



MATTHEW CONSTANTINE
DIRECTOR

EMERGENCY MEDICAL SERVICES SYSTEM COLLABORATIVE MEETING

Thursday
April 6, 2017





KERN COUNTY
Public Health Services
DEPARTMENT

MATTHEW CONSTANTINE
DIRECTOR

INTRODUCTIONS



Agenda - EMS System Collaborative

2:00 PM Thursday, April 6, 2017

Public Health Office, San Joaquin Room, 1800 Mt. Vernon Ave., Bakersfield



	What	Who	Why	Time*
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QI MEETING FEEDBACK

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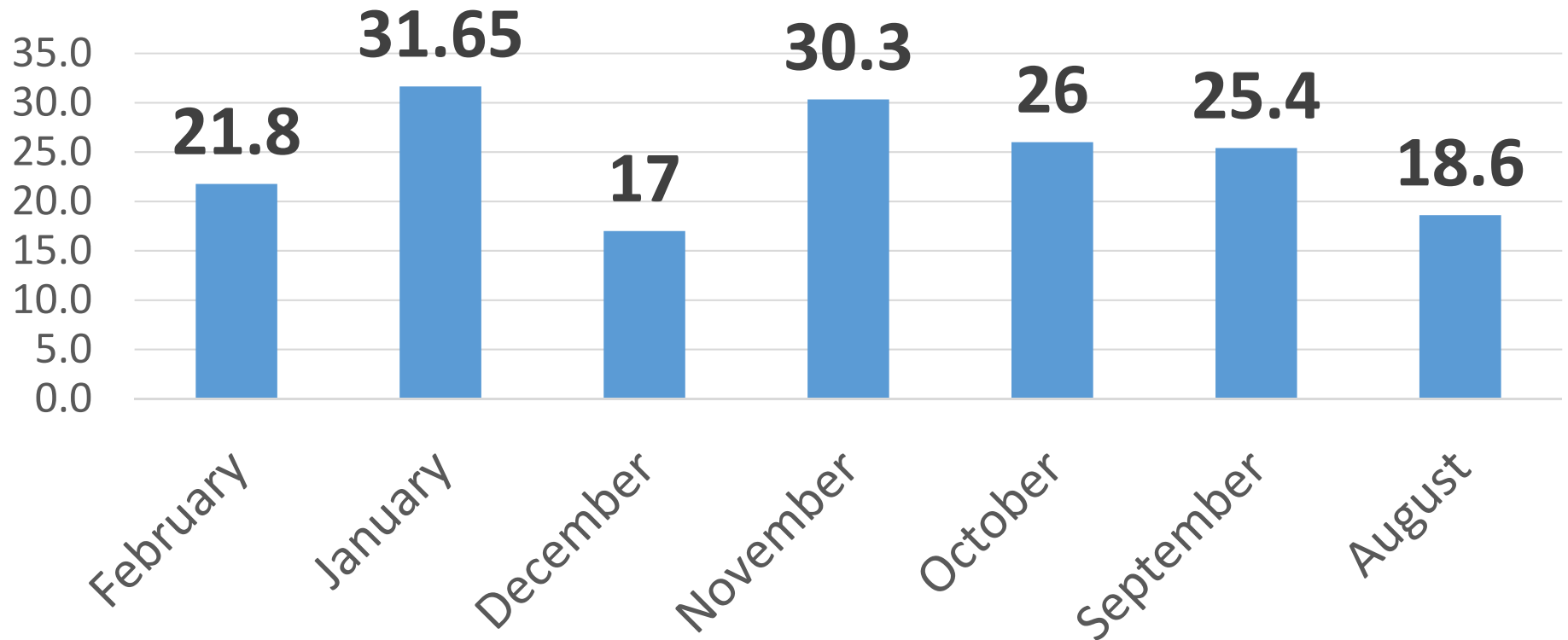
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EMS System Collaborative

