

# 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"

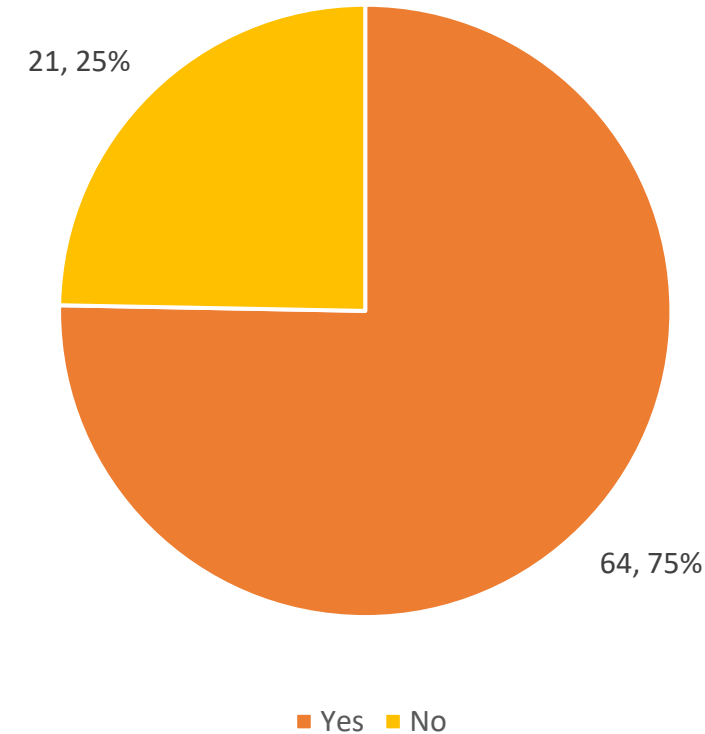
Cardiac arrest to ECPR  
Receiving Center  
< 45 minutes

