

PREHOSPITAL MEDICAL ADVISORY COMMITTEE MEETING AGENDA (PMAC)

PMAC MEMBERS PER POLICY 8202:

<u>Base Hospital Physician</u> Andrew Pachon, MD - RUHS

Non-Base Hospital Physician Karan Singh, MD – San Gorgonio

Non-Base Hospital RN Kim McGranahan, RN - Kaiser

<u>Pediatric Critical Care Physician</u> Melanie Randall, MD - RUHS

<u>Stroke Hospital Coordinator - RN</u> Kathy Cash, RN - Eisenhower Health

<u>STEMI Hospital Coordinator - RN</u> Katherine Baca, RN - Temecula Valley

<u>Prehospital Liaison Nurse (PLN)</u> Robin Boardman, RN – JFK Memorial

<u>Trauma Program Medical Director</u> Stephen Kernop - RUHS

<u>Public Transport Medical Director</u> Zeke Foster, MD – Multiple FD

<u>Private Transport Medical Director</u> Seth Dukes, MD - AMR

<u>Fire Department Medical Director</u> Steve Patterson, MD – Corona FD

EMS Officers
Jennifer Antonucci – Murrieta FD

<u>Public Transport Medical Rep (Paramedic/RN)</u> Scott Philippbar – County Fire

<u>Private Transport Medical Rep (Paramedic/RN)</u> Dawn Downs – Symbiosis Care

Non-Transport Agency Rep (Paramedic/RN) Noelle Toering - Palm Springs FD

<u>Riverside County Policy Association</u> Donald Sharp – RSO Undersheriff

<u>Tribal Partner Representative</u> Ken Cardin - Morongo Fire

Private Air Transport Medical Director
Brian Harrison – Air Methods

EMS Training Program Representative
Robert Fontaine - Moreno Valley College

This Meeting of PMAC on: Monday, August 26, 2024 09:00 – 11:00 am

Riverside University Health System: 26516 Cactus Ave, Moreno Valley, CA 92555

1. CALL TO ORDER & HOUSEKEEPING (5 Minutes)

Andrew Pachon, MD (Chair)

2. ATTENDANCE (taken based on participant sign in sheet)

Evelyn Pham (REMSA)

3. APPROVAL OF MINUTES (5 Minutes)

May 13, 2024 Minutes — Andrew Pachon, MD (Attachment A)

4. STANDING REPORTS (10 Minutes)

- 4.1. Trauma System—Shanna Kissel (Attachment B)
- **4.2**. STEMI System— Shanna Kissel (Attachment C)
- **4.3.** Stroke System— Shanna Kissel (Attachment D)

5. Other Reports (15 Minutes)

- **5.1.** EMD Update James Lee
- 5.2. CATT/ Buprenorphine/ Leave Behind Naloxone Sean Hakam
- **5.3.** California Resuscitation Outcomes Consortium Trial Update Dr. Vaezazizi

6. DISCUSSION ITEMS, UNFINISHED & NEW BUSINESS

- 6.1. EMS Buprenorphine Philine Endres-Shafer, MD (20 Minutes)
- **6.2.** CQI Holly Anderson (10 Minutes)
- **6.3.** Policy/Education Kristie Hinz (10 Minutes)
- **6.5.** Mobile Integrated Health Program Dan Bates (5 Minutes)
- **6.6.** CARES Annual Report Catherine Farrokhi, PHD (15 Minutes)

7. REQUEST FOR DISCUSSIONS (5 MINUTES)

Members can request that items be placed on the agenda for discussion at the following PMAC meeting. References to studies, presentations and supporting literature must submitted to REMSA three weeks prior to the next PMAC meeting to allow ample time for preparation, distribution and review among committee members and other interested parties.

8. ANNOUNCEMENTS (15 Minutes)

This is the time/place in which committee members and non-committee members can speak on items not on the agenda but within the purview of PMAC. Each announcement should be limited to two minutes unless extended by the PMAC Chair.

