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| Name: | Frances Quinn | Observation at start | CRT: | 2s | |
| D.O.B.: | 07/12 (66Y) | RR: | Vent | Temp: | 36.5 |
| Address: | (Insert local address) | Chest: | Acc to cause | BM: | 6.2 |
| | | Sats: | 93% | Weight: | 80Kg |
| Hospital ID: | 446 278 3345 | Heart Rate: | 75 | Allergy | NKDA |
| Ward: | General surgery | BP: | 119/62 | | |
| Background to scenario | | Specific set up | | | |
| A 66 year old patient is undergoing a laparoscopic cholecystectomy. He is under GA following an uneventful induction. The abdomen has just been insufflated, the high pressure alarm has just gone off. A number of causes could be simulated, pick one for your session. | | Mannequin – on theatre table Intubated, ventilated Cannulated with IV fluids running Draped for surgery, surgeons just insufflated abdomen Surgical trays and stacks Anaesthetic chart, used drugs Capnogram traces corresponding to causes | | | |
| Or the patient has just been extubated - laryngospasm | | | | | |
| Required embedded faculty/actors | | Required participants | | | |
| ODP Surgical team/theatre team | | Anaesthetist ODP/Surgical and theatre teams can also be participants in MDT sim | | | |
| Past Medical History | | | | | |
| HTN, otherwise fit and active Recent admission for cholecystitis, which has now settled and returned for cholecystectomy No airway concerns, No reflux, fasted | | | | | |
| Drugs Home | | | Drugs Hospital | | |
| Amlodipine | | | Anaesthetic induction drugs – fentanyl, propofol, rocuronium (20 mins ago) Antibiotics (local protocol) 5 minutes ago | | |
| Brief to participants | | | | | |
| You have just anaesthetised F Quinn for a laparoscopic cholecystectomy. Induction of GA was uneventful (with fentanyl 100mcg, propofol 200mg, rocuronium 40mg – 20 minutes ago) Size 8.0 ETT is in situ, grade IIa intubation The surgery has just begun, please start documenting Surgeons ask theatre staff to switch on gas, ask anaesthetist for reverse Trendelenburg position OR – you have just extubated the same patient, and the surgeon has commenced the sign out | | | | | |
| Scenario Direction | | | | | |
| If Intra-op incident | | | | | |
| A | Details to give participants High airway pressure alarms sound, pressure feels high on hand ventilation 1. Coughing/inadequate paralysis (accompanying tachycardia and hypertension) 2. Kinked tube (under drapes/at teeth -> not seen unless specifically checked). Capnogram shape 3. Endobronchial intubation -> absent breath sounds on left on auscultation, Discussion on how to pull ETT back 4. Blocked ETT -> sputum plug if suction catheter used, prompt discussion on further investigation/bronchoscopy and how to conduct, equipment needed 5. Blocked filter -> when examined specifically, plastic end of cannula blocking filter 6. Bronchospasm -> capnogram shape, wheezing on auscultation, progressing to gas trapping and cardiovascular instability | | | | |
| B | Sats gradually dip if cause not isolated and treated | | | | |
| C | HR 75 BP 119/62 (apart from scenario 1) | | | | |
| DE | Anaesthetised (if volatile used MAC 1.2) | | | | |
| Rx | Declare incident, ask surgeons to pause surgery Call for help Increase gas flow, give 100% O2 and check FiO2 Visual inspection of system – both patient and machine end Switch to hand ventilation, isolate patient using ambu-bag ABCDE assessment, systematic approach, using QRH handbook | | | | |

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| If post-op incident | |
| A | 7. Laryngospasm - Patient has just been extubated after the surgery Stridulous noises |
| B | Sats keep dropping until treated |
| C | HR and BP drop if untreated |
| DE | Surgeons carrying out sign-out proforma until told otherwise |
| Rx | Declare critical incident, gain team focus on patient Call for help Follow simple manoeuvres, increase FiO2 to 100% Re-anaesthetise and re-paralyse Consideration of cause Discussion on strategy to extubate after this incident |
| Guidelines | |
| Association of Anaesthetists QRH Handbook | |
| Guidance for Patient Role | |
| Opening lines/questions/cues/key responses Anaesthetised | Relevant HPC / PMH |
| Concerns | Actions (Laryngospasm scenario – stridor) |
| Guidance for ODP role | |
| Opening lines/questions/cues/responses/Concerns | Guidance for surgical/theatre team roles Not aware of anaesthetic issue until incident is declared After this – support in their capacity (Ex by calling for help – who do you call?) |
| Actions Support and anticipate needs based on level of participants | |
| Guidance for Role e.g. ITU/Anaesthetic Senior | |
| Expectations/actions Support in person/local/distant depending on level of participant | Guidance for other role |
| Session Objectives | |
| Clinical | Managing a patient with high airway pressure during anaesthesia Managing laryngospasm after extubation |
| Non-technical skills | |
| Teamworking | Coordinating team activity in critical incident, exchanging information (declaration of critical incident, communicating with ODP or any supporting anaesthetists) |
| Task management | Planning and preparing for next steps, following guidelines, identifying and utilising resources (surgical team to call for help and perform tasks) |
| Situational awareness | Gathering information/assessing patient in systematic way, recognising cause for deterioration, anticipating next steps |
| Decision making | Balancing options and treating, continuous re-evaluation |