Explain basic cardiac surgery care for perioperative nurses

1.0 Identify Cardiac surgical anatomy
1.1 Identify structures of the heart
1.2 Identify Cardiac arteries & veins
1.3 Identify vessels harvested for bypass grafting

2.0 Identify common cardiac surgical procedures
2.1 Describe Coronary Artery Bypass Grafting (CABG)
2.1.1 Explain pathophysiology of coronary artery
2.1.2 Describe coronary artery bypass techniques
2.2 Describe ventricle aneurysm repair
2.2.1 Explain pathophysiology of a ventricular aneurysm
2.2.2 Describe ventricular aneurysm repair techniques
2.3 Describe Aortic valve repair
2.3.1 Explain the pathophysiology of aortic valve disease
2.3.2 Describe aortic valve repair techniques
2.4 Describe mitral valve & tricuspid valve repair
2.4.1 Explain the pathophysiology or MVR&TVR
2.4.2 Describe mitral valve & tricuspid valve repair/replacement techniques
2.5 Describe aortic root repair/replacement
2.5.1 Explain the pathophysiology of aortic root disease
2.5.2 Describe aortic root repair/replacement techniques

3.0 Identify cardiac surgical instruments
3.1 Identify general purpose instruments
3.1.1 Memorize forceps
3.1.2 Memorize cutting instruments
3.1.3 Memorize retractors
3.2 Identify cardiac microsurgery instruments
3.2.1 Memorize microsurgery forceps
3.2.2 Memorize microsurgery cutting instruments
3.3 Identify vascular clamps
3.3.1 Memorize large clamps
3.3.2 Memorize small or fine clamps

4.0 Describe basic cardiac surgery monitoring for cardiopulmonary bypass
4.1 Identify invasive monitors
4.1.1 Define arterial pressure line
4.1.2 Define central venous pressure line
4.1.3 Describe arterial blood gas monitoring
4.2 Outline the principles of cardiopulmonary bypass (CPB)
4.2.1 Outline the establishment of CPB
4.2.2 Describe a cardiopulmonary bypass circuit

5.0 Summarize intraoperative communication principles
5.1 Paraphrase Situation Background Assessment Recommendation (SBAR)
5.2 Paraphrase assertive communication techniques
5.3 Discuss the effect of power structures in the cardiac surgery setting

Apply nursing care principles
Apply perioperative nursing skills
Apply Advanced Cardiac Life Support skills to simulated scenarios