We are pleased to present the 2018 Emergency Medical Services (EMS) System Data Report. Each successive report reflects the commitment of our EMS Agency, EMS providers and hospitals to quality patient care. As our data reporting system has matured and all of our EMS Advanced Life Support (ALS) providers have adopted electronic data capturing, we are able to expand the use of our data in publications and research.

The EMS Agency has engaged in projects with the Department of Public Health and California EMS Authority, utilizing our data, not only to improve quality of care but to assist in preventing injury.

As our use of information technology capability progresses, we will be working on several critical goals; receiving the outcomes of all patients who have been transported to any designated 9-1-1 receiving facility and connecting with our health information exchange partners to demonstrate the ability of paramedics to receive patient information and in turn transmit the emergency medical care data directly to the receiving hospital’s medical record.

For several years, we have been working with our EMS Provider Agencies and hospitals to improve bystander cardiopulmonary resuscitation (CPR) rates in Los Angeles County through our Side-walk CPR Program. In June 2018, we trained over 5,000 Los Angeles citizens in CPR and spearheaded additional training in California for an overall total of over 11,000 California residents trained. We implemented a two-tiered Comprehensive Stroke system in order to provide greater access to the public for these critical interventions for stroke. In 2018 alone through the designation of 19 Comprehensive Stroke Centers, we have increased access to these interventions within 30 minutes of presentation from 40% of the public to 93%.

Our other specialty programs continue to serve the needs of our public through our standards which ensure polices and procedures, specialized equipment, availability of critical specialist and staff who can care for critical pediatric patients, adults and pediatric trauma patients, laboring mothers, and victims of sexual assault, patients suffering heart attack, and those in cardiac arrest.

Many thanks to our EMS Agency staff and the leadership of Dr. Nichole Bosson, Assistant Medical Director, and Richard Tadeo, Assistant Director, for not only their work on this report but for the daily efforts in managing and ensuring the data quality for the system.

2018 System Demographics

- 72 9-1-1 Receiving Hospitals
- 38 EDAP (Emergency Department Approved for Pediatrics)
- 10 Pediatric Medical Centers
- 7 Pediatric Trauma Centers
- 15 Trauma Centers
- 21 Paramedic Base Hospitals
- 36 STEMI Receiving Centers
- 19 Comprehensive Stroke Centers
- 31 Primary Stroke Centers
- 62 Perinatal Centers
- 49 Hospitals with Neonatal Intensive Care Unit
- 8 SART (Sexual Assault Response Team) Centers
- 13 Disaster Resource Centers

- 21 Paramedic Base Hospitals
- 36 STEMI Receiving Centers
- 19 Comprehensive Stroke Centers
- 31 Primary Stroke Centers
- 62 Perinatal Centers
- 49 Hospitals with Neonatal Intensive Care Unit
- 8 SART (Sexual Assault Response Team) Centers
- 13 Disaster Resource Centers

EMS Provider Agencies
- 32 Public Safety EMS Provider Agencies
- 33 Licensed Basic Life Support Ambulance Operators
- 16 Licensed Advanced Life Support Ambulance Operators
- 15 Licensed Critical Care Transport Ambulance Operators
- 5 Licensed Ambulette Operators

EMS Practitioners
- 4,287 Accredited Paramedics
- 8,168 Certified EMTs by LA Co EMS Agency
- 853 Certified Mobile Intensive Care Nurses
EMS Data by Service Planning Area (SPA)

Los Angeles County Estimated Population (2017) = 10,272,648

SPA 1 Antelope Valley
Population: 392,465 (4%)
Hospitals: 2 (3%)
Acton, Agua Dulce, Gorman, Green Valley, Lake Hughes, Lake Los Angeles, Lancaster, Little Rock, Palmdale, Quartz Hill, Redman, Sandberg, Valyermo

SPA 2 San Fernando Valley
Population: 2,258,664 (22%)
Hospitals: 17 (23%)

SPA 3 San Gabriel Valley
Population: 1,801,299 (17%)
Hospitals: 14 (19%)
Alhambra, Altadena, Arcadia, Azusa, Baldwin Park, Bradbury, Citrus, Claremont, Covina, Diamond Bar, Duarte, El Monte, Glendora, Hacienda Heights, Industry, Irwindale, La Puente, La Verne, Monrovia, Monterey Park, Pasadena, Pomona, Rosemead, San Dimas, San Gabriel, San Marino, Sierra Madre, South El Monte, South Pasadena, Temple City, Valinda, Walnut, West Covina

SPA 4 Metro
Population: 1,188,412 (12%)
Hospitals: 12 (17%)

SPA 5 West
Population: 671,830 (6%)
Hospitals: 5 (7%)
Beverly Hills, Brentwood, Culver City, Malibu, Pacific Palisades, Playa del Rey, Marina del Rey, Santa Monica, Venice

SPA 6 South
Population: 1,068,550 (10%)
Hospitals: 3 (4%)
Athens, Crenshaw, Compton, Florence, Hyde Park, Jefferson, Paramount, South Los Angeles, Watts

SPA 7 East
Population: 1,314,749 (13%)
Hospitals: 8 (11%)
Artesia, Bellflower, Bell Gardens, Commerce, Cerritos, Downey, East Los Angeles, Hawaiian Gardens, Huntington Park, La Mirada, La Habra Heights, Lakewood, Lynwood, Montebello, Norwalk, Pico Rivera, Santa Fe Springs, South Gate, Vernon, Whittier

