

TSDA Boot Camp
CPB Assessment: All Scenarios

Resident: _____

Date: _____

Evaluator: _____

Hour 1 _____

Initiation:

Step	Satisfactory	Comments
Assure adequate ACT	Y or N	
Communicate with perfusionist	Y or N	
Check line pressure	Y or N	
Assess venous drainage	Y or N	
Vent placement?	Y or N	
Cardioplegia?	Y or N	
Crossclamp	Y or N	

Termination: Removal of crossclamp, de-airing procedures, vent removal

Weaning CPB	Satisfactory	Comments
Ventilator is on	Y or N	
Temperature satisfactory	Y or N	
TEE to assess intracardiac air	Y or N	
TEE to assess cardiac function	Y or N	
No bleeding in inaccessible areas	Y or N	
Acceptable rhythm /pacing wires	Y or N	
Need for Inotropic support	Y or N	

Termination of Bypass

Decannulation

Hour 2

Initiation:

Step	Satisfactory	Comments
Assure adequate ACT	Y or N	
Communicate with perfusionist	Y or N	
Check line pressure	Y or N	
Assess venous drainage	Y or N	
Vent placement?	Y or N	
Cardioplegia?	Y or N	
Crossclamp	Y or N	

Termination: removal of crossclamp; de-airing procedures; vent removal

Weaning CPB	Satisfactory	Comments
Ventilator is on	Y or N	
Temperature satisfactory	Y or N	
TEE to assess intracardiac air	Y or N	
TEE to assess cardiac function	Y or N	
No bleeding in inaccessible areas	Y or N	
Acceptable rhythm /pacing wires	Y or N	
Need for inotropic support	Y or N	

Termination of Bypass: decannulation

Emergency Scenario:

Massive Air Embolism		
Recognition of problem in appropriate time?	Y or N	
Communicates problem to perfusionist?	Y or N	
Correct response to problem:		
Immediately stops pump	Y or N	
Clamp arterial cannula, de-air	Y or N	
Trendelenberg	Y or N	
Remove cannula, de-air	Y or N	
Retrograde cerebral sequence	Y or N	
Replace cannula reinstitute CPB	Y or N	
Cooling	Y or N	

Emergency Scenario:

Poor Venous Drainage		
Recognition of problem in appropriate time?	Y or N	
Responds to perfusionist's concerns	Y or N	
Correct response to problem:		
<u>Upon Initiation of CPB</u>		
Ensures correct cannula placement -Filling pressures	Y or N	
Examines line for kinks, etc.	Y or N	
Minimization of venous air	Y or N	
Eliminates hypovolemia as a cause	Y or N	
Correct response to problem:		
<u>During CPB:</u>		
Cannula migration	Y or N	
Heart turned for anastomosis	Y or N	

Identifies potential for VAVD	Y or N	
-------------------------------	--------	--

Emergency Scenario:

High Arterial Line Pressure		
Recognition of problem in appropriate time?	Y or N	
Responds to perfusionist's concerns	Y or N	
Correct response to problem:		
<u>High line pressure when cannulating:</u>		
Cannula in true lumen?	Y or N	
Cannula correctly oriented?	Y or N	
Minimization of venous air	Y or N	
CPB transducers zeroed correctly?	Y or N	
<u>High line pressure @ aortic x-clamping:</u>		
Clamp placed across cannula?	Y or N	
<u>High line pressure during CPB:</u>		
Line kinked	Y or N	
Surgical personnel leaning on line	Y or N	
High SVR	Y or N	
Bad arterial line	Y or N	
<u>Aortic Dissection:</u>		
Stop CPB	Y or N	
Clamp arterial and venous lines	Y or N	
Confirm diagnosis -Visual or TEE	Y or N	
R/O kinked or obstructed line	Y or N	
Remove arterial cannula to alternate site	Y or N	
Resume CPB, cool to DHCA, repair	Y or N	