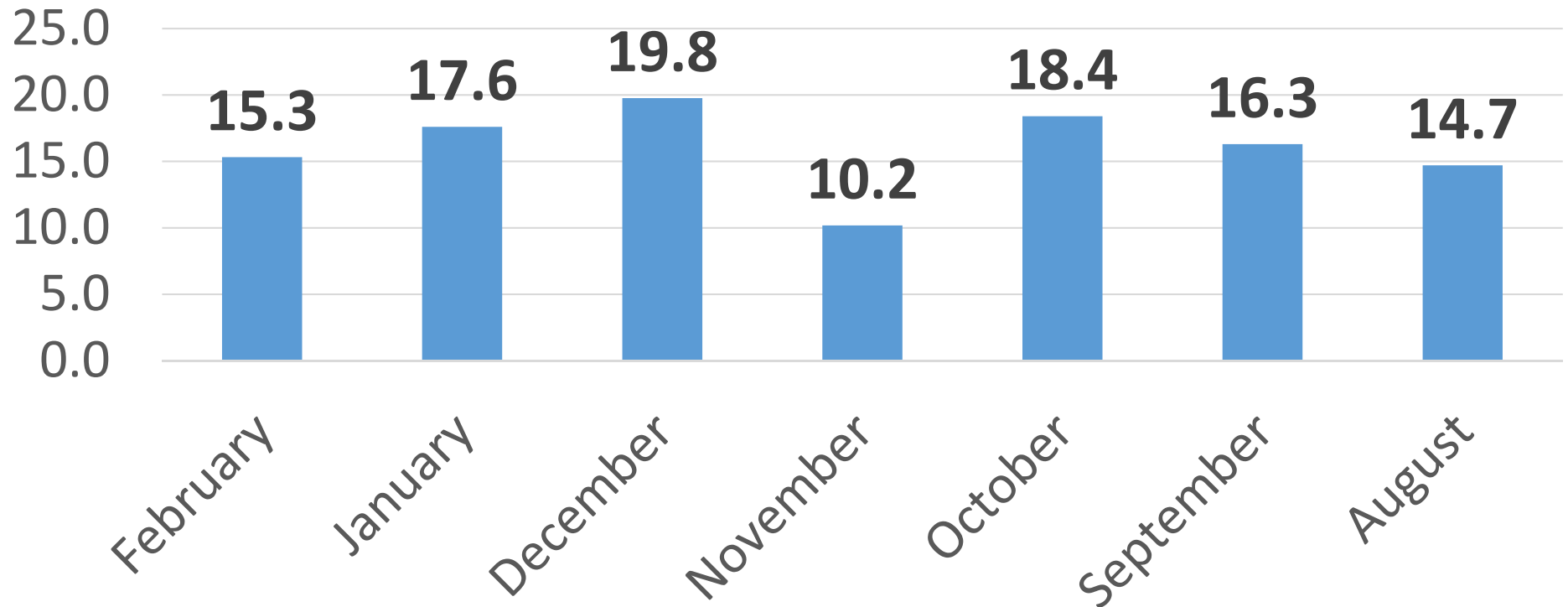
TEC April 6th, 2017

Ground On Scene Time 90th Percentile -

Unfiltered

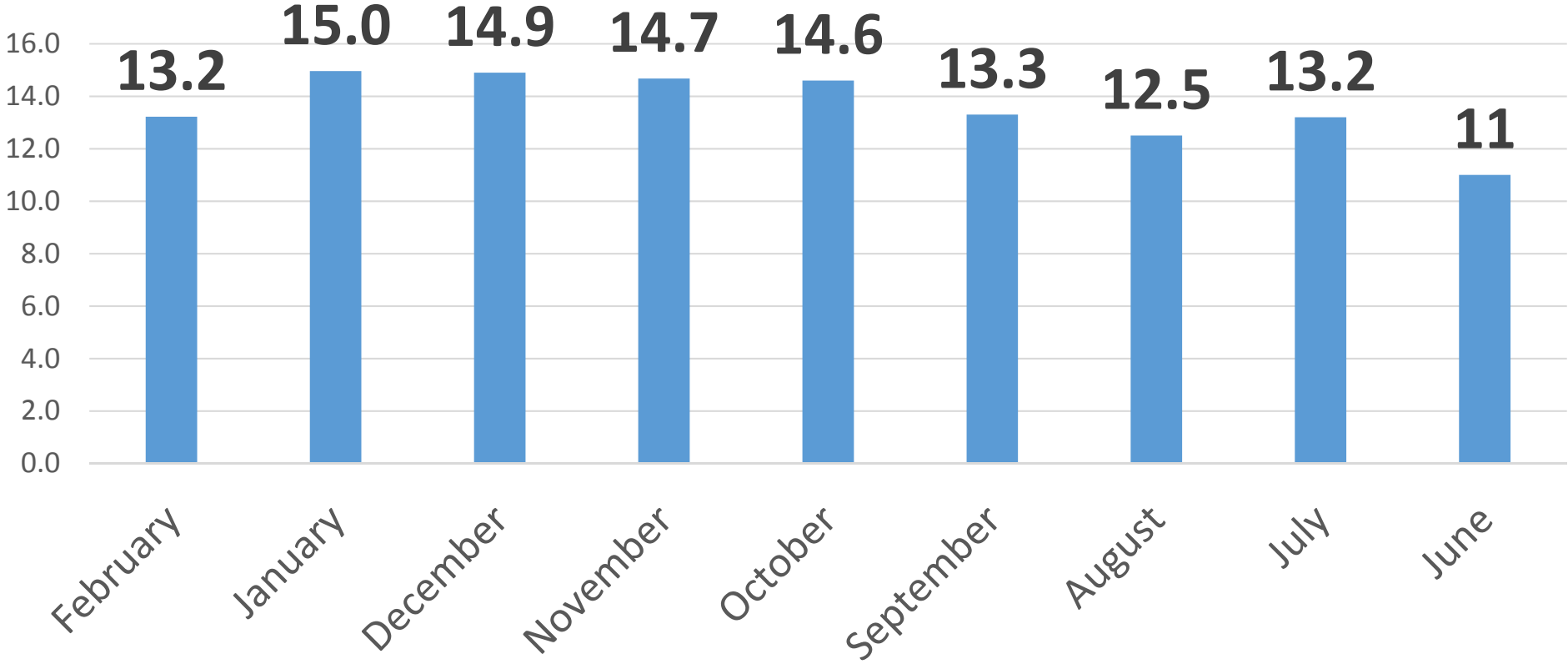


Ground On Scene Time 90th Percentile - Filtered

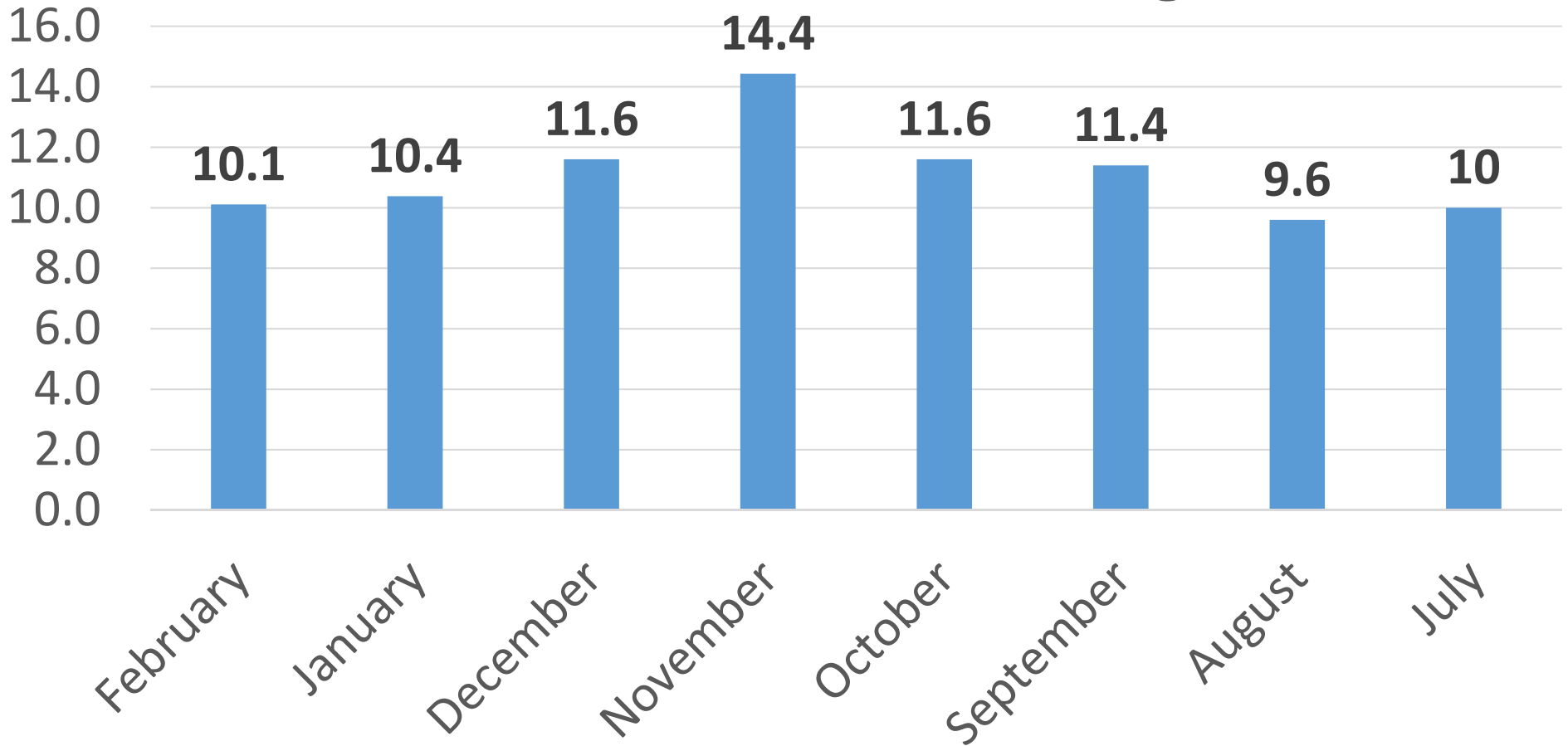


Ground On Scene Time – Avg. -

Unfiltered



Ground On Scene Time - Avg. - **Filtered**



Reported Delay	June	July	August	September	October	November	December	January	February
None- Under 10 Min	13	21	9	11	14	14	18	13	18
None- Over 10 Min	12	12	7	8	15	16	6	8	11
Other- Description	1	6	4	8	9	0	0	7	3
Other- No Description	0	0	0	0	2	11	3	4	1
Safety/Crowd/Staff	0	4	3	2	0	0	1	3	2
Language Barrier	0	0	0	0	0	0	0	0	0
Extrication >20min	0	0	0	0	3	3	2	3	0
Distance/Vehicle Crash	1	0	0	0	0	0	1	1	0
Other Hospital	0	2	0	0	0	0	0	0	0
Reporting Error	0	0	0	0	1	0	0	0	0
Extremis	0	0	0	0	0	0	0	0	0
Calls Over 10 min	14(51%)	24(53%)	13(56%)	18(62%)	30(68%)	68%	44%	56%	31%
Total Calls	27	45	23	29	44	44	34	39	36

	Trauma Center	Landing Zone	Other Hospital
June	27	6	0
July	43	5	2
August	23	4	0
September	29	1	0
October	43	10	1
November	43	0	1
December	29	1	1
January	27	3	2
February	34	2	0

Next Meeting

- April 20th at 200 PM in Second Floor Conference Room, 1800 Mt. Vernon
- Note that TEC will be held on Thursdays moving forward

