

# EMERGENCY MEDICAL SERVICE (EMS)

## 1. Ambulance Runs

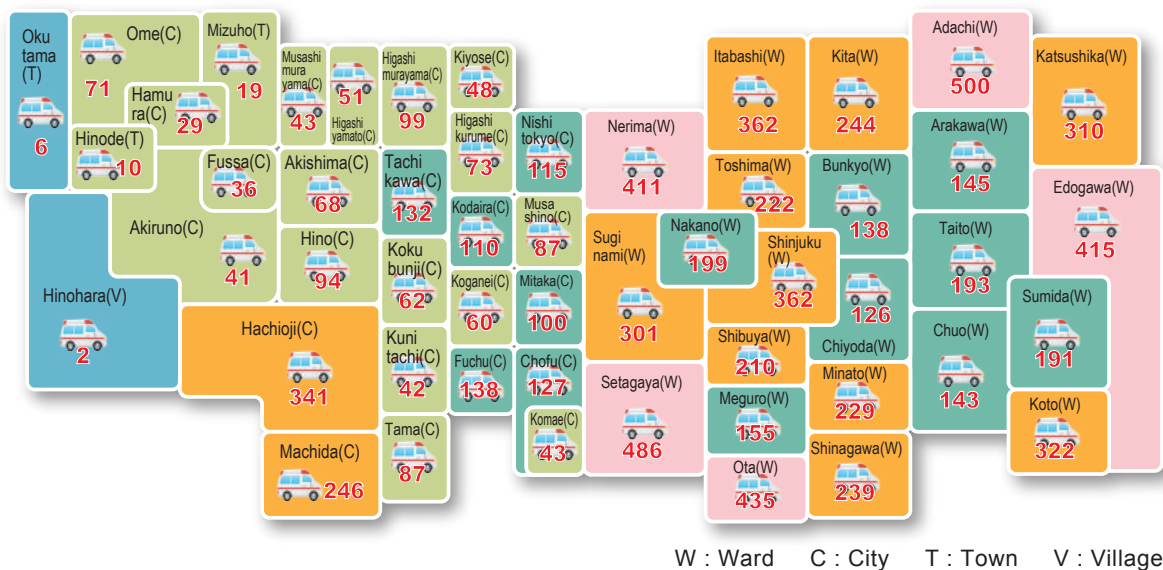
### (1) EMS Summary

The 5-year, (2018-2022), change in the number of ambulance runs and the nationwide dispatch number in 2021 are as follows. The number is as of April 1, 2022. The number of nationwide ambulance units is 5,328, and that of ambulances, including back lines, is 6,549.

Chart 1-1-1. 5-year Change in Ambulance Runs (2018-2022)

| Types                        | 2018    | 2019    | 2020    | 2021    | 2022    | Nationwide (2021) |
|------------------------------|---------|---------|---------|---------|---------|-------------------|
| Number of Responses          | 818,062 | 825,929 | 720,965 | 743,703 | 872,075 | 6,193,581         |
| Average Response per Day     | 2,241   | 2,263   | 1,970   | 2,038   | 2,389   | 16,969            |
| Dispatch Frequency (Seconds) | 39      | 38      | 44      | 42      | 36      | 5                 |

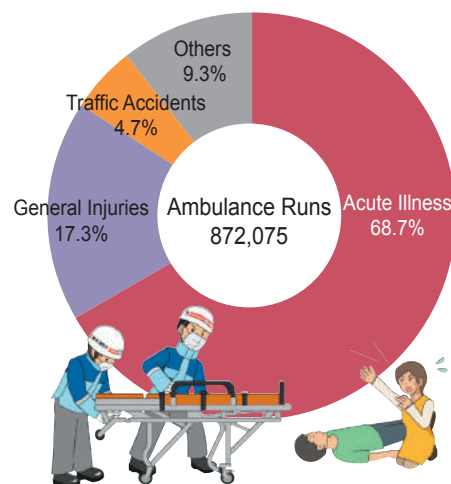
Chart 1-1-2. Ambulance Runs by District (Round figures in 2022)



Color Code (Ambulance Runs) 0~9 10~99 100~199 200~399 400~ (Unit:100)

