System Utilization
Q2 2013 Report
Contra Costa County 911 Ambulance
% Transport per Response by Month Through Q2 2013
Median=76.3%
(Data excludes SRVFD)
Contra Costa County
911 Ambulance Responses Run Chart Analysis
by Month through Q2 2013
(excludes data from SRVFD)

N 18
Average 6939.2778
Median 6926.5
N Runs 10
Min Runs 5
Max Runs 14
No Special Cause Detected

Tests:
A. Fails Runs Test
B. Trend of 7
C. 8 One Side of Median
D. 14 Alternating
E. 7 Same Value
X. Excluded or Missing Data
Contra Costa County
911 Ambulance Transports Run Chart Analysis
by Month through Q2 2013
(excludes data from SRVFD)

Tests:
A. Fails Runs Test
B. Trend of 7
C. 8 One Side of Median
D. 14 Alternating
E. 7 Same Value
X. Excluded or Missing Data

No special cause detected.
Contra Costa Hospitals
EMS Diversion by Cumulative Hours
Q2 2013
N=584 hr.'s

Power Outage

<table>
<thead>
<tr>
<th>Hospital</th>
<th>Hr.'s</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRVMC</td>
<td>298</td>
</tr>
<tr>
<td>CCRMC</td>
<td>163</td>
</tr>
<tr>
<td>DSP</td>
<td>118</td>
</tr>
<tr>
<td>KR</td>
<td>5</td>
</tr>
<tr>
<td>KWC</td>
<td>0</td>
</tr>
<tr>
<td>JMMCCWC</td>
<td>0</td>
</tr>
<tr>
<td>JMMC-C</td>
<td>0</td>
</tr>
<tr>
<td>SDMC</td>
<td>0</td>
</tr>
</tbody>
</table>
Contra Costa Hospitals
EMS Diversion by Cause (%)
Q2 2013: N=584 hr.'s

- CT: 72%
- Trauma: 15%
- Other: 13%
- STEMI: 7%
- INT: 6%
Base Hospital
Q2 2013 Report
Base Hospital Average Daily Calls
By Year to Q2 2013
N(Q2)=775

Calls per day

<table>
<thead>
<tr>
<th>Year</th>
<th>Calls per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>12.1</td>
</tr>
<tr>
<td>2003</td>
<td>11.5</td>
</tr>
<tr>
<td>2004</td>
<td>10.1</td>
</tr>
<tr>
<td>2005</td>
<td>9.9</td>
</tr>
<tr>
<td>2007</td>
<td>9.4</td>
</tr>
<tr>
<td>2008</td>
<td>9.0</td>
</tr>
<tr>
<td>2009</td>
<td>7.9</td>
</tr>
<tr>
<td>2010</td>
<td>8.1</td>
</tr>
<tr>
<td>2011</td>
<td>8.8</td>
</tr>
<tr>
<td>2012</td>
<td>8.6</td>
</tr>
<tr>
<td>2013</td>
<td>8.7 (median)</td>
</tr>
</tbody>
</table>

Median = 9.4
AVERAGE DAILY BASE CALL BY CALL TYPE
To Q2 2013

Average daily base call by call type to Q2 2013.
<table>
<thead>
<tr>
<th>Year</th>
<th>Pediatric Calls</th>
<th>Adult Calls</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>421</td>
<td>3988</td>
</tr>
<tr>
<td>2003</td>
<td>369</td>
<td>3815</td>
</tr>
<tr>
<td>2004</td>
<td>390</td>
<td>3309</td>
</tr>
<tr>
<td>2005</td>
<td>360</td>
<td>3239</td>
</tr>
<tr>
<td>2006</td>
<td>290</td>
<td>3153</td>
</tr>
<tr>
<td>2007</td>
<td>297</td>
<td>2983</td>
</tr>
<tr>
<td>2008</td>
<td>216</td>
<td>2673</td>
</tr>
<tr>
<td>2009</td>
<td>258</td>
<td>2708</td>
</tr>
<tr>
<td>2010</td>
<td>138</td>
<td>3084</td>
</tr>
<tr>
<td>2012</td>
<td>209</td>
<td>2930</td>
</tr>
<tr>
<td>2013</td>
<td>214</td>
<td>2979</td>
</tr>
</tbody>
</table>