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ReddiNet

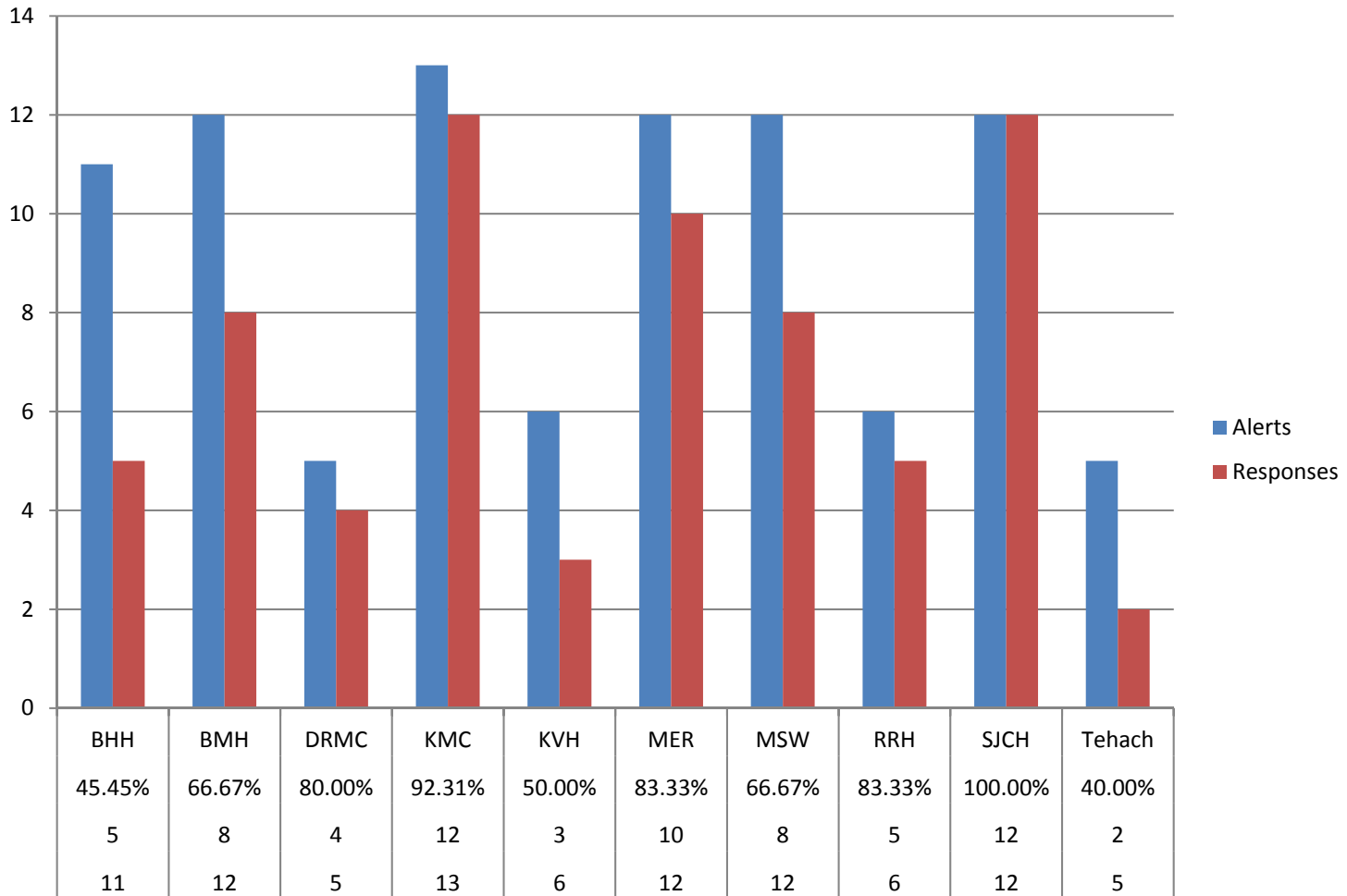
Bed Availability / MCI Response

MCI Response

February		
	Alerts	Responses
BHH	3	1
BMH	3	2
DRMC	1	1
KMC	3	2
KVH	1	1
MER	3	3
MSW	3	2
RRH	1	1
SJCH	3	3
Tehach	1	0

March		
	Alerts	Responses
BHH	3	1
BMH	3	3
DRMC	0	0
KMC	3	3
KVH	1	0
MER	3	2
MSW	3	2
RRH	0	0
SJCH	3	3
Tehach	0	0

Year To Date



Patient Distribution

	Pt Dist				
	I	D	M	Total	
BHH	0	0	0	0	0.00%
BMH	0	0	2	2	5.13%
DRMC	0	0	0	0	0.00%
KMC	1	5	9	15	38.46%
KVH	0	0	0	0	0.00%
MER	0	0	0	0	0.00%
MSW	0	0	6	6	15.38%
RRH	0	0	2	2	5.13%
SJCH	0	0	6	6	15.38%
Tehach	0	0	8	8	20.51%
			Total	39	