9. NEXT MEETING / ADJOURMENT (1 Minute)

December 2, 2024 – Riverside University Health System

PMAC Agendas with attachments are available at: www.rivcoready.org/remsa. Meeting minutes are audio recorded to facilitate dictation for minutes. Any questions or comments please contact REMSA staff.

TOPIC	DISCUSSION	ACTION
1. CALL TO ORDER	Dr. Andrew Pachon called the meeting to order at 9:08 a.m.	
2. Virtual Attendance	Attendance taken based on sign-in list	
3. Approval of Minutes	Dr. Foster, Multiple Fire Departments, motioned to approve the minutes. Patrick Anderson, Riverside City Fire seconded the motion.	The February 5, 2024 PMAC meeting minutes were approved with no changes.
4. STANDING REPORTS		
4.1. Trauma System Updates	 IVMC went through ACS Level II verification in April, pending final report. REMSA policies affecting trauma treatment go into effect July 1, 2024. 6-month QI of these cases will be reported out at Trauma Audit Committee in February 2025. REMSA/ICEMA working on a stand-alone traumatic arrest policy, anticipated date July 2025. 	Information only.
4.2. STEMI System Updates	 STEMI 2022 System Plan update submitted to EMSA, still pending EMS approval. The STEMI Dashboard posted on rivcoready.org was updated to reflect quarter 4, 2023 data. STEMI E2B project is ongoing. Continued data feedback of pre-activated vs. activated after arrival of incoming STEMI patients disseminated to each facility program manager for their review to increase pre-activation percentage. Cardiac data State reporting in process for 2020-203. 	Information only.
4.3. Stroke System Updates 5. OTHER REPORTS	 Stroke System Plan update 2022 submitted to EMSA, still pending approval. The Stroke Dashboard posted on rivcoready.org was updated to reflect quarter 4, 2023 data. Project Stroke Hospital Interfacility Transport (HIFT) is ongoing. Education continues to be completed by all 12 storke designated hospitals. Riverside County paramedics have access to the same education through our Brainier learning management system or upon request of the video and pre/post quiz can be sent to individual agencies. LAMS stroke education is available on the Brainier LMS or upon request of the video pre/post quiz can be sent to individual agencies. Stroke data State reporting completed for quarter 4, 2023. 	Information only.
5.1. CATT/ Buprenorphine / Leave Behind Naloxone	 Buprenorphine has been postponed to next year with suboxone to reduce it down. Anticipated date, July 2025 Working with bridge facilities for education CATT Team, current pilot program is set to expire June this year AMR is still planning to continue the program Preliminary discussion on expanding that towards the Desert 	Information only.

	 Looking at sustainable funding first 	
	Cooking at Sastaniable funding mot	
5.2. EMD Update	 Quarter 1 report for 2024 hasn't changed much and has been very consistent Cathedral City is temporarily pausing their EMD due to staffing issues Anticipating resource plans or EMD from City of Riverside Accreditation update, coming close for Cal Fire, the ability to use nurse navigation and to be able to bring low acuity patients to alternate care locations Looking forward to seeing more centers get accredited 	Information only.
6. DISCUSSION ITEMS, UNFINISHED & NEW BUSINESS		
Unfinished Business	None	
6.1. CQI	All CQI categories associated with the July 1st implementation are being developed. Dr. V discussed CQI challenges to work on, highlighting on cases that appear more often: • Medication errors, giving the wrong meds • Dosing for medication • Procedures, stand outs are intubations • Documentation • Policy 3308, downgrade PMAC discussed whether the downgrade policy is valuable or should it be removed. Since the implementation of the policy, there have been multiple instances of improper downgrades. The biggest documentation error seen with this policy is for pain and pain management. Upon discussion, REMSA suggested to implement a 100% QI of all downgrades for agencies to review in the next 6 months before making a final decision on how to proceed with Policy 3308. A check-in at the July CQILT meeting will discuss agency findings and data to report back.	Discussion.
6.2. Policy Update / Change Requests	Completed PUC TtT in the Spring, with a few corrections made that were updated and notified to the trainers. Most agencies have started their PUC trainings already.	Information only.
6.3. California EMS System Core Quality Measures	CORE Measures focuses on 6 state driven measures for key performance indicators of quality. Data is collected every year and Riverside County has been submitting data since 2009. Come 2024, there will be 3 new measures added on. Data was reviewed from 2020 – 2023 CY, showing a consistent improvement and reliability in reported value percentages. The measure that is still working on improving is hypoglycemia. Until we can get the state to modify it to a more current	Information only.