SPA 8—South Bay
Population: 1,576,679 (15%)
Hospitals: 11 (15%)
Carson, Catalina Island, El Segundo, Gardena, Hawthorne, Hermosa Beach, Inglewood, Lawndale, Lennox, LA and Long Beach Ports, Lomita, Long Beach, Manhattan Beach, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills, San Pedro, Signal Hill, Torrance, Wilmington
EMS Responses FY 2016-2017 = 719,452

EMS Responses By Chief Complaint FY 2016-2017

Trauma  Medical

<table>
<thead>
<tr>
<th>SPA</th>
<th>Trauma</th>
<th>Medical</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 1</td>
<td>8,151</td>
<td>85,228</td>
</tr>
<tr>
<td>SPA 2</td>
<td>20,003</td>
<td>110,311</td>
</tr>
<tr>
<td>SPA 3</td>
<td>24,125</td>
<td>581,998</td>
</tr>
<tr>
<td>SPA 4</td>
<td>19,255</td>
<td>19,726</td>
</tr>
<tr>
<td>SPA 5</td>
<td>11,178</td>
<td>26,570</td>
</tr>
<tr>
<td>SPA 7</td>
<td>8,446</td>
<td>137,454</td>
</tr>
<tr>
<td>SPA 8</td>
<td>104,954</td>
<td>39,242</td>
</tr>
<tr>
<td>SPA 6</td>
<td>48,340</td>
<td>39,894</td>
</tr>
<tr>
<td>SPA 5</td>
<td>50,820</td>
<td>81,871</td>
</tr>
<tr>
<td>SPA 4</td>
<td>101,126</td>
<td>92,123</td>
</tr>
<tr>
<td>SPA 3</td>
<td>116,248</td>
<td>92,500</td>
</tr>
<tr>
<td>SPA 2</td>
<td>112,503</td>
<td></td>
</tr>
<tr>
<td>SPA 1</td>
<td>48,980</td>
<td></td>
</tr>
</tbody>
</table>

LA County
# EMS Transports by Age

<table>
<thead>
<tr>
<th>FY 2016-2017</th>
<th>Age in Years</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt; 1</td>
<td>1-8</td>
<td>9-14</td>
<td>15-35</td>
</tr>
<tr>
<td>EMS Responses</td>
<td>4,894</td>
<td>16,658</td>
<td>12,114</td>
<td>157,199</td>
</tr>
<tr>
<td>Medical</td>
<td>4,428</td>
<td>12,486</td>
<td>7,606</td>
<td>111,401</td>
</tr>
<tr>
<td>Trauma</td>
<td>466</td>
<td>4,172</td>
<td>4,508</td>
<td>45,798</td>
</tr>
<tr>
<td>Medical</td>
<td>3,631</td>
<td>10,016</td>
<td>5,838</td>
<td>91,835</td>
</tr>
<tr>
<td>Not Transported</td>
<td>667</td>
<td>2,205</td>
<td>1,530</td>
<td>16,979</td>
</tr>
<tr>
<td>Unknown</td>
<td>130</td>
<td>265</td>
<td>238</td>
<td>2,587</td>
</tr>
</tbody>
</table>

| Trauma      | Transported | 404          | 3,107  | 3,201  | 34,191 | 25,653 | 22,575 | 19,184 | 1,215 | 109,530 |
|            | Not Transported | 53      | 905    | 1,074  | 9,970  | 5,702  | 3,431  | 2,057  | 610   | 23,802  |
|            | Unknown      | 9           | 160    | 233    | 1,637  | 951    | 715    | 406    | 11    | 4,122   |

## EMS Transports Destinations

- **No Transports**
  - N = 125,710 (18%)

- **Transports**
  - N = 578,961 (80%)

- **Most Accessible Receiving Facility (MAR)**
  - N = 519,953 (89%)

- **Emergency Department Approved for Pediatrics (EDAP)**
  - N = 10,254 (2%)

- **Pediatric Medical Center (PMC)**
  - N = 2,698 (0.5%)

- **Sexual Assault Response Team (SART)**
  - N = 140 (0.02%)

- **Trauma Center (TC)**
  - N = 36,384 (6%)

- **Pediatric Trauma Center (PTC)**
  - N = 6,868 (1%)

- **STEMI Receiving Center (SRC)**
  - N = 6,868 (1%)

- **Approved Stroke Center (ASC)**
  - N = 4,680 (0.8%)