Bed Availability

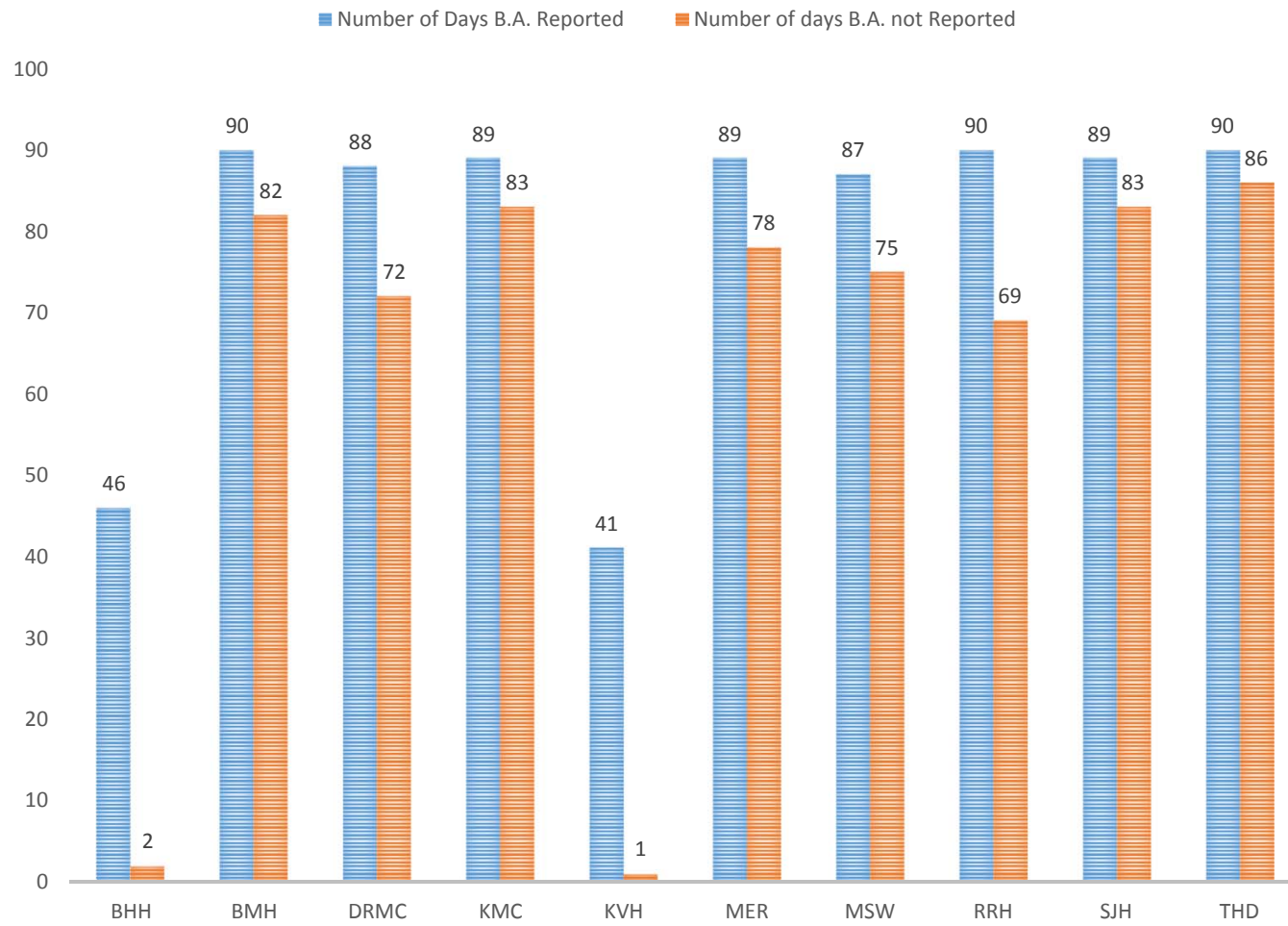
Bed Availability Reporting

February		Number of Days B.A. Reported	Number of Days B.A. not reported	Number of Days B.A. reported >1
	BHH	10	18	1
	BMH	28	0	25
	DRMC	28	0	25
	KMC	27	1	26
	KVH	14	14	1
	MER	28	0	27
	MSW	28	0	26
	RRH	28	0	23
	SJH	28	0	28
	THD	28	0	28

Bed Availability Reporting

March		Number of Days B.A. Reported	Number of Days B.A. not reported	Number of Days B.A. reported >1
	BHH	21	10	1
	BMH	31	0	29
	DRMC	30	1	24
	KMC	31	0	29
	KVH	17	14	0
	MER	31	0	29
	MSW	31	0	29
	RRH	31	0	29
	SJH	30	1	24
	THD	31	0	28

2017



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2017 CHEMPACK DRILL

Functional Exercise for Kern County

2017 CHEMPACK DRILL

- Location suggestions for a functional drill site. This site needs to be in the Kern County area and be appropriate for a Organo-phosphate spill
- Stakeholders
- Objectives
- Communications

2017 CHEMPACK DRILL

- This Drill will help to satisfy PHEP grant requirements
