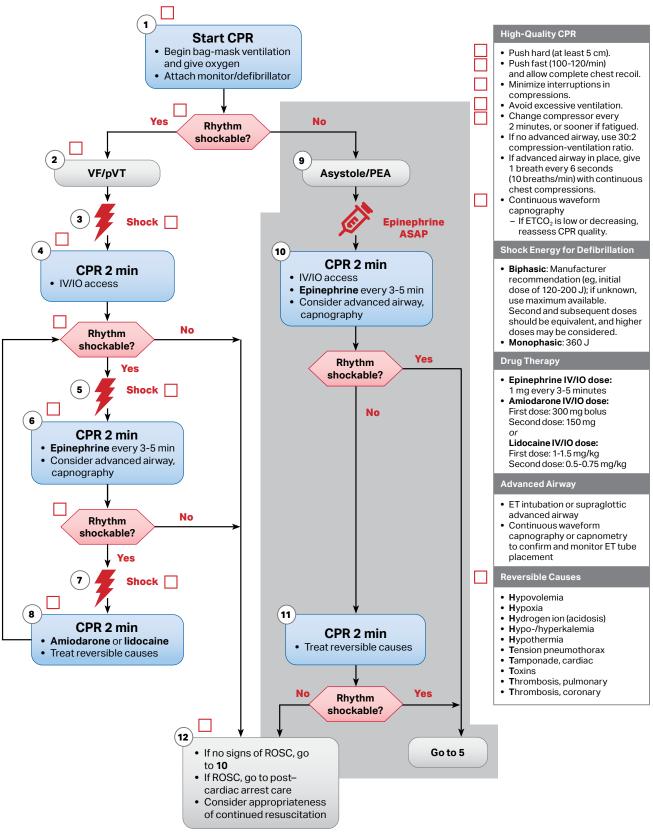
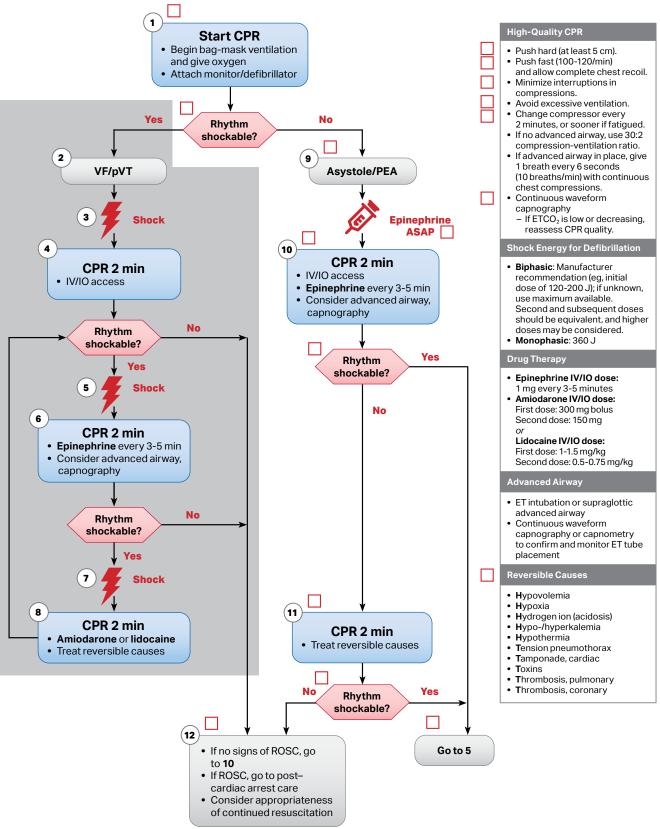
Adult Cardiac Arrest Learning Station Checklist (VF/pVT)

Adult Cardiac Arrest Algorithm (VF/pVT)