- **Perinatal Center**
  - N = 984 (0.2%)
**EMS Transports by Provider Agency**

**FY 2016-2017**

<table>
<thead>
<tr>
<th>EMS Provider (n = Number of EMS Responses)</th>
<th>Number of Transports (% = Number of Transports/Number of Responses)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avalon (n=135)</td>
<td>132 (82%)</td>
</tr>
<tr>
<td>La Habra Heights (n=332)</td>
<td>237 (74%)</td>
</tr>
<tr>
<td>Sierra Madre (n=332)</td>
<td>252 (78%)</td>
</tr>
<tr>
<td>Vernon (n=619)</td>
<td>426 (72%)</td>
</tr>
<tr>
<td>LA County Sheriff (n=740)</td>
<td>320 (74%)</td>
</tr>
<tr>
<td>San Marino (n=997)</td>
<td>752 (75%)</td>
</tr>
<tr>
<td>Hermosa Beach (n=1,045)</td>
<td>710 (66%)</td>
</tr>
<tr>
<td>South Pasadena (n=1,283)</td>
<td>840 (68%)</td>
</tr>
<tr>
<td>San Gabriel (n=1,764)</td>
<td>1,355 (73%)</td>
</tr>
<tr>
<td>El Segundo (n=1,909)</td>
<td>1,137 (55%)</td>
</tr>
<tr>
<td>Manhattan Beach (n=2,015)</td>
<td>1,353 (67%)</td>
</tr>
<tr>
<td>Santa Fe Springs (n=2,383)</td>
<td>1,861 (80%)</td>
</tr>
<tr>
<td>Monrovia (n=3,021)</td>
<td>2,253 (73%)</td>
</tr>
<tr>
<td>La Verne (n=3,240)</td>
<td>1,559 (54%)</td>
</tr>
<tr>
<td>Monterey Park (n=3,423)</td>
<td>2,457 (68%)</td>
</tr>
<tr>
<td>Arcadia (n=3,937)</td>
<td>2,848 (71%)</td>
</tr>
</tbody>
</table>

| Redondo Beach (n=4,121)                  | 2,990 (71%)                                                         |
| Culver City (n=4,579)                    | 3,253 (72%)                                                         |
| Montebello (n=4,585)                     | 3,103 (64%)                                                         |
| Beverly Hills (n=4,802)                  | 2,758 (58%)                                                         |
| Alhambra (n=4,888)                       | 3,085 (64%)                                                         |
| West Covina (n=6,501)                    | 4,112 (63%)                                                         |
| Downey (n=7,544)                         | 6,009 (80%)                                                         |
| Burbank (n=7,613)                        | 4,590 (64%)                                                         |
| Compton (n=7,947)                        | 5,988 (73%)                                                         |
| Torrance (n=10,749)                      | 8,858 (81%)                                                         |
| Santa Monica (n=11,334)                  | 6,947 (79%)                                                         |
| Pasadena (n=13,298)                      | 10,528 (77%)                                                        |
| Glendale (n=14,754)                      | 10,733 (69%)                                                        |
| Long Beach (n=35,444)                    | 27,066 (69%)                                                        |
| LA City (n=218,947)*                     | 215,583 (98%)                                                       |
| LA County (n=332,021)                    | 243,848 (73%)                                                       |

*Minimal data on patients who were not-transported.
## Top 5 Reasons for EMS Response (All Ages)

### SPA 1
**Antelope Valley**

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/ &gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral</td>
<td>6</td>
<td>6</td>
<td>189</td>
<td>802</td>
<td>1,509</td>
<td>1,033</td>
<td>343</td>
<td>72</td>
<td>3,960</td>
<td>27%</td>
</tr>
<tr>
<td>Other Pain</td>
<td>6</td>
<td>20</td>
<td>69</td>
<td>330</td>
<td>876</td>
<td>1,293</td>
<td>824</td>
<td>42</td>
<td>3,460</td>
<td>23%</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>5</td>
<td>7</td>
<td>40</td>
<td>345</td>
<td>951</td>
<td>985</td>
<td>565</td>
<td>29</td>
<td>2,927</td>
<td>20%</td>
</tr>
<tr>
<td>Shortness of Breath</td>
<td>46</td>
<td>84</td>
<td>85</td>
<td>84</td>
<td>186</td>
<td>828</td>
<td>972</td>
<td>12</td>
<td>2,297</td>
<td>16%</td>
</tr>
<tr>
<td>Chest Pain</td>
<td>-</td>
<td>-</td>
<td>19</td>
<td>64</td>
<td>382</td>
<td>1,001</td>
<td>610</td>
<td>10</td>
<td>2,086</td>
<td>14%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>63</strong></td>
<td><strong>117</strong></td>
<td><strong>402</strong></td>
<td><strong>1,625</strong></td>
<td><strong>3,904</strong></td>
<td><strong>5,140</strong></td>
<td><strong>3,314</strong></td>
<td><strong>165</strong></td>
<td><strong>14,730</strong></td>
<td></td>
</tr>
<tr>
<td>% (age)</td>
<td>0.4%</td>
<td>1%</td>
<td>3%</td>
<td>11%</td>
<td>27%</td>
<td>35%</td>
<td>22%</td>
<td>1%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SPA 2
**San Fernando Valley**

