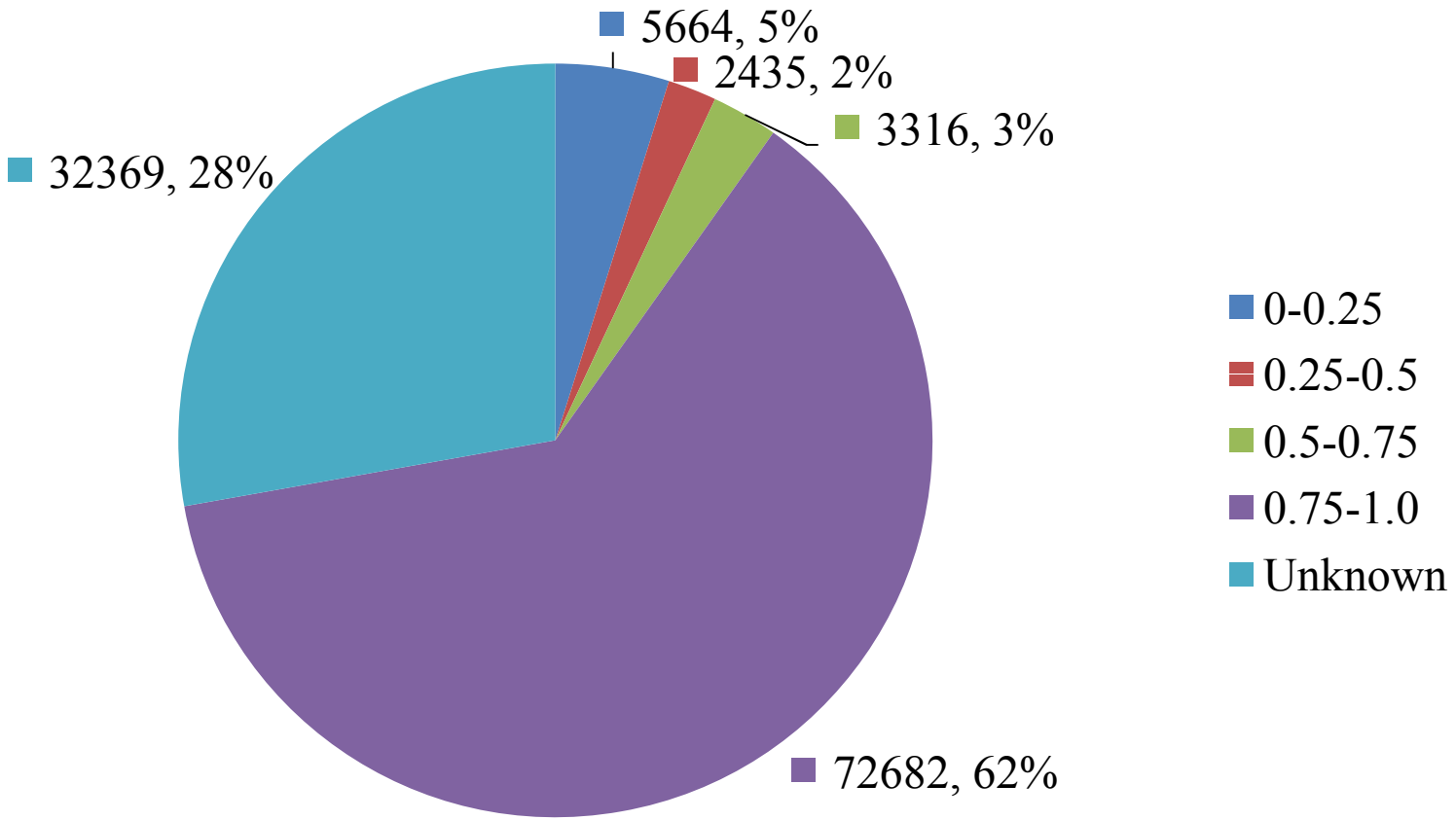


Figure 22A

## Distribution of deaths by probability of survival (Ps)

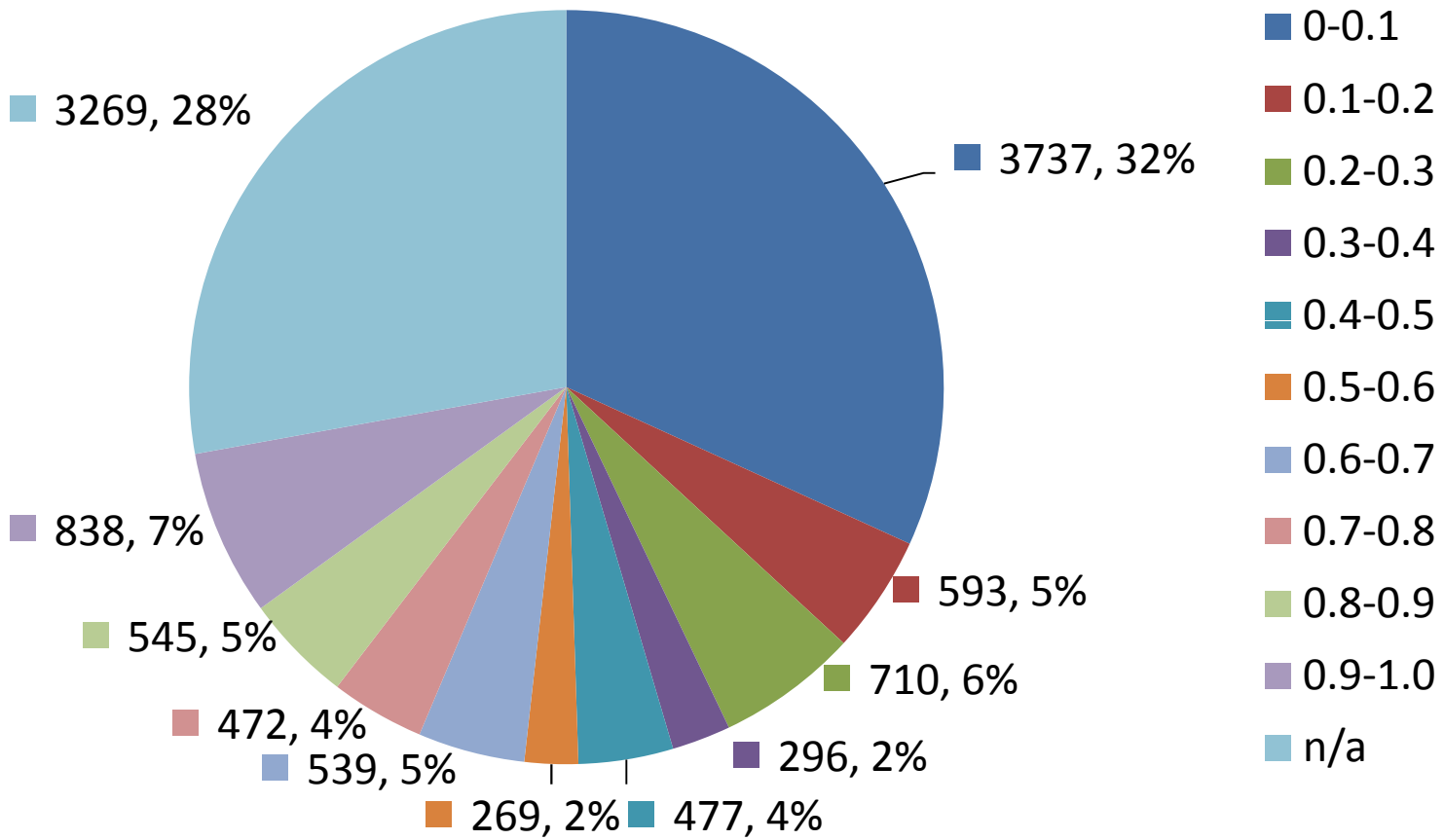


Figure 22B

## Case fatality by probability of survival (Ps)

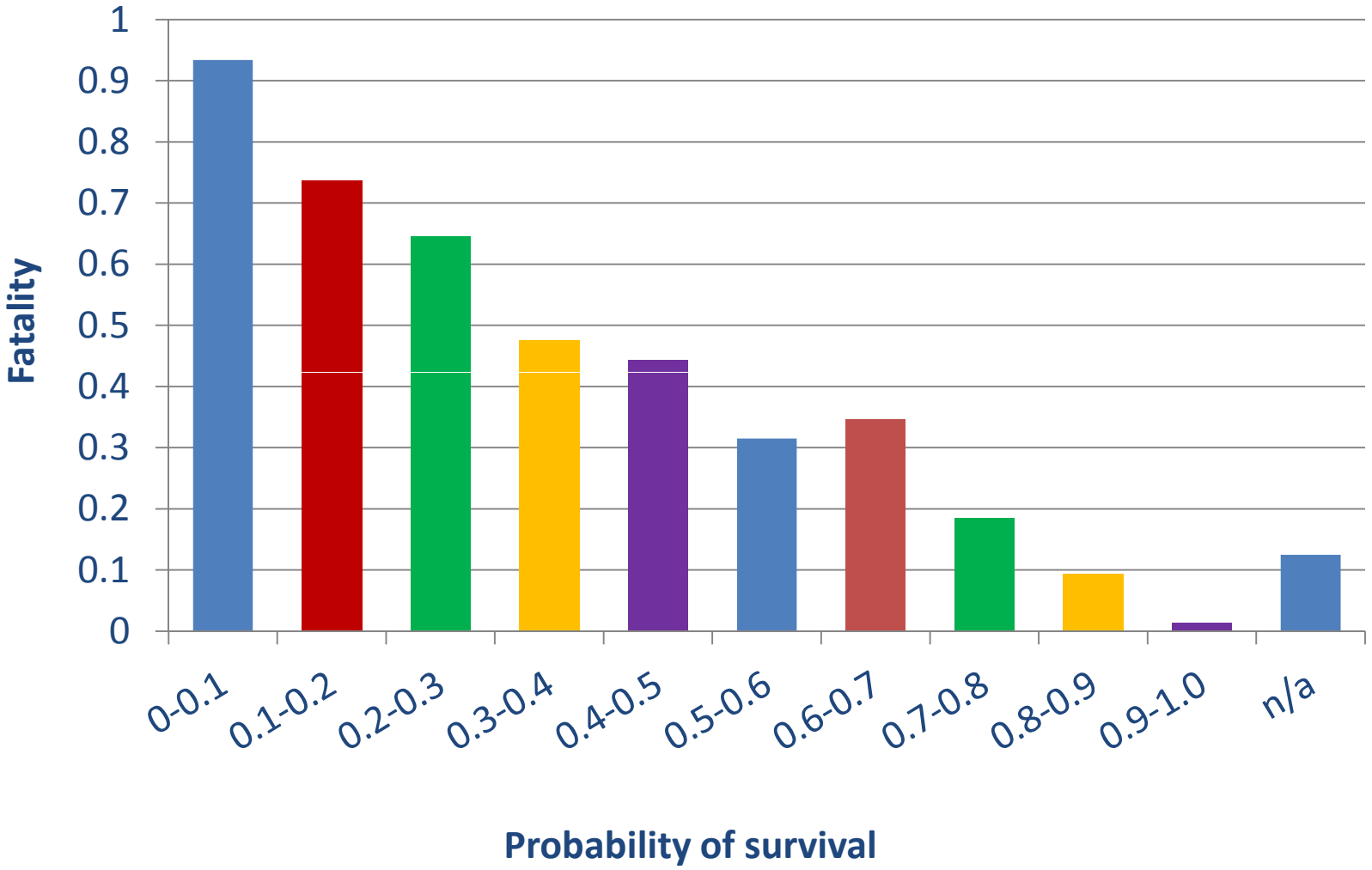


Figure 23

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

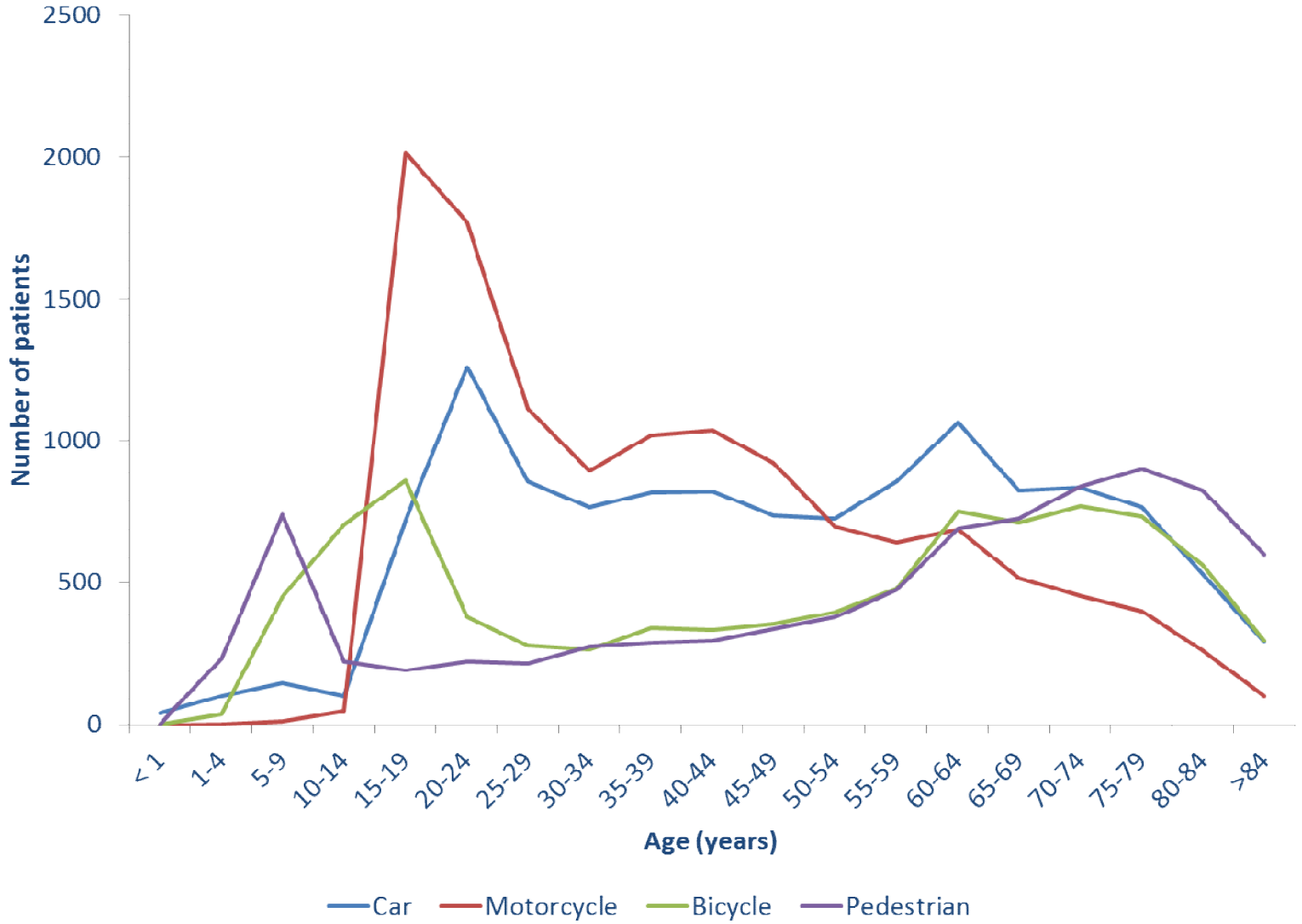