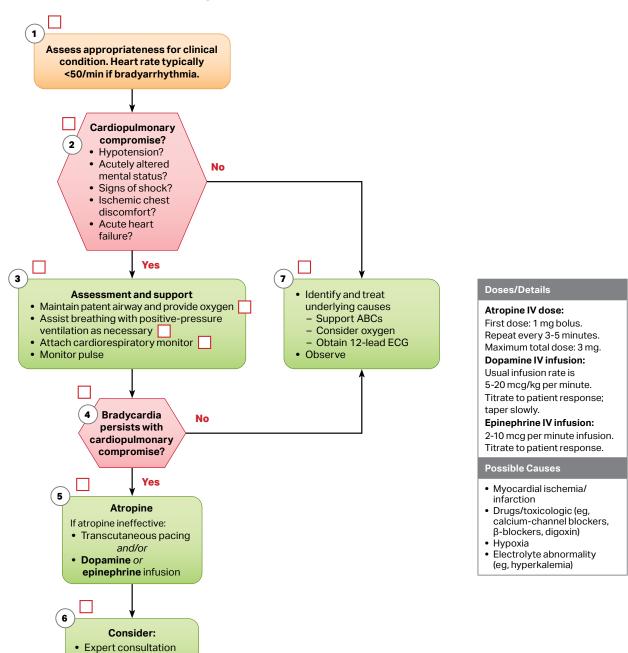
Adult Cardiac Arrest Learning Station Checklist (Asystole/PEA)

Adult Cardiac Arrest Algorithm (Asystole/PEA)



Adult Bradycardia Learning Station Checklist

Adult Bradycardia With a Pulse Algorithm

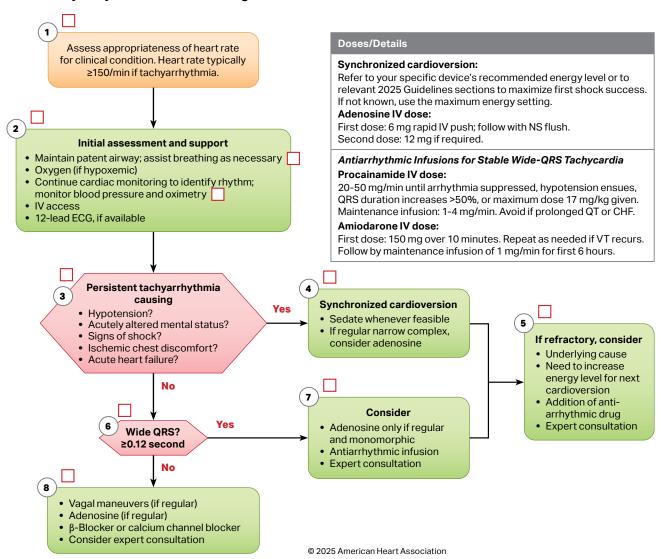


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Transvenous pacing

Adult Tachycardia With a Pulse Learning Station Checklist

Adult Tachyarrhythmia With a Pulse Algorithm



Adult Post-Cardiac Arrest Care Learning Station Checklist

Adult Post-Cardiac Arrest Care Algorithm **ROSC** obtained Manage airway Assess airway. Place or exchange an advanced airway device, as necessary. Confirm correct airway placement. Manage oxygenation and ventilation Maintain 100% FIO2 until SpO2 (or PaO2) can be Initial measured reliably. stabilization after ROSC SpO₂ target 90%-98% (PaO₂ 60-105 mm Hg) PCO₂ target 35-45 mm Hg Manage hemodynamics Target MAP ≥65 mm Hg 3 Early diagnostic testing Obtain 12-lead ECG. Consider diagnostic imaging (CT and/or ultrasound). (4 Treat arrest etiologies and complications. Consider emergency coronary angiography and/or mechanical circulatory support. Assess patient off sedation and neuromuscular blockade, if able. 6 Continued **Follows** management commands? No or unsure 12 7 Ongoing critical care Ongoing critical care 13 8 Coronary angiography Deliberate strategy for temperature control when appropriate 9 EEG (10 Coronary angiography when appropriate 11 Appropriately timed, multimodal prognostication

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Initial Stabilization After ROSC

Resuscitation is ongoing during the post-ROSC phase, and many of these activities can occur concurrently.

Manage airway: Assess and consider placement or exchange of an advanced airway device (usually endotracheal tube or supraglottic device). Confirm correct placement of an advanced airway. This generally includes the use of waveform capnography or capnometry.

Manage oxygenation and ventilation: Titrate Flo₂ for Spo₂ 90%-98% (or Pao₂ 60-105 mm Hg). Adjust minute ventilation to target Pco₂ 35-45 mm Hg in the absence of severe acidemia.