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/ &gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altered LOC</td>
<td>26</td>
<td>37</td>
<td>67</td>
<td>605</td>
<td>1,552</td>
<td>2,137</td>
<td>4,589</td>
<td>22</td>
<td>9,035</td>
<td>24%</td>
</tr>
<tr>
<td>Weak/Dizzy</td>
<td>6</td>
<td>30</td>
<td>52</td>
<td>251</td>
<td>880</td>
<td>2,119</td>
<td>5,042</td>
<td>20</td>
<td>8,400</td>
<td>22%</td>
</tr>
<tr>
<td>Shortness of Breath</td>
<td>46</td>
<td>98</td>
<td>103</td>
<td>113</td>
<td>397</td>
<td>1,491</td>
<td>5,023</td>
<td>12</td>
<td>7,283</td>
<td>19%</td>
</tr>
<tr>
<td>Abdominal pain</td>
<td>2</td>
<td>16</td>
<td>53</td>
<td>467</td>
<td>1,741</td>
<td>2,081</td>
<td>2,074</td>
<td>26</td>
<td>6,460</td>
<td>17%</td>
</tr>
<tr>
<td>Chest Pain</td>
<td>-</td>
<td>3</td>
<td>16</td>
<td>103</td>
<td>722</td>
<td>2,411</td>
<td>3,028</td>
<td>10</td>
<td>6,293</td>
<td>17%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>80</strong></td>
<td><strong>184</strong></td>
<td><strong>291</strong></td>
<td><strong>1,539</strong></td>
<td><strong>5,292</strong></td>
<td><strong>10,239</strong></td>
<td><strong>19,756</strong></td>
<td><strong>90</strong></td>
<td><strong>37,471</strong></td>
<td></td>
</tr>
<tr>
<td>% (age)</td>
<td>0.2%</td>
<td>0.5%</td>
<td>1%</td>
<td>4%</td>
<td>14%</td>
<td>27%</td>
<td>53%</td>
<td>0.2%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SPA 3
**San Gabriel Valley**

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/ &gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral</td>
<td>5</td>
<td>6</td>
<td>212</td>
<td>1,309</td>
<td>2,822</td>
<td>2,137</td>
<td>908</td>
<td>155</td>
<td>7,554</td>
<td>22%</td>
</tr>
<tr>
<td>Extremity Injury</td>
<td>9</td>
<td>63</td>
<td>420</td>
<td>1,123</td>
<td>1,782</td>
<td>1,846</td>
<td>2,463</td>
<td>86</td>
<td>7,592</td>
<td>22%</td>
</tr>
<tr>
<td>Weak/Dizzy</td>
<td>9</td>
<td>13</td>
<td>71</td>
<td>221</td>
<td>664</td>
<td>1,480</td>
<td>4,384</td>
<td>60</td>
<td>6,902</td>
<td>20%</td>
</tr>
<tr>
<td>Altered LOC</td>
<td>8</td>
<td>30</td>
<td>40</td>
<td>317</td>
<td>748</td>
<td>1,401</td>
<td>3,682</td>
<td>182</td>
<td>6,408</td>
<td>19%</td>
</tr>
<tr>
<td>Other Pain</td>
<td>12</td>
<td>24</td>
<td>96</td>
<td>420</td>
<td>1,159</td>
<td>1,765</td>
<td>2,159</td>
<td>97</td>
<td>5,732</td>
<td>17%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>43</strong></td>
<td><strong>136</strong></td>
<td><strong>839</strong></td>
<td><strong>3,390</strong></td>
<td><strong>7,175</strong></td>
<td><strong>8,429</strong></td>
<td><strong>13,596</strong></td>
<td><strong>580</strong></td>
<td><strong>34,188</strong></td>
<td></td>
</tr>
<tr>
<td>% (age)</td>
<td>0.1%</td>
<td>0.4%</td>
<td>2%</td>
<td>10%</td>
<td>21%</td>
<td>25%</td>
<td>40%</td>
<td>2%</td>
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<td></td>
</tr>
</tbody>
</table>

### SPA 4
**Metro Area**

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/ &gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altered LOC</td>
<td>32</td>
<td>50</td>
<td>67</td>
<td>859</td>
<td>2,303</td>
<td>2,386</td>
<td>2,907</td>
<td>63</td>
<td>8,667</td>
<td>26%</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>3</td>
<td>15</td>
<td>81</td>
<td>810</td>
<td>2,459</td>
<td>2,467</td>
<td>1,644</td>
<td>9</td>
<td>7,488</td>
<td>22%</td>
</tr>
<tr>
<td>Chest Pain</td>
<td>-</td>
<td>5</td>
<td>14</td>
<td>142</td>
<td>977</td>
<td>2,716</td>
<td>2,239</td>
<td>9</td>
<td>6,102</td>
<td>18%</td>
</tr>
<tr>
<td>Weak/Dizzy</td>
<td>13</td>
<td>8</td>
<td>35</td>
<td>210</td>
<td>876</td>
<td>2,017</td>
<td>2,809</td>
<td>13</td>
<td>5,981</td>
<td>18%</td>
</tr>
<tr>
<td>Shortness of Breath</td>
<td>63</td>
<td>120</td>
<td>112</td>
<td>140</td>
<td>442</td>
<td>1,649</td>
<td>3,023</td>
<td>9</td>
<td>5,558</td>
<td>16%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>111</strong></td>
<td><strong>198</strong></td>
<td><strong>309</strong></td>
<td><strong>2,161</strong></td>
<td><strong>7,057</strong></td>
<td><strong>11,235</strong></td>
<td><strong>12,622</strong></td>
<td><strong>103</strong></td>
<td><strong>33,796</strong></td>
<td></td>
</tr>
<tr>
<td>% (age)</td>
<td>0.3%</td>
<td>0.6%</td>
<td>1%</td>
<td>6%</td>
<td>21%</td>
<td>33%</td>
<td>37%</td>
<td>0.3%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Top 5 Reasons for EMS Response (continuation)