Chart 1-1-3. Ambulance Runs by Accidents Type

| Accident Types    | Number  | Rate   | Other Breakdown                  | Number | Rate |
|-------------------|---------|--------|----------------------------------|--------|------|
| Acute Illness     | 599,469 | 68.7%  | Transportation between Hospitals | 42,990 | 4.9% |
| General Injuries  | 150,587 | 17.3%  | Assaults                         | 5,257  | 0.6% |
| Traffic Accidents | 41,101  | 4.7%   | Sports Accidents                 | 4,616  | 0.5% |
| Others            | 80,918  | 9.3%   | Worksite Accidents               | 5,241  | 0.6% |
| Total             | 872,075 | 100.0% | Self-injuries                    | 6,664  | 0.8% |
|                   |         |        | Natural Disaster Accidents       | 8      | 0.0% |
|                   |         |        | Fire Accidents                   | 3,354  | 0.4% |
|                   |         |        | Water Accidents                  | 565    | 0.1% |
|                   |         |        | Equipment Transportation         | 712    | 0.1% |
|                   |         |        | Doctor Transportation            | 181    | 0.0% |
|                   |         |        | Others                           | 11,330 | 1.3% |



Acute illness, General Injuries and Traffic Accidents account for about 90% of all the causes of ambulance runs.

## (2) Activity Time / Distance

In 2022, the average time required for emergency activities—from the moment ambulance teams were dispatched until their return to the fire station—was 118 minutes and 31 seconds, and the average running distance was 13.1 km.

Chart 1-2-1. EMS Activity Time / Distance

(m: minute / s: second)

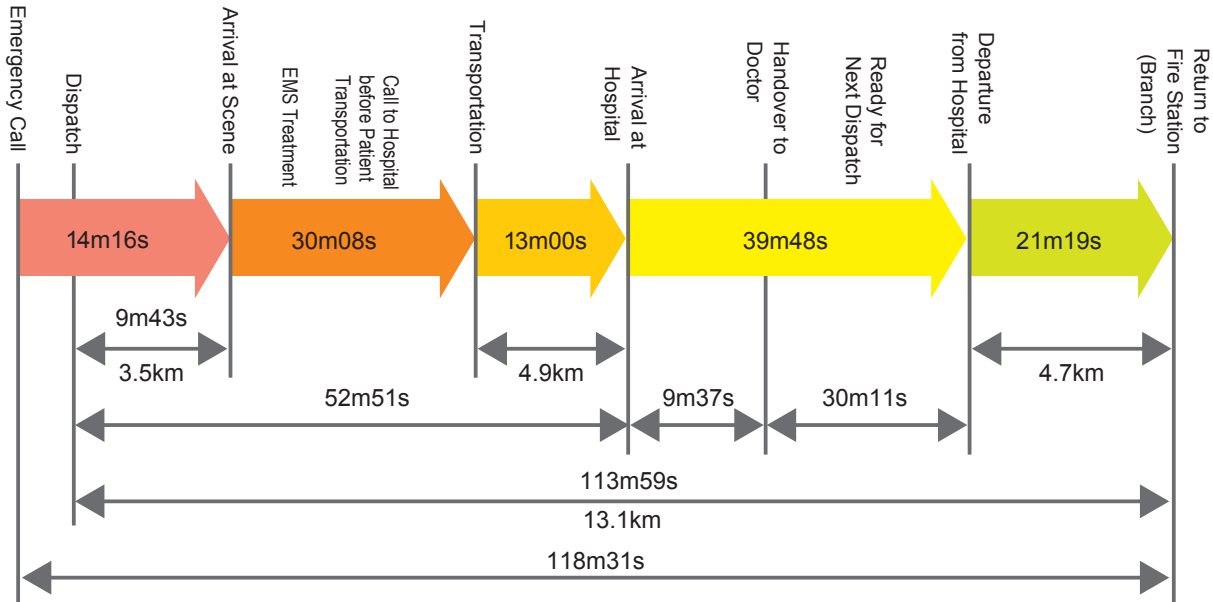
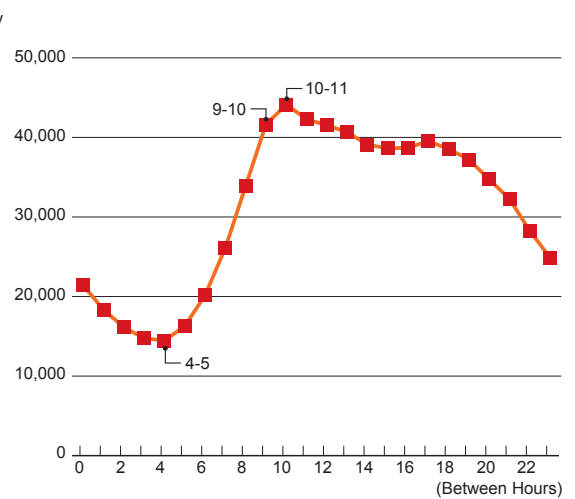
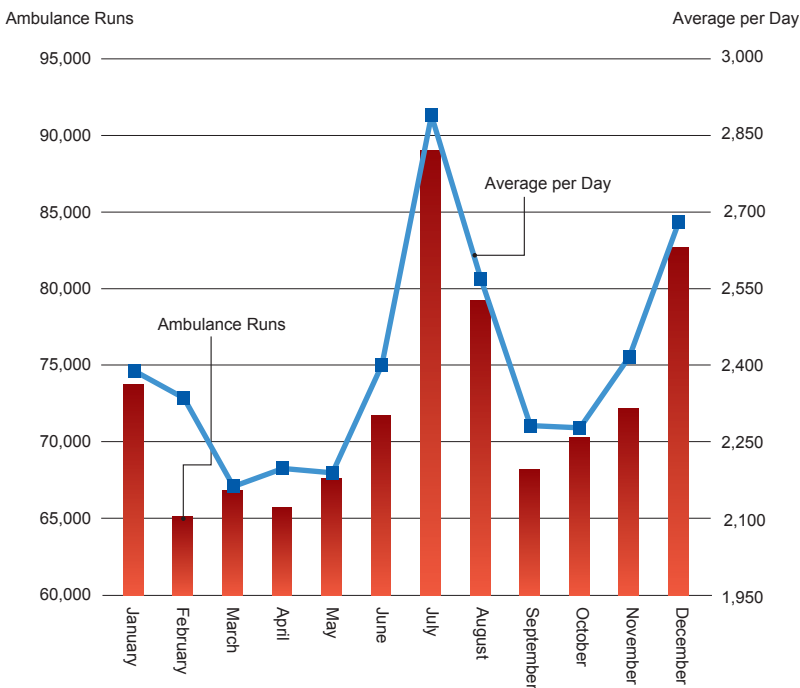