Manage hemodynamics: Initiate or adjust vasopressors and/or fluid resuscitation as necessary for goal MAP ≥65 mm Hg.

Early diagnostic testing: Obtain 12-lead ECG to assess for ischemia or arrhythmia. Consider CT head, chest, abdomen, and/ or pelvis to determine cause of arrest or assess for injuries sustained during resuscitation. Point-of-care ultrasound or echocardiography may be reasonable to identify clinically significant diagnoses requiring intervention.

Continued Management

Treat arrest etiologies and complications.

Consider emergency cardiac intervention:

- Persistent ST-segment elevation present
- Cardiogenic shock
- Recurrent or refractory ventricular arrhythmias
- Severe myocardial ischemia

Temperature control: If patient is not following commands off sedation and neuromuscular blockade or is unable to assess, initiate a deliberate strategy of temperature control with goal 32 °C-37.5 °C as soon as possible.

Evaluate for seizure: Evaluate for clinical seizure and obtain EEG to evaluate for seizure in patients not following commands.

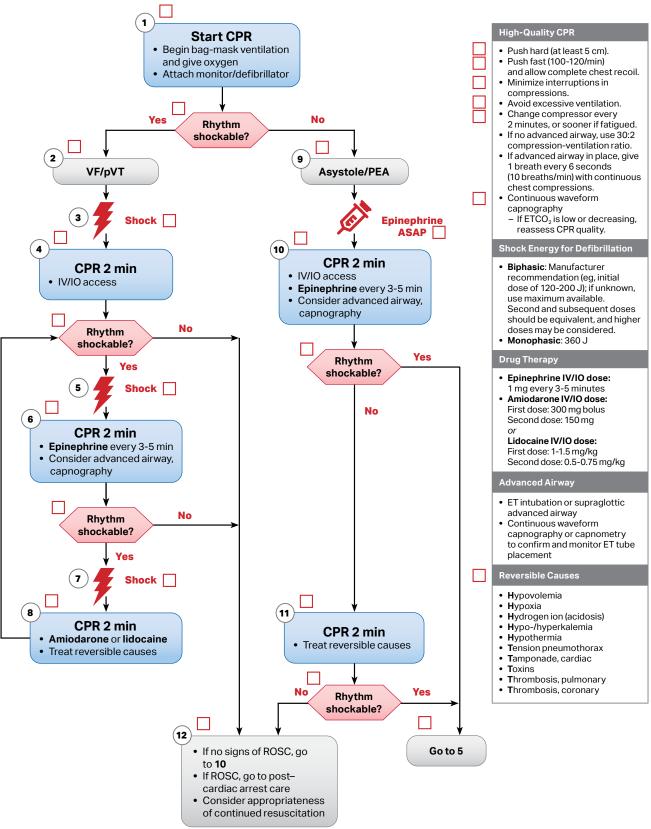
Prognostication: Multimodal approach with delayed impressions (≥72 hours from ROSC or achieving normothermia).

Ongoing critical care includes the following:

- Target PaO₂ 60-105 mm Hg, PCO₂ 35-45 mm Hg (unless severe acidemia); avoid hypoglycemia (glucose <70 mg/dL) and hyperglycemia (glucose >180 mg/dL); target MAP ≥65 mm Hg.
- Consider antibiotics.

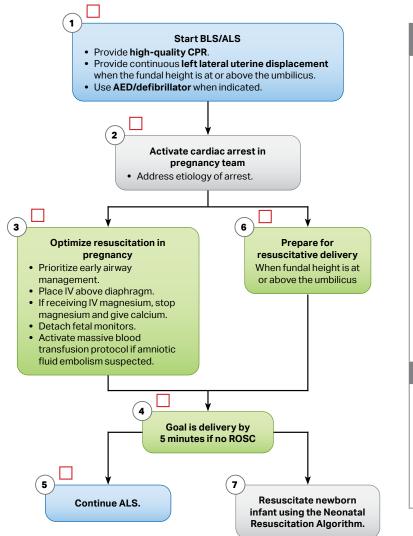
Adult Cardiac Arrest Learning Station Checklist (VF/pVT/Asystole/PEA)

Adult Cardiac Arrest Algorithm (VF/pVT/Asystole/PEA)



