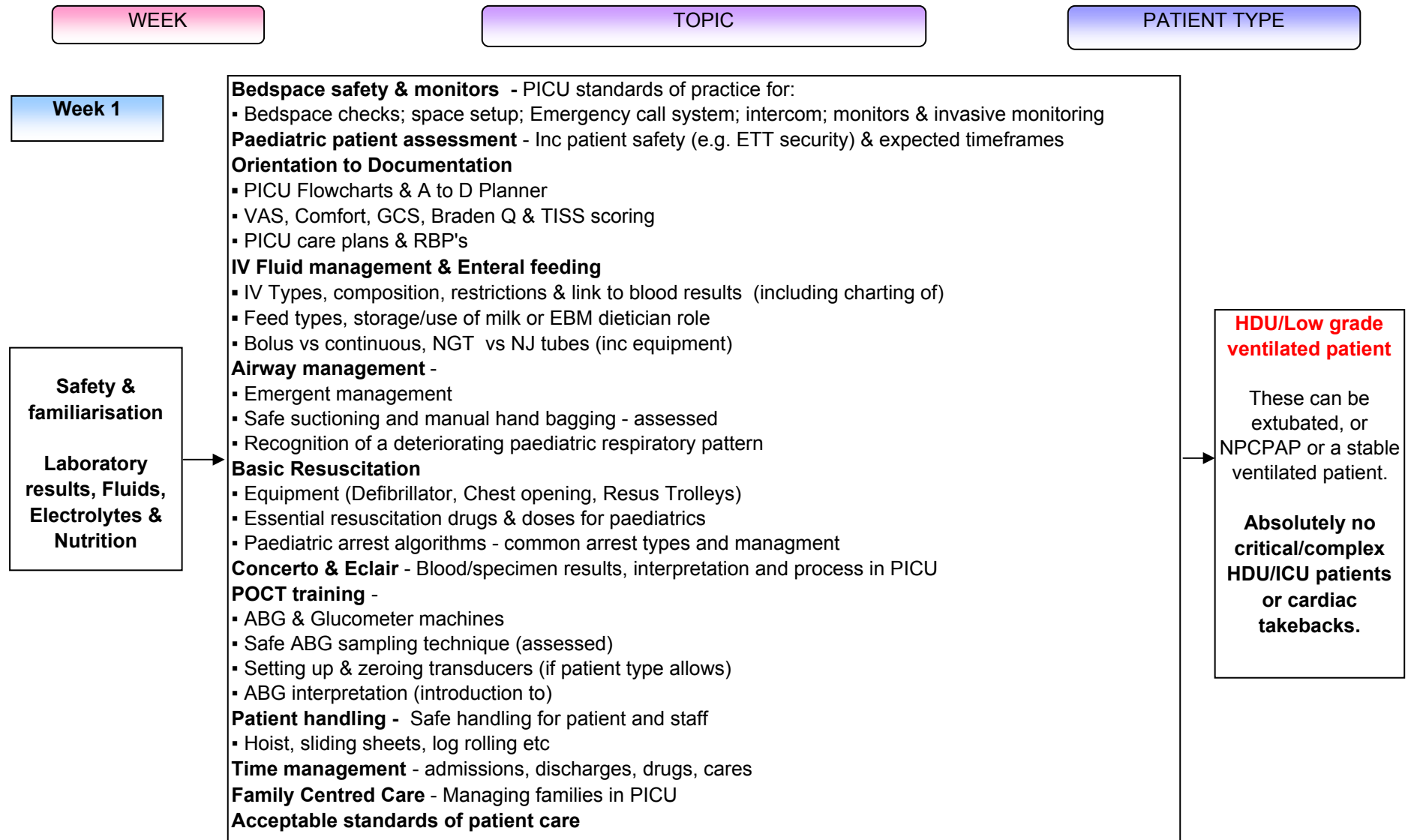


PICU 8 Week New to Speciality and Service Orientation Flowchart



Safety & familiarisation

Laboratory results, Fluids, Electrolytes & Nutrition

WEEK

TOPIC

PATIENT TYPE

Week 2

Respiratory system
Mechanical ventilation

Respiratory assessment -

- Basic CXR interpretation (ETT & NGT placement)
- Auscultation
- Work of breathing