Chart 1-2-2. Ambulance Runs per Month

Chart 1-2-3. Ambulance Runs for the day

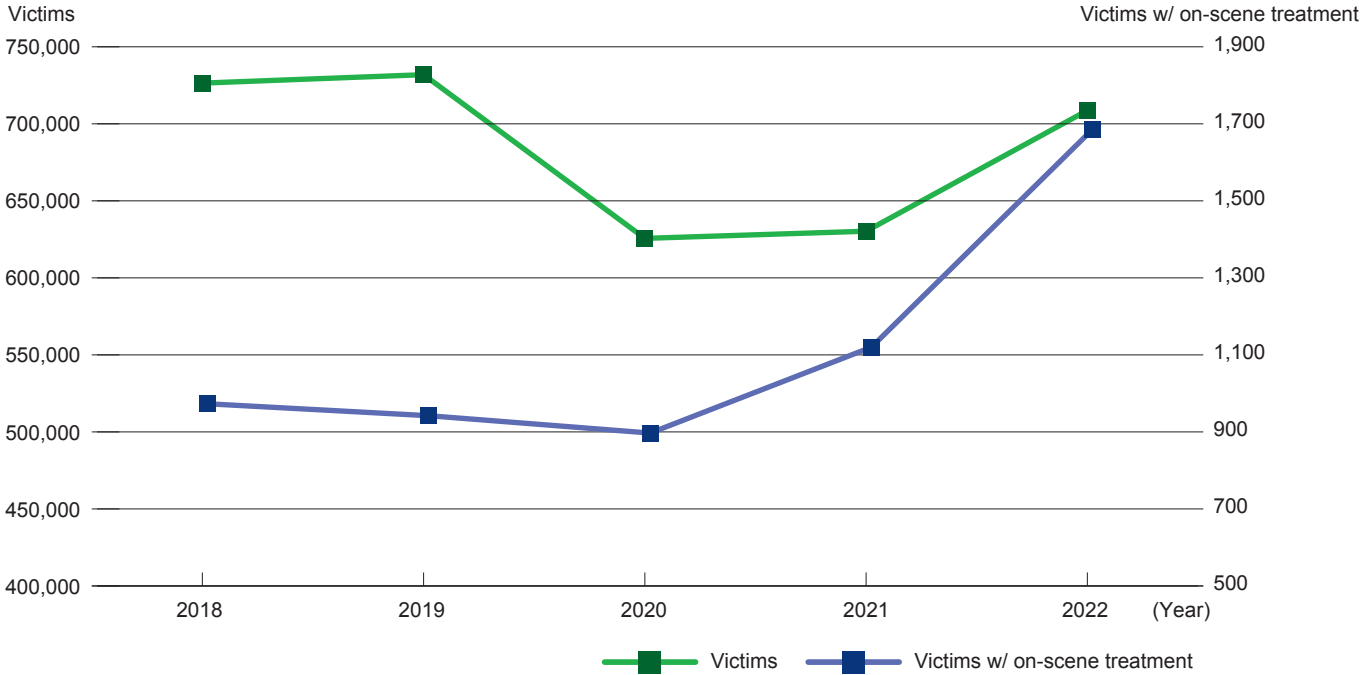


# 2. Patient Transport

## (1) 5-year Change in EMS Transportation (2018-2022)

The number of people transported by ambulances (the patients transported to medical institutions) was 708,695 in 2022, and the number of people treated at incident scenes (the patients who received first-aid treatment but were not transported to medical institutions) was 1,686. This means EMS teams attended to a total of 710,381 people.

Chart 2-1. Change in EMS Transportation



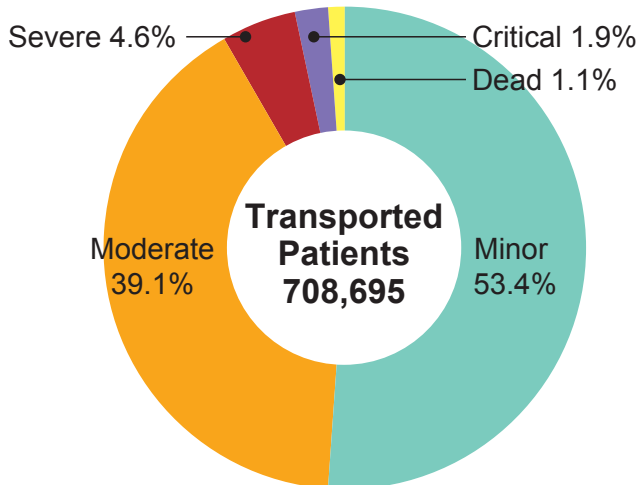
## (2) Transported Patients

### 1 Degree of Severity at Primary Diagnosis

More than half the people transported in “minor” conditions, and “minor” and “moderate” conditions accounted for more than 90% of the total.