Figure 24

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

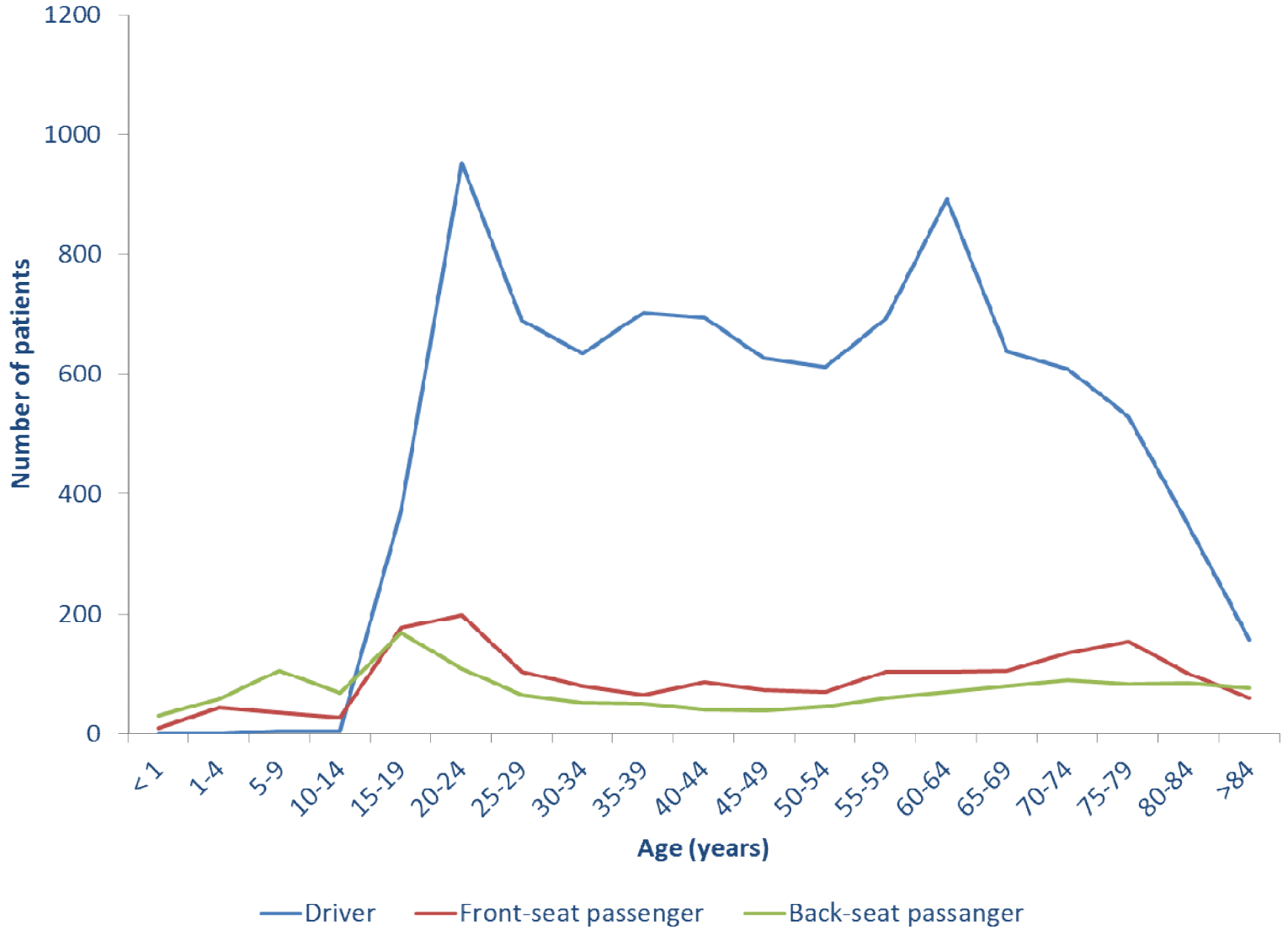


Figure 25

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

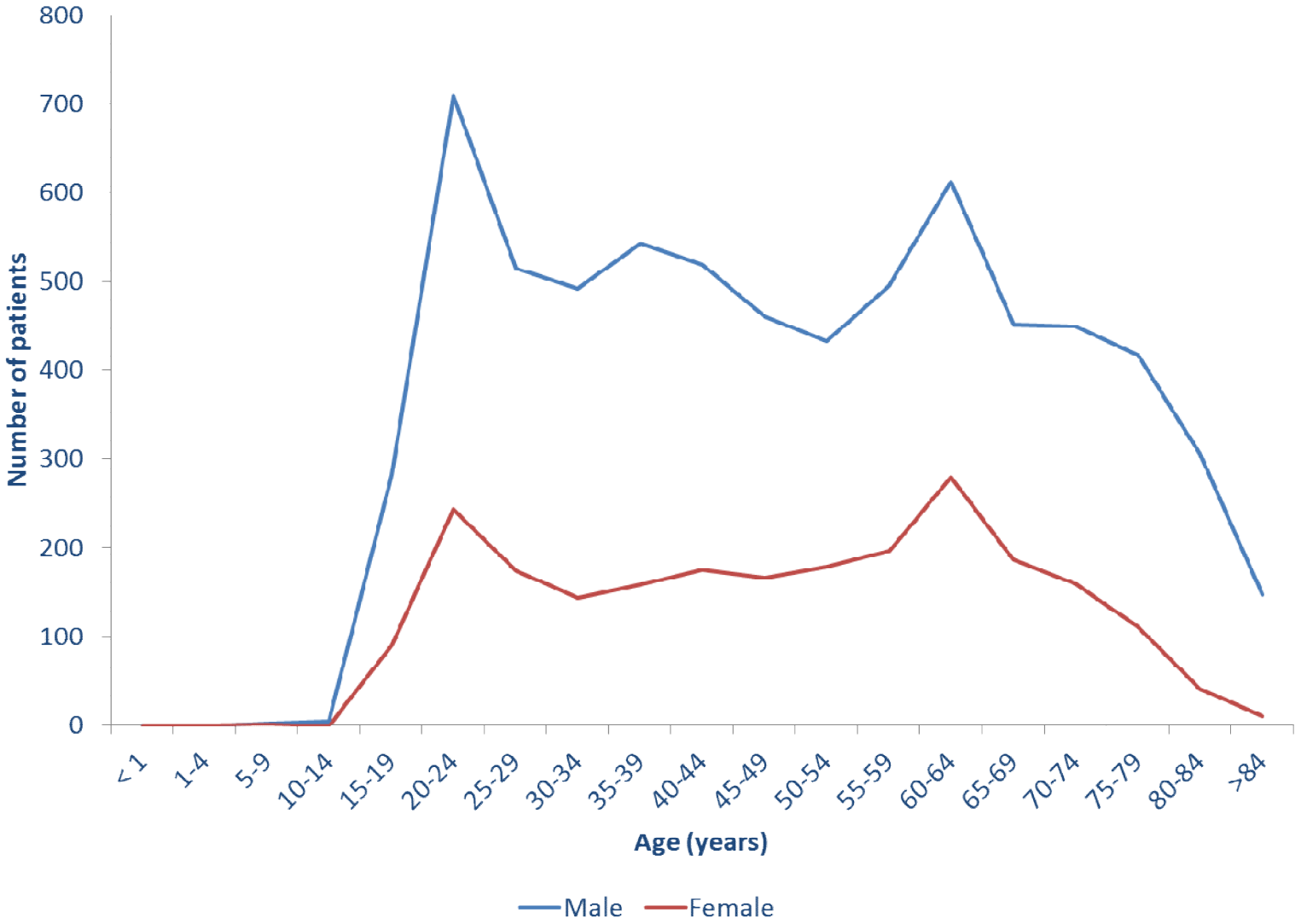


Figure 26

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

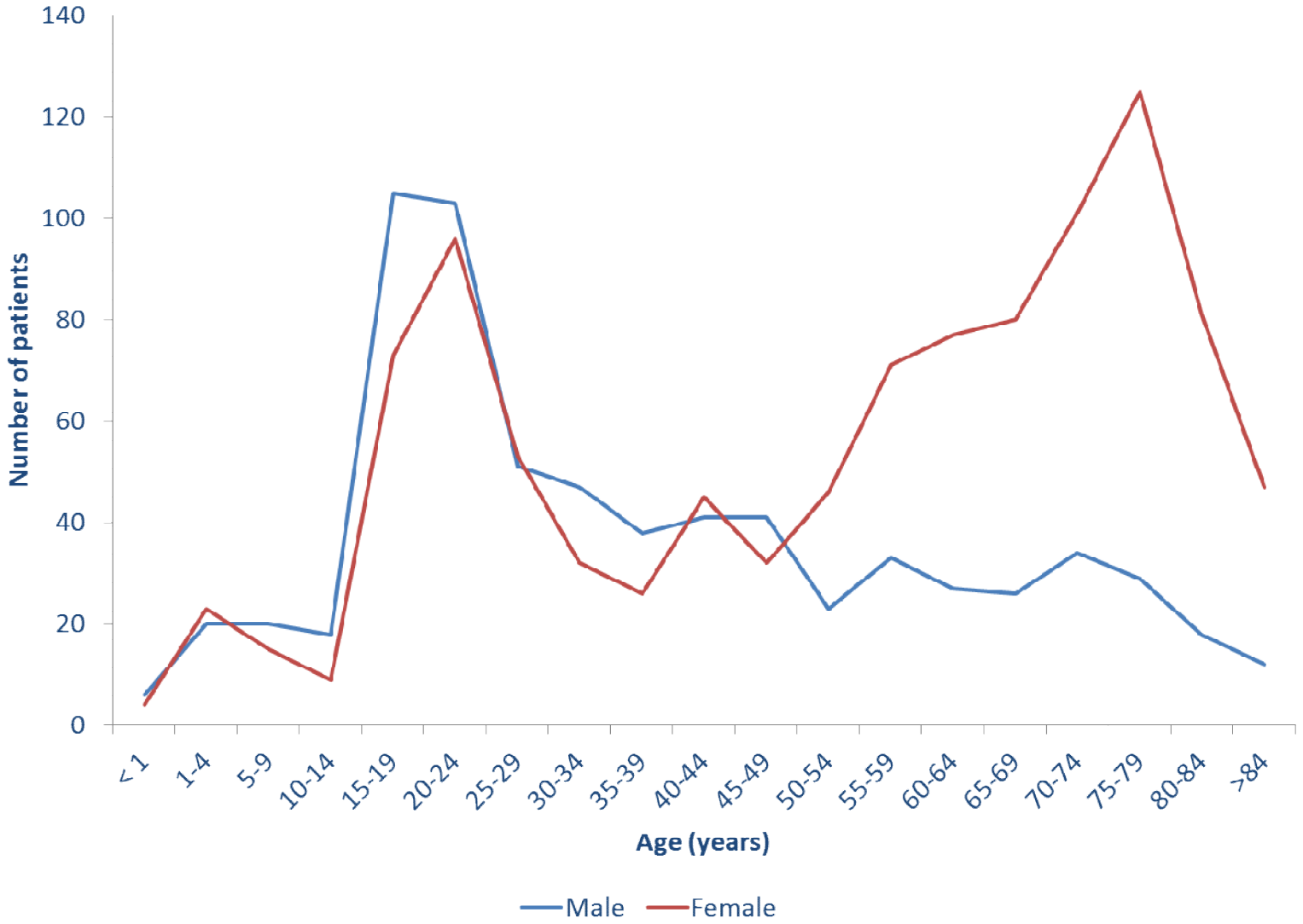
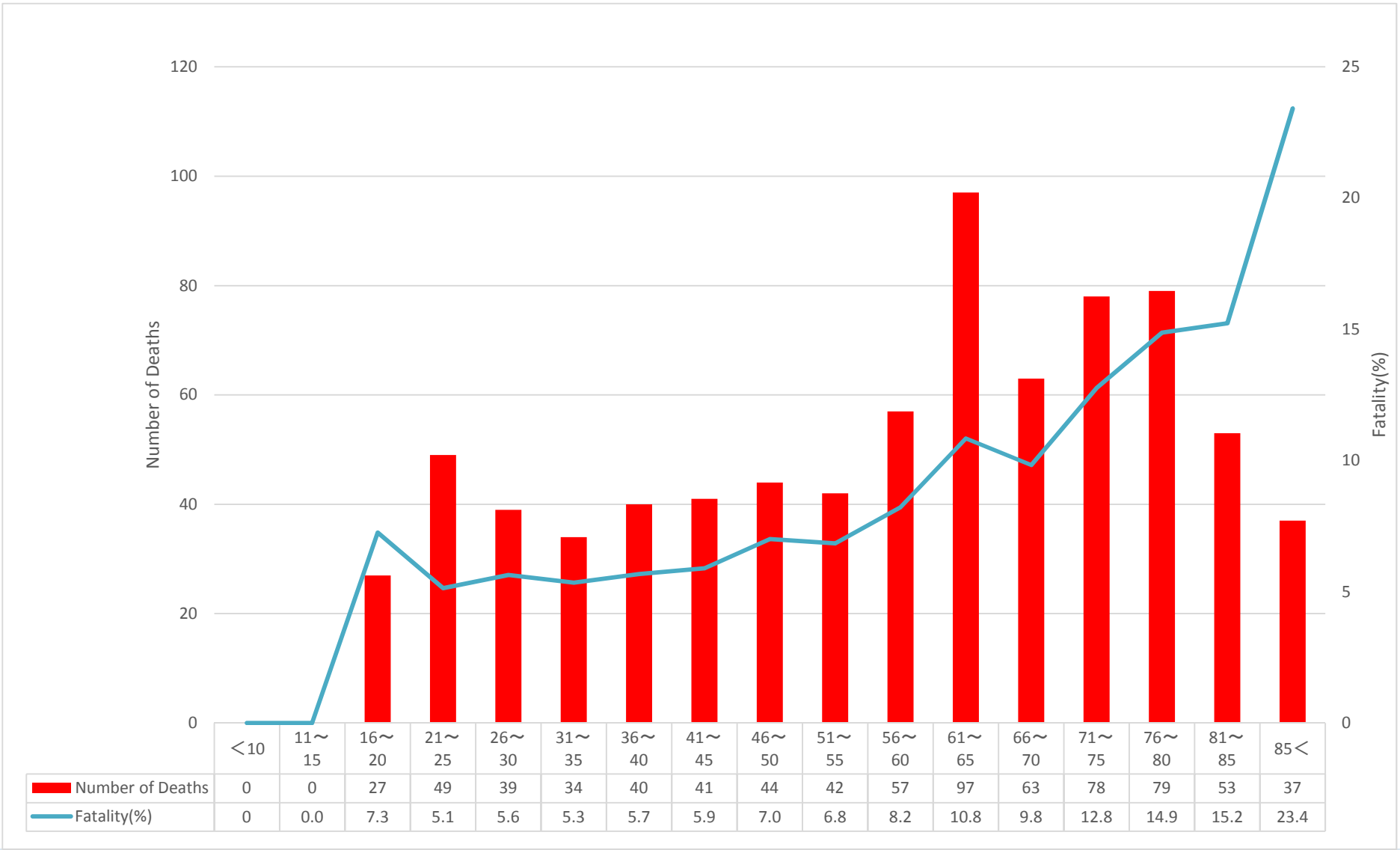


