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Clinical Checklist

Cardiac Arrest Checklist:

Code Commander is identified
Monitor is visible and a dedicated provider is viewing the rhythm with all leads attached
Continuous compressions are on-going
O2 cylinder with oxygen in it is attached to BVM
Mask travels with bag, regardless of what airway is in place
EtCO2 waveform is present and value is being monitored
ITD is in place if appropriate
Access has been obtained (IV or IO)
Gastric distention is not a factor
Esophageal temperature probe is in place and temperature is visible
D50 and sodium bicarbonate have been considered and/or administered
Tension PTX has been considered
Family is receiving care and is at the patient's side



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Considerations for termination of resuscitation outside of procedure:

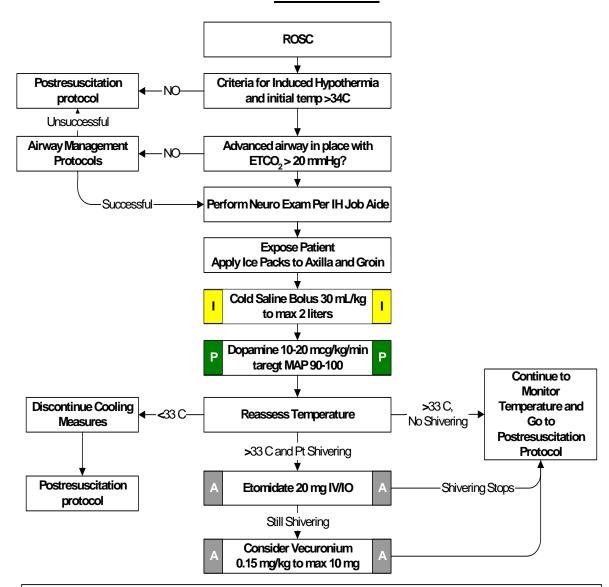
	Desires of family members
	Initial rhythm and witnessed status Asystole ~1% survival, PEA ~10% survival, VF/VT ~40% survival
	Current EtCO2 level (<20 mmHg with good waveform – low survival)
	Refer to Discontinuation Form for criteria
<u>PE</u>	ARLS/Considerations
	Unwitnessed arrest: 2 minutes of CPR prior to shock
	Renal Failure consider Bicarb and Calcium early
	Dig Toxic = NO Calcium
	NO Calcium with Magnesium
	Consider Procainamide for refractory v-fib
	Consider H's & T's in PEA/Asystole arrest



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ICE Protocol



Pearls:

- Criteria for Induced Hypothermia
- ROSC not related to blunt/penetrating trauma or hemorrhage
- Age 12 or older with adult body habitus
- Temperature after ROSC gretaer than 34 C degrees
- Advanced airway in place with no purposeful response to pain
- · If no advanced airway can be obtained, cooling may only be initiated on order from online medical control
- · Take care to protect patient modesty. Undergarments may remain in place during cooling
- · Do not delay transport to cool
- · Frequently monitor airway, especially after each patient move
- Patients may develop metabolic alkalosis with cooling. Do not hyperventilate



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Induction of Hypothermia

Etomidate							
For Etomidate 2mg/mL only	All Patients Eligible for Induction Receive 20 mg = (10 cc)						
	V	ecuronium					
	Weight	Dose (mg)	Volume (cc)				
	30	3	3				
	35	3.5	3.5				
	40	4	4				
only g.	45	4.5	4.5				
r Vecuronium 1mg/ml on 0.15mg/kg to max 10mg.	50	5	5				
mg/ ax 1	55	5.5	5.5				
m 1 0 m	60	6	6				
niu kg t	65	6.5	6.5				
uro ng/l	70	7	7				
Vec.	75	7.5	7.5				
For Vecuronium 1mg/ml only. 0.15mg/kg to max 10mg.	80	8	8				
	85	8.5	8.5				
	90	9	9				
	95	9.5	9.5				
	100	10	10				