Cardiac Arrest in Pregnancy Learning Station Checklist

Cardiac Arrest in Pregnancy Algorithm



Explanation of Cardiac Arrest

- Cardiac arrest in pregnancy team will vary according to local resources but may include:
 - Team Leader
 - Anesthesiologist
- Obstetrician
- Neonatologist
- Nurses
- Pharmacists
- Other professionals
- The goal of left lateral uterine displacement is to relieve aortocaval compression and to facilitate effective chest compressions.
- The goal of resuscitative delivery is to improve the pregnant patient's outcome, and when feasible, the newborn infant's outcome.
- Ideally, perform resuscitative delivery by 5 minutes, depending on local resources.
- In pregnancy, difficult airway is common and is managed (eg, endotracheal intubation or supraglottic airway) by the most experienced professional.

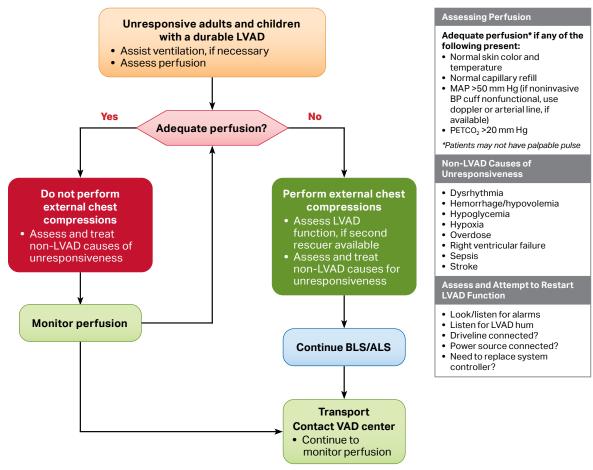
Etiologies of Cardiac Arrest

- A Anesthetic complications
- **B** Bleeding
- C Cardiovascular
- **D** Drugs
- **E** Embolic (amniotic fluid or pulmonary embolism)
- F Fever
- G General causes (H's and T's)
- H Hypertension (eg, preeclampsia)

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Adult Ventricular Assist Device Learning Station Checklist

Adult and Pediatric Durable Left Ventricular Assist Device Algorithm



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Megacode Practice Learning Station Checklist: Case 67 Tachycardia → VF → Asystole → PCAC

Student Name Date of Test						
	Cri	itical Performa	nce Steps			Check if done correctly
Team Leader/	Team Member	S				
Team Leader ass	igns team membe	er roles				
Ensures high- quality CPR at all times	Compression rate 100-120/min	Compression depth of 5 cm	Chest compression fraction >80%	Chest recoil	Ventilation rate	
Team Leader ens	sures that team m	embers communic	ate well			
Tachycardia N	Management					
Starts oxygen if r	needed, places mo	onitor, starts IV				
	eads in proper pos					
Recognizes unsta	able tachycardia					
Recognizes symp	otoms due to resp	oiratory arrest (chol	king)			
VF Manageme	ent					
Recognizes VF						
Clears before and	alyze and shock					
Immediately resu	mes CPR after sh	ocks				
Appropriate airwa						
		n check/shock-CPF	?			
Administers appr	opriate drug(s) an	d doses				
Asystole Man	agement					
Recognizes asys	tole					
Verbalizes potent	tial reversible caus	ses of asystole (H's	and T's)			
Administers appr	opriate drug(s) an	d doses				
Immediately resu	mes CPR after rh	ythm and pulse che	ecks			
Post-Cardiac	Arrest Care					
Identifies ROSC						
	or endotracheal ir	ntubation and conti	nuous waveform ca	apnography, e	ensures BP	
			monitored, and orde			
Considers tempe	rature control					
		STO	PTEST			
Test Results	Circle PASS or N	I R to indicate pass	or needs remediat	ion:	PASS	NR
Instructor Initials	Instru	uctor Number		Date		
Learning Station	•	C O i'- A · · · ·	D1 O1 A	-1.0 7.	4	
∐ Bradycardia	□ Tachycardia	□ Cardiac Arrest/	Post-Cardiac Arre	st Care ⊔ M	iegacode P	ractice

Megacode Practice Learning Station Checklist: Case 68/71/76/79/81 Tachycardia → VF → PEA → PCAC

