

Cardiac RRT Questionnaire

Please complete the survey below to allow us understand how Rapid Response systems function across hospitals for Cardiac patients.

We sincerely appreciate your input and time commitment.

Thank you!

	Pediatric	Adults	Mixed population
What patient population does your hospital cater to?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What are the total number of non-ICU beds (Adult+Pediatric+Neonatal) in your hospital?	<input type="radio"/> < 100 <input type="radio"/> 100-300 <input type="radio"/> 300-500 <input type="radio"/> 500-1000 <input type="radio"/> >1000		
What are the number of ICU beds (Pediatric+Neonatal) in your hospital?	<input type="radio"/> < 20 <input type="radio"/> 20-50 <input type="radio"/> 50-100 <input type="radio"/> 100-300 <input type="radio"/> >300		
What are the number of step down beds (Pediatric+Neonatal) in your hospital?	<input type="radio"/> < 20 <input type="radio"/> 20-50 <input type="radio"/> 50-100 <input type="radio"/> >100		
Does your hospital have a dedicated Cardiac ICU to care for patients with congenital or acquired cardiac conditions?	Yes <input type="radio"/>	No <input type="radio"/>	Unsure <input type="radio"/>
How many beds are present in this dedicated Cardiac ICU?	<input type="radio"/> < 10 <input type="radio"/> 10-20 <input type="radio"/> 20-30 <input type="radio"/> 30-50 <input type="radio"/> >50		
Which patient populations are cared for in the dedicated Cardiac ICU in your hospital? [check all that apply]	<input type="checkbox"/> Neonatal cardiac patients <input type="checkbox"/> Pediatric cardiac patients <input type="checkbox"/> Occasional Adult cardiac patients <input type="checkbox"/> Other		
	Yes	No	Unsure

Does your hospital have a dedicated specialized Cardiac Rapid Response Team (RRT) that responds to patients with congenital or acquired cardiac conditions?

If Yes: When was your hospital's Cardiac RRT established? Within past 1 year
 1-3 years
 3-5 years
 >5 years

If Yes: Why was your hospital's Cardiac RRT established? [check all that apply] Specific resuscitation needs of cardiac patients
 Geographic proximity of team members to response area
 High demands on generalized RRT
 Other

If you answered "other", please enlist the reasons why your hospital's Cardiac RRT was established.

	Yes	No	Unsure
If No, does your hospital have a general Rapid Response Team (RRT) that also responds to cardiac patients?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

ACTIVATION OF RAPID RESPONSE TEAMS (GENERAL OR DEDICATED) FOR CARDIAC PATIENTS

	Yes	No	Unsure
Does your cardiac ward (or general wards where cardiac patients are cared for) use an objective early warning score or other system for detection of clinical deterioration?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If Yes, which early warning score is utilized for cardiac patients in your hospital? [check all that apply]

- PAWS
- PEWS
- MEWS
- C-CHEWS
- Bedside PEWS
- Rothman Index
- Other

	Yes	No	Unsure
Does your hospital have a published policy about parameters for activating RRT?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If Yes, please enlist the criteria for RRT activation. [check all that apply]

- High or Low respiratory rate
- Increased work of breathing
- Oxygen desaturation
- High or low heart rate
- High or low blood pressure
- Impaired perfusion
- Alteration of mental status
- Seizures
- Uncontrolled pain
- Staff/family concern
- Other

	Yes	No	Unsure
In your hospital, can patients' family members activate RRT?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Yes	No	Unsure
Is there an expected amount of time within which the RRT responds?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If Yes, what is the expected time within which RRT responds?

- < 10 minutes
- 10-20 minutes
- 20-30 minutes
- Other

RESOURCES UTILIZED FOR RAPID RESPONSE

Who responds for a RRT for cardiac patients in your hospital? [check all that apply]

- Attending
 Fellow
 Resident
 RN
 RT
 Other providers

Are all the RRT members in house 24 hours a day, 7 days a week?

Yes No Unsure

Do the RRT members have concurrent clinical responsibilities?

Yes No Unsure

Do RRT members get specialized training?

Yes No Unsure

If Yes, what training do the RRT members get? [check all that apply]

- Didactics
 Online modules
 Simulation
 Skills training
 Other

If Yes, how frequently does this training occur?