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Trauma 1 & Alert Criteria

"Trauma 1 Due to _____"

- BP < 90, RR < 8
- GCS < 8
- Penetrating injury to head, neck or torso
- Paralysis
- Airway Compromise
- Respiratory Distress

OB Trauma 1

22 weeks or greater with potential for injury, or meeting alert criteria, or restrained on a long spine board

Pediatric Trauma 1

Less than 12 years of age with potential for injury or meeting adult trauma 1 or trauma alert criteria

Trauma Alert

"Trauma Alert Due to ______"

- Altered Mental Status (GCS 9-12)
 - Flail chest or multiple rib fractures
 - Blunt chest trauma
 - Abdominal pain after blunt trauma
 - Pelvic pain/pelvic fractures
 - 2 or more long bone fractures
 - Pulse > 120 after traumatic injury with BP > 90
 - Extremity injury with potential for loss of limb
 - Significant vascular injuries
 - Burns with potential airway compromise
 - Age > 60 with significant mechanism of injury
 - Pedestrian struck by car
 - Ejection from vehicle
 - MVC with speed > 40 mph
 - Fall greater than 20 ft or more than 2x pt's height



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GCS

Eyes Open

- Spontaneous (4)
- To Voice (3)
- To pain (2)
- None (1)

Best Verbal

- Oriented (5)
- Confused (4)
- Inappropriate (3)
- Garbled (2)
- None (1)

Best Motor

- Obeys (6)
- Pain-Local (5)
- Pain withdrawal (4)
- Pain-Flexion (3)
- Pain-Extended (2)
- None (1)



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CHF Checklist

	CPAP
	NTG & Vasotec for HTN
	Dopamine & Fluids for hypotension
	12-Lead for suspected AMI
<u>As</u>	thma Checklist
	CO2 & O2 readings
	Consider Magnesium
	Epi IV for severe cases ONLY



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Determining Capacity

___ Legal Capacity

- Ensure at least 18 years of age
- If < 18 y.o. must be married or have a decree from courts
- Pt's with court decree of incapacity cannot refuse care

_ Mental Capacity

- Start with the presumption that all patients are mentally competent unless your assessment clearly indicates otherwise
- Ensure that patient is oriented to person, place, time and purpose
- Establish that patient is not a danger to himself or others
- Ensure that patient is capable of understanding the risks of refusing care or transportation and any proposed alternatives
- Check to be sure that patient is exhibiting no other signs or symptoms of potential mental incapacity, including drug or alcohol intoxication, unsteady gait, slurred speech, etc.
- Ask patient to echo back information you provide including:
 - o The lack of a complete evaluation
 - o The risks of undiagnosed illness

___ Medical or Situational Capacity

- Ensure that patient is suffering from no acute medical conditions that might impair his or her ability to make an informed decision to refuse care or transportation
- If possible, rule out conditions such as hypovolemia, hypoxia, head trauma, unequal pupils, metabolic emergencies (e.g., diabetic issues); hypothermia, hyperthermia, etc.
- Attempt to determine if patient lost consciousness for any period of time
- If any conditions above impair patient's decision making ability, patient *may* not have the capacity to refuse care and your documentation should clearly establish that the patient understood the risks, benefits and advice given to him



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Cardizem (Diltiazem) Dosing

First Dose						
	Weight (kg)	Dose (.25mg/kg)	Volume (cc)			
	20	5	1			
	25	6.25	1.25			
se	30	7.5	1.5			
Cardizem (25mg/5 ml ONLY) First Dose: 0.25 mg/kg. Give over 2 mins. Max 20 mg per dose	35	8.75	1.75			
Cardizem (25mg/5 ml ONLY) First Dose: 0.25 mg/kg. over 2 mins. Max 20 mg per	40	10	2			
rdizem (25mg/5 ml ON] First Dose: 0.25 mg/kg. er 2 mins. Max 20 mg I	45	11.25	2.25			
/5 m 25 n 1x 2(50	12.5	2.5			
img : 0.	55	13.75	2.75			
1 (25) Dose nins.	60	15	3			
izen rst 1 2 m	65	16.25	3.25			
ardi Fi	70	17.5	3.5			
C.	75	18.75	3.75			
Ċ.	80+	20	4			
	М	AX DOSE 20 n	ng			



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Clinical Checklist

Cardizem (Diltiazem) Dosing cont.