Figure 27

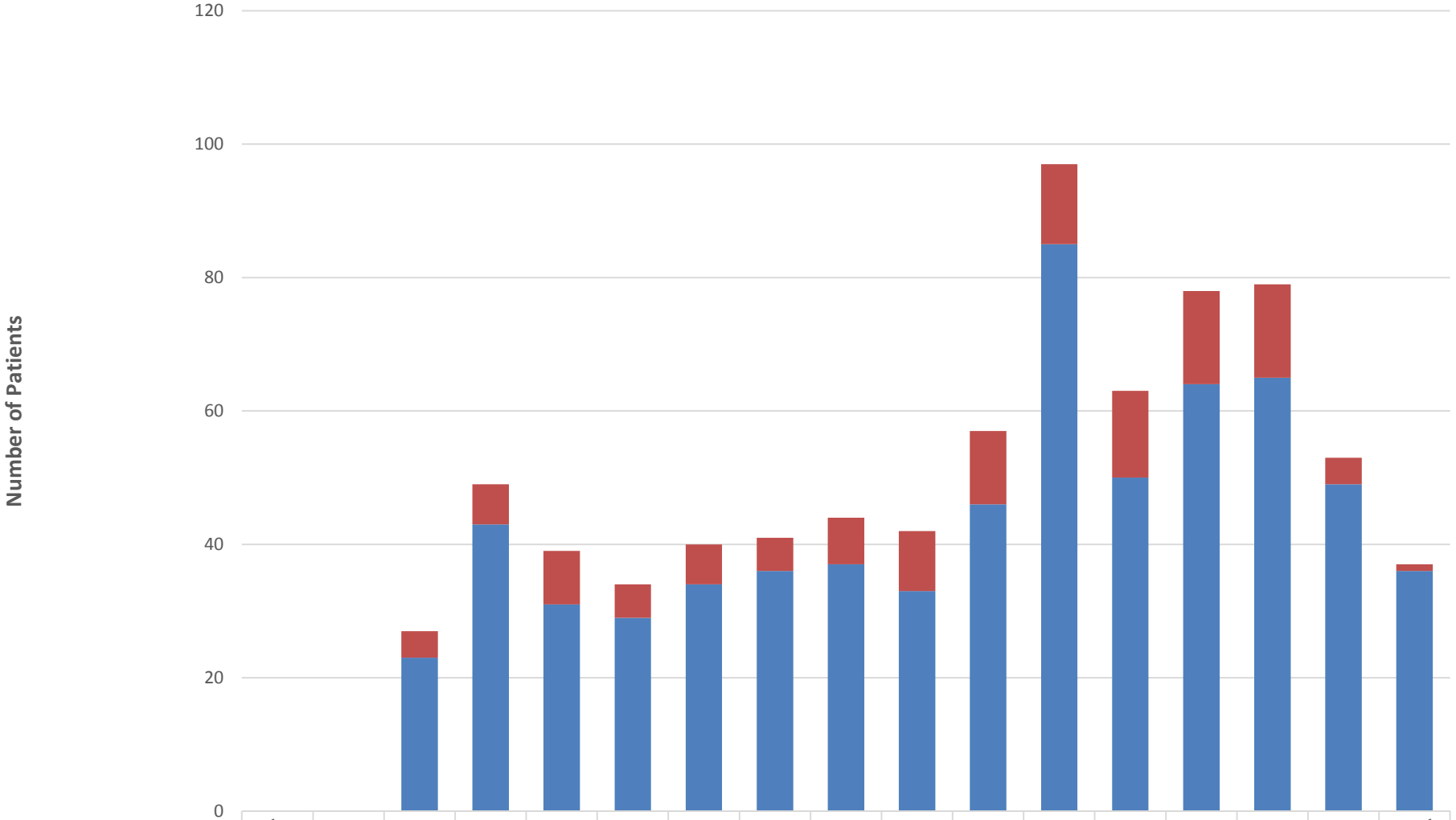
# Number of Deaths and Fatalities of Motor Vehicular Drivers by Age