Cardiac arrest to  
ECMO  
< 60 minutes

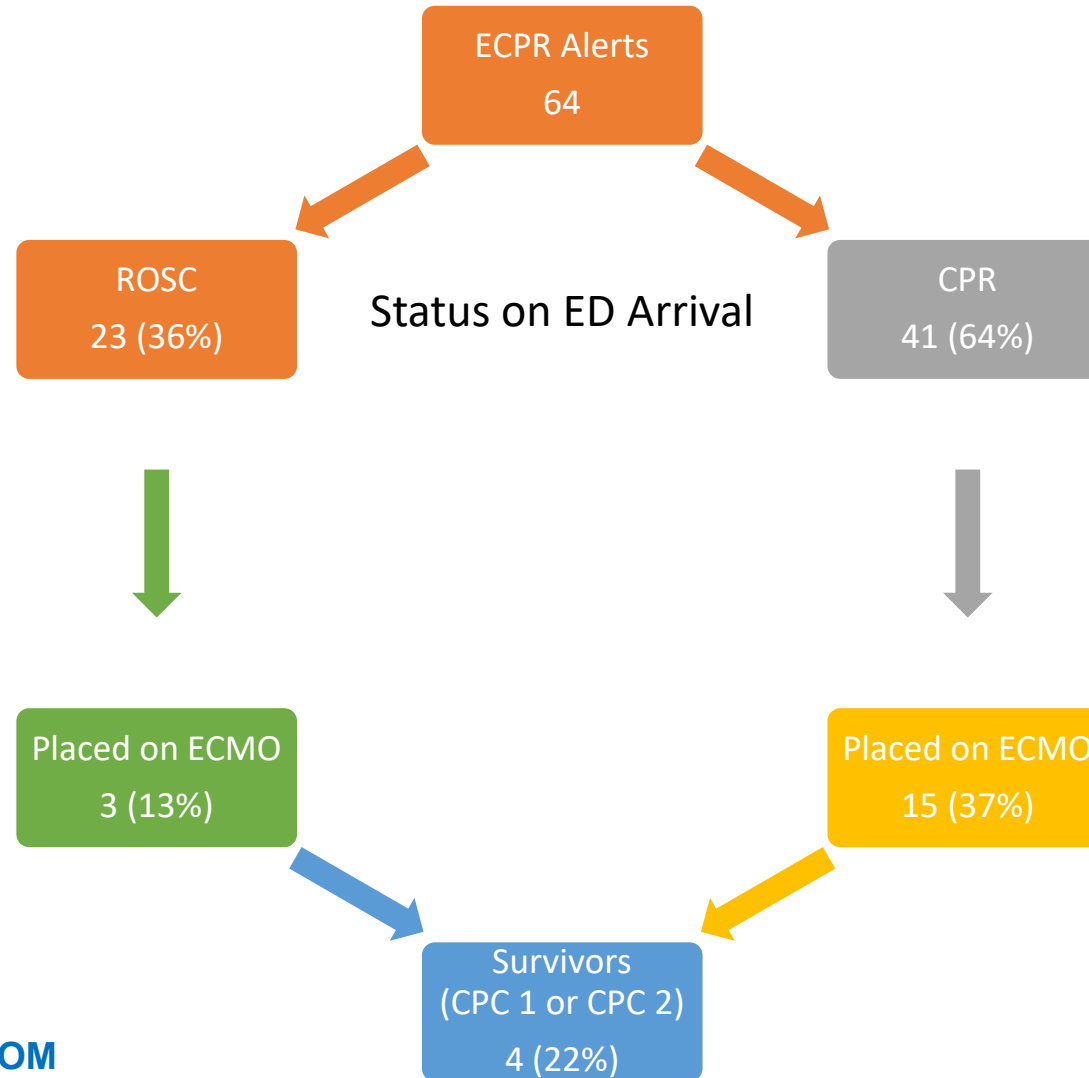
# PREHOSPITAL ECPR ALERTS

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

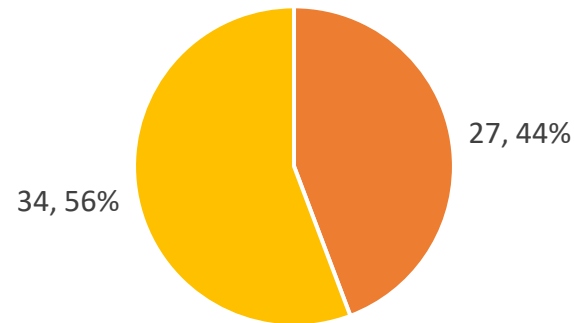
8



# GOAL 1: SCENE TIME < 15 MINUTES

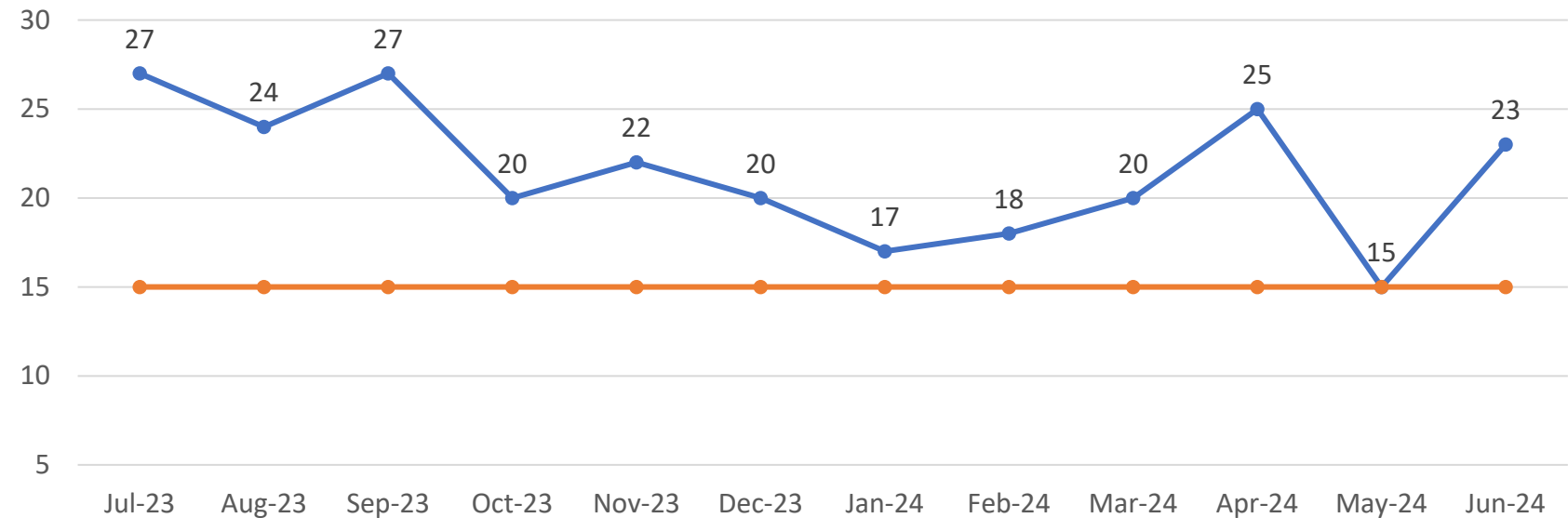
90<sup>th</sup> Fractile

23.7



■ < 15 Minutes ■ > 15 Minutes