Student Name _			Ľ	ate of Test _		
	Cr	itical Performa	nce Steps			Check if done correctly
Team Leader/	Team Member	rs				
Team Leader ass	igns team memb	er roles				
Ensures high- quality CPR at all times	1	Compression depth of ≥5 cm	Chest compression fraction >80%	Chest recoil	Ventilation rate	
Team Leader ens	ures that team m	embers communic	ate well			
Tachycardia N	Management					
Starts oxygen if r	needed, places m	onitor, starts IV				
	eads in proper po					
Recognizes unsta						
Performs immed	iate synchronized	cardioversion				
VF Manageme	ent					
Recognizes VF						
Clears before and	alyze and shock					
Immediately resu		nocks				
Appropriate airwa	ay management					
Appropriate cycle	es of drug-rhythn	n check/shock-CPF	₹			
Administers appr	opriate drug(s) ar	nd doses				
PEA Manager	nent					
Recognizes PEA						
Verbalizes poten	tial reversible cau	ses of PEA (H's and	l T's)			
Administers appr	opriate drug(s) ar	nd doses				
Immediately resu	ımes CPR after rh	ythm and pulse che	ecks			
Post-Cardiac	Arrest Care					
Identifies ROSC						
	or endotracheal i	ntubation and conti	nuous waveform ca	apnography, e	nsures BP	
and 12-lead ECG	are performed a	nd O_2 saturation is r	monitored, and orde	ers laboratory	test	
Considers tempe	erature control					
		STO	P TEST			
Test Results	Circle PASS or N	NR to indicate pass	or needs remediat	ion:	PASS	NR
Instructor Initials	Instr	uctor Number		Date		
Learning Station Bradycardia		☐ Cardiac Arrest/	Post–Cardiac Arre	st Care □ M	legacode P	ractice

Megacode Practice Learning Station Checklist: Case 69 Bradycardia → Pulseless VT → Asystole → PCAC

Student Name Date of Test						
	Crit	tical Performa	nce Steps			Check if done correctly
Team Leader	Team Members	:				
Team Leader ass	signs team member	roles				
Ensures high- quality CPR at all times	Compression rate 100-120/min	Compression depth of ≥5 cm	Chest compression fraction >80%	Chest recoil	Ventilation rate	
Team Leader ens	sures that team me	mbers communic	ate well			
Bradycardia I	Management					
Starts oxygen if I	needed, places mo	nitor, starts IV				
Places monitor le	eads in proper posi	tion				
Recognizes symp	ptomatic bradycard	dia				
Administers corr	ect dose of atropin	е				
Prepares for sec	ond-line treatment					
Pulseless VT	Management					
Recognizes pVT						
Clears before and	alyze and shock					
	mes CPR after sho	cks				
Appropriate airw						
	es of drug-rhythm		R			
	opriate drug(s) and	laoses				
Asystole Man						
Recognizes asys						
•	tial reversible cause	-	s and T's)			
	ropriate drug(s) and					
Immediately resu	ımes CPR after rhy	thm and pulse ch	ecks			
Post-Cardiac	Arrest Care					
Identifies ROSC						
			tinuous waveform c			
		$d O_2$ saturation is	monitored, and orde	ers laboratory	test	
Considers temper	erature control					
		STO	P TEST			
Test Results	Circle PASS or NF	R to indicate pass	s or needs remediat	ion:	PASS	NR
Instructor Initials	Instruc	ctor Number		Date		
Learning Statio	-	-	,			
☐ Bradycardia		J Cardiac Arrest.	/Post–Cardiac Arre	st Care 🛮 🗎 M	legacode P	ractice

Megacode Practice Learning Station Checklist: Case 70/73 Bradycardia → Pulseless VT → PEA → PCAC