Note: Pediatric age 14 or below
Cardiac Arrest
Q2 2013 Report

Data Source: CARES Registry through June 2012.
Excludes Medical Facilities (hospitals, clinics, SNF); Excludes arrest after EMS arrival
% Bystander CPR by Quarter
By Quarter through Q2 2013
N=109/56
Cardiac Arrest Survival Utstein
By Quarter through Q2: 2013


- Q1 2011: 26%
- Q2 2011: 25%
- Q3 2011: 37%
- Q4 2011: 17%
- Q1 2012: 0%
- Q2 2012: 5%
- Q3 2012: 10%
- Q4 2012: 15%
- Q1 2013: 20%
- Q2 2013: 25%
STEMI System
Q1 2013 Report
Contra Costa STEMI System
Median Prehospital Scene Time Interval
Run Chart Analysis by Quarter through Q2: 2013

Tests:
A. Fails Runs Test
B. Trend of 7
C. 8 One Side of Median
D. 14 Alternating
E. 7 Same Value
X. Excluded or Missing Data

N
Average 13.683333
Median 13
N Runs 2
Min Runs 1
Max Runs 6
No Special Cause Detected
Contra Costa STEMI System
Overtriage By Month through Q2: 2013

Activations: N=52
Confirmed: N=24
% Overtriage: 46%
Contra Costa STEMI System
Time Interval: 911 to Intervention
Q2: 2013

%
Stroke System
Q2 2013 Report

Data Source: MEDS 3 California Stroke Registry
Trauma System Activations and Discharge based upon ISS Q2 2013

<table>
<thead>
<tr>
<th>Month</th>
<th>%ISS &gt;15 Trauma Activations</th>
<th>%ISS &lt;15 Trauma Activations</th>
<th>%ISS &lt;15 Discharged Home</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAN 12</td>
<td>15</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>FEB 12</td>
<td>23</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>MAR 12</td>
<td>17</td>
<td>74</td>
<td>74</td>
</tr>
<tr>
<td>APR 12</td>
<td>14</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>MAY 12</td>
<td>16</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>JUN 12</td>
<td>29</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>JUL 12</td>
<td>29</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>AUG 12</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>SEP 12</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>Q1 2013</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Q2 2013</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
</tbody>
</table>

Legend:
- **Series1**: %ISS >15 Trauma Activations
- **Series2**: %ISS <15 Trauma Activations
- **Series4**: %ISS <15 Discharged Home
Median Prehospital On Scene Time Interval
Blunt vs. Penetrating Trauma
Q2 2013

Time
In
Mins

16
Blunt

14
Penetrating
Patient Safety
Q2 2013
Contra Costa EMS Patient Safety Events by Frequency and Type
Q2 2013: N=12

- Operations: N=7
- Clinical: N=3
- Other: N=2

Q2 2013 High Risk Incidents N = 1
Adhoc Studies
Q2 2013
Average Time from Ambulance Arrival to Transfer of Care
CCRMC - Behavioral/Psychiatric Patients
## Large Bore IV Starts by Provider Impression

**Jan-Oct 2013**

*n=2996*

<table>
<thead>
<tr>
<th>Type Impression</th>
<th>Series1</th>
<th>Series2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trauma - Pen</td>
<td>10%</td>
<td>31%</td>
</tr>
<tr>
<td>Trauma - Head</td>
<td>3%</td>
<td>22%</td>
</tr>
<tr>
<td>Trauma - Blu</td>
<td>1%</td>
<td>9%</td>
</tr>
<tr>
<td>Trauma - Lac</td>
<td>0%</td>
<td>9%</td>
</tr>
<tr>
<td>Trauma - Fx</td>
<td>0%</td>
<td>5%</td>
</tr>
<tr>
<td>Cardiac - CA</td>
<td>3%</td>
<td>5%</td>
</tr>
<tr>
<td>Tox - ETOH</td>
<td>1%</td>
<td>7%</td>
</tr>
<tr>
<td>Vascular - Hypo</td>
<td>0.50%</td>
<td>4%</td>
</tr>
</tbody>
</table>
Numerical Documentation of ETCO2
Endotracheal Tube vs. King Airway
2012-13

Non-Traumatic Cardiac Arrest (145 / 112)
- Non-Traumatic - Perfusing (4 / 2) 71% ET, 49% King
- Traumatic Arrest (7 / 9) 100% ET

Traumatic - Perfusing (4 / 4)
- 25% ET, 25% King

All Patients (160 / 127)
- 70% ET, 37% King
END REPORT
Q2 2013