### SPA 5

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/&gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremity Injury</td>
<td>2</td>
<td>20</td>
<td>163</td>
<td>582</td>
<td>1,132</td>
<td>911</td>
<td>1,209</td>
<td>50</td>
<td>4,069</td>
<td>25%</td>
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<tr>
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<td>2</td>
<td>14</td>
<td>23</td>
<td>381</td>
<td>727</td>
<td>681</td>
<td>1,427</td>
<td>19</td>
<td>3,274</td>
<td>20%</td>
</tr>
<tr>
<td>Weak/Dizzy</td>
<td>4</td>
<td>4</td>
<td>20</td>
<td>106</td>
<td>362</td>
<td>684</td>
<td>2,049</td>
<td>8</td>
<td>3,237</td>
<td>20%</td>
</tr>
<tr>
<td>No Apparent Injury</td>
<td>10</td>
<td>14</td>
<td>17</td>
<td>97</td>
<td>194</td>
<td>208</td>
<td>393</td>
<td>2144</td>
<td>3,077</td>
<td>19%</td>
</tr>
<tr>
<td>Behavioral</td>
<td>5</td>
<td>4</td>
<td>50</td>
<td>420</td>
<td>1,015</td>
<td>708</td>
<td>370</td>
<td>25</td>
<td>2,597</td>
<td>16%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>23</strong></td>
<td><strong>56</strong></td>
<td><strong>273</strong></td>
<td><strong>1,586</strong></td>
<td><strong>3,430</strong></td>
<td><strong>3,192</strong></td>
<td><strong>5,448</strong></td>
<td><strong>2,246</strong></td>
<td><strong>16,254</strong></td>
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</tr>
<tr>
<td>% (age)</td>
<td>0.1%</td>
<td>0.3%</td>
<td>2%</td>
<td>10%</td>
<td>21%</td>
<td>20%</td>
<td>34%</td>
<td>14%</td>
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</table>

### SPA 6

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<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/&gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral</td>
<td>7</td>
<td>7</td>
<td>154</td>
<td>726</td>
<td>1,544</td>
<td>1,039</td>
<td>298</td>
<td>96</td>
<td>3,871</td>
<td>26%</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>1</td>
<td>11</td>
<td>59</td>
<td>458</td>
<td>1,067</td>
<td>1,114</td>
<td>637</td>
<td>52</td>
<td>3,399</td>
<td>23%</td>
</tr>
<tr>
<td>Other Pain</td>
<td>6</td>
<td>15</td>
<td>87</td>
<td>314</td>
<td>708</td>
<td>1,182</td>
<td>785</td>
<td>71</td>
<td>3,168</td>
<td>21%</td>
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<td>6</td>
<td>17</td>
<td>24</td>
<td>119</td>
<td>428</td>
<td>687</td>
<td>864</td>
<td>85</td>
<td>2,230</td>
<td>15%</td>
</tr>
<tr>
<td>Weak/Dizzy</td>
<td>8</td>
<td>3</td>
<td>25</td>
<td>88</td>
<td>326</td>
<td>756</td>
<td>967</td>
<td>27</td>
<td>2,200</td>
<td>15%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>28</strong></td>
<td><strong>53</strong></td>
<td><strong>349</strong></td>
<td><strong>1,705</strong></td>
<td><strong>4,073</strong></td>
<td><strong>4,778</strong></td>
<td><strong>3,551</strong></td>
<td><strong>331</strong></td>
<td><strong>14,868</strong></td>
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</tr>
<tr>
<td>% (age)</td>
<td>0.2%</td>
<td>0.4%</td>
<td>2%</td>
<td>11%</td>
<td>27%</td>
<td>32%</td>
<td>24%</td>
<td>2%</td>
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</table>

### SPA 7

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<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/&gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral</td>
<td>13</td>
<td>8</td>
<td>302</td>
<td>1,655</td>
<td>3,351</td>
<td>2,261</td>
<td>746</td>
<td>306</td>
<td>8,642</td>
<td>28%</td>
</tr>
<tr>
<td>Other Pain</td>
<td>8</td>
<td>28</td>
<td>102</td>
<td>513</td>
<td>1,304</td>
<td>2,173</td>
<td>1,960</td>
<td>204</td>
<td>6,292</td>
<td>21%</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>6</td>
<td>13</td>
<td>79</td>
<td>597</td>
<td>1,530</td>
<td>1,623</td>
<td>1,349</td>
<td>146</td>
<td>5,343</td>
<td>17%</td>
</tr>
<tr>
<td>Altered LOC</td>
<td>7</td>
<td>23</td>
<td>39</td>
<td>278</td>
<td>673</td>
<td>1,274</td>
<td>2,601</td>
<td>282</td>
<td>5,177</td>
<td>17%</td>
</tr>
<tr>
<td>Weak/Dizzy</td>
<td>7</td>
<td>6</td>
<td>50</td>
<td>215</td>
<td>586</td>
<td>1,484</td>
<td>2,729</td>
<td>99</td>
<td>5,176</td>
<td>17%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>41</strong></td>
<td><strong>78</strong></td>
<td><strong>572</strong></td>
<td><strong>3,258</strong></td>
<td><strong>7,444</strong></td>
<td><strong>8,815</strong></td>
<td><strong>9,385</strong></td>
<td><strong>1,037</strong></td>
<td><strong>30,630</strong></td>
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</tr>
<tr>
<td>% (age)</td>
<td>0.1%</td>
<td>0.3%</td>
<td>2%</td>
<td>11%</td>
<td>24%</td>
<td>29%</td>
<td>31%</td>
<td>3%</td>
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</tbody>
</table>