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

Figure 28

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




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

Figure 29

## Proportional distribution of registered patients, grouped by intent

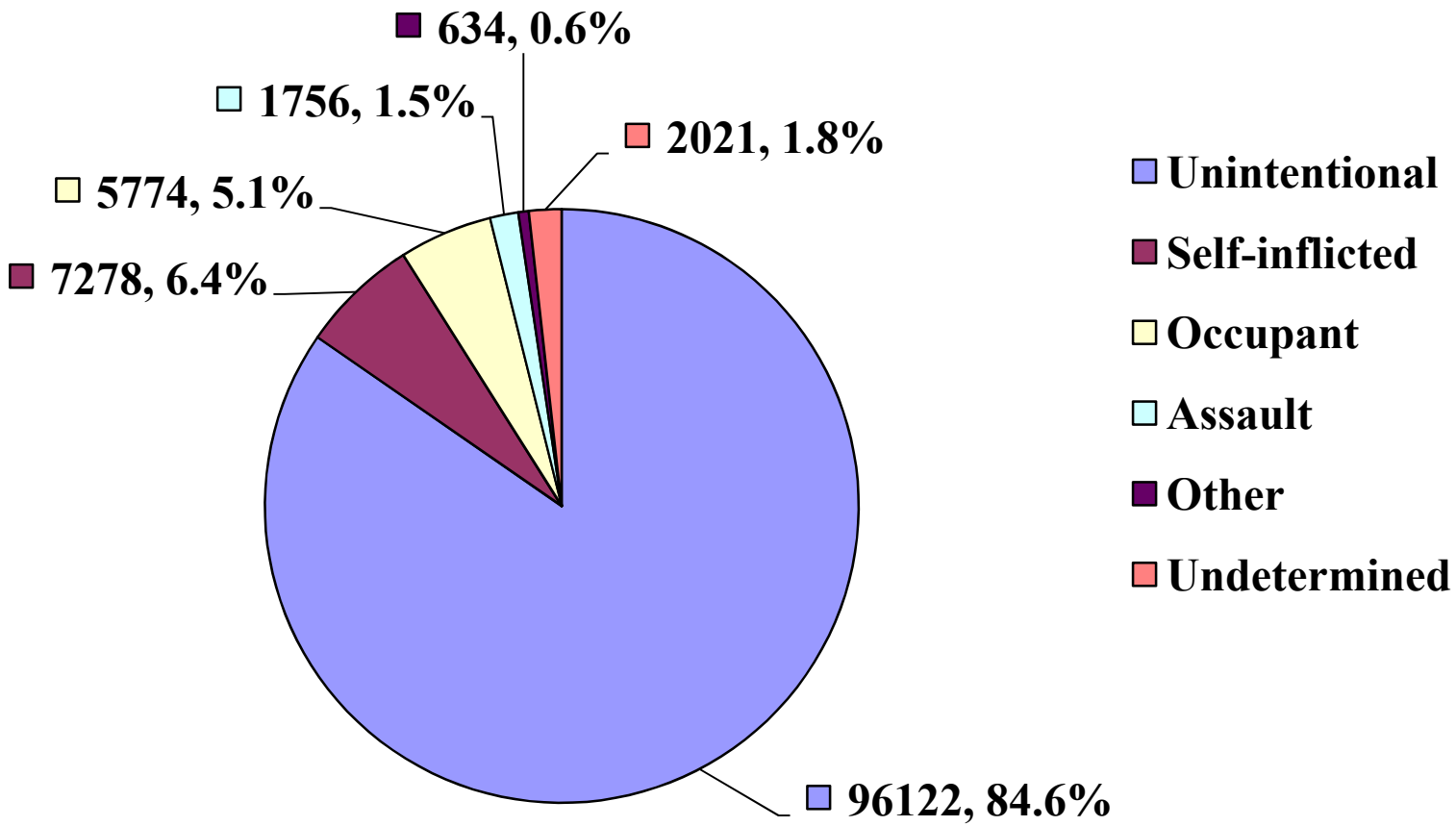


Figure 30

## Proportional distribution of deaths, grouped by intent

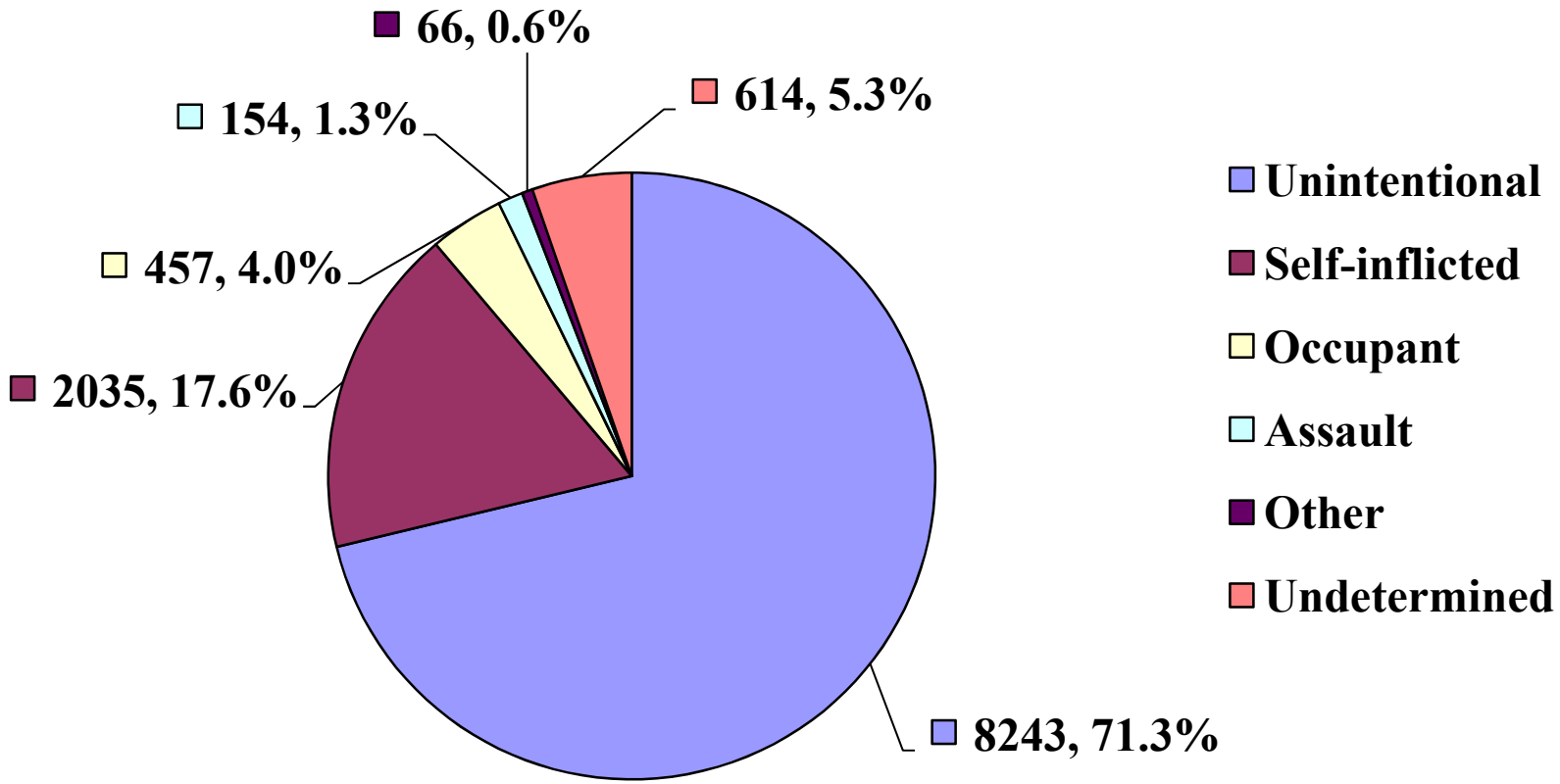


Figure 31

## Gender proportion of Unintentional and Occupant

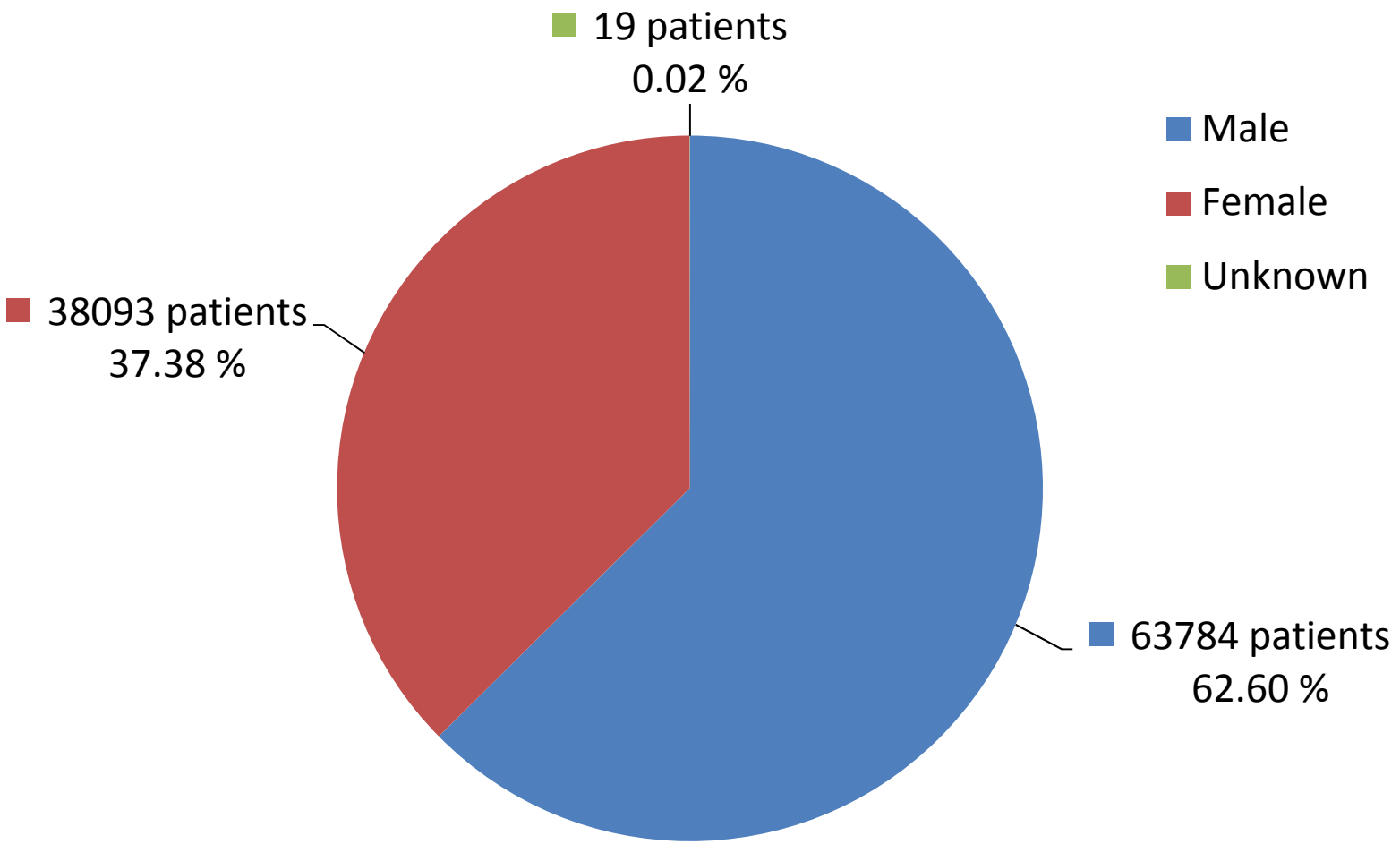