Safe suctioning - Assessment of patient needs & technique (assessed)

Manual bagging techniques - T-piece and Laerdal bags (assessed)

An overview of common paediatric conditions in PICU -

- Bronchiolitis ▪ Adenovirus ▪ Influenza
- Asthma ▪ BPD ▪ Pneumonia

O2 therapy & nebulisers

Recogniton of a deteriorating respiratory pattern

Principles of non-invasive ventilation

- Bubble CPAP
- NPCAP
- BIPAP

Intubation & Extubation -

- RBP overview
- Drugs (Rapid sequence induction)
- ETT taping (oral vs nasal)
- ETT positioning

Principles of invasive ventilation - All Modes of ventilation (introduction)

Tracheostomy management

Ventilation workbook - (for when you are ready!)

ABG interpretation (this can be covered over and over again)

Scenarios - Blocked ETT, accidental extubation, emergent intubation

Low grade ventilated patient

Simple ventilated patient, or
bubble/NPCAP patient.

Ideally not cardiac but a
patient with a
respiratory/general condition.

WEEK

TOPIC

PATIENT TYPE

Week 3

Ventilation
Cardiovascular system

Ventilation modes - continued learning
ECG's -

- Normal conduction
- Common arrhythmias
- Safe recognition of abnormal ECG's
- Treatment of arrhythmias

Invasive Haemodynamic monitoring -

- Safety, waveforms (basic), & parameters.
- Setting up transducers

Thermoregulation (e.g. Toe-core gap)
Introduction to common PICU Inotropes & vasodilators

Low Grade Ventilated patient

Simple ventilated patient.
Ideally not cardiac but a patient with a respiratory/general condition.

Week 4

Congenital Cardiac patients

Cardiac patient assessment - Assessment skills
Foetal circulation - an overview
Embryology - an overview
Common congenital defects (start simply!!)
Introduction to common PICU Inotropes & vasodilators
Managing congenital heart patients