### SPA 8

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>&lt;1 yr</th>
<th>1-4 yrs</th>
<th>5-14 yrs</th>
<th>15-24 yrs</th>
<th>25-44 yrs</th>
<th>45-64 yrs</th>
<th>65/&gt;65 yrs</th>
<th>Unk</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altered LOC</td>
<td>14</td>
<td>59</td>
<td>76</td>
<td>591</td>
<td>1,756</td>
<td>2,669</td>
<td>4,060</td>
<td>143</td>
<td>9,368</td>
<td>21%</td>
</tr>
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<td>Behavioral</td>
<td>9</td>
<td>4</td>
<td>212</td>
<td>1,565</td>
<td>3,576</td>
<td>2,792</td>
<td>1,030</td>
<td>137</td>
<td>9,325</td>
<td>21%</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>7</td>
<td>16</td>
<td>111</td>
<td>966</td>
<td>2,643</td>
<td>2,973</td>
<td>2,047</td>
<td>52</td>
<td>8,815</td>
<td>20%</td>
</tr>
<tr>
<td>Extremity Injury</td>
<td>10</td>
<td>78</td>
<td>545</td>
<td>1,476</td>
<td>2,341</td>
<td>2,378</td>
<td>2,169</td>
<td>74</td>
<td>9,071</td>
<td>21%</td>
</tr>
<tr>
<td>Weak/Dizzy</td>
<td>7</td>
<td>13</td>
<td>48</td>
<td>302</td>
<td>811</td>
<td>2,177</td>
<td>4,103</td>
<td>37</td>
<td>7,498</td>
<td>17%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>47</strong></td>
<td><strong>170</strong></td>
<td><strong>992</strong></td>
<td><strong>4,900</strong></td>
<td><strong>11,127</strong></td>
<td><strong>12,989</strong></td>
<td><strong>13,409</strong></td>
<td><strong>443</strong></td>
<td><strong>44,077</strong></td>
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</tr>
<tr>
<td>% (age)</td>
<td>0.1%</td>
<td>0.4%</td>
<td>2%</td>
<td>11%</td>
<td>25%</td>
<td>29%</td>
<td>30%</td>
<td>1%</td>
<td></td>
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</tr>
</tbody>
</table>
Emergency Department Volume

- Reported Annual ED Visits
- Walk-In
- 9-1-1 Transports

<table>
<thead>
<tr>
<th>Year</th>
<th>Adult: Reported</th>
<th>Pediatric: Reported</th>
<th>Walk-In</th>
<th>9-1-1 Transports</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>373,514</td>
<td>431,692</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2001</td>
<td>352,084</td>
<td>431,692</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>377,791</td>
<td>431,692</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>2,471,161</td>
<td>431,692</td>
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<td></td>
</tr>
<tr>
<td>2004</td>
<td>2,733,079</td>
<td>2,744,990</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>3,233,927</td>
<td>2,829,682</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>2,660,372</td>
<td>2,718,263</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2007</td>
<td>2,802,265</td>
<td>3,103,336</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>2,829,682</td>
<td>3,084,694</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>2,774,990</td>
<td>3,120,413</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>2,777,911</td>
<td>3,146,513</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>2,750,433</td>
<td>3,147,765</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>2,711,926</td>
<td>3,327,824</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>2,683,400</td>
<td>3,417,625</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>2,655,781</td>
<td>3,500,075</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>2,970,926</td>
<td>3,591,459</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>2,986,924</td>
<td>3,691,459</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>3,185,139</td>
<td>3,761,020</td>
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</tbody>
</table>

* Fiscal Year 2016-2017

Adult: 15 years and older

Pediatric: 14 years and younger

- Adult: 81% (2017)
- Pediatric: 19% (2017)
- Walk-In: 17% (2016)
- 9-1-1 Transports: 17% (2016)
**LOS ANGELES COUNTY EMS SYSTEM REPORT**

**ED Patient Disposition**
*(walk-in and 9-1-1)*

- Admitted to Intensive Care Unit
- Admitted to Non-Intensive Care Unit Area
- Discharged from ED/24 hr Observation

<table>
<thead>
<tr>
<th>Year</th>
<th>Admitted to ICU</th>
<th>Admitted to NICU</th>
<th>Discharged</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>59,011 (2%)</td>
<td>425,691 (15%)</td>
<td>2,290,288 (83%)</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>87,416 (3%)</td>
<td>495,332 (16%)</td>
<td>2,430,588 (81%)</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>67,711 (2%)</td>
<td>447,255 (13%)</td>
<td>2,985,109 (85%)</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>58,969 (2%)</td>
<td>533,967 (14%)</td>
<td>3,098,523 (84%)</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>67,759 (2%)</td>
<td>592,747 (16%)</td>
<td>3,124,398 (82%)</td>
<td></td>
</tr>
</tbody>
</table>

