EMS Call Volumes

This data set is from 1/1/22 - 3/31/22
So far we are over 30,000 calls for the year
EMS Volume compared to prior years

EMS Incident Type Trend
01/01/2018 through 03/31/2022

Data represented here is based on the quarterly geocoded data for EMS Incident Types. Months may be blank for the current quarter or until geocoded.
Reasons for calling 911/Transport

Multiple Age Group: Impressions and Medical Trauma

01/01/2022 through 03/31/2022

Top 10 Primary Impressions

- Injury: 1,332
- Generalized Weakness: 429
- Syncope/Fainting: 393
- Behavioral/psychiatric: 383
- Acute Respiratory Distress: 363
- Abdominal Pain: 362
- Seizures: 338
- Chest Pain/Dyspnea: 332
- Altered Mental Status: 288
- Sepsis/Septicemia: 285

Medical Trauma Comparison

- Medical: 5,371
- Trauma: 1,477
- Medical & Trauma: 309

Data is based on current ESO records.
Where are we transporting patients?

Top 10 Hospital Destinations, January - July 2022

- Sky Ridge Medical Center: 24.4%
- Littleton Adventist Hospital: 22.9%
- Parker Adventist Hospital: 16.6%
- UC Health Highlands Ranch Hospital: 13.1%
- Swedish Medical Center: 5.0%
- The Medical Center of Aurora (TMCA): 5.0%
- Castle Rock Adventist Hospital: 1.5%
- UC Health Aurora Hospital: 1.7%
- Children’s Hospital Highlands Ranch: 1.3%
- Other: 5.3%
How do we pick hospital destination?

**Transport Reasons from ESO, January - July 2022**

- Closest Facility: 69.1%
- Patient's Choice: 10.6%
- Family Choice: 9.0%
- Diversion: 5.3%
- Protocol: 2.9%
- Other: 2.2%
- Other Categories: 0.9%
How are we doing?

- Data from our partners in the community (most data coming from Centura)
- Overall very good to excellent!
- SMFR is the regional leader in accuracy, quality of care, and outcomes.
# CARES Data for 2021

(Cardiac Arrest Registry to Enhance Survival)

<table>
<thead>
<tr>
<th></th>
<th>SMFR</th>
<th>Colorado</th>
<th>National</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patients</strong></td>
<td>350</td>
<td>3,727</td>
<td>146,891</td>
</tr>
<tr>
<td><strong>Survival to Admission</strong></td>
<td>103 (29.4%)</td>
<td>1,073 (28.8%)</td>
<td>36,294 (24.7%)</td>
</tr>
<tr>
<td><strong>Survive to Discharge</strong></td>
<td>57 (16.3%)</td>
<td>457 (12.3%)</td>
<td>13,403 (9.1%)</td>
</tr>
<tr>
<td><strong>Good neuro outcome</strong></td>
<td>55 (15.7%)</td>
<td>412 (11.1%)</td>
<td>10,532 (7.2%)</td>
</tr>
</tbody>
</table>
# STEMI Alert Data

## July 2021 - July 2022

<table>
<thead>
<tr>
<th></th>
<th>Overall Accuracy</th>
<th>Met STEMI Criteria</th>
<th>Number of patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMFR</td>
<td>90%</td>
<td>96%</td>
<td>541</td>
</tr>
<tr>
<td>Other Agencies</td>
<td>84%</td>
<td>75%</td>
<td>982</td>
</tr>
</tbody>
</table>
# Stroke Alert Data

**July 2021 - July 2022**

<table>
<thead>
<tr>
<th></th>
<th>Overall Accuracy</th>
<th>Met STROKE Criteria</th>
<th>Number of patients</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SMFR</strong></td>
<td>96%</td>
<td>86%</td>
<td>1,387</td>
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<tr>
<td><strong>Other Agencies</strong></td>
<td>91%</td>
<td>92%</td>
<td>1,928</td>
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</table>
### SEPSIS Alert Data
#### July 2021 - July 2022

<table>
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<th>Overall Accuracy</th>
<th>Met SEPSIS Criteria</th>
<th>Number of Patients</th>
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</thead>
<tbody>
<tr>
<td>SMFR</td>
<td>77%</td>
<td>87%</td>
</tr>
<tr>
<td>Other Agencies</td>
<td>79%</td>
<td>79%</td>
</tr>
</tbody>
</table>
Special Projects

- Ultrasound
  - Now on every ambulance
  - Training medics to have 100% coverage
  - Incorporated into protocols
  - Recognition by Congressional Fire Services Institute
- Expanded role from TOR to eFAST
- Future plans
Special Projects

- TXA
  - Agency wide protocol rolled out mid June this year
  - Used twice since then
  - Model for other agencies
Special Projects

- Collaborate with our regional medical partners to call ahead for blood from the field.
- Direct to rehab/psych facilities transport
- Rapid Sequence Intubation
- NIBP
- Point of care laboratory testing
- Community paramedicine program
- Canine program
- Regional Special Teams training
Goals for the Future

- Continue to focus on high quality education (including the cadaver lab - already seeing benefits in patient care)
- High performance CPR program (evaluate outcomes)
- Address areas of weakness (sepsis slide)
- Stringent quality improvement
- Continue to collaborate with our partners
Questions?