Figure 32

## Unintentional and Occupant by Age and Gender

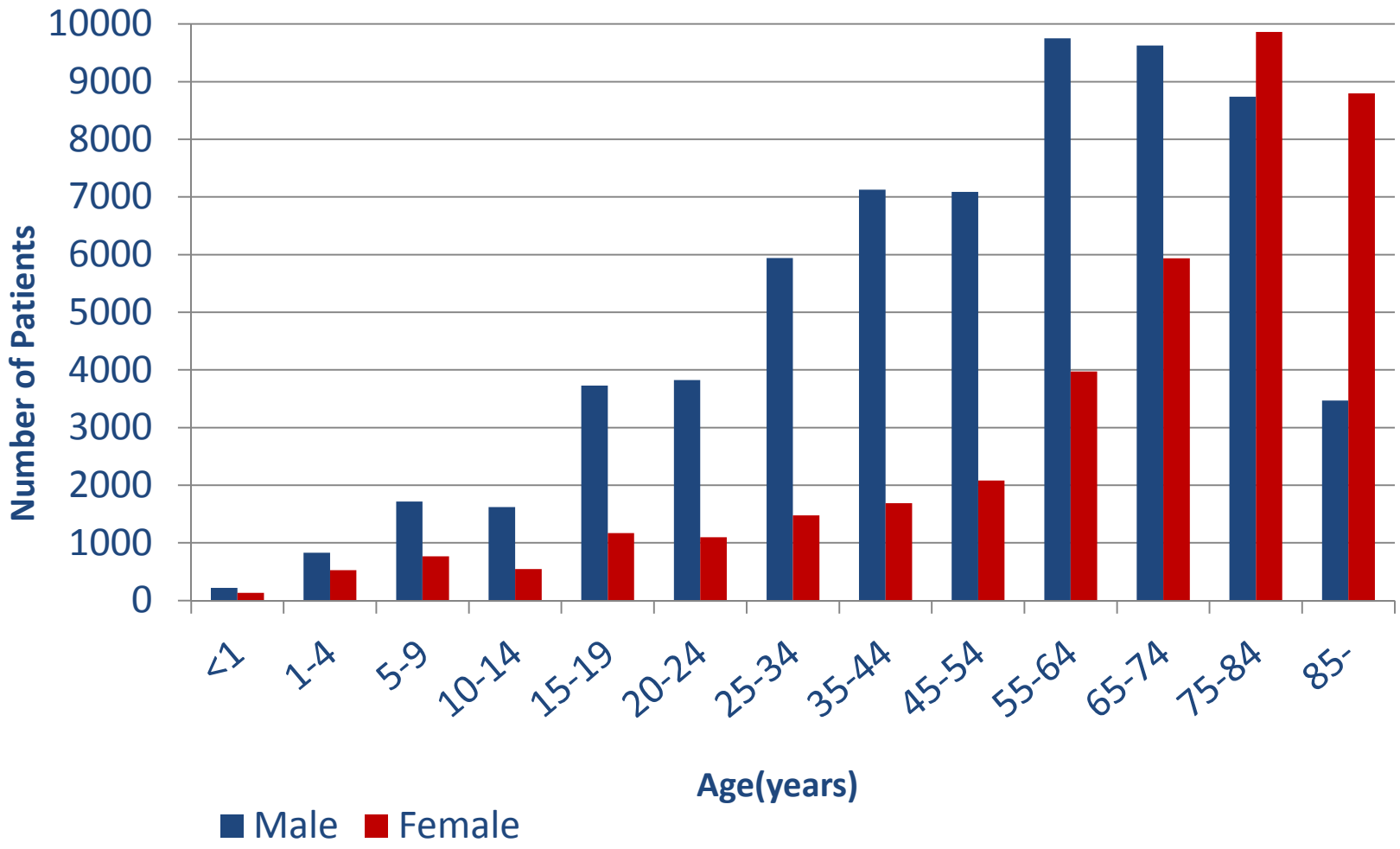


Table 32

## Unintentional and Occupant by Age and Gender

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

Figure 33

## Assault by Age and Gender

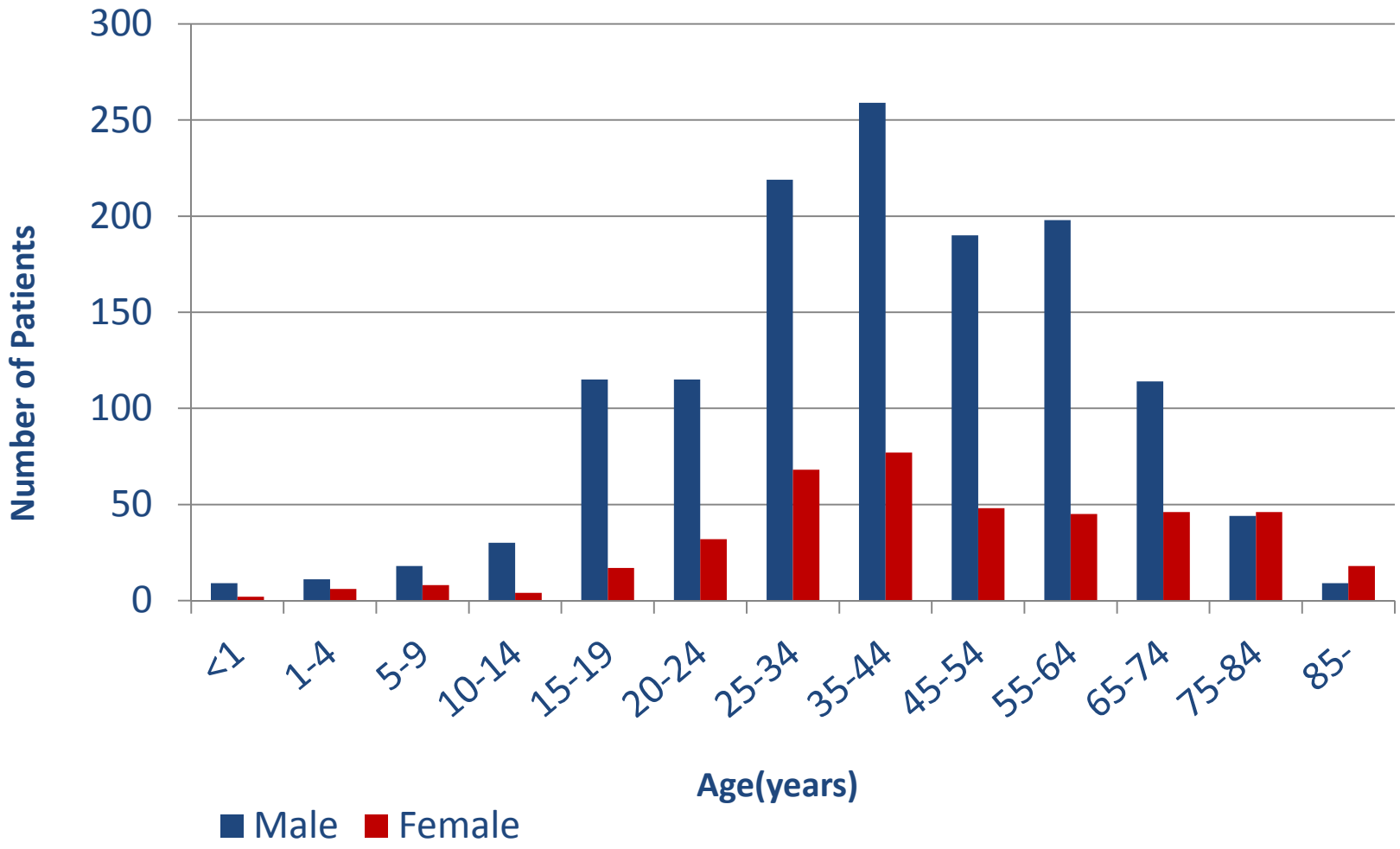


Table 33

## Assault by Age and Gender

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

Figure 34

## Self-inflicted by Age and Gender

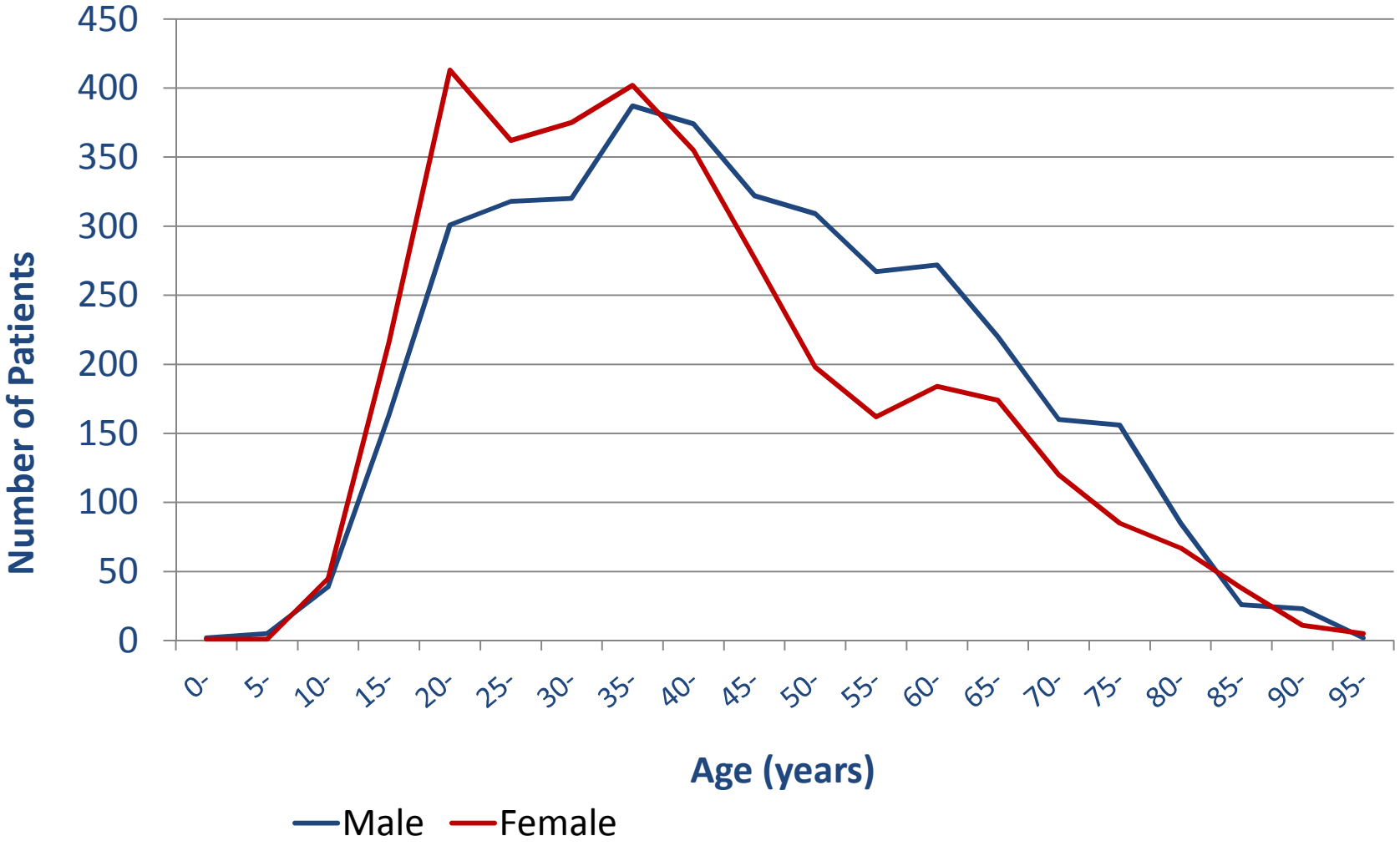


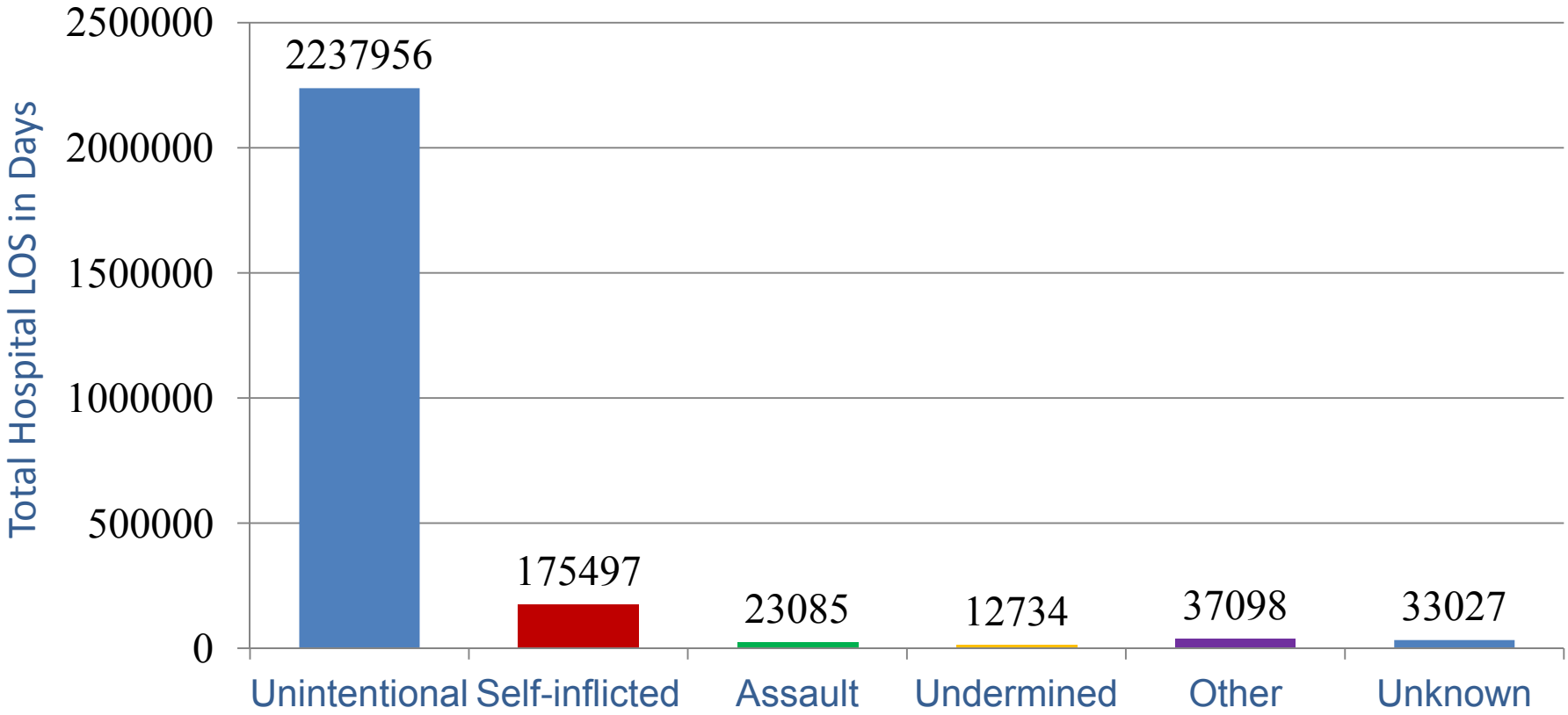