- Will test the appropriate stakeholders knowledge of a valuable resource
- Pertinent for Kern County
- Great way for newer personnel to see a MCI

2017 CHEMPACK DRILL

- We will be having an additional meeting next month for further development
- Public Health will hold a Tabletop Exercise in June
- Functional Drill is **tentatively** scheduled for month of October

2017 CHEMPACK DRILL

- **IF** interested contact:

Nick Lidgett, EMS Coordinator/RDMHS

lidgettn@co.kern.ca.us

Office: (661) 868-5210

Cell: (661) 205-7571

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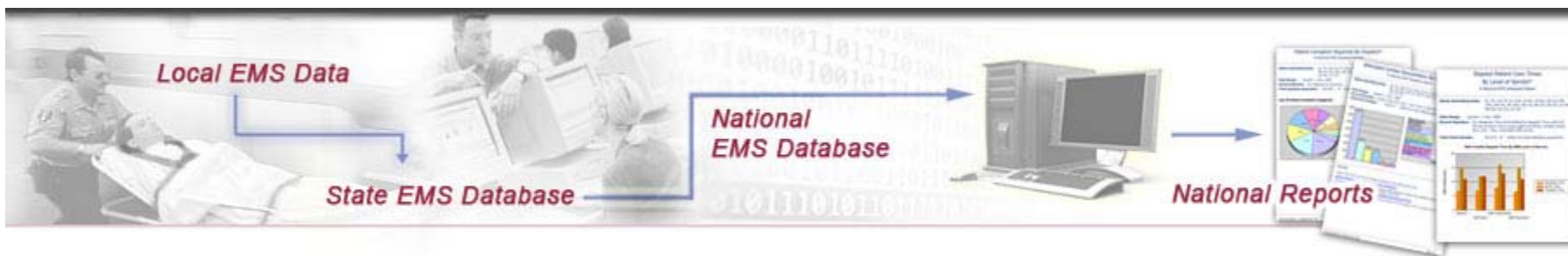
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NEMESIS 3.4 UPDATE

- Hall Ambulance Service:
 - Dem file has been submitted and approved and they have submitted PCR data that passes the Kern County Custom Schematron. We are waiting for approval by the state.
- Liberty Ambulance Service:
 - Dem file has submitted and approved. Liberty has yet to submit a patient care record that can pass the Kern County Custom Schematron.