	, ==, ===	
	standard, we know our system is treating it correctly, we just	
	don't know how to document it to fit their criteria perfectly.	
6.4. California	The California Resuscitation Outcomes Consortium Trail is in its	
Resuscitation Outcomes	funding phase and looking for additional sponsors. The earliest	
Consortium Trail Update	possibility for Riverside County to start this trail will be in July	
	2025. REMSA will add this as a standing item for future	
	agendas, and more updates on this trail will be provided as it	
	gets closer.	
6.5. EMCC PMAC	As defined in Policy 8202, a new representative will serve as the	
Representative	PMAC representative for EMCC. Dr. Patterson is the current	
	representative for EMCC. As his term comes to an end, the	
	next representative will be the PMAC Chair, Dr. Pachon.	
6.6. Mobile Integrated	The Mobile Integrated Health Program is looking at alternative	
Health Program	options for patient care follow-up with individuals that are high	
	users of the 9-1-1 system. To reduce re-entry to the 9-1-1	
	system and hospital re-entry rates, this program's goal is to	
	partner with public health workers, with linkage to insurance	
	eligibility and community resources to divert patients to other	
	means of patient care. Target go live date for this trial is in	
	about 2 weeks. Once the system goes live, a system advisory	
	and notice to the providers will be sent out. Once launched,	
	the program will be added to our standing reports for quarterly	
	updates and discussions.	
7. Request for Discussions		Discussion.
8. Announcements	 REMSA announced new hire Kristie Hinz, Nurse for the 	Information only.
	clinical team. She will be overseeing EMS education,	
	base hospitals, and the policy manual.	
	 Provider asked regarding liability issues linked with the 	
	leave behind Narcan kits/programs. The program is	
	sponsored throughout the state, so there should be no	
	uncertainties to the providers giving them out, as the	
	state statue will protect the providers.	
9. NEXT	Monday, August 26, 2024 (9:00 – 11:00 a.m.) RUHS.	Information only.
MEETING/ADJOURNMENT		

PMAC Attendance:

Voting Members:		Attendees:	
Andrew Pachon, MD, RUHS, Chair		Andrew McCague, MD, Vice Chair	
Karan Singh, MD, San Gorgonio		Wayne Ennis, AMR Desert	
Kim McGranahan, RN, Kaiser		Suzee Brein, AMR Riverside	
Melanie Randall, MD, RUHS	Х	Christopher Linke, AMR	
Kathy Cash, RN, Eisenhower	Х	Tim Buckley, Soboba Fire	
Katherine Baca, RN, TVH		Ricky Harvey, Cal Fire	
Robin Boardman, RN, JFK	Х	Aaron Hartney, AMR/REACH	
Vacant		Lori Maddox, RUHS	
Zeke Foster, MD, Multiple FD	Х	Wayne Seacrist, Palm Springs Fire	
Seth Dukes, MD, AMR	Х	Joel Stillings, DO, DRMC	
Steve Patterson, MD, Corona FD	Х	Paige Castaneda, DRMC	
Jennifer Antonucci, Murrieta FD	Х	Brittany Rodriguez, Kaiser Riverside	
Scott Philippbar, Cal Fire		Patrick Anderson, Riverside City Fire	
Vacant		Kelley Long, Corona Fire	
Noelle Toering, Palm Springs FD		Chris Douglas, Corona Fire	
Donald Sharp, RSO		Matt V Payne, Calimesa Fire	
Ken Cardin, Morongo FD	Х	Thomas Wofford, Eisenhower	
Brian Harrison, Air Methods		Lacey Paige, Riverside Community Hospital	
Bob Fontaine, MVC	Х	Julius Ibanez, MD, Eisenhower	
		Lisa Madrid, AMR	
REMSA:		Veronica Arellano, IVMC	
Reza Vaezazizi, MD	Х		
Dan Bates	Χ		
Shanna Kissel	X		
Leslie Duke	Χ		
Holly Anderson	Х		
Kristie Hinz	X		
Evelyn Pham	X		
Dustin Rascon	X	2	
Catherine Farrokhi, PHD	Х		
Nick Ritchey			
Mike Moore	Х		
James Lee	Х		
Karleen Wade	Х		
Henry Olson	Х		
Sean Hakam			

