ANAESTHETICS SCENARIOS GUIDE

BACKGROUND

This scenario library has been created with funding and support of the NHS Health Education Thames Valley (HETV), which supports a number of Simulation Fellowship projects every year. This project led to the design and creation of this training resource, consisting of 34 simulation scenarios that have been mapped to the 2010 RCOA Anaesthetic curriculum. All the scenarios are designed to a standard generic template, including a graphical display of the scenario events. This graphical display includes colour-coded pathways allowing for difficulty to be adjusted to suit the participant.

The organisation of the scenarios is modular, based on the structure of the anaesthetic curriculum. Most scenarios are aimed at basic level trainees in their first 2 years of anaesthetic training (Core Trainees, and ACCS trainees) with the expectation of a more experienced trainee joining the scenario as their in-scenario help. The different difficulty options allow trainees of different ability and experience to be challenged. Many of the critical incident scenarios could also be used for training different specialties or more junior trainees, such as Acute Medicine, Foundation doctors and medical students with minimal modification.

The scenarios require demonstration of core anaesthetic technical skills, but will also allow participants to display leadership and non-technical skills, and can be utilised for training more senior trainees, or in future revalidation training for consultants. In addition, with some modification, many of the scenarios could be used for team-based training for multi-professional learning.

Each scenario is comprised of background material, sufficient information for faculty to prepare for and conduct the scenario, and a resource section for the participants. All the references in each scenario are freely available, and an electronic link is provided. Any peripheral material useful for running the scenario, such as simulated anaesthetic charts, drug charts, etc would need to be provided locally.

LIST OF SCENARIO TOPICS

Airway 1: Failed Elective Intubation: Plan A-C
Airway 2: Can’t Intubate, Can’t Ventilate: Plan A-D
Airway 3: Failed Intubation During RSI: Plan A, C & D
Airway 4: Difficult Obstetric Intubation
Airway 5: Tracheostomy Emergencies
Airway 6: Displaced ETT in Prone Position

Critical Incidents 1: Arrythmias Secondary to Hyperkalaemia
Critical Incidents 2: Seizures
Critical Incidents 3: Aspiration During Anaesthesia
Critical Incidents 4: Laryngospasm
Critical Incidents 5: Status Asthmaticus
Critical Incidents 6: Malignant Hyperthermia
Critical Incidents 7: Major Haemorrhage
Critical Incidents 8: Blood Transfusion Reaction
Critical Incidents 9: Total/High Spinal Block
Intensive Care 1: Tracheostomy Emergencies
Intensive Care 2: Isolated Head Injury
Intensive Care 3: Adult Polytrauma
Intensive Care 4: Adult Burns
Intensive Care 5: Pneumonia and Septic Shock

Novice 1: Induction of Anaesthesia (LMA)
Novice 2: Induction of Anaesthesia (ETT)
Novice 3: Rapid Sequence Induction (RSI)
Novice 4: Failed Intubation during RSI: Plan A, C & D

Obstetrics 1: Antepartum Haemorrhage
Obstetrics 2: Difficult Obstetric Intubation
Obstetrics 3: Postpartum Haemorrhage
Obstetrics 4: Total Spinal During Caesarean Section
Obstetrics 5: Collapse in the Parturient (AFE)

Patient Safety 1: Oxygen Failure
Patient Safety 2: Blocked Anaesthetic Circuit
Patient Safety 3: Drug Error: Metaraminol Bolus
Patient Safety 4: Fall from Operating Table
Patient Safety 5: Drug Error: Ephedrine Bolus

NB. Patient Safety:

While the anaesthetic curriculum is a relatively fixed document, the issue of patient safety is an ever-present, ever-expanding concern. These scenarios contain an additional module for scenarios based around patient safety issues that have been highlighted as Department of Health ‘Never Events’, NPSA alerts or Serious Untoward Incidents and other critical incidents.

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Project Lead: Prad Shanmugasundaram
Anaesthetic Registrar (Oxford Deanery)
Royal Berkshire Hospital
Director of Simulation and Health Quality

Project Supervisor: Debbie Rosenorn-Lanng
Improvement, Consultant Anaesthetist
Royal Berkshire Hospital
Anaesthetic Registrar (Oxford Deanery)
Wexham Park Hospital

Contributor: Lizanne O’Donohoe
Anaesthetic Registrar (Oxford Deanery)
Wexham Park Hospital

Contributor: Sarah Kwok
Consultant Anaesthetist (Obstetric Anaesthetic Lead)
Royal Berkshire Hospital

Contributor: Guy Jackson
Director of Simulation, Consultant Anaesthetist
Stoke Mandeville Hospital
Consultant Intensivist and Anaesthetist
Royal Berkshire Hospital

Contributor: Stephen Snyders
Consultant Intensivist and Anaesthetist
Royal Berkshire Hospital

Contributor: Ian Rechner
Consultant Intensivist and Anaesthetist
Royal Berkshire Hospital

Contributor: Tim Parke
Consultant Intensivist and Anaesthetist
Royal Berkshire Hospital

NHS South of England Simulation Fellow 2012
Anaesthetic Registrar (Oxford Deanery)
Royal Berkshire Hospital
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