

PREHOSPITAL ECPR PILOT PROGRAM



ECPR Pilot Program 1-Year Overview

July 1, 2023 – June 30, 2024

[SANDIEGOCOUNTYEMS.COM](https://www.sandiegocountyems.com)



BACKGROUND AND HISTORY

- San Diego Resuscitation Consortium (SDRC) Workgroup was formed on April 29, 2022 ([Memo](#))
 - Subgroup of Base Station Physicians' Committee (BSPC)
 - Tasked with exploring the feasibility of a prehospital ECPR program
- Treatment protocols updated to include ECPR in early 2023
- Hospitals applied for program participation and were selected in June 2023
 - Sharp Grossmont Hospital
 - Scripps Memorial Hospital La Jolla
 - Sharp Memorial Hospital
- Prehospital ECPR Pilot Program went live on July 1, 2023
- SDRC became a subcommittee of the Cardiac Advisory Committee (CAC) on July 28, 2023 ([Memo](#))
 - SDRC Workgroup was dissolved
 - Provides progress reports at BSPC and CAC



PROGRAM GOALS

Scene time
< 15 minutes

“Get off scene in 15”

Cardiac arrest to ECPR
Receiving Center
< 45 minutes

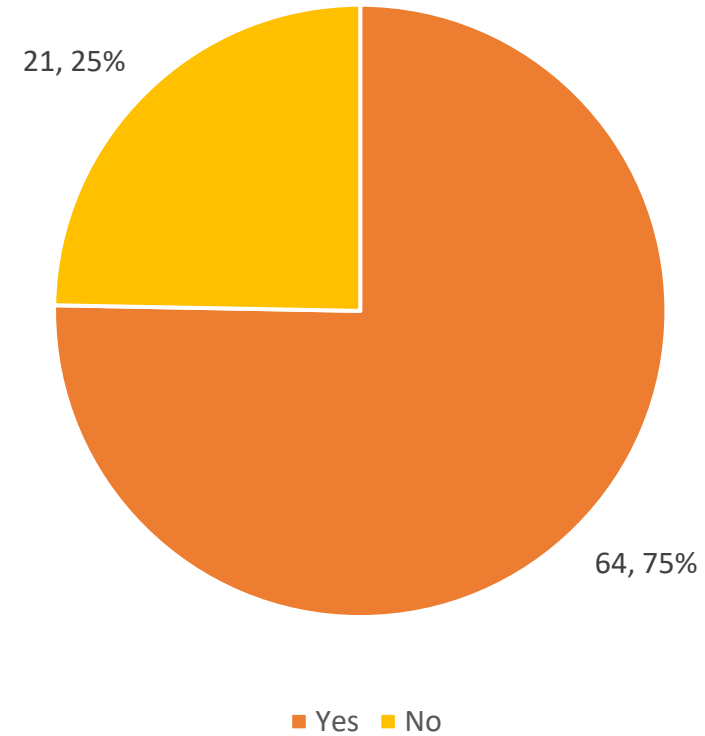
Cardiac arrest to
ECMO
< 60 minutes



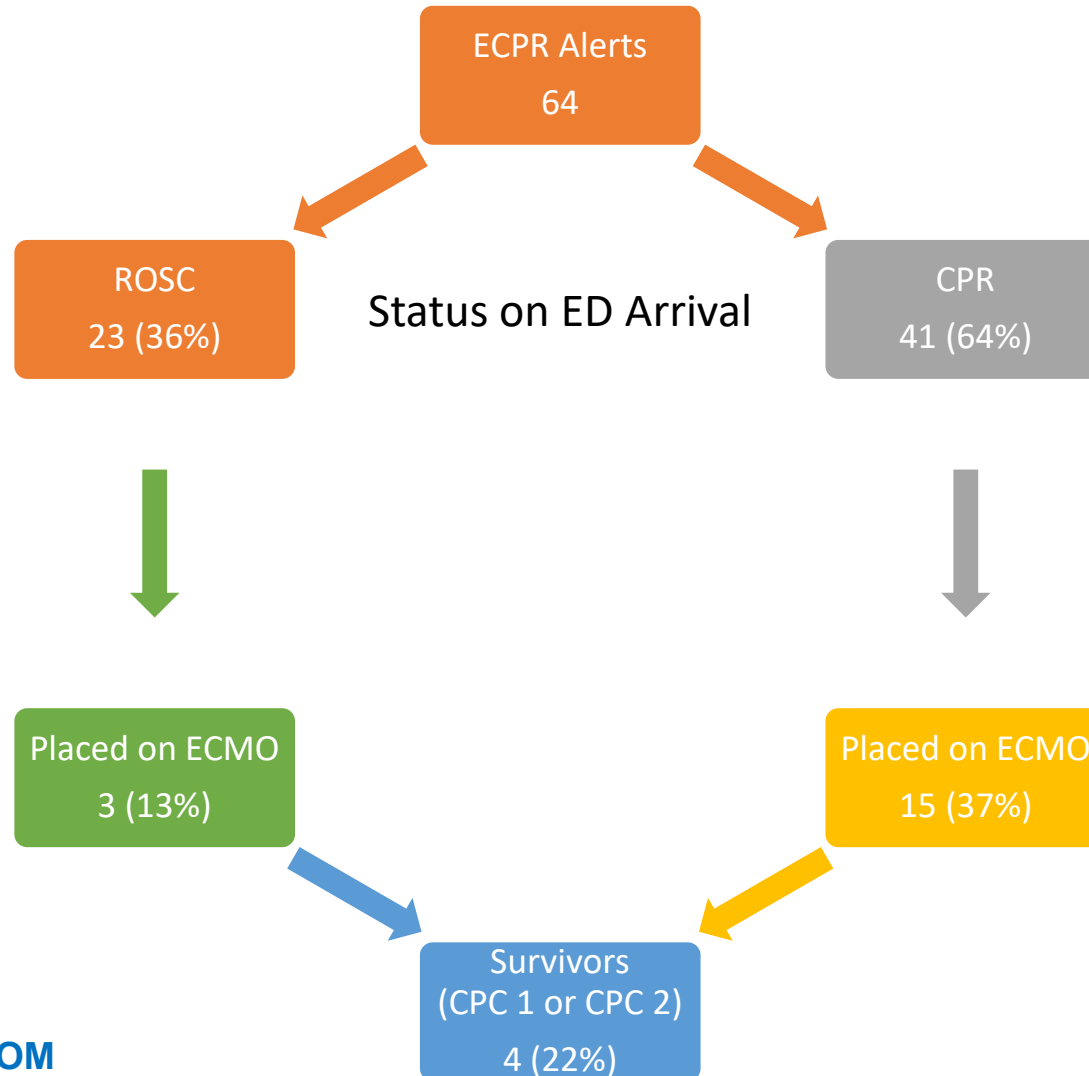
PREHOSPITAL ECPR ALERTS

In the first year of implementation
(July 1, 2023 – June 30, 2024)
there were a total of
85 prehospital ECPR alerts

Alerts Meeting ECPR Criteria (S-127A)



PREHOSPITAL ECPR ALERTS





PREHOSPITAL ECPR TIMES

Cardiac Arrest to
ECPR Receiving Center

Average
37.3

Cardiac Arrest to
ECMO

Average
63.7

Disp. to Scene

Average

7.0

Scene to Patient

Average

1.9

Scene Time

Average

16.0

Transport Time

Average

13.9

Cannulation Time

Average

24.1



PREHOSPITAL ECPR TIMES & MILEAGE

Mileage Difference between Closest Facility
and ECPR Receiving Center

Average

8.3

(n = 34)

ECPR Receiving Center
=
Closest Facility

Transport Time

Average

10.7

(n = 30)

Placed on ECMO

10

ECPR Receiving Center
≠
Closest Facility

Transport Time

Average

16.7

(n = 34)