Scene Time in Minutes  
90<sup>th</sup> Fractile by Month



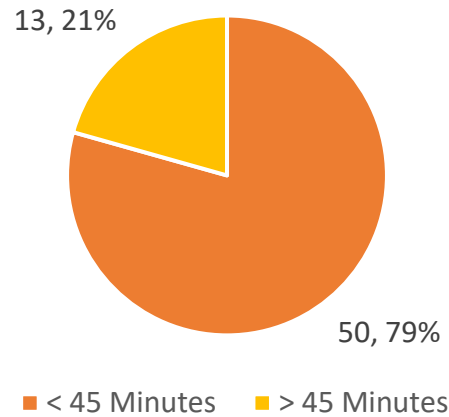


# GOAL 2: CARDIAC ARREST TO ECPR RECEIVING CENTER < 45 MINUTES

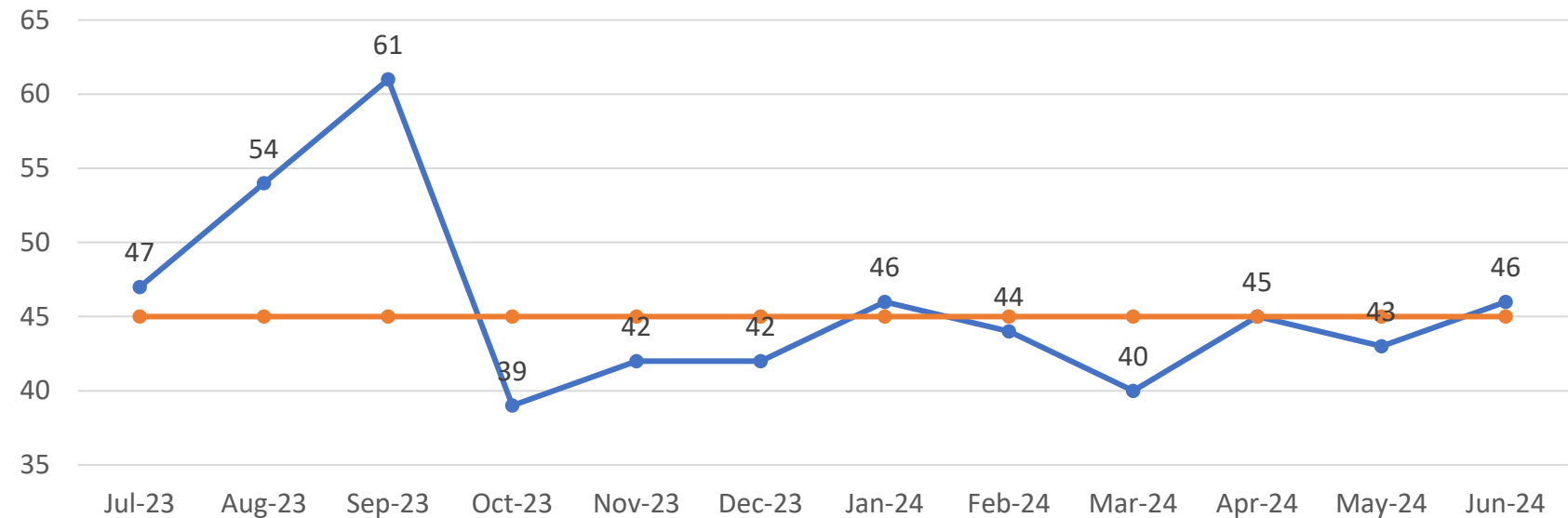


90<sup>th</sup> Fractile

**48.3**



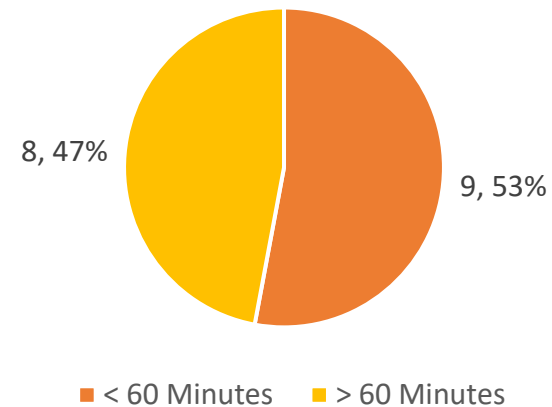
Cardiac Arrest to ECPR Receiving Center in Minutes  