	Second Dose					
	Weight (kg)	Dose (.35mg/kg)	Volume (cc)			
	20	7	1.4			
lose	25	8.75	1.75			
(X) 5. er d	30	10.5	2.1			
JNI g/kg ng p	35	12.25	2.45			
ml (5 m; 20 n	40	14	2.8			
Cardizem (25mg/5 ml ONLY Second Dose: 0.35 mg/kg. over 2 mins. Max 20 mg per	45	15.75	3.15			
25m ose: s. M	50	17.5	3.5			
m (2 d D min	55	19.25	3.85			
rdizen Second ver 2 n	60+	20	4			
Cardizem (25mg/5 ml ONLY) Second Dose: 0.35 mg/kg. Give over 2 mins. Max 20 mg per dose	Maximum Dose is 20 mg/dose, even at 0.35 mg/kg. For 60+ kg pt weight, use 20 mg.					



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Epinephrine

	Adult Bradycardia with Pulse							
t):	250 NS HR < 60		Q		Dose	Drips/Min Micro Drip	Appr Time	
tt/mL se			1 mcg/min	15	1 gtt/4 secs			
g 09) uo	1mg of 1:1000 in 250 NS Give 1 mcg/min to HR < 60	2 mcg/min	30	1 gtt/2 secs				
Epi Infusion (60 gtt/mL set):		3 mcg/min	45	2 gtt/3 secs				
19 19	Ep G		4 mcg/min	60	1 gtt/sec			
			Adult Car	diac Arrest				
L set):	.000 in		Dose	Drips/Min Macro Drip	Appr Time			
1 (10 gtt/m]	mL of Epi 1:1 250 mL NS	1 m	ng/3 min	72 gtts	6 drops / 5sec			
Epi Infusion (10 gtt/mL set):	Inject 12 mL of Epi 1:1000 in 250 mL NS	1 m	ng / 5 min	44 gtts	2 drops / 3sec			



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Amiodarone

Pediatric Pulseless Arrest						
	Weight (kg)	Dose (5mg/kg)	Volume (cc)			
χ'	5	25	0.5			
Amiodarone 50mg/mL ONLY	10	50	1			
0]	15	75	1.5			
[m/	20	100	2			
mg	25	125	2.5			
20	30	150	3			
one	35	175	3.5			
dar	40	200	4			
nio	45	225	4.5			
An	50	250	5			
	55	275	5.5			
	60 +	300	6			



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Dopamine Dosing Chart

Values below are drips/min on a 60 drip/mL (Micro Drip) set							
Weight (kg)	5 mcg/kg/min	10 mcg/kg/min	15 mcg/kg/min	20 mcg/kg/min			
30	6	12	18	24			
35	7	13	19	25			
40	8	15	22	29			
45	8	17	26	35			
50	9	19	29	39			
55	10	21	32	43			
60	11	23	35	47			
65	12	24	36	48			
70	13	26	39	52			
75	14	28	42	56			
80	15	30	45	60			
85	16	32	48	64			
90	17	34	51	68			
95	18	36	54	72			
100	19	38	57	76			
105	20	39	58	77			
110	21	41	61	81			



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Dopamine Dosing Chart Cont.