FOR CONSIDERATION BY PMAC

DATE: August 13, 2024

TO: PMAC

FROM: Shanna Kissel, RN, Assistant Nurse Manager

SUBJECT: Trauma System

- 1. REMSA policies affecting trauma treatment went into effect July 1, 2024. QI of Versed and Push-Dose Epi will be reported out at November and February TAC.
- 2. Tentative trauma policies will be updated for July 2025-
 - 4302- Traumatic Injuries- to include traumatic arrest
 - 5301- Critical Trauma Patient
 - 5302- Trauma continuation of care
- 3. DRMC will be going through ACS Level I survey in November.
- 4. REMSA 2022 Trauma Plan update was approved by EMSA. 2023 update to be submitted by September.

ACTION: PMAC should be prepared to receive the information and provide feedback to REMSA.

FOR CONSIDERATION BY PMAC

DATE: August 13, 2024

TO: PMAC

FROM: Shanna Kissel, RN, Assistant Nurse Manager

SUBJECT: STEMI System

- 1. STEMI 2022 System Plan update approved by EMSA, 2023 plan update to be submitted by September.
- The STEMI dashboard posted on Rivcoready website was updated to reflect Q1 2024 data related to the Image Trend STEMI patient registry. https://rivcoready.org/remsa/programs#2741959481-1182105694
- 3. Q1. 2024 STEMI data uploaded to EMSA.

Next STEMI Committee meeting is on October 8th, 2024, via TEAMS conference.

ACTION: PMAC should be prepared to receive the information and provide feedback to REMSA.

FOR CONSIDERATION BY PMAC

DATE: August 13, 2024

TO: PMAC

FROM: Shanna Kissel, RN, Assistant Nurse Manager

SUBJECT: Stroke System

- 1. Stroke System Plan update 2022 approved by EMSA, 2023 plan update to be submitted by September.
- The Stroke dashboard posted on Rivcoready website was updated to reflect Q1 2024 data related to the Image Trend Stroke patient registry. https://rivcoready.org/remsa/programs#2741959481-1532242908
- 3. Stroke data State reporting completed for Q1 2024.

Next Stroke Committee meeting is on November 7th, 2024, via TEAMS conference.

ACTION: PMAC should be prepared to receive the information and provide feedback to REMSA.

2023

CARES REGISTRY SUMMARY

Riverside County EMS System







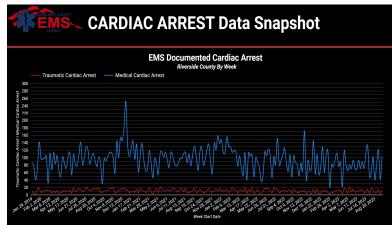


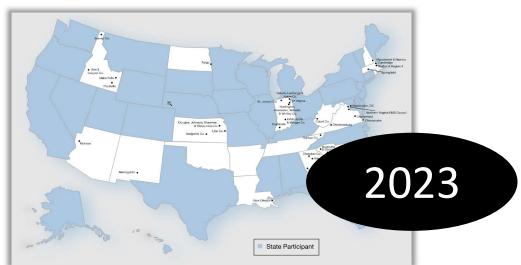
CARES Summary Report Demographic and Survival Characteristics of OHCA

