Preparation for Bypass: Pre-bypass Checklist	Checklist on Bypass	Preparation for Separation-from-Bypass Checklist
1. Anticoagulation a. Heparin administered – 300 IU/kg(check cardiac calculator) ☐ b. Desired level of anticoagulation achieved –ACT >480 sec ☐ 2. Arterial cannulation ☐ a. Absence of bubbles in arterial line b. Evidence of dissection or malposition? 3. Venous cannulation ☐ 4. Are all monitoring/access catheters functional? ☐ 5. Transesophageal echocardiograph (if used) ☐ a. In "freeze" mode b. Scope in neutral/unlocked position 6. Supplemental medications a. Neuromuscular blockers ☐ b. Anesthetics, analgesics, amnestics ☐ 7. Inspection of head and neck ☐ a. Color b. Symmetry c. Venous drainage d. Pupils	1. Assess arterial inflow a. Is arterial perfusate oxygenated? ☐ b. Is direction of arterial inflow appropriate? ☐ c. Evidence of arterial dissection? ☐ i)Patient's arterial pressure persistently low ? ii)Inflow line pressure high? iii)Pump/oxygenator reservoir level falling? iv)Unilateral facial swelling, discoloration? 2. Assess venous outflow ☐ a. Is blood draining to the pump/oxygenator's venous reservoir? b. Evidence of SVC obstruction? 3. Is bypass complete? ☐ a. Arterial and PA pressure nonpulsatile? b. Desired pump flow established? 4. Discontinue drug and fluid administration. ☐ 5. Discontinue ventilation and inhalation drugs to patient's lungs; confirm perfusionist started sevoflurane at >1% ☐ 6. If TCA turn off bair hugger, warming blanket and apply ice to head. ☐ 7. Consider GTN/phentolamine for cooling rewarming. ☐ 8. Turn on warming devices only after temperature above 30^{o} ☐	1. Air clearance manoeuvres completed; can use TEE to confirm ☐ 2. ROTEM while rewarming. ☐ 3. Send for blood products while rewarming – PCT, FFP ,platelets ☐ 4. Rewarming completed ☐ a. Nasopharyngeal temperature 36-37°C b. Rectal/bladder temperature ≥ 35°C, but ≤ 37°C 5. Address issue of adequacy of anesthesia and muscle relaxation ☐ 6. Obtain stable cardiac rate and rhythm (use pacing if necessary) ☐ 7. Pump flow and systemic arterial pressure ☐ a. Pump flow to maintain mixed venous saturation ≥ 70% b. Systemic pressure restored to normothermic levels 8. Metabolic parameters – check ABG from perfusionist ☐ a. Arterial pH, PO_2, PCO_2 within normal limits b. Hct: >25% c. K+: 4.0-5.0 meq/L 9. Are all monitoring/access catheters functional/zeroed? ☐ a. Transducers re-zeroed b. TEE (if used) out of freeze mode 10. Respiratory management ☐ a. Atelectasis cleared/lungs reexpanded b. Residual fluid in thoracic cavities drained c. Ventilation reinstituted & start sevoflurane 11. Inotropes/vasopressors/vasodilators started ☐ 12. Blood products in OT before coming off bypass ☐ 11. Protamine -3mg/kg(check cardiac calculator) ☐