**ED Patient Type**
*(walk-in and 9-1-1)*

- Critical
- Urgent
- Non-Urgent

<table>
<thead>
<tr>
<th>Year</th>
<th>Critical</th>
<th>Urgent</th>
<th>Non-Urgent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>509,703 (18%)</td>
<td>1,346,615 (49%)</td>
<td>918,672 (32%)</td>
</tr>
<tr>
<td>2010</td>
<td>709,746 (24%)</td>
<td>1,637,351 (54%)</td>
<td>1,024,229 (33%)</td>
</tr>
<tr>
<td>2015</td>
<td>1,050,279 (30%)</td>
<td>1,824,564 (52%)</td>
<td>625,232 (18%)</td>
</tr>
<tr>
<td>2016</td>
<td>938,502 (25%)</td>
<td>1,996,950 (54%)</td>
<td>756,007 (20%)</td>
</tr>
<tr>
<td>2017</td>
<td>1,069,821 (32%)</td>
<td>2,071,142 (55%)</td>
<td>649,810 (17%)</td>
</tr>
</tbody>
</table>

**Critical**—a patient presents an acute injury or illness that could result in permanent damage, injury or death (head injury, vehicular accident, shooting). Applicable Current Procedural Terminology (CPT) codes for this level of service would be 99284 (detailed history, detailed physical, and medical decision making of moderate complexity) or 99285 (medical decision making of high complexity) or 99291 (critical care, evaluation and management).

**Urgent**—a patient with an acute injury or illness, loss of life or limb is not an immediate threat to their well-being, or a patient who needs timely evaluation (fracture or laceration). Applicable CPT codes for this level of service would be 99282 (medical decision making of low complexity) or 99283 (medical decision making of moderate complexity).

**Non-Urgent**—a patient with a non-emergent injury, illness or condition; sometimes chronic; that can be treated in a non-emergency setting and not necessarily on the same day they are seen in the ED (pregnancy tests, toothache, minor cold, ingrown toenail). An applicable CPT code for this level of service would be 99281 (straight forward medical decision making).
Patient Disposition: All Trauma

2012: LA County adopted the Centers for Disease Control and Prevention Guidelines for Field Triage of Injured Patients
2015: Trauma Center Registry inclusion criteria was reduced.

* Transferred to another health facility
**Injury Severity Score by Mechanism of Injury**

**Definition:**

Injury Severity Score (ISS): It is an established medical score to assess trauma severity. It correlates with mortality, morbidity and hospitalization time after trauma. It is used to define the term major trauma. A major trauma (or polytrauma) is defined as the ISS being greater than 15.

### Motor Vehicular Accident

<table>
<thead>
<tr>
<th>Year</th>
<th>1 to 15</th>
<th>&gt; 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>1,019</td>
<td>5,796</td>
</tr>
<tr>
<td>2009</td>
<td>990</td>
<td>5,594</td>
</tr>
<tr>
<td>2010</td>
<td>967</td>
<td>5,371</td>
</tr>
<tr>
<td>2011</td>
<td>987</td>
<td>5,653</td>
</tr>
<tr>
<td>2012</td>
<td>1,016</td>
<td>6,641</td>
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<tr>
<td>2013</td>
<td>993</td>
<td>7,249</td>
</tr>
<tr>
<td>2014</td>
<td>1,030</td>
<td>7,297</td>
</tr>
<tr>
<td>2015</td>
<td>1,164</td>
<td>8,087</td>
</tr>
<tr>
<td>2016</td>
<td>1,027</td>
<td>7,369</td>
</tr>
<tr>
<td>2017</td>
<td>1,140</td>
<td>6,325</td>
</tr>
</tbody>
</table>

### Automobile vs Pedestrian/Bicyclist

<table>
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<th>1 to 15</th>
<th>&gt; 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>2,990</td>
<td>2,998</td>
</tr>
<tr>
<td>2009</td>
<td>2,915</td>
<td>4,189</td>
</tr>
<tr>
<td>2010</td>
<td>2,479</td>
<td>4,253</td>
</tr>
<tr>
<td>2011</td>
<td>2,400</td>
<td>4,551</td>
</tr>
<tr>
<td>2012</td>
<td>2,698</td>
<td>5,364</td>
</tr>
<tr>
<td>2013</td>
<td>3,519</td>
<td>4,758</td>
</tr>
<tr>
<td>2014</td>
<td>3,590</td>
<td>4,324</td>
</tr>
<tr>
<td>2015</td>
<td>3,782</td>
<td>84%</td>
</tr>
<tr>
<td>2016</td>
<td>3,984</td>
<td>84%</td>
</tr>
<tr>
<td>2017</td>
<td>3,389</td>
<td>78%</td>
</tr>
</tbody>
</table>

### Other Blunt Injuries

<table>
<thead>
<tr>
<th>Year</th>
<th>1 to 15</th>
<th>&gt; 15</th>
</tr>
</thead>
<tbody>
<tr>
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Injury Severity Score by Mechanism of Injury

**Gunshot Wound**
- 1 to 15
- > 15

**Stab Wound**
- 1 to 15
- > 15

**Other Penetrating Injury**
- 1 to 15
- > 15
**ST-Elevation Myocardial Infarction (STEMI)**

**9-1-1 Transports to STEMI Receiving Centers (SRC)**

**To Cath Lab**
- PH ECG STEMI
- Cath Lab Activations
- Received PCI
- Cath Lab but no PCI
  - normal coronaries/no lesion found; difficult cath; unable to cannulate/dilate vessel/cross lesion/locate artery; candidate for CABG/IABP; expired in cath lab; vessel spasm; etc.