Student Name Date of Test						
	Cri	itical Performa	nce Steps			Check if done correctly
Team Leader/	Team Members	S				
Team Leader ass	igns team membe	er roles				
Ensures high- quality CPR at all times	Compression rate 100-120/min	Compression depth of ≥5 cm	Chest compression fraction >80%	Chest recoil	Ventilation rate	
Team Leader ens	ures that team me	embers communic	ate well			
Bradycardia N	<i>l</i> lanagement					
Starts oxygen if r	needed, places mo	onitor, starts IV				
Places monitor le	ads in proper pos	ition				
	otomatic bradycar					
	ect dose of atropir					
Prepares for second	ond-line treatment	t				
Pulseless VT	Management					
Recognizes pVT						
Clears before and						
	mes CPR after she	ocks				
Appropriate airwa	 	shook/obook CDI	<u> </u>			
	opriate drug(s) and	check/shock-CPF	7			
PEA Managen						
Recognizes PEA						
	tial reversible caus	ses of PEA (H's and	T's)			
	opriate drug(s) an		- ,			
		thm and pulse che	ecks			
Post-Cardiac						
Identifies ROSC						
	or endotracheal in	tubation and conti	inuous waveform c	apnography, e	ensures BP	
			monitored, and ord			
Considers tempe	rature control					
		STO	PTEST			
Test Results	Circle PASS or N	R to indicate pass	or needs remediat	ion:	PASS	NR
Instructor Initials	Instru	ictor Number		Date		
Learning Station ☐ Bradycardia		☐ Cardiac Arrest/	Post–Cardiac Arre	st Care □ M	legacode P	ractice

Megacode Practice Learning Station Checklist: Case 72 Tachycardia → VF → Asystole → PCAC

Student Name			Date of Test				
	Cr	itical Performa	nce Steps			Check if done correctly	
Team Leader/	Team Member	s					
Team Leader ass	signs team membe	er roles					
Ensures high- quality CPR at all times	Compression rate 100-120/min	Compression depth of ≥5 cm	Chest compression Chefraction >80%	est recoil \	/entilation rate		
Team Leader ens	sures that team m	embers communic	ate well				
Tachycardia I	Management						
Starts oxygen if r	needed, places m	onitor, starts IV					
Places monitor le	eads in proper pos	sition					
Recognizes unsta	able tachycardia						
Recognizes symp	otoms due to tach	ıycardia					
Performs immed	iate synchronized	cardioversion					
VF Managemo	ent						
Recognizes VF							
Clears before and	alyze and shock						
Immediately resu	mes CPR after sh	ocks					
Appropriate airwa	<u> </u>						
		check/shock-CPI	R				
	opriate drug(s) an	d doses					
Asystole Man	agement						
Recognizes asys	tole						
Verbalizes poten	tial reversible caus	ses of asystole (H's	and T's)				
Administers appr	ropriate drug(s) an	id doses					
Immediately resu	ımes CPR after rh	ythm and pulse ch	ecks				
Post-Cardiac	Arrest Care						
Identifies ROSC							
Verbalizes need f and 12-lead ECG	are performed ar		inuous waveform capn monitored, and orders				
Considers tempe	erature control						
		STO	P TEST				
Test Results	Circle PASS or N	IR to indicate pass	or needs remediation	:	PASS	NR	
Instructor Initials	Instru	uctor Number		Date _			
Learning Statio	n Competency					,	
_		□ Cardiac Arrest/	Post-Cardiac Arrest C	are □ Me	enacode Pr	ractice	

Megacode Practice Learning Station Checklist: Case 74/77 Tachycardia → Pulseless VT → PEA → PCAC

Student Name Date of Test							
	Critical Performance Steps						
Team Leader	Team Member	S					
Team Leader ass	signs team membe	er roles					
Ensures high- quality CPR at all times	Compression rate 100-120/min	Compression depth of ≥5 cm	Chest compression fraction >80%	Chest recoil	Ventilation rate		
Team Leader ens	sures that team m	embers communic	ate well				
Tachycardia I	Management						
Starts oxygen if i	needed, places m	onitor, starts IV					
Places monitor le	eads in proper pos	sition					
Recognizes unst	able tachycardia						
Recognizes sym	ptoms due to tach	nycardia					
Performs immed	liate synchronized	cardioversion					
Pulseless VT	Management						
Recognizes pulse	eless VT						
Clears before and							
	ımes CPR after sh	ocks					
Appropriate airw	ay management						
Appropriate cycle	es of drug-rhythm	n check/shock-CPI	3				
Administers appr	ropriate drug(s) an	d doses					
PEA Manager	nent						
Recognizes PEA							
Verbalizes poten	tial reversible cau	ses of PEA (H's and	d T's)				
Administers app	ropriate drug(s) an	nd doses					
		ythm and pulse ch	ecks				
Post-Cardiac	Arrest Care						
Identifies ROSC							
	for endotracheal in	ntubation and cont	inuous waveform c	apnography, e	nsures BP		
			monitored, and orde				
Considers tempe	erature control	-					
		STO	P TEST				
Test Results	Circle PASS or N	IR to indicate pass	or needs remediat	ion:	PASS	NR	
Instructor Initials	Instru	uctor Number		Date _		•	
Learning Statio							
│ □ Bradycardia	☐ Tachycardia	□ Cardiac Arrest/	Post-Cardiac Arre	st Care 🛮 M	egacode P	ractice	