Chart 2-2-1. Transported Patients by Degree

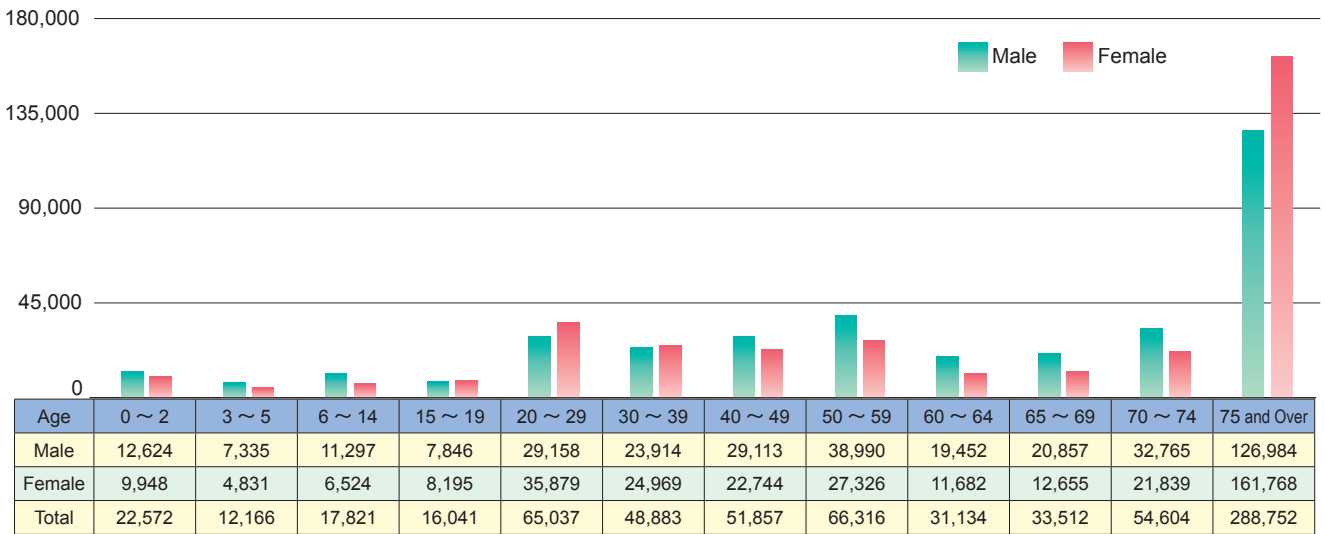
| Degree   | Transported Patients | Rate   |
|----------|----------------------|--------|
| Minor    | 378,221              | 53.4%  |
| Moderate | 277,104              | 39.1%  |
| Severe   | 32,331               | 4.6%   |
| Critical | 13,561               | 1.9%   |
| Dead     | 7,478                | 1.1%   |
| Total    | 708,695              | 100.0% |



## 2 Age Group

In terms of age group, the rate of the transported people aged 75 and over was the highest in 2022.

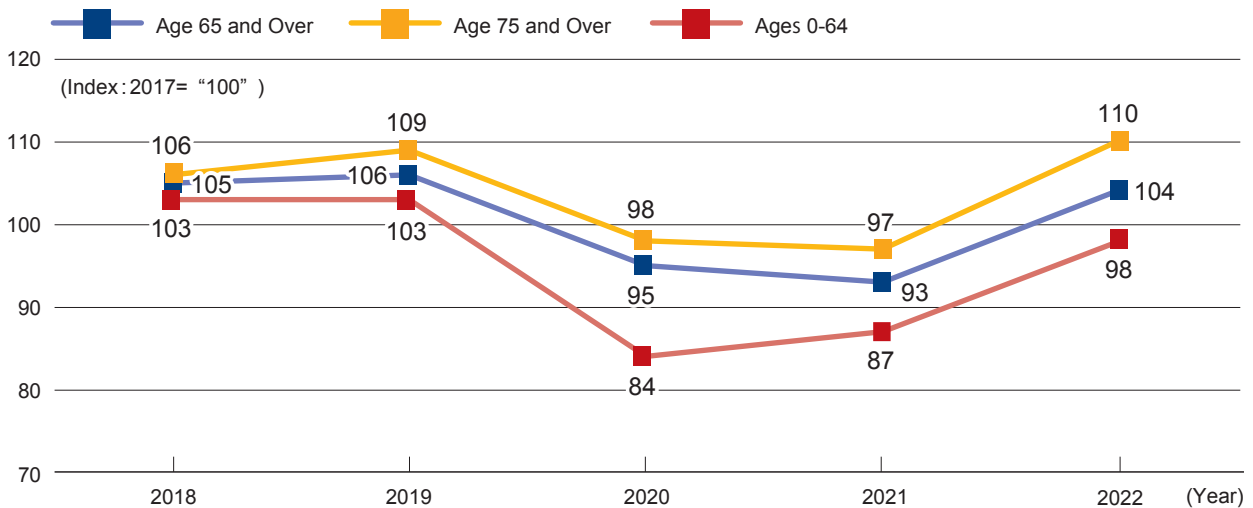
### Chart 2-2-2. Transported Patients by Age Group / Gender



## 3 5-year Change in Number of Transported Elderly Patients (2018-2022)

A total of 376,868 elderly people aged 65 and over were transported in 2022, which accounted for 53.2% of the total.

