

