	Riverside County EMS Agency	California	National
Data	N=2020	N=25324	N=139822
ige	N=2020	N=25323	N=139807
Mean	64.0	63.4	62.1
Median	67.0	66.0	65.0
ender (%)	N=2020	N=25324	N=139822
Female	749 (37.1)	9021 (35.6)	51700 (37.0)
Male	1271 (62.9)	16300 (64.4)	88079 (63.0)
ace (%)	N=2020	N=25324	N=139820
American-Indian/Alaskan	13 (0.6)	92 (0.4)	546 (0.4)
Asian	75 (3.7)	1812 (7.2)	3880 (2.8)
Black/African-American	247 (12.2)	2856 (11.3) 4799 (19.0)	30288 (21.7)
Hispanic/Latino Native Hawaiian/Pacific Islander	563 (27.9) 10 (0.5)	187 (0.7)	12177 (8.7) 653 (0.5)
White	1047 (51.8)	8737 (34.5)	70459 (50.4)
Multi-capial	15 (0.7)	146 (0.6)	619 (0.4)
Unknown	50 (2.5)	6695 (26.4)	21200 (15.2)
opation of Arrest (%)	N=2929	N=25324	N=139819
Home/Residence	1515 (75.0)	17618 (69.6)	99881 (71.4)
Nursing Home	211 (10.4)	2846 (11.2)	14557(10.4)
Public Setting	294 (14.6)	4860 (19.2)	25381 (18.2)
rrest witnessed (%)	N=2020	N=25324	N=139822
Bystander Witnessed	1009 (50.0)	9141 (36.1)	51336 (36.7)
Witnessed by 911 Responder	251 (12.4)	2605 (10.3)	16540 (11.8)
Unwitnessed	760 (37.6)	13578 (53.6)	71946 (51.5)
/hq_initiated CPR? (%)	N=2020	N=25324	N=139810
Not Applicable	0 (0.0)	2 (0.0)	63 (0.0)
Bystander	855 (42.3)	10758 (42.5)	58016 (41.5)
First Responder	795 (39.4)	7871 (31.1)	43558 (31.2)
Emergency Medical Services (EMS)	369 (18.3)	6693 (26.4)	38173 (27.3)
Vas an AED applied prior to EMS arrival? (%)	N=2020	N=25324	N=139821
Yes No	124 (6.1)	3902 (15.4)	40084 (28.7)
	1896 (93.9)	21422 (84.6)	99737 (71.3)
Who first applied automated external defibrillator? (%)	N=124	N=3905 832 (21.3)	N=40110 8774 (21.9)
Bystander First Responder	69 (55.6) 55 (44.4)	3073 (78.7)	31336 (78.1)
Who first defibrillated the patient?* (%)	N=2020	N=25316	N=139800
Not Applicable Bystander	1550 (76.7)	18743 (74.0) 268 (1.1)	98064 (70.1) 2231 (1.6)
First Responder	324 (16.0)	1524 (6.0)	8529 (5.1)
Responding EMS Personnel	120 (5.9)	4781 (18.9)	30976 (22.2)
irst Arrest Rhythm (%)	N=2020	N=25324	N=139807
Vfib/Vtach/Unknown Shockable Rhythm	255 (12.6)	3765 (14.9)	24517 (17.5)
Asystole	1239 (61.3)	15199 (50.0)	72251 (51.7)
IdioventriculariPEA	416 (20.6)	5639 (22.3)	30884 (22.1)
Unknown Unshockable Rhythm	110 (5.4)	721 (2.8)	12155 (8.7)
sustained ROSC (%)	N=2020	N=25324	N=139786
Yes	404 (20.0)	5385 (21.3)	37902 (27.1)
No	1616 (80.0)	19939 (78.7)	101884 (72.9)
Vas hypothermia care provided in the field? (%)	N=2020	N=25324	N=139819
Yes	0 (0.0)	233 (0.9)	3932 (2.8)
No	2020 (100.0)	25091 (99.1)	135887 (97.2)
re-hospital Outcome (%)	N=2020	N=25324	N=139822
Pronounced in the Field	1226 (60.7)	13469 (53,2)	59972 (42.9)
Pronounced in ED Ongoing Resuscitation in ED	75 (3.7) 719 (35.6)	1500 (5.9) 10355 (40.9)	13315 (9.5) 66535 (47.6)
verall Survival (%)	N=2020	N=25324	N=139822
Overall Survival to Hospital Admission Overall Survival to Hospital Discharge	377 (18.7) 150 (7.4)	5830 (23.0) 2125 (8.4)	38492 (26.1) 14300 (10.2)
With Good or Moderate Cerebral Performance	125 (6.2)	1844 (8.5)	11376 (8.1)
Missing hospital outcome	6	34	332
Itstein' Survival (%)	N=169	N=2221	N=14558
tatem outvival (20)	30.2%	32.1%	32.8%