### Chart 2-2-3. Change in Transported Elderly Patients



|                            | 2018    | 2019    | 2020    | 2021    | 2022    |
|----------------------------|---------|---------|---------|---------|---------|
| Total Transported Patients | 726,428 | 731,900 | 625,639 | 630,287 | 708,695 |
| Age 65 and Over            | 378,314 | 383,856 | 342,085 | 337,224 | 376,868 |
| Age 75 and Over            | 278,019 | 286,061 | 256,451 | 254,273 | 288,752 |
| Ages 0-64                  | 348,114 | 348,044 | 283,554 | 293,063 | 331,827 |
| Rate of Age 65 and Over    | 52.1%   | 52.4%   | 54.7%   | 53.5%   | 53.2%   |

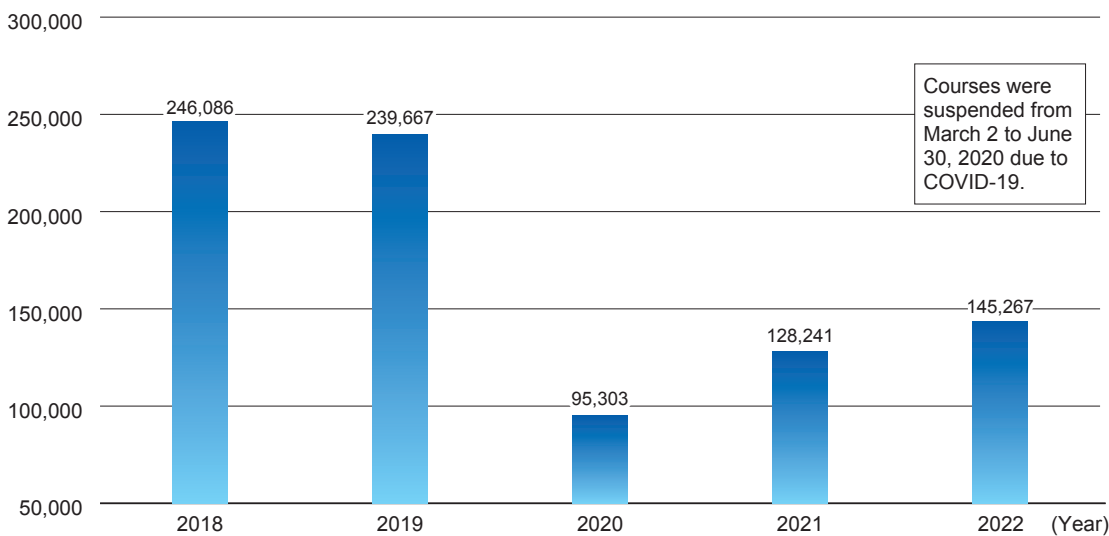
# 3. Bystander First Aid

## (1) Change in Lifesaving Course Trainees

The number of the participants in lifesaving courses (standard lifesaving courses, advanced lifesaving courses, and first-aid courses) accounted for 145,267 in 2022. The total number of participants, including those in emergency relief courses, accounted for 265,694.

There were cases where people with cardiac arrest received first-aid treatment, such as chest compressions or AEDs, from bystanders (11.1%) on the spot and those who did not receive treatment (3.4%). The survival rate of those who received first aid was approximately three times higher one month later than those who did not (in 2022). It is recommended to take lifesaving courses and learn first aid.