Approx. Timing on a 60 drip/mL (Micro Drip) set from calculations above						
Weight (kg)	5 mcg/kg/min	10 mcg/kg/min	15 mcg/kg/min	20 mcg/kg/min		
30	1 drip/10 secs	1 drip/5 secs	1 drip/ 3 secs	2 drips/5 secs		
35	1 drip/10 secs	1 drip/5 secs	1 drip/ 3 secs	2 drips/5 secs		
40	1 drip/8 secs	1 drip/4 secs	2 drips/ 3 secs	1 drip/2 secs		
45	1 drip/8 secs	1 drip/4 secs	2 drips/3 secs	1 drip/2 secs		
50	1 drip/6 secs	1 drip/ 3 secs	1 drip/2 secs	2 drips/3 secs		
55	1 drip/6 secs	1 drip/ 3 secs	1 drip/2 secs	2 drips/3 secs		
60 1 drip/6 secs		1 drip/3 secs	1 drip/2 secs	4 drips/5 secs		
65 1 drip/5 secs		2 drips/5 secs	3 drips/5 secs	4 drips/5 secs		
70	70 1 drip/5 secs		2 drips/3 secs	4 drips/5 secs		
75	1 drip/4 secs	1 drip/2 secs	2 drips/3 secs	1 drip/ sec		
80	1 drip/4 secs	1 drip/2 secs	3 drips/4secs	1 drip/sec		
85	1 drip/4 secs	1 drip/2 secs	4 drips/5secs	1 drip/sec		
90	1 drip/4 secs	1 drip/2 secs	4 drips/5secs	1 drip/sec		
95 3 drips/10 secs		3 drips/5 secs	1 drip/sec	6 drips/5 secs		
100 1 drip/3 secs		2 drips/3 secs	1 drip/sec	6 drips/5 secs		
105	1 drip/3 secs	2 drips/3 secs	1 drip/sec	4 drips/3 secs		
110	1 drip/3 secs	2 drips/3 secs	1 drip/sec	4 drips/3 secs		



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Pediatric Versed Dosing

Pediatric Seizure									
	0.05	mg/kg	(IV)	0.1 mg/kg (IV)			0.2 mg/kg (IM/IN)		
	Weight (kg)	Dose (mg)	Volume (cc)	Weight (kg)	Dose (mg)	Volume (cc)	Weight (kg)	Dose (mg)	Volume (cc)
	2	0.1	0.1	2	0.2	0.2	2	0.4	0.4
	4	0.2	0.2	4	0.4	0.4	4	0.8	0.8
mg.	6	0.3	0.3	6	0.6	0.6	6	1.2	1.2
N	8	0.4	0.4	8	0.8	0.8	8	1.6	1.6
to max	10	0.5	0.5	10	1	1	10	2	2
to	12	0.6	0.6	12	1.2	1.2	12	2.4	2.4
nly.	14	0.7	0.7	14	1.4	1.4	14	2.8	2.8
For Versed 1mg/ml only g IV or 0.2 mg/kg IM or	16	0.8	0.8	16	1.6	1.6	16	3.2	3.2
ml on S IM	18	0.9	0.9	18	1.8	1.8	18	3.6	3.6
l 1mg/m mg/kg	20	1	1	20	2	2	20	4	4
d 11 gm (22	1.1	1.1	22	2.2	2.2	22	4.4	4.4
rsed 0.2	24	1.2	1.2	24	2.4	2.4	24	4.8	4.8
Vel	26	1.3	1.3	26	2.6	2.6	26		
For 0.05 to 0.1 mg/kg IV	28	1.4	1.4	28	2.8	2.8	28		
g/kg	30	1.5	1.5	30	3	3	30		
	32	1.6	1.6	32	3.2	3.2	32		
[6	34	1.7	1.7	34	3.4	3.4	34		IV or IN
5 to	36	1.8	1.8	36	3.6	3.6	36		if patient is 21 kg or
0:0	38	1.9	1.9	38	3.8	3.8	38		er, then 5
	40	2	2	40	4	4	40	mg (4 cc) is maximum dose	
	42	2.1	2.1	42	4.2	4.2	42		
	44	2.2	2.2	44	4.4	4.4	44		
	46	2.3	2.3	46	4.6	4.6	46		
	48	2.4	2.4	48	4.8	4.8	48		
	50	2.5	2.5	50	5	5	50		