90<sup>th</sup> Fractile by Month



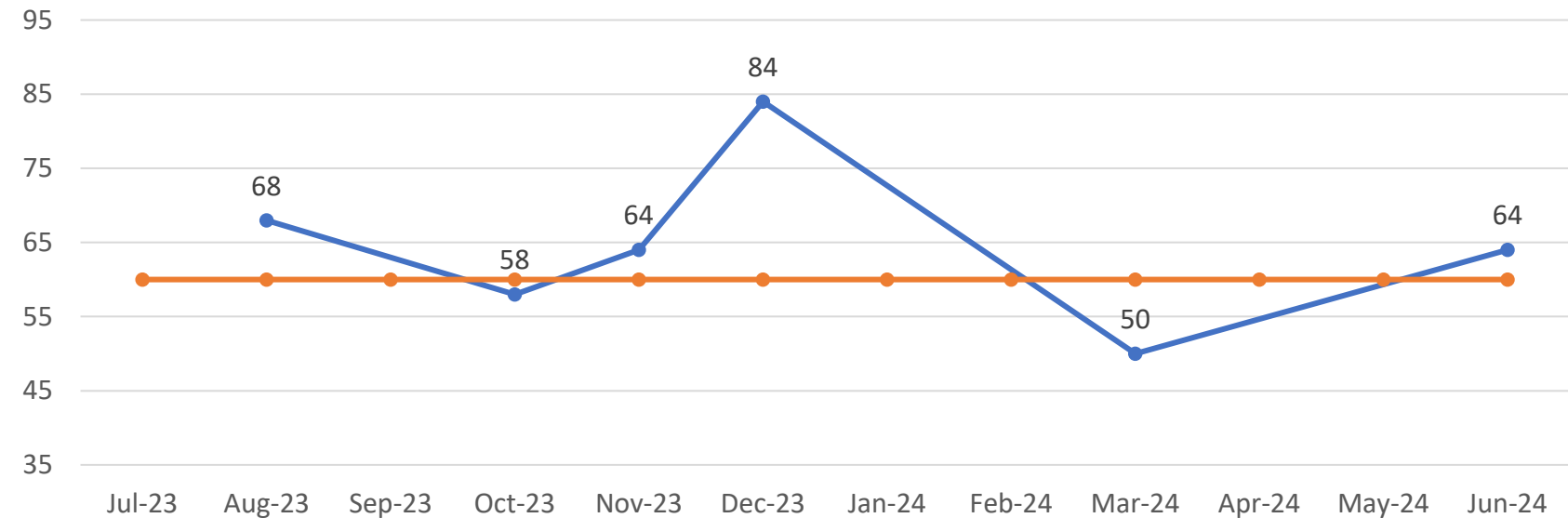
# GOAL 3: CARDIAC ARREST TO ECMO < 60 MINUTES

90<sup>th</sup> Fractile

70.3



Cardiac Arrest to ECMO in Minutes\*  
90<sup>th</sup> Fractile by Month



*\*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](http://SANDIEGOCOUNTYEMS.COM)