NEMESIS 3.4 UPDATE

- Delano Ambulance Service:
 - First attempt at Dem submission failed at the state level. Being reworked
- Edwards Air Force Base:
 - First attempt at Dem submission failed at the state level. Being reworked
- Rio Tinto Minerals/U.S. Borax:
 - Dem file has been submitted and approved by the state. We are waiting for PCR testing to begin.

NEMESIS 3.4 UPDATE

- Kern County Fire / Bakersfield Field Fire Departments:
 - Working through the process of securing a vendor
- Kern County EMS' vendor is working with emsCharts on preparing the DEM file for Mercy Air and California City Fire.

NEMESIS 3.4 UPDATE

- M&S Securities:
 - Working through the process of securing a vendor
- Environmental Safety Solutions:
 - We are waiting on the state to provide an integration
- Kern County Sheriff:
 - We are working on working through data submission issues

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Quality Improvement Programs

Why?

- Title 22 requirement for EMSA, LEMSA, Providers and Base Station Hospitals. (Ambulance Service Performance Standards II.F.)
 - Approved by LEMSA, reviewed by LEMSA every 5 years
 - Annual updates to LEMSA
- EMSA #166 guideline
- EMS Quality Improvement Program (EQIP) Template
- www.emsa.ca.gov/Quality_Improvement

Indicator Listing

- Personnel
- Equipment and Supplies
- Documentation
- Clinical Care and Patient Outcome
- Skills Maintenance/Competency
- Transportation/Facilities
- Public Education and Prevention
- Risk Management

EMSA 166

- Appendix E
- Chart with ideas for what to include in each indicator.
 - The chart references items that are outdated
- For example: Documentation
 - LEMSA: Data Validation
 - Provider: Data validation, narcotic records
 - Hospital: Timeliness, accuracy, outcome reporting

Timeframe for submittal

- Providers?
- Hospitals?

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Ambulance Patient Offload Times

Current Information

3/15/2017

2016 Hospital Review by Hospital.xlsx

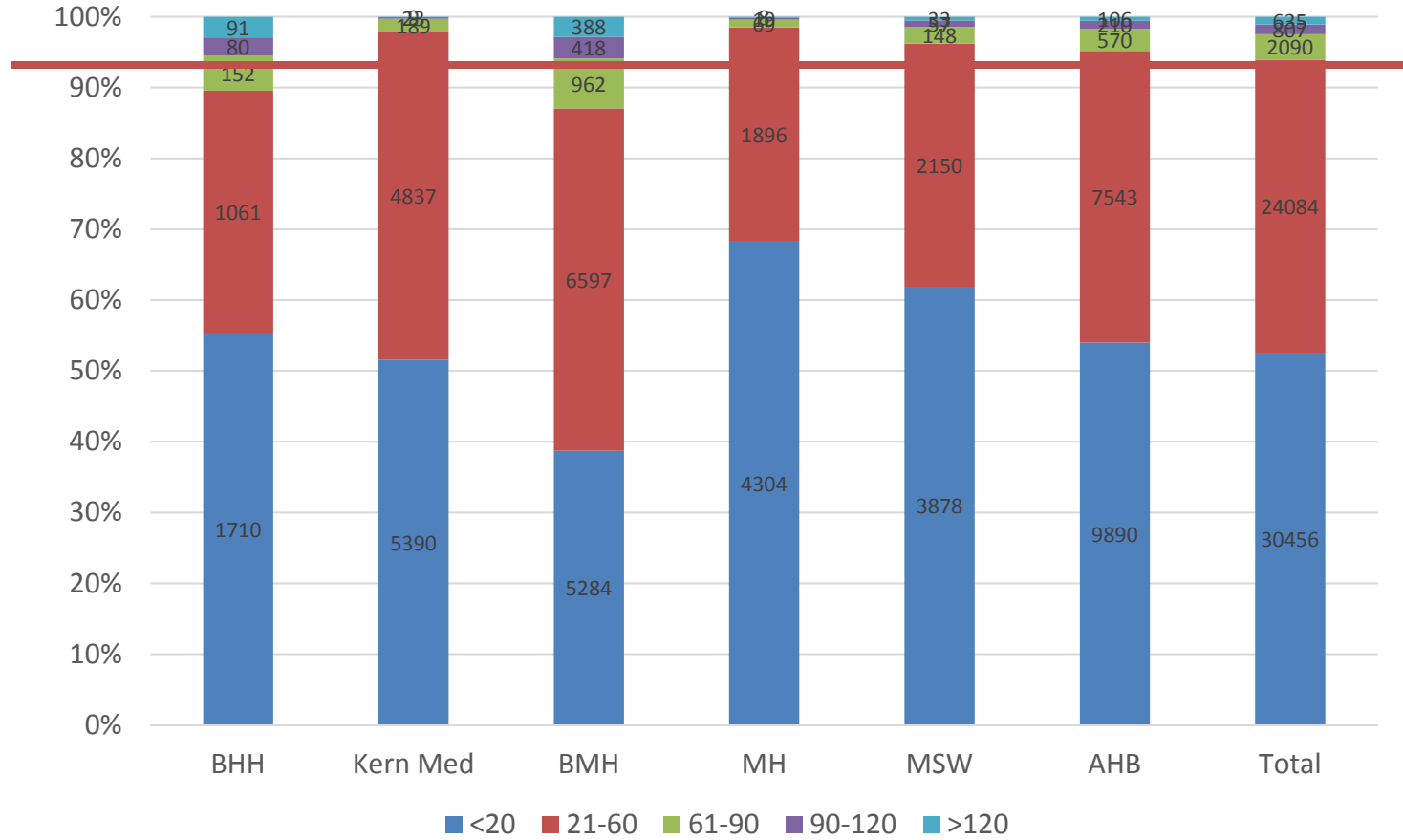
Hospital	Total Patients	<20	21-60	60-90	90-120	>120
BKFLD HEART HOSP	3094	1710	1061	152	80	91
KERN MEDICAL CENTER	10448	5390	4837	189	23	9
MEMORIAL HOSPITAL	13649	5284	6597	962	418	388
MERCY HOSPITAL	6296	4304	1896	69	19	8
MERCY SW HOSPITAL	6266	3878	2150	148	57	33
SAN JOAQUIN COMM HOSP	18319	9890	7543	570	210	106
Total ED Patients	58072					