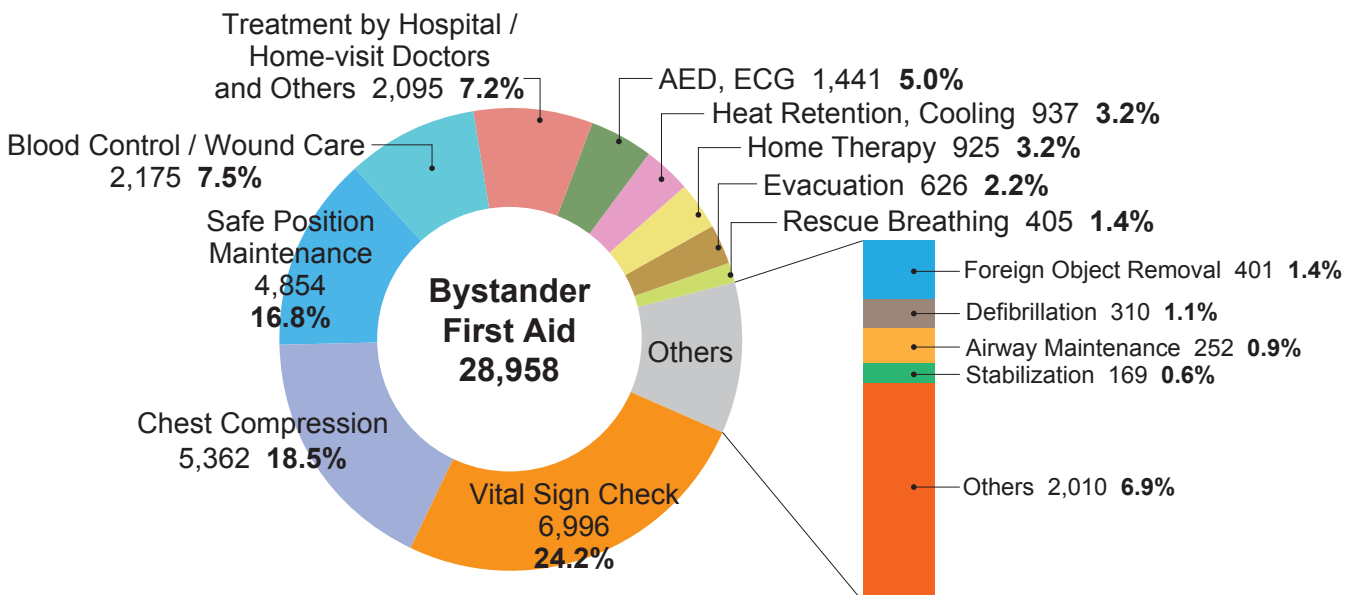
**Chart 3-1. Lifesaving Course Trainees**  
 (Standard\*, Advanced\* and Instructor\* Courses)  
 \*With retrainees included



## (2) First Aid

Before the arrival of EMS crews, there were 28,958 cases of first-aid treatment by family members, friends, neighbors, etc.

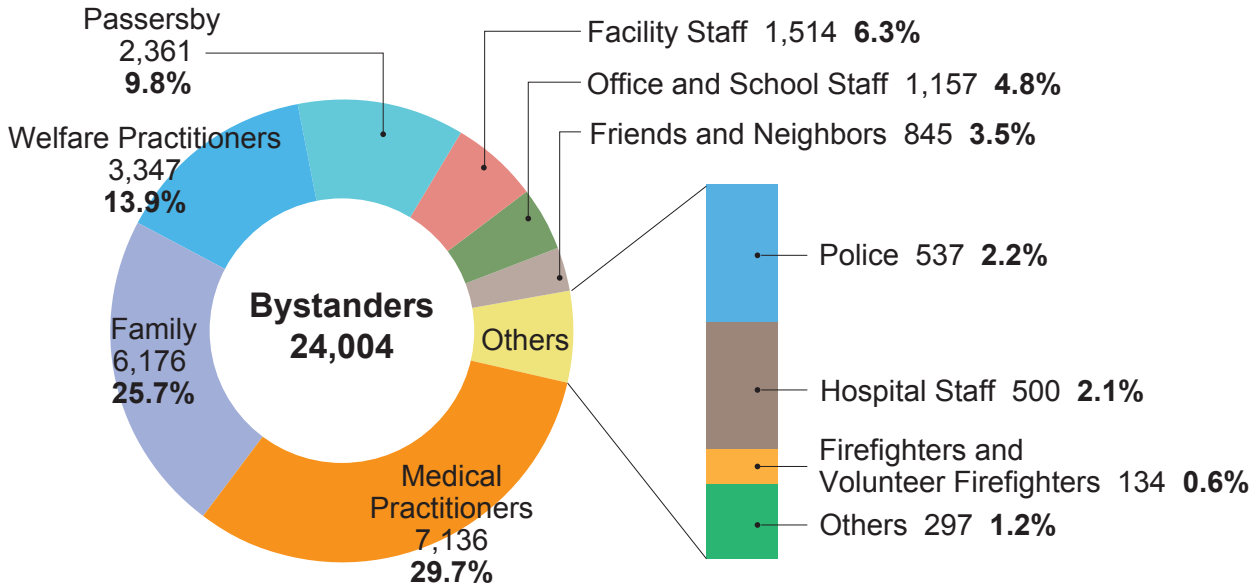
**Chart 3-2. Bystander-Initiated First Aid**