Megacode Practice Learning Station Checklist: Case 75/78 Bradycardia → VF → Asystole → PCAC

Student Name Date of Test						
	Cr	itical Performa	nce Steps			Check if done correctly
Team Leader	/Team Member	'S				
Team Leader ass	signs team membe	er roles				
Ensures high- quality CPR at all times	, 		Chest compression fraction >80%	Chest recoil	Ventilation rate	
Team Leader en	sures that team m	embers communic	ate well			
Bradycardia l	Management					
Starts oxygen if	needed, places m	onitor, starts IV				
	eads in proper pos					
Recognizes sym	ptomatic bradycar	rdia				
Administers corr	ect dose of atropi	ne				
Prepares for sec	ond-line treatmen	t				
VF Managem	ent					
Recognizes VF						
Clears before an	alyze and shock					
	umes CPR after sh	ocks				
Appropriate airw		a ala a al dala a al a ODI				
	es of drug-rnythir ropriate drug(s) an	n check/shock-CPI	Κ			
Asystole Mar		u uoses				
Recognizes asys						
		ses of asystole (H's	and T'e)			
•	ropriate drug(s) an					
		ythm and pulse ch	ecks			
Post-Cardiac		ytiiii ana paloo on	CONC			
	Arrest Care					
Identifies ROSC	for andatrachael in	atubation and cont	inuous waveform ca	nnography o	neuroe RD	
and 12-lead ECG	are performed ar	0_2 saturation is i	monitored, and orde	ers laboratory	test	
Considers temper				•		
		STO	P TEST		·	
Test Results	Circle PASS or N	IR to indicate pass	or needs remediat	ion:	PASS	NR
Instructor Initials	s Instru	uctor Number		Date		
Learning Statio	n Competency					
☐ Bradycardia	☐ Tachycardia	☐ Cardiac Arrest/	Post–Cardiac Arres	st Care □ M	egacode Pr	ractice

Megacode Practice Learning Station Checklist: Case 80 Tachycardia → VF → PEA → PCAC

Student Name Date of Test						
	Cri	itical Performa	nce Steps			Check if done correctl
Team Leader	/Team Member	s				
Team Leader ass	signs team membe	er roles				
Ensures high- quality CPR at all times	100-120/min	of ≥5 cm	Chest compression Chest compression Chest compression Chest	nest recoil V	/entilation rate	
Team Leader en	sures that team me	embers communic	ate well			
Tachycardia l	Management					
Starts oxygen if	needed, places mo	onitor, starts IV				
Places monitor le	eads in proper pos	ition				
Recognizes unst	able tachycardia					
Recognizes sym	ptoms due to guns	shot wound				
VF Managem	ent					
Recognizes VF						
Clears before an	alyze and shock					
	umes CPR after sh	ocks				
Appropriate airw	<u> </u>					
	es of drug-rhythm		₹			
	ropriate drug(s) an	u uoses				
PEA Manager						
Recognizes PEA		(DEA (III	171			
•	itial reversible caus	-	l l's)			
	ropriate drug(s) an					
_	umes CPR after rhy	ytnm and puise ch	ecks			
Post-Cardiac	: Arrest Care					
Identifies ROSC						
			inuous waveform capr			
Considers temper		o O ₂ Saturation is i	monitored, and orders	laboratory t	est	
Considers tempe		CT O	D TECT			
		510	PTEST			1
Test Results	Circle PASS or N	R to indicate pass	or needs remediation	n:	PASS	NR
Instructor Initials	s Instru	ıctor Number		Date _		
Learning Statio	n Competency					
_		□ Cardiac Arrest/	Post-Cardiac Arrest (aro □ Me	anacada P	ractica