Table 34

# Self-inflicted by Age and Gender

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

Figure 35A

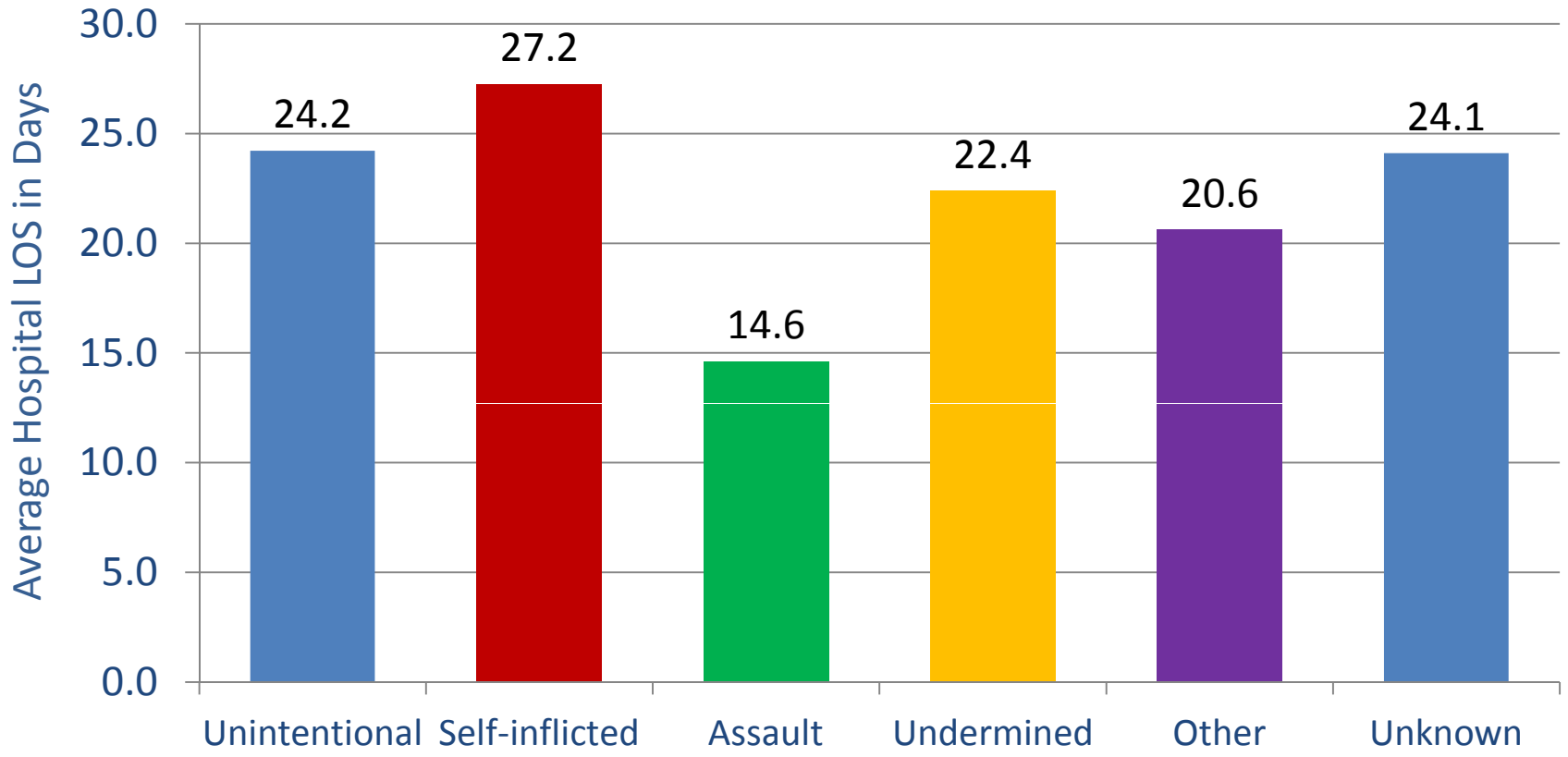
## Total Hospital LOS by Intent




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

Figure 35B

## Average Hospital LOS by Intent




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

Figure 36

## Number of patients with Injured Body Parts based on AIS

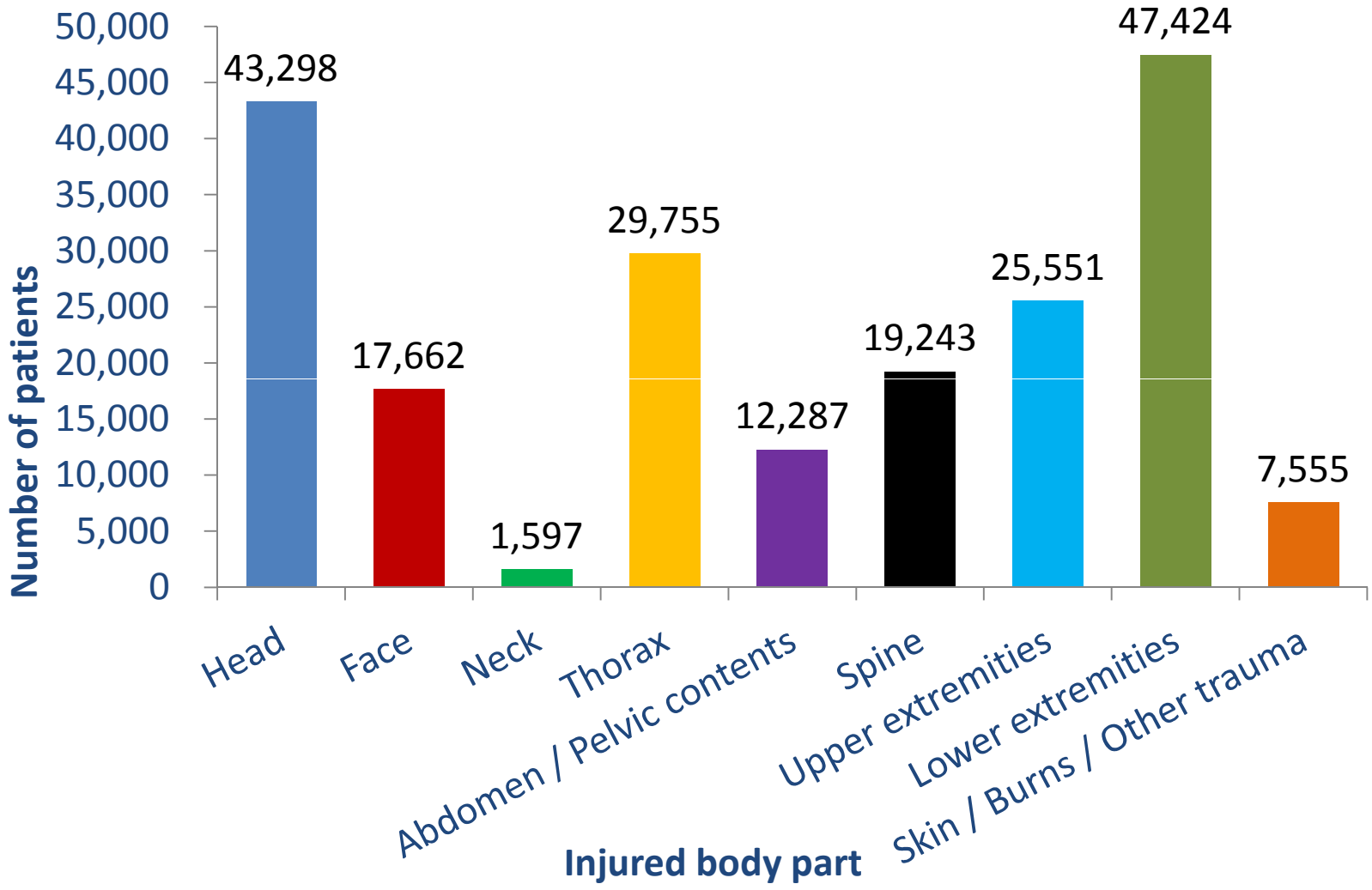


Figure 37A