APOT 2

- This information closely aligns with APOT2 measures.
- Percentage of calls in each category.
 - Locally, reported per hospital (monthly)
 - Reported to State as system (aggregated per quarter)
- Categories
 - <20 min
 - 21-60 min
 - 61-120 min
 - 121-180 min
 - >181 min

APOT 2

State 90th
Percentile
Benchmark
is 20 min or
less



EMS Arrival at ED Analysis

- Looked at all times at destination for facilities
- Emergency calls (9-1-1)
 - Excludes transfers
- Broken it down to day of week/time of day

Example

Bakersfield Heart Hospital

	Total	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	
Total	3,126	12	100	68	63	46	44	53	81	84	127	172	194	191	214	177	200	182	168	200	159	139	129	114	124	85
1-Sunday	376	0	22	11	11	9	3	8	10	9	10	16	23	20	17	18	20	19	25	27	20	21	14	16	19	8
2-Monday	478	0	14	7	13	11	6	8	16	9	20	30	30	42	34	27	30	30	19	27	22	24	19	15	14	11
3-Tuesday	440	2	8	10	9	6	8	5	7	20	22	29	31	31	34	22	24	20	20	31	19	21	17	19	16	9
4-Wednesday	452	5	12	8	9	3	7	7	8	7	22	27	22	18	38	34	29	28	28	30	27	12	15	17	25	14
5-Thursday	468	1	14	8	4	7	4	10	12	14	17	20	29	35	31	35	35	35	29	27	22	26	16	13	15	9
6-Friday	479	3	19	10	8	3	8	8	9	9	20	26	32	22	33	26	34	29	26	37	29	12	26	15	17	18
7-Saturday	433	1	11	14	9	7	8	7	19	16	16	24	27	23	27	15	28	21	21	21	20	23	22	19	18	16

Noon time receives the most patients across all days of week with 214 patient arrivals.
 11:00 am on Monday received the most patients for day/time combo for 2016 with 42

Where do we go from here?

- EMS not measuring until providers are moved to NEMESIS 3.4 due to data elements involved.
- Facilities
 - Look at internal data
 - Work with ambulance providers
 - Evaluate the process of EMS offload
 - Look for areas of improvement
 - Use the tool: “Toolkit to Reduce Ambulance Patient Offload Delays in the Emergency Department”
 - (six sigma process improvement)

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Proposed Schedule 2017

- Alternate EMS System Collab with Medical Director Forum and Innovation Forum
 - Apr: Collab
 - May: Medical Director Forum
 - Jun: Collab
 - Jul: No meetings
 - Aug: Collab
 - Sep: Medical Director Forum
 - Oct: Collab
 - Nov: Innovation Forum
 - Dec: Collab



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ANNOUNCEMENTS



EMSAAC Conference

- May 9-10, 2017 at Loew's Coronado Bay Resort
 - Top threats to EMS
 - CARES
 - MPDS and ALS care
 - ALS vs. BLS
 - Response Times/Use of Lights and Sirens
 - Street Drugs
 - PTSD



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THANK YOU FOR COMING

HAVE A GREAT MONTH