- Every 1-3 months
 3-6 months
 6 months to yearly
 Less than once a year

Do the RRT members bring any equipment or medications with them when they respond?

Yes No Unsure

If Yes, what equipment and/or medications do the RRT members bring with them? [check all that apply]

- Airway equipment
 Rapid Blood Gas assessment device
 Glucometer
 Emergency medications
 Other

Are there equipment/medications or other resources that may be needed during RRT not available on the cardiac patients' wards?

How does your hospital's CODE team differ from the RRT? [check all that apply]

- No difference
 More personnel
 Additional resources i.e equipment/medications
 Quicker response than RRT
 Other

PATIENT MANAGEMENT AND TRIAGE

Who accompanies the cardiac patients when they are transferred to ICU after a RRT? [check all that apply]

- MD
- RN
- RT
- Other provider/s

	Immediately with RRT	15-30 minutes after RRT	30-60 minutes after RRT	>60 minutes after RRT
When cardiac patients need transfer to ICU after RRT, what is the MOST LIKELY TIME FRAME of transfer to ICU?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please rank the factors impacting time to transfer cardiac patients to ICU after RRT [1 to 5: highest to lowest impact]

	1	2	3	4	5
Patients' clinical need for emergent transfer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provider/staffing readiness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ICU bed availability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transport equipment mobilization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please enlist any "other" factors impacting time to transfer cardiac patients to ICU after RRT.

When patients remain on wards after RRT, what is the follow up process for them?

What type of monitoring is routinely performed for patients who are not transferred to ICU after RRT ?

OUTCOMES

	Yes	No	Unsure
Does your hospital track the total number of RRT activations (general+cardiac) per year?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What are the total number of RRT events that occur in your hospital per year?

- < 100
- 100-300
- 300-500
- 500-750
- 750-1000
- >1000

What are the total number of cardiac RRT activations in your hospital per year?

- < 20
- 20-50
- 50-100
- 100-300
- >300

	Yes	No	Unsure
Does your hospital track total number of Cardiac arrests outside the ICU setting?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If Yes, how many total Cardiac arrests occur outside the ICU setting in your hospital per year?

- < 5
- 5-10
- 10-20
- >20

	Yes	No	Unsure
Does you hospital track total number of Respiratory arrests (need for positive pressure ventilation or intubation) outside ICU per year?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If Yes, how many Respiratory arrests occur in your hospital outside ICU per year?

- < 10
- 10-20
- 20-30
- 30-50
- >50

What proportion of general RRT events get transferred to ICU?

050%100%

(Place a mark on the scale above)

What proportion of cardiac RRT events get transferred to ICU?

050%100%

(Place a mark on the scale above)

	Yes	No	Unsure
Does your institution formally evaluate outcomes after RRT?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If Yes, please enlist the post RRT outcomes evaluated. [check all that apply]	<input type="checkbox"/> Transfer to higher level of care <input type="checkbox"/> Need for ICU specific therapies post transfer <input type="checkbox"/> Length of ICU stay <input type="checkbox"/> Length of Hospital stay <input type="checkbox"/> Discharge Mortality <input type="checkbox"/> Other
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	Yes	No	Unsure
Does your hospital track the rates of critical deterioration after RRTs (need for ventilation/inotropic support within a certain time frame after RRT)?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If Yes, what is the time frame post RRT that your hospital uses to track for critical deterioration (need for ventilatory or inotropic support)?	<input type="radio"/> Upto 3 hours post RRT <input type="radio"/> Upto 6 hours post RRT <input type="radio"/> Upto 12 hours post RRT <input type="radio"/> Upto 24 hours post RRT <input type="radio"/> Beyond 24 hours post RRT <input type="radio"/> NA
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If Yes, what proportion of RRTs progress to Critical deterioration events in your hospital per year?	<div style="display: flex; justify-content: space-between; align-items: center;"> 0 50% 100% </div> <div style="text-align: center; margin-top: 5px;"> </div> <p style="text-align: center; font-size: small;">(Place a mark on the scale above)</p>
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	Yes	No	Unsure
Is there a formal process in your hospital to perform hot and/or cold debriefings after RRT?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How is followup performed on the actionable items identified during the hot or cold debriefs?

How is the information about findings and actions taken after debriefs disseminated to hospital stakeholders?