## Head Injury and maxAIS Score

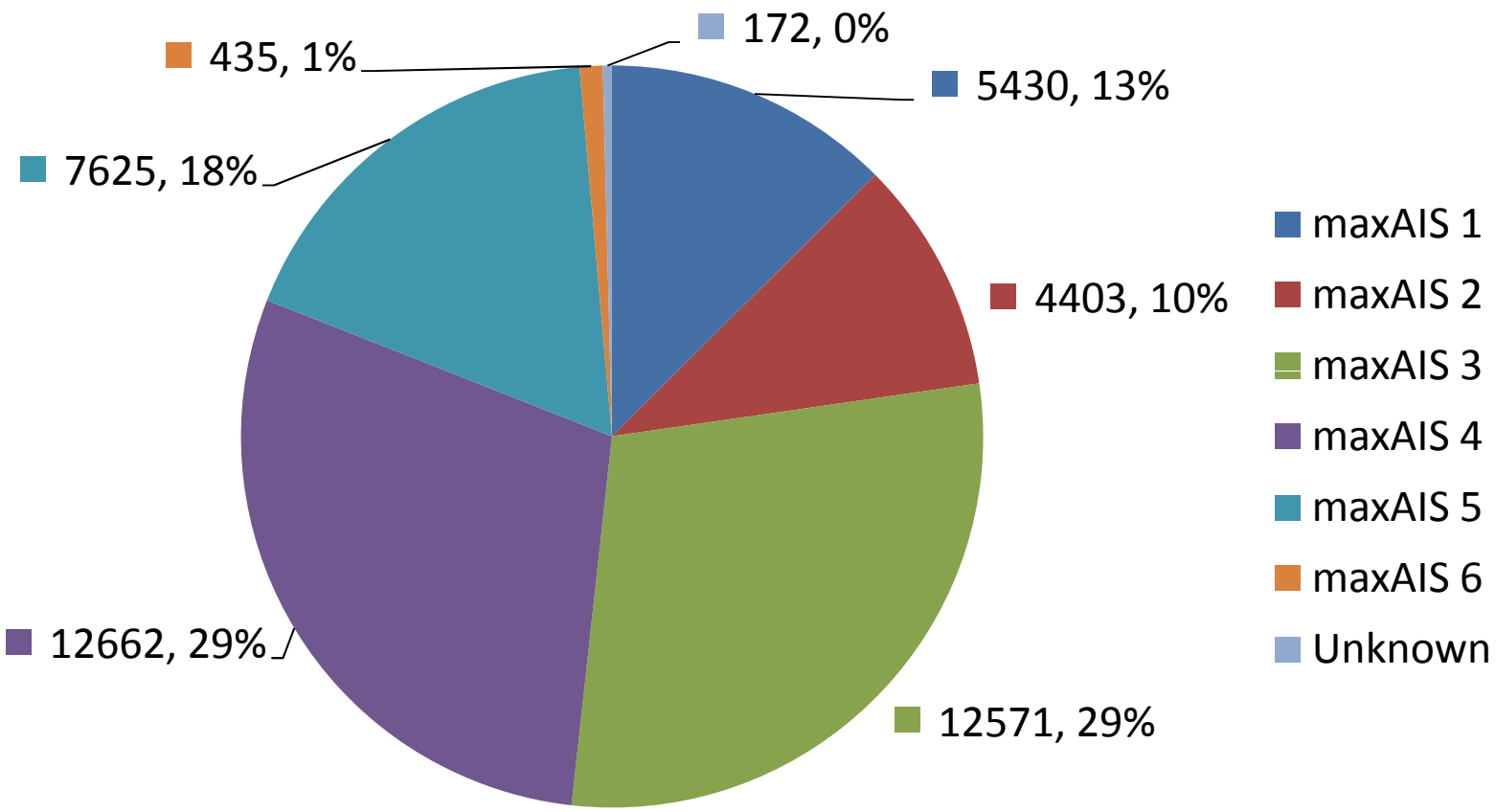


Figure 37B

## Facial Injury and maxAIS Score

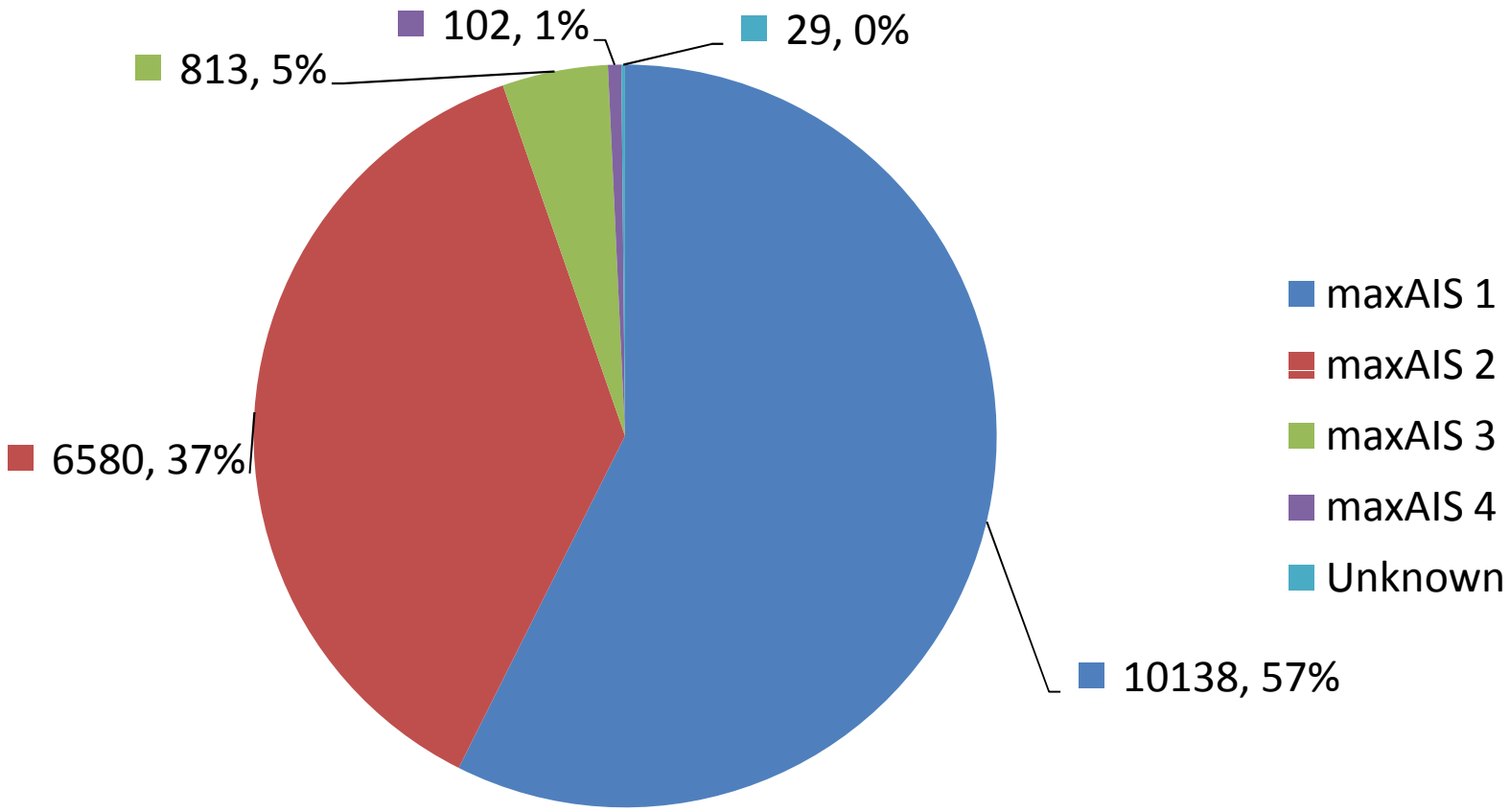


Figure 37C

## Neck Injury and maxAIS Score

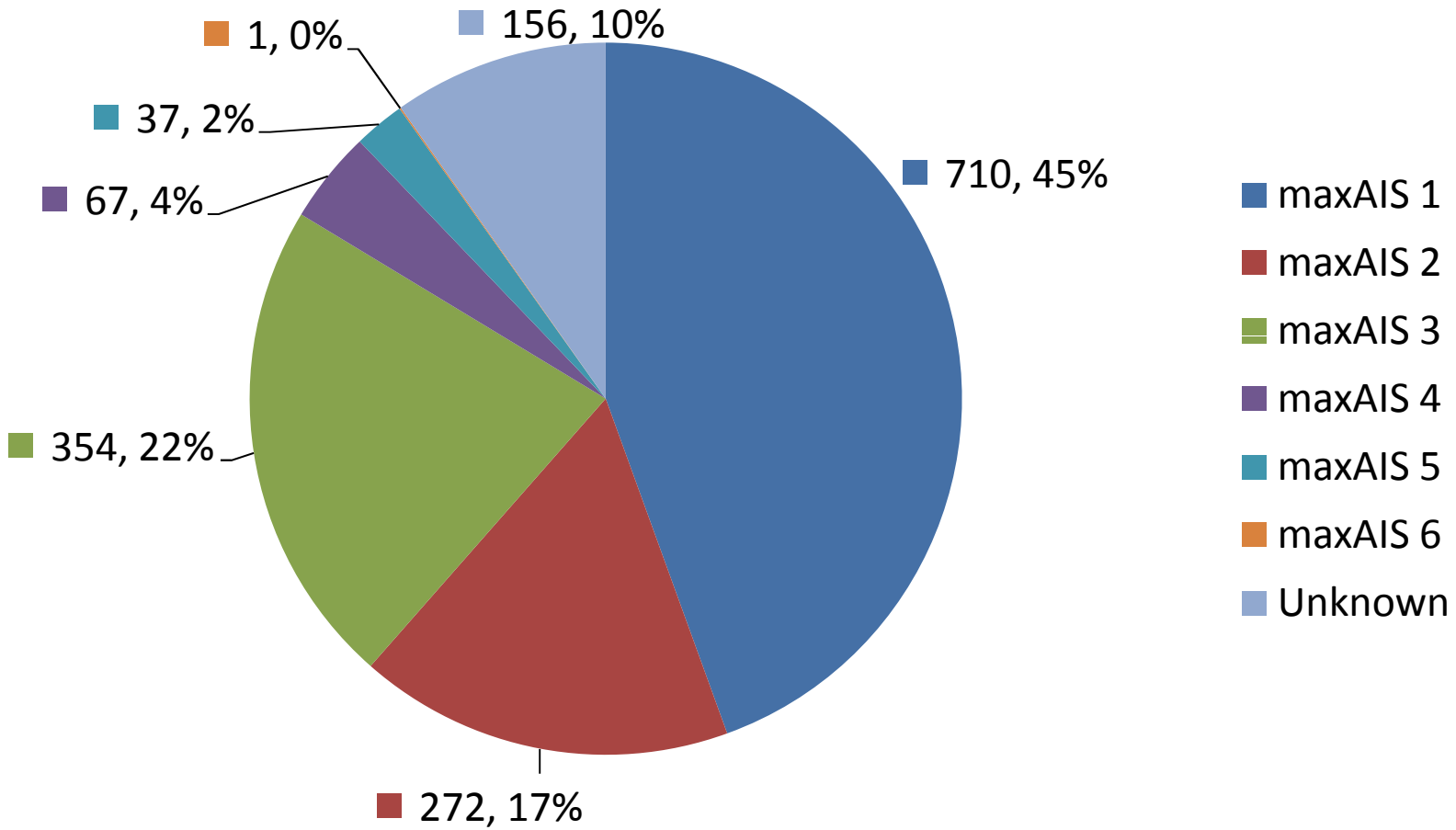


Figure 37D

## Thoracic Injury and maxAIS Score

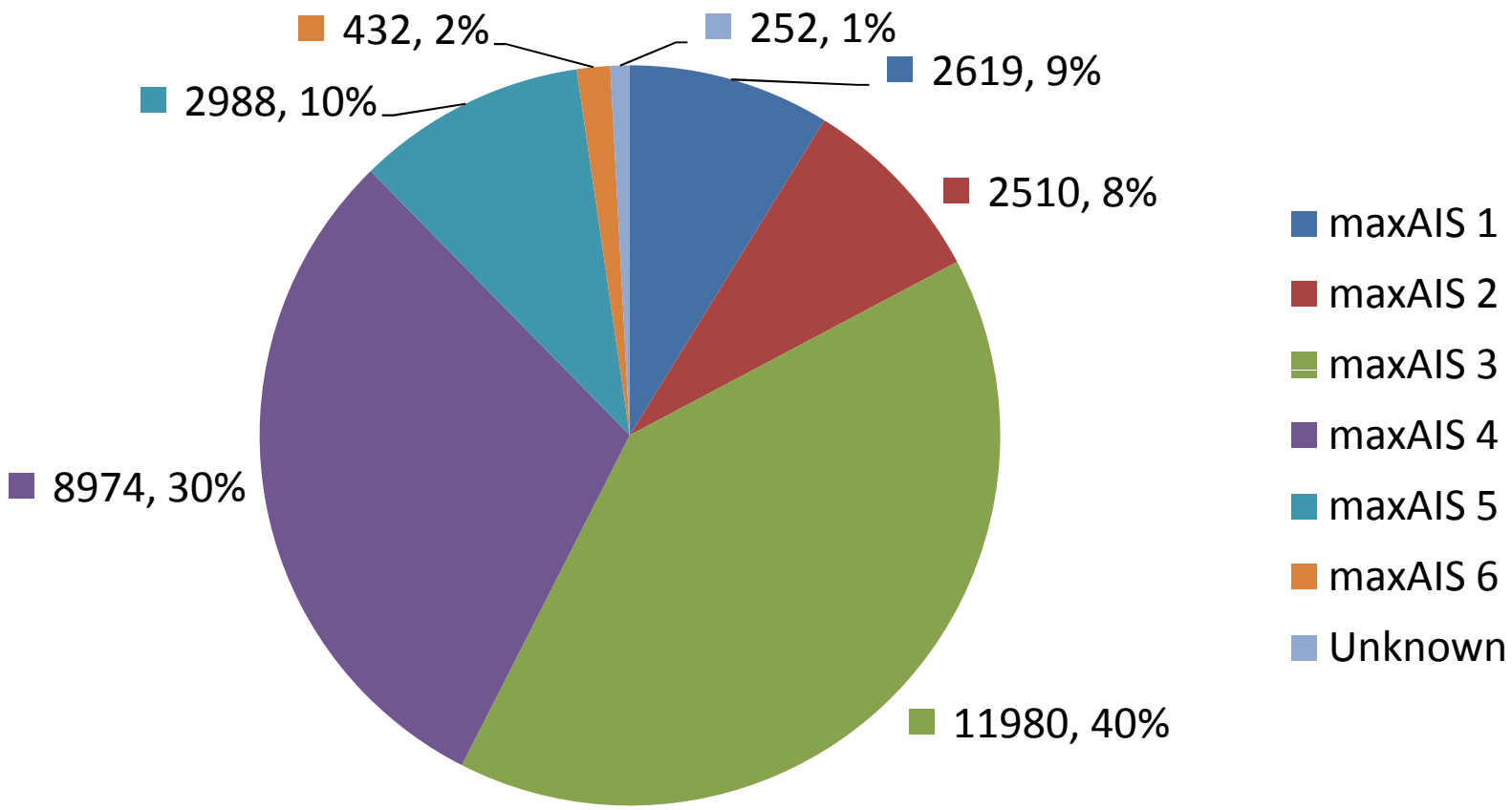


Figure 37E

## Injury of Abdomen/Pelvic Contents and max AIS Score

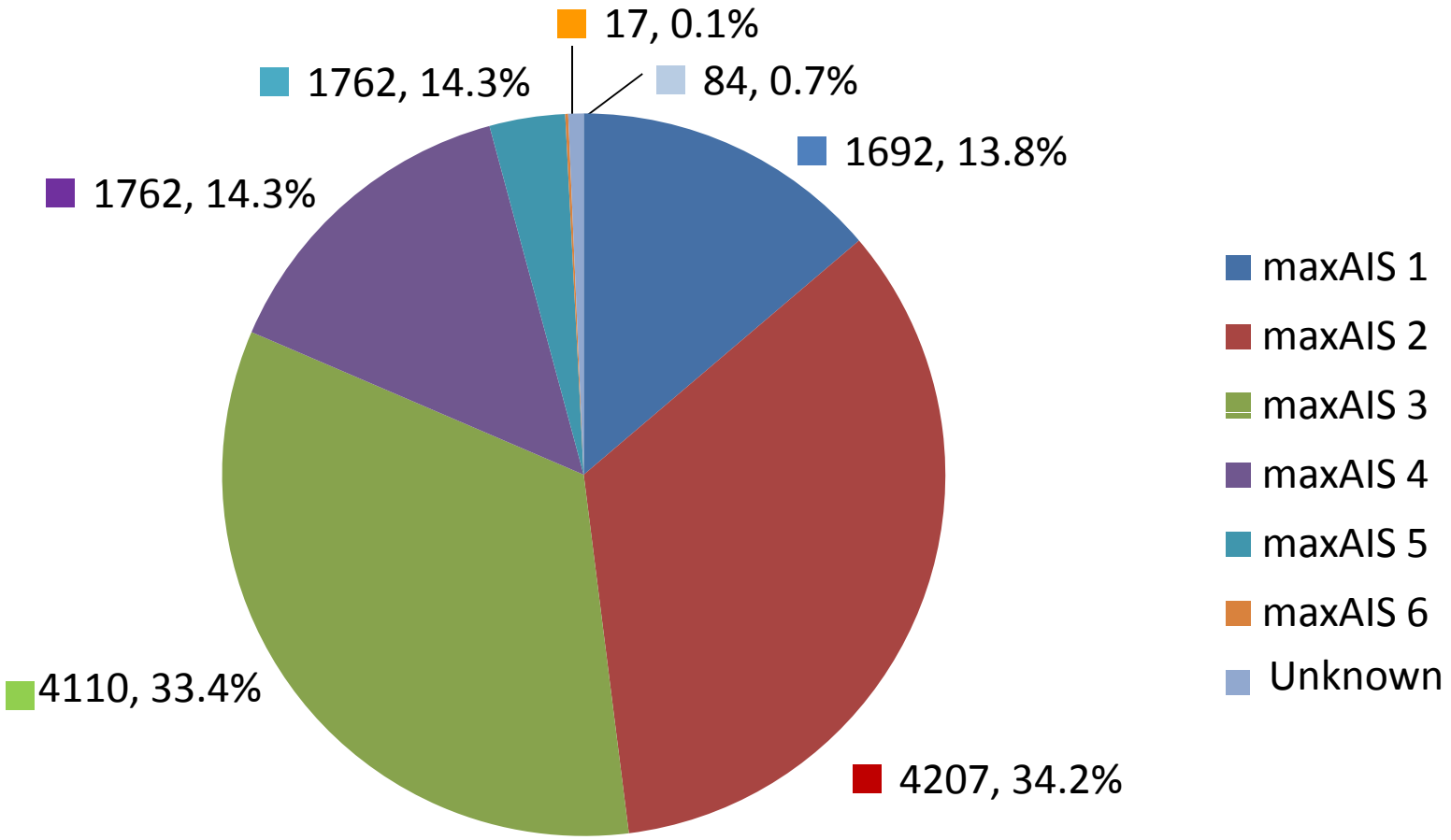


Figure 37F

## Spinal Injury and max AIS Score

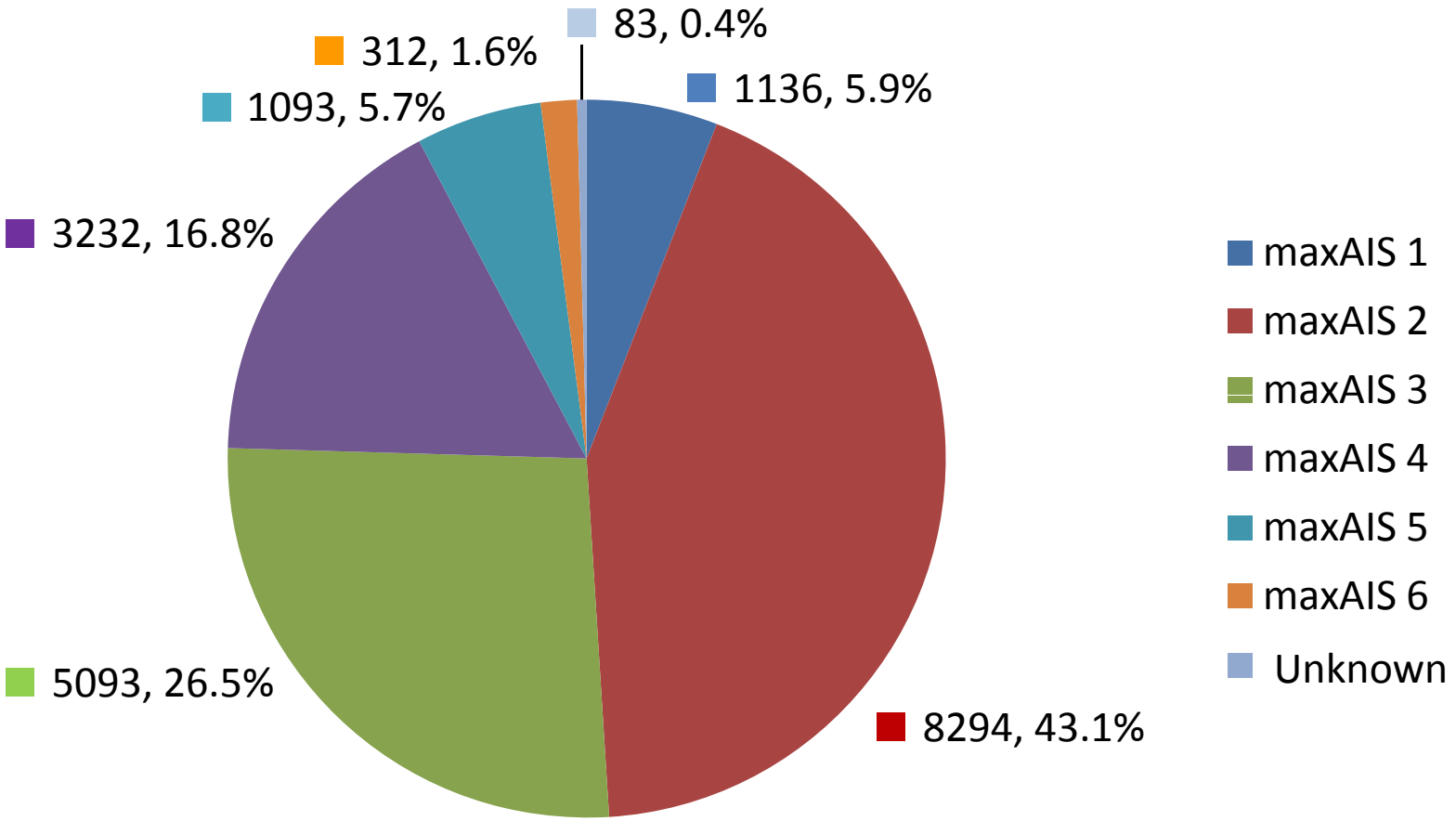