Placed on ECMO

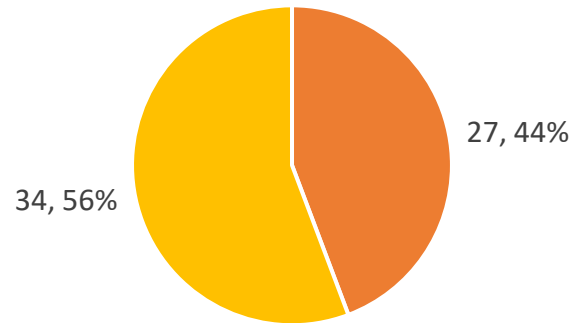
8



GOAL 1: SCENE TIME < 15 MINUTES

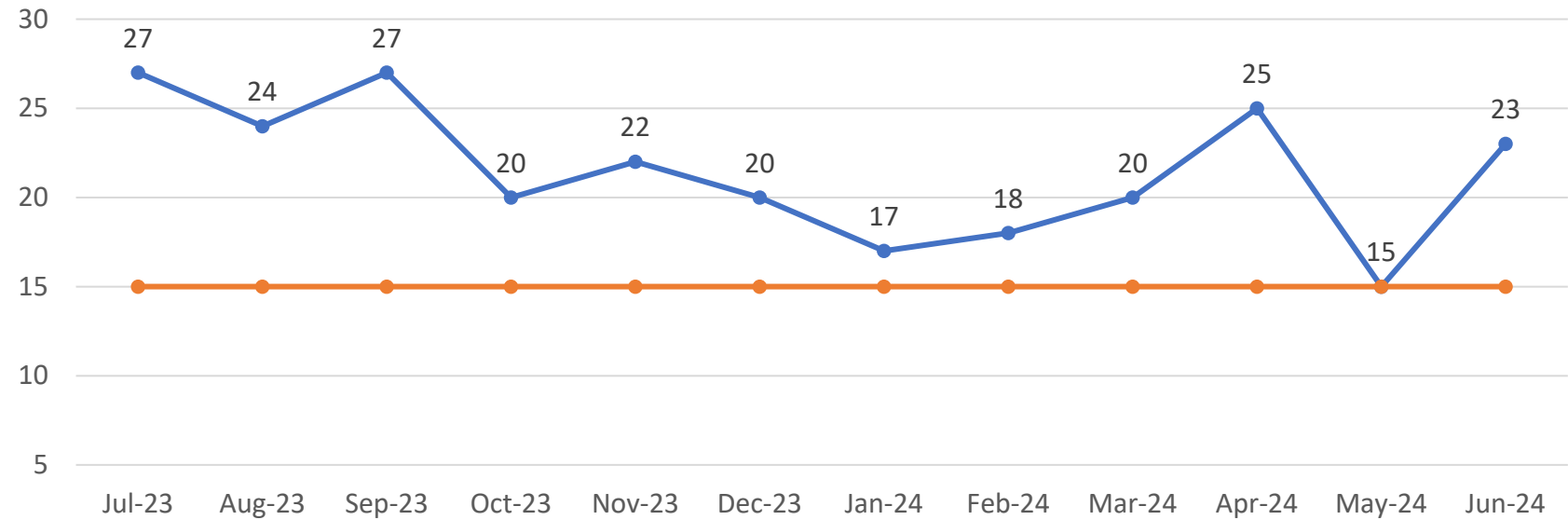
90th Fractile

23.7



■ < 15 Minutes ■ > 15 Minutes

Scene Time in Minutes
90th Fractile by Month

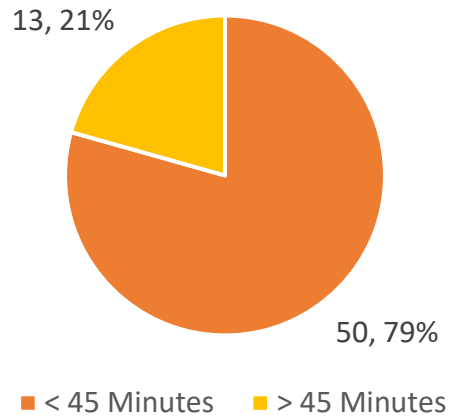


GOAL 2: CARDIAC ARREST TO ECPR RECEIVING CENTER < 45 MINUTES

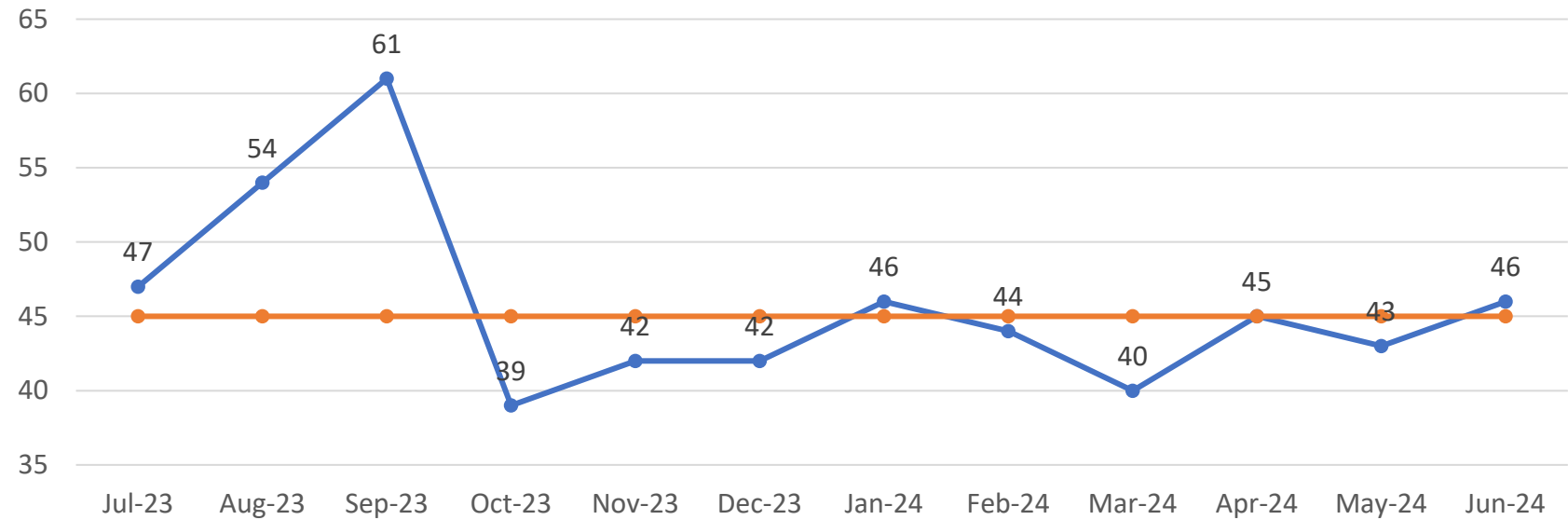


90th Fractile

48.3



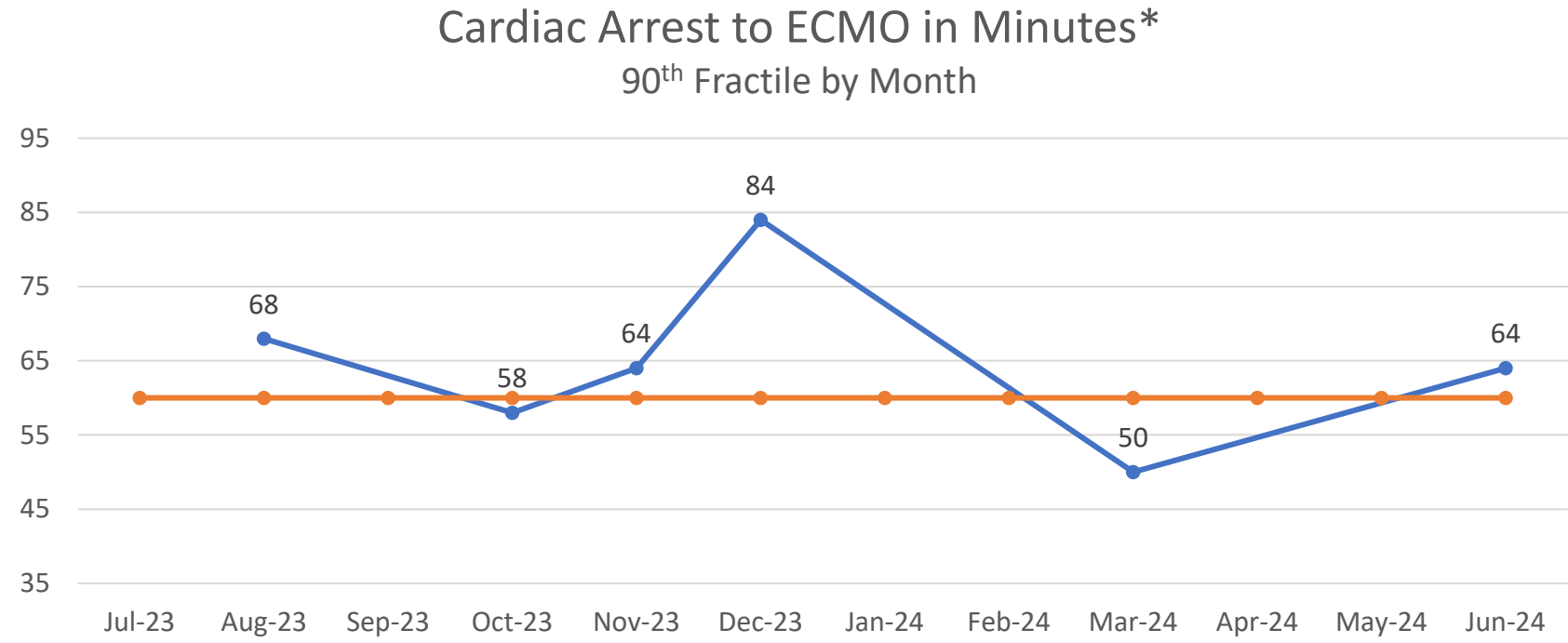
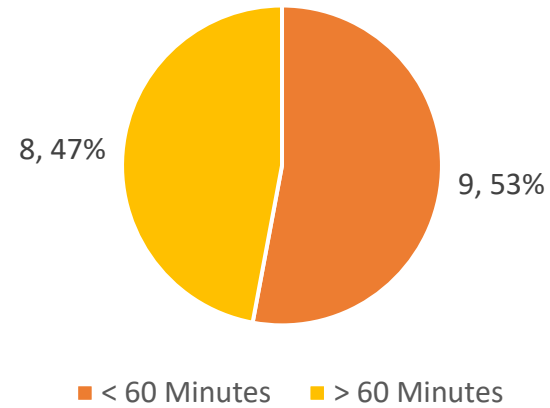
Cardiac Arrest to ECPR Receiving Center in Minutes
90th Fractile by Month



GOAL 3: CARDIAC ARREST TO ECMO < 60 MINUTES

90th Fractile

70.3



**Excludes patients who arrived with ROSC, but re-arrested in the ED*



PROGRAM FUTURE AND MEDIA

More to come and more lives to save!

- Quality assurance and quality improvement
- Ongoing education and recognition for providers
- Program expansion
- SDRC annual reunion and celebration

Recent mentions in media outlets:

- San Diego County News Center: [Sudden Cardiac Arrest Took Local Mom's Life – An Emergency Medical Team Brought Her Back](#)
- The San Diego Union Tribune: [New approach to cardiac arrest buys survival for Ramona man](#)
- JEMS: [CA Man's Cardiac Arrest Shows Benefits of ECMO](#)
- Firehouse: [Pilot Program for Cardiac Arrest Victims Pay Off in California](#)

SAN DIEGO COUNTY NEWS CENTER



[Sudden Cardiac Arrest Took Local Mom's Life - An Emergency Medical Team Brought Her Back](#)



QUESTIONS?

SANDIEGOCOUNTYEMS.COM