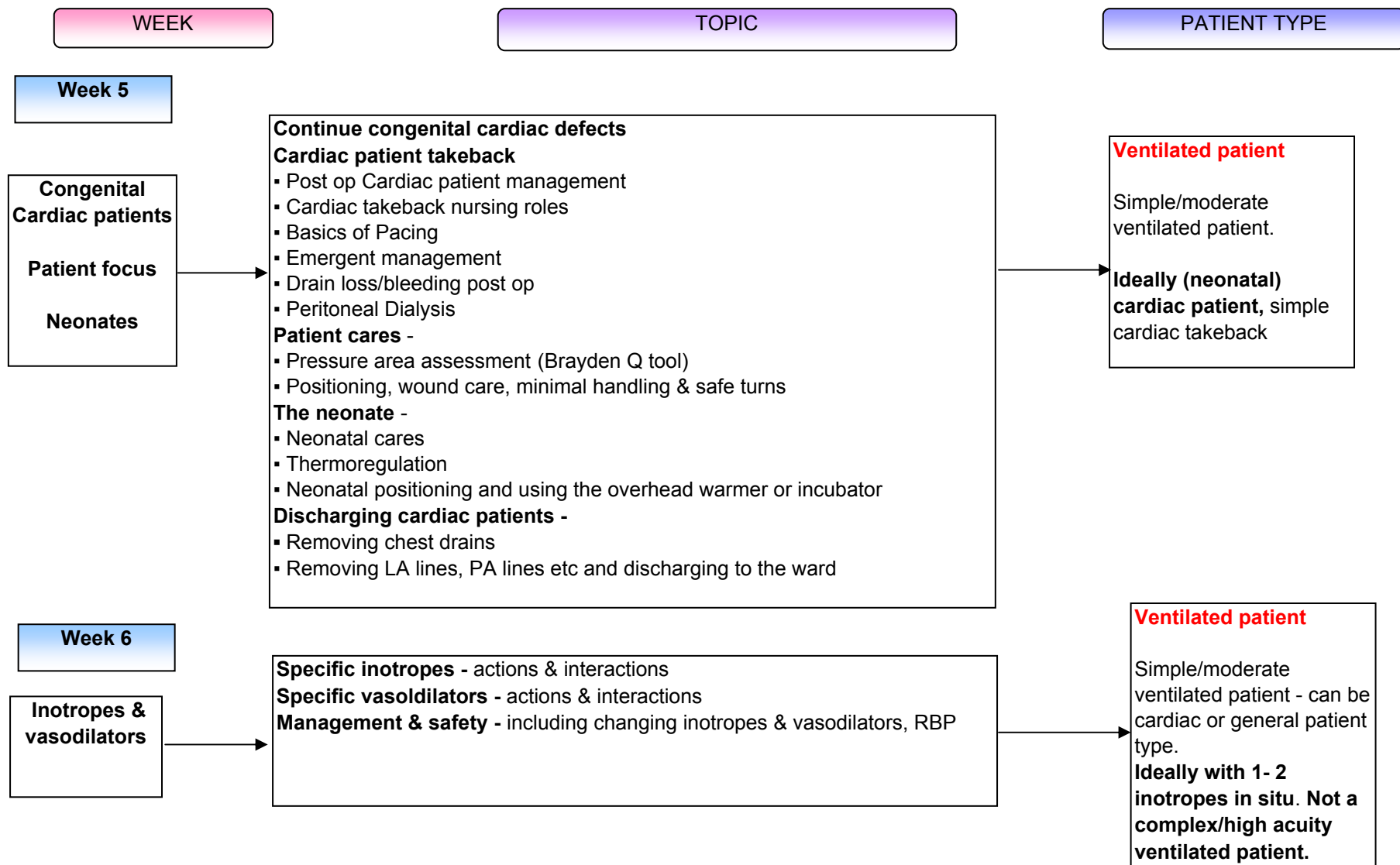
- IV Fluids, restrictions & accurate fluid balance
- Drugs

Pre-op care - Bypass bloods, consent, prostin therapy
Taking a 12 lead ECG
Chest drain safety & management
Discharging cardiac patients -

- Removing chest drains
- Removing LA lines, PA lines etc and discharging to the ward

Low grade cardiac patient

Simple cardiac patient -e.g pre-op or day 1 or 2 post surgery.
Ideally no cardiac takebacks from OR (unless very simple and stable).



WEEK

TOPIC

PATIENT TYPE

Week 7

Sepsis

Common causes
Recognition of deteriorating child
Management of shock (compensated/decompensated)
SIRS & DIC basic principles

Ventilated patient
Moderate ventilated patient - can be cardiac or general patient type. Ideally with 1- 2 inotropes in situ.
Patient with Sepsis ideal but not a complex/high acuity ventilated patient on multiple inotropes.

Week 8

Consolidation week

Any issues identified by preceptor or new staff to re-cap on
This week is to help consolidate practice before coming off orientation.

Ventilated patient
Simple/moderate ventilated patient.
Not a complex/high acuity ventilated patient.
Patient management should be done solely by New staff, in preparation for coming off orientation the following week. Preceptors should have minimal input/supportive role only.

Some Suggestions for other topics...

Spinal Injury - log rolling

Spinal orthopaedic patient

Renal Failure

EVD's - safety and management

Common neurological conditions - Myasthenia Gravis, ADEM

The importance of fluid restrictions

Care of the dying child

NAI's - A brief overview - CYFS & flow chart

Patient transfers - CT Scanning/transfers