### (3) Bystander-initiated First Aid

A breakdown of residents, etc. who performed first-aid treatments shows that medical practitioners accounted for the highest number, followed by family members. It is recommended to take lifesaving courses for saving the lives of your loved ones.

Chart 3-3. Bystanders



## 4. #7119 Emergency Telephone Consultation Center



The “#7119” TFD Emergency Telephone Consultation Center gives advice on the phone to sick / injured people about what to do — to call an ambulance or go to the hospital or not, which hospital is most suitable, and so on.

### (1) Telephone Consultation

The following table shows the responses of the Emergency Telephone Consultation Center for the past three years, classified by consultation content. In 2022, the highest number of applications on record was received.

Chart 4-1. Consultation Details

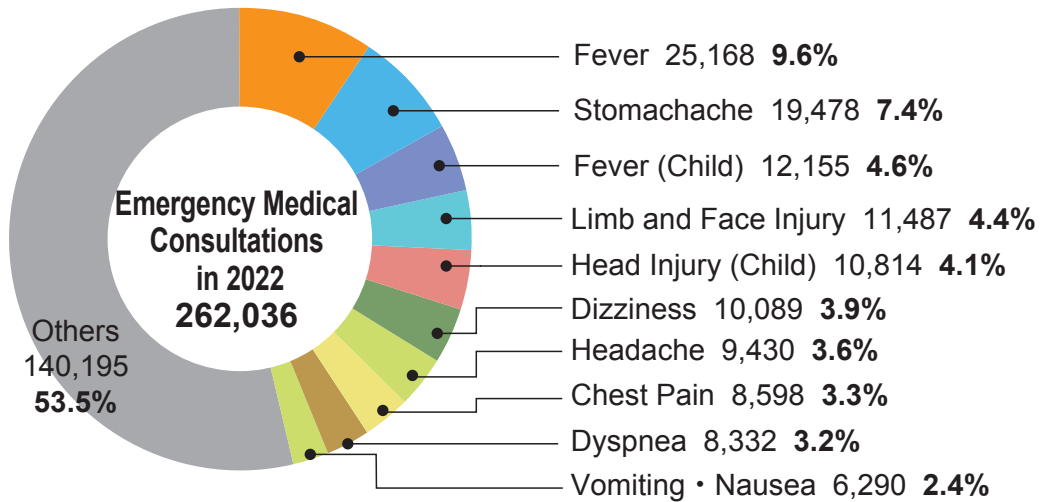
| Year | Total Received Calls | Hospital Information Guidance | Emergency Medical Consultation | Forwarded to “119” (EMS Request)               |            | Others |
|------|----------------------|-------------------------------|--------------------------------|--|------------|--------|
|      |                      |                               |                                | Forwarded to “119” (EMS Request) after talking | in no time |        |
| 2022 | 439,507              | 175,822                       | 262,036                        | 42,674   | 824        | 825    |
| 2021 | 362,392              | 124,228                       | 236,757                        | 38,755   | 719        | 688    |
| 2020 | 362,454              | 140,261                       | 221,379                        | 34,392   | 664        | 150    |

## (2) Consultation Details

The graph below shows a breakdown of the emergency consultations out of the calls that the Center received in 2022.

During the COVID-19 pandemic, consultations related to fever increased, accounting for approximately 14% of cases in 2022, including adults and children.

Chart 4-2. Details



## (3) Health Consultation by Age Group

The following graph shows the age structure of the people that callers consulted about in 2022. The percentage of those who consulted about children aged 0 to 14 is increasing.

The age structure of the people aged 75 and over, as the subjects of consultation, was 14.4%. In terms of the rate of the people transported by ambulances, those aged 75 and over accounted for 40.7% of the total.

Dial “#7119” if you are not sure whether or not to call an ambulance.

Chart 4-3. Health Consultation by Age Group