Figure 37G

## Injury of Upper Extremities and max AIS Score

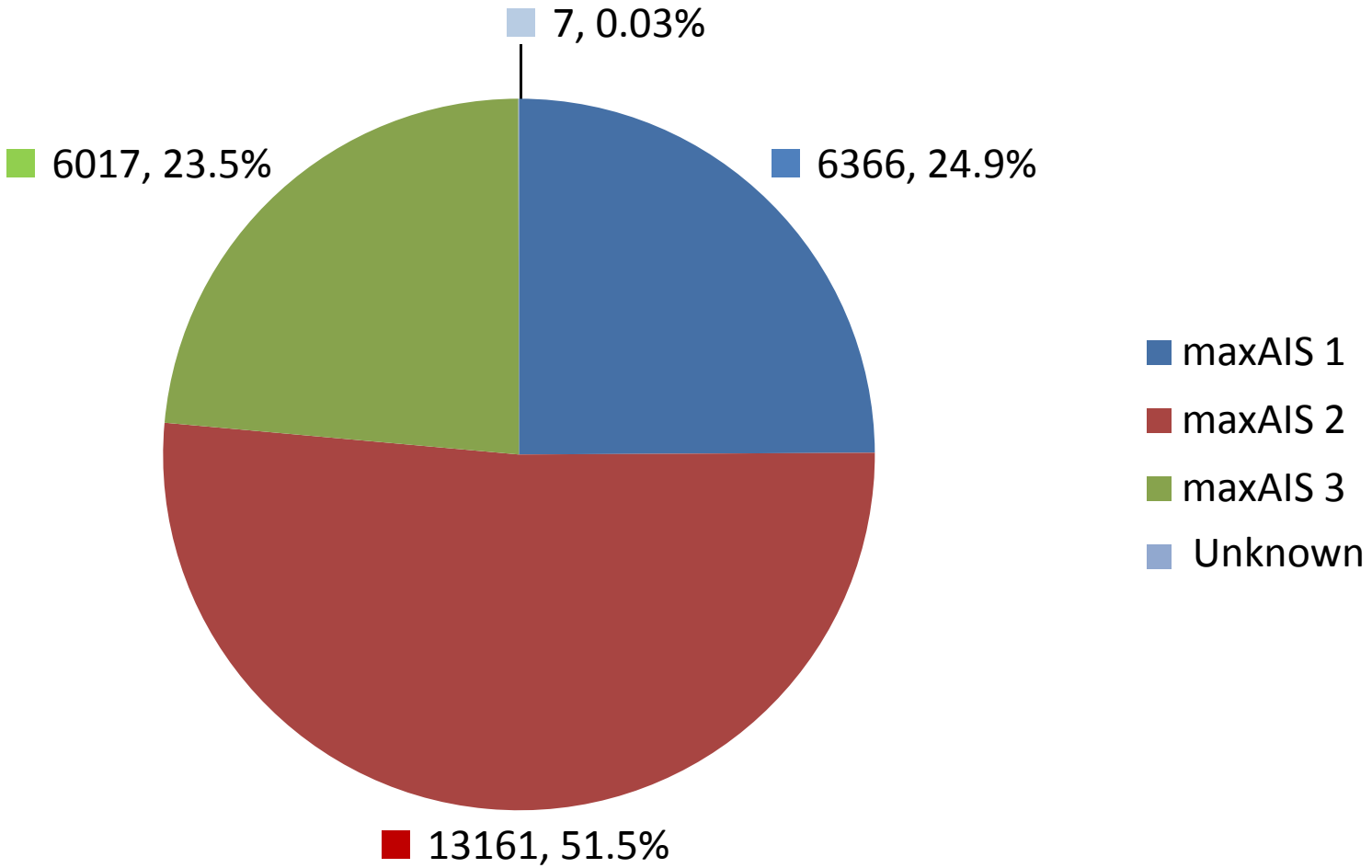


Figure 37H

## Injury of Lower Extremities and max AIS Score

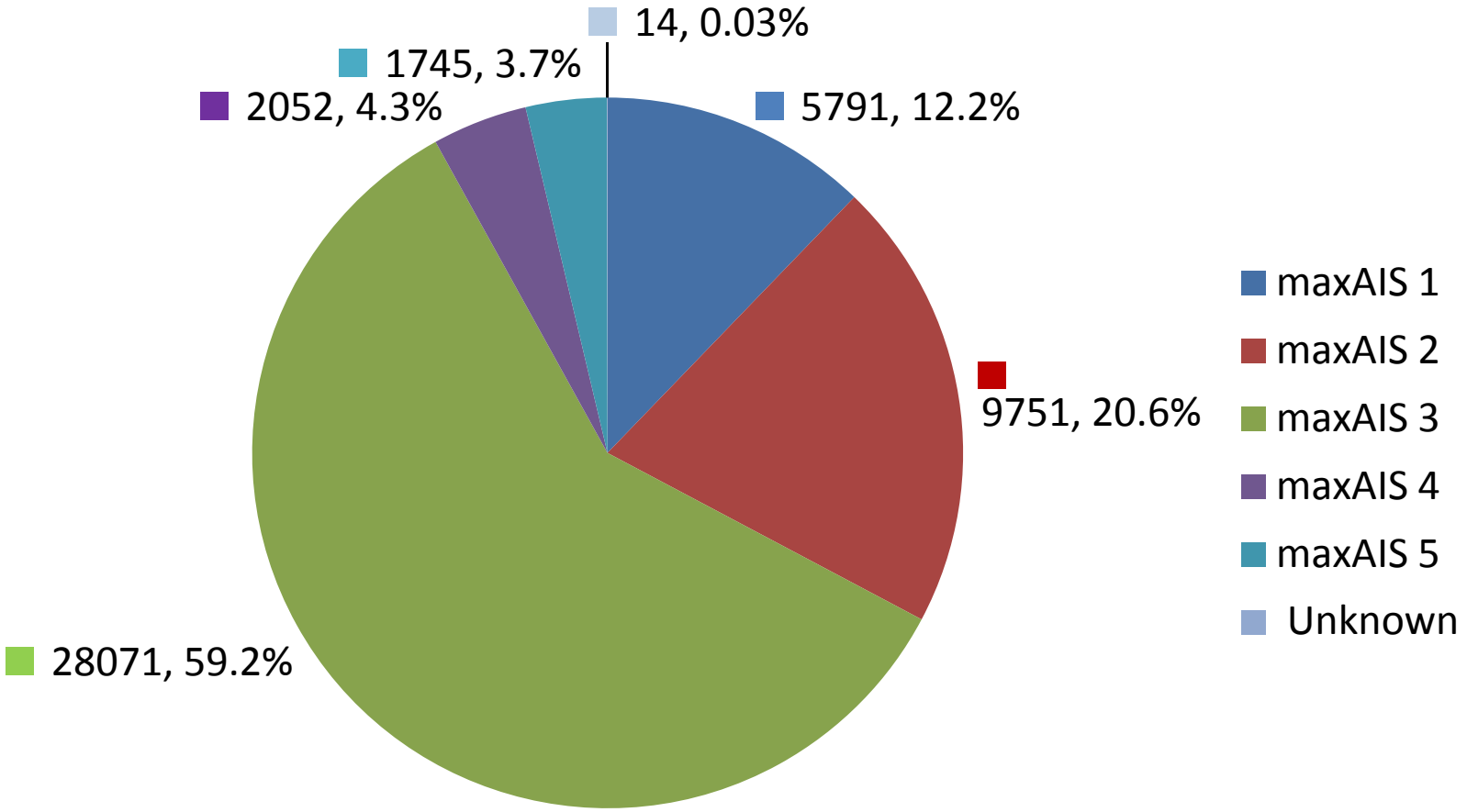


Figure 37I

## Skin/Burns/Other Trauma and max AIS Score

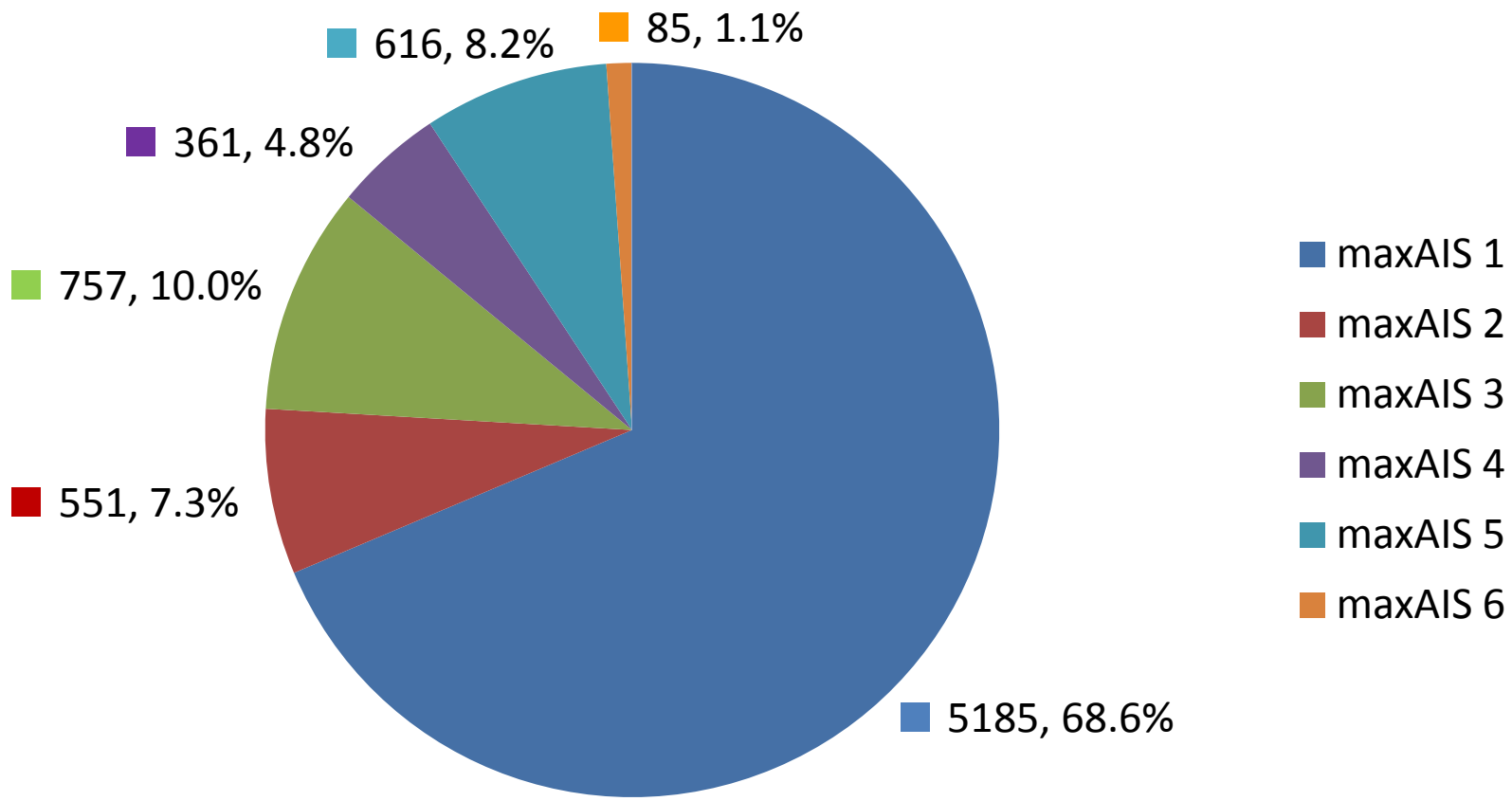
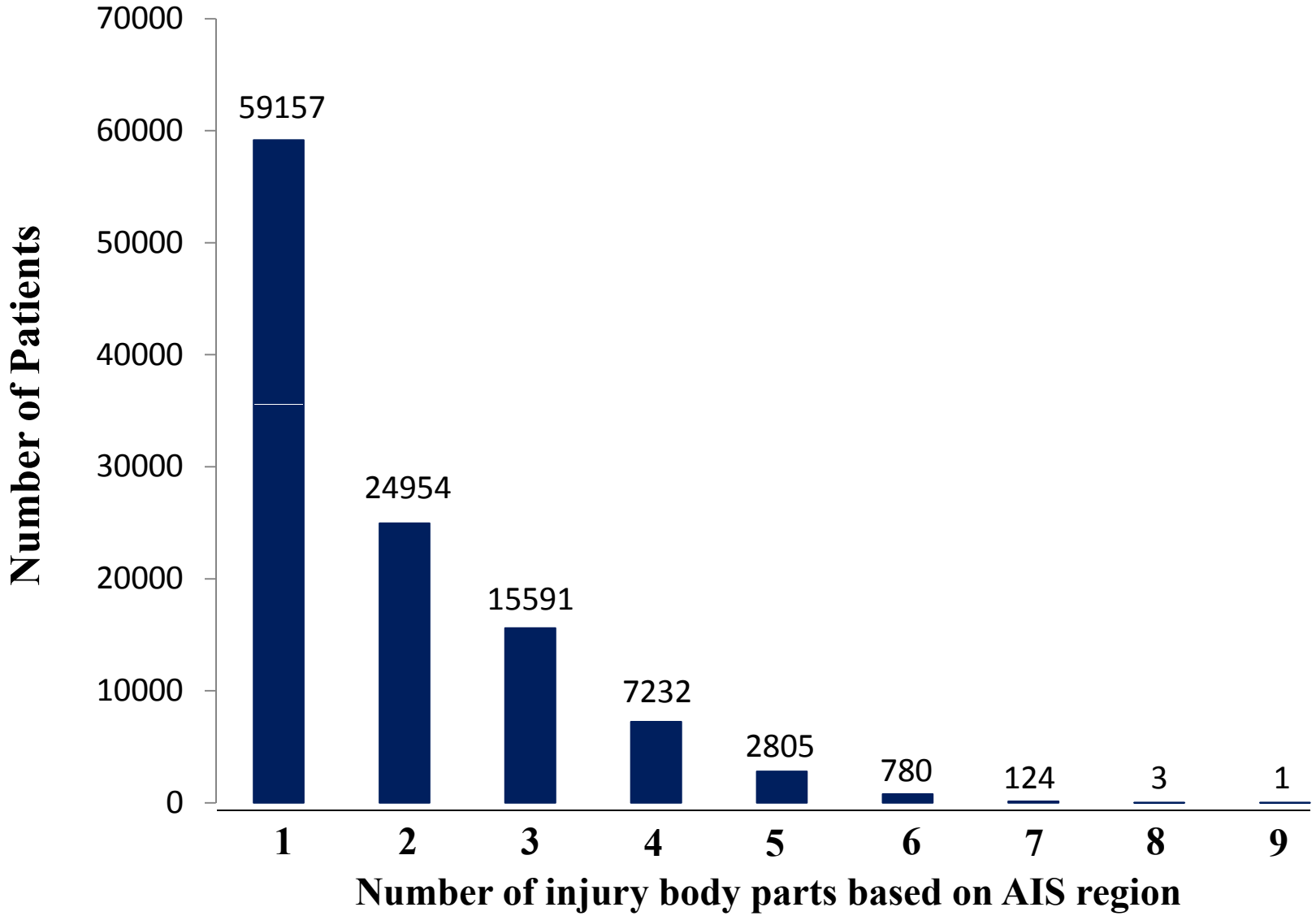


Figure 38

## Number of Patients and Injured Body Parts based on AIS



JTDB
JAPAN TRAUMA DATA BANK

December 15, 2014

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