Inclusion oriteria. An out-of-hospital cardiac arrest where resuscitation is attempted by a 911 responder (CPR and/or defibritation). This would also includ

April 23 2024



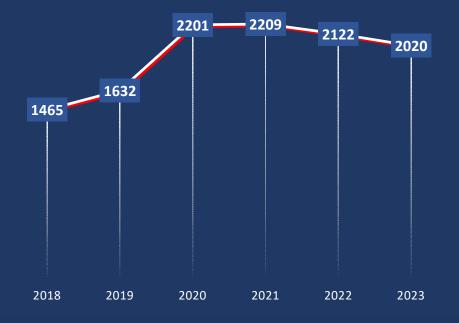


Riverside County EMS System

CARES 2023

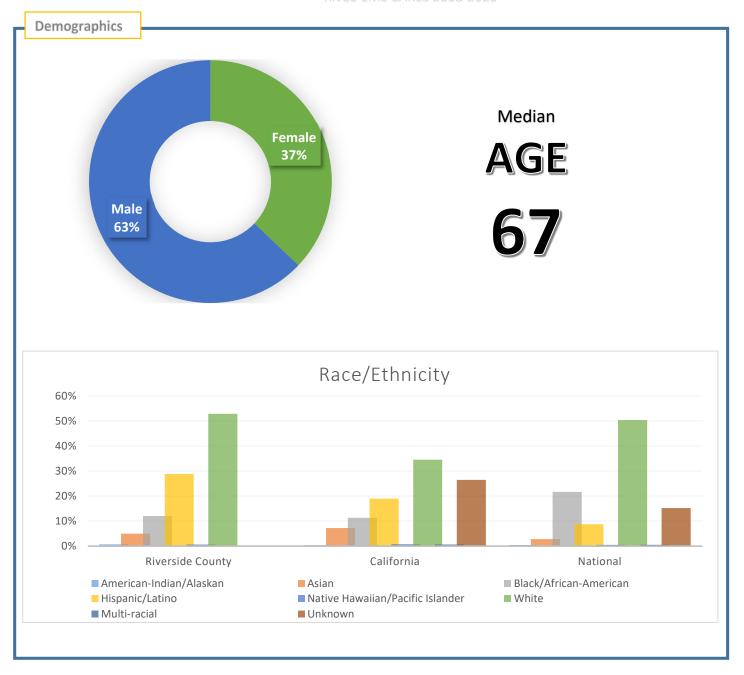
Non-Traumatic Cardiac Arrests

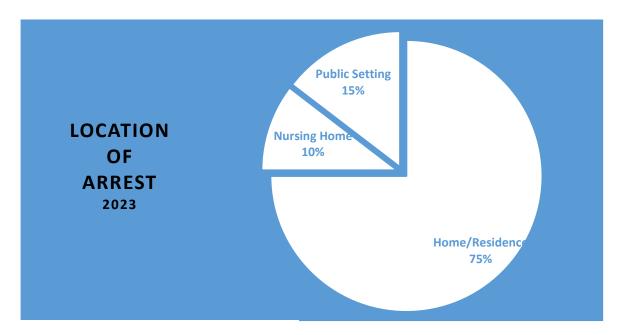
TOTAL PATIENTS REPORTED

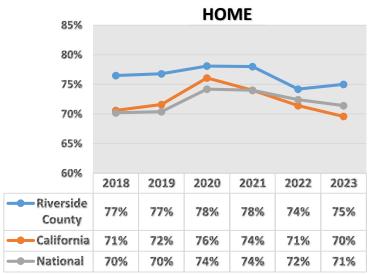


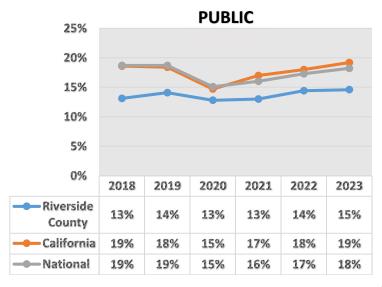
$$2020/1 = +35\%$$

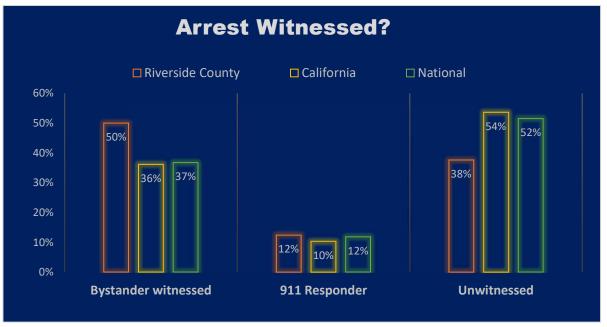
 $2022 = -4\%$

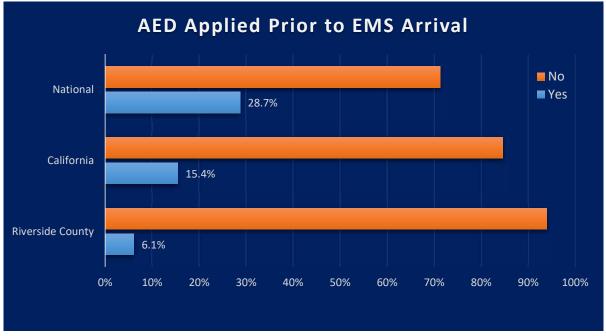


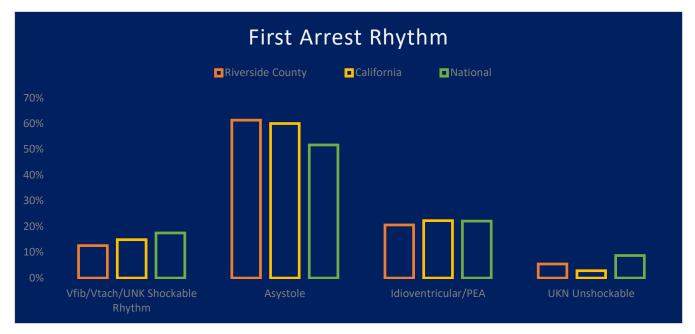


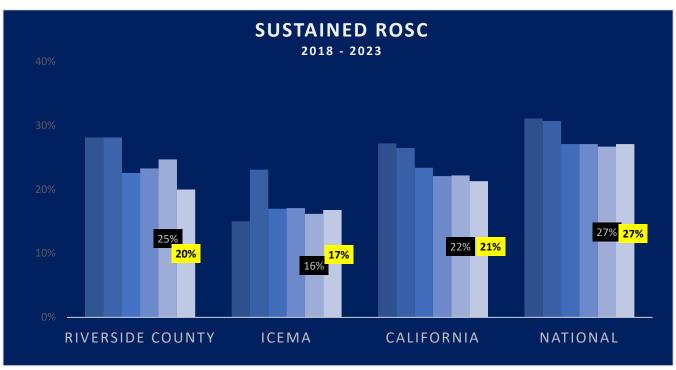


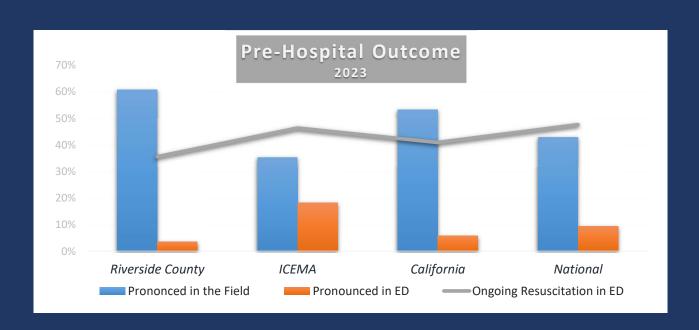


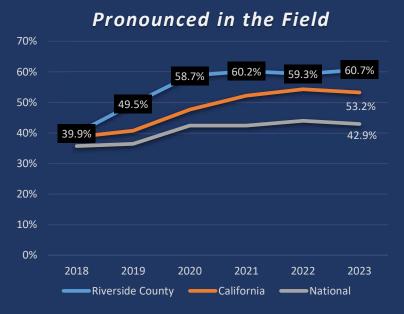




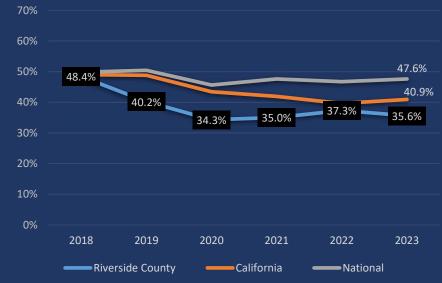


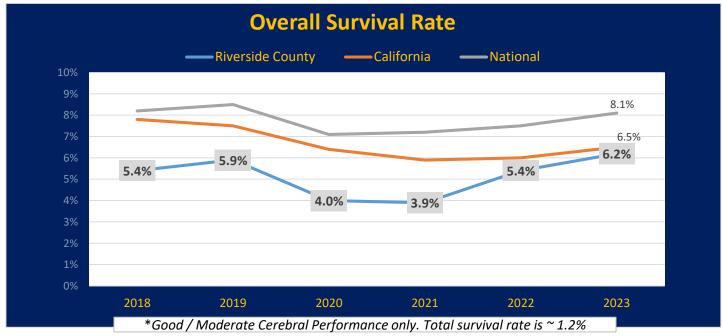


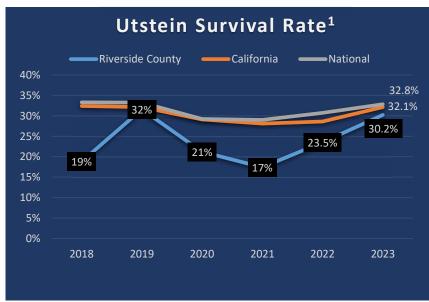




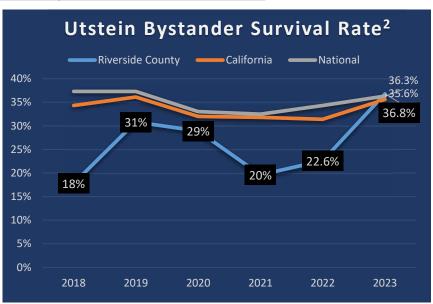








¹Witnessed by bystander and found in a shockable rhythm



²Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR by bystander and/or AED applied by bystander)

SUMMARY OF FINDINGS: CARES Riverside County 2023

- 5% reduction of medical cardiac arrests in the region compared to 2022. This is a likely result of continuing restabilization following the pandemic driven increases in medical cardiac arrests during 2020-2021. Further decrease not expected.
- Median age of medical cardiac arrest patients returned to 67, the pre-pandemic population age in Riverside County. Riverside County median age for cardiac arrests are slightly higher than ICEMA region, State, and National populations.
- Location of Arrest-Home % further decreased and Public % increased compared to 2022.
- Reported Bystander Witness Arrest % continues to be significantly higher than State and National levels.
- Continues to report a lower rate of AED utilization prior to EMS arrival. State reports >2x higher, National reports >4x higher.
- Continues to report a higher rate of "Pronounced-on-Scene" compared to State and National levels.
- Utstein and Utstein Bystander Survival rates in Riverside County have improved since 2021 and in 2023 comparable to State and National survival rates. These are based on small survival populations. Continuing trend required to clinically validate.
- Riverside County EMS System Dashboards: https://rivcoready.org/remsa/data-and-reports/current-reports
- Information about the CARES Registry: https://mycares.net/