**No Cath Lab**
- Not Indicated
- Not a Candidate or Refused
- Unknown/Other

*Not Indicated:* discordant ECG, early repolarization, physician decision, vasospasm resolved

*Not a Candidate or Refused:* age, allergy, CABG, DNR, medical condition, multivesel disease, died prior, treatment refused
SRC: Door-to-Balloon (D2B) Time

- Median D2B time (mins)
- % with D2B < 90 mins
- % with D2B < 60 mins

SRC: EMS Medical Contact-to-Balloon (E2B) Time

- Median E2B time (mins)
- % with E2B < 90 mins
STEMI Referral Facility (SRF) Interfacility Transfers (IFT) via 9-1-1

- **IFTs via 9-1-1**
- **To Cath Lab**
- **Received PCI**
- **Cath Lab but No PCI**
  - normal coronaries/no lesion found;
  - difficult cath/unable to cannulate/dilate vessel/cross lesion/locate artery;
  - candidate for CABG/IABP;
  - expired in cath lab;
  - vessel spasm; etc.

### 2012
- 355 (81%)
- 288/355 (81%)
- 79/288 (27%)

### 2013
- 456 (82%)
- 279/375 (74%)
- 96/375 (26%)

### 2014
- 599 (82%)
- 493/599 (82%)
- 123/493 (25%)

### 2015
- 707 (81%)
- 573/707 (81%)
- 158/573 (28%)

### 2016
- 813 (75%)
- 457/610 (75%)
- 153/610 (25%)

### 2017
- 797 (76%)
- 435/602 (72%)
- 167/602 (28%)

#### No Cath Lab
- **Not Indicated**
- **Not a Candidate or Refused**
- **Unknown/Other**

**Not Indicated:** discordant ECG, early repolarization, physician decision, vasospasm resolved

**Not a Candidate or Refused:** age, allergy, CABG, DNR, medical condition, multivessel disease, died prior, treatment refused

### 2012
- 67/355 (19%)
- 53/67 (16%)
- 11/67 (16%)
- 3/67 (4%)

### 2013
- 81/456 (18%)
- 70/81 (86%)
- 5/81 (6%)
- 6/81 (7%)

### 2014
- 106/599 (18%)
- 88/106 (83%)
- 12/106 (11%)
- 6/106 (6%)

### 2015
- 134/707 (19%)
- 99/134 (74%)
- 21/134 (16%)
- 14/134 (10%)

### 2016
- 203/813 (25%)
- 175/203 (86%)
- 21/203 (10%)
- 7/203 (3%)

### 2017
- 195/797 (24%)
- 166/195 (85%)
- 12/195 (6%)
**SRF: Door-To-Balloon (D2B) Time**

- Median SRF D2B:
  - 2012: 119 mins
  - 2013: 110 mins
  - 2014: 105 mins
  - 2015: 107 mins
  - 2016: 109 mins
  - 2017: 106 mins

- % SRF D2B < 120 mins:
  - 2012: 50%
  - 2013: 58%
  - 2014: 62%
  - 2015: 61%
  - 2016: 58%
  - 2017: 62%

- % SRF D2B < 90 mins:
  - 2012: 20%
  - 2013: 27%
  - 2014: 31%
  - 2015: 27%
  - 2016: 29%
  - 2017: 31%

LA County SRF D2B Goal: 90% D2B within 90 mins

**SRF: Door-In Door-Out (DIDO) Time**

- 2014:
  - Median DIDO Time: 50 mins (49%)
  - % DIDO > 45 mins: 27%
  - % DIDO 30-45 mins: 14%
  - % DIDO <30 mins: 14%

- 2015:
  - Median DIDO Time: 50 mins (46%)
  - % DIDO > 45 mins: 29%
  - % DIDO 30-45 mins: 13%
  - % DIDO <30 mins: 13%

- 2016:
  - Median DIDO Time: 55 mins (46%)
  - % DIDO > 45 mins: 23%
  - % DIDO 30-45 mins: 14%
  - % DIDO <30 mins: 15%

- 2017:
  - Median DIDO Time: 52 mins (48%)
  - % DIDO > 45 mins: 25%
  - % DIDO 30-45 mins: 15%
  - % DIDO <30 mins: 15%

LA County SRF DIDO Goal: 30 mins
Out of Hospital Cardiac Arrest
Return of Spontaneous Circulation (ROSC)

Frequency of Cath Lab and Percutaneous Coronary Intervention (PCI)

Conditions Met include: witnessed arrest, shockable rhythm (VF/VT), age <85 years old, no DNR, terminal illness, or co-morbid disease (ESRD)

ROSC with STEMI includes field STEMI alerts

Frequency of Immediate Catheterization

ROSC without STEMI + Conditions Met
ROSC without STEMI + Cath Lab
ROSC without STEMI + PCI

Conditions Met include: witnessed arrest, shockable rhythm (VF/VT), age <85 years old, no DNR, terminal illness, or co-morbid disease (ESRD)
**Suspected Stroke Patient Destination**

The rerouting of suspected stroke patients with large vessel occlusions based on a Los Angeles Motor Scale (LAMS) score of 4 or 5 to designated Comprehensive Stroke Centers began on January 8, 2018.

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Data Source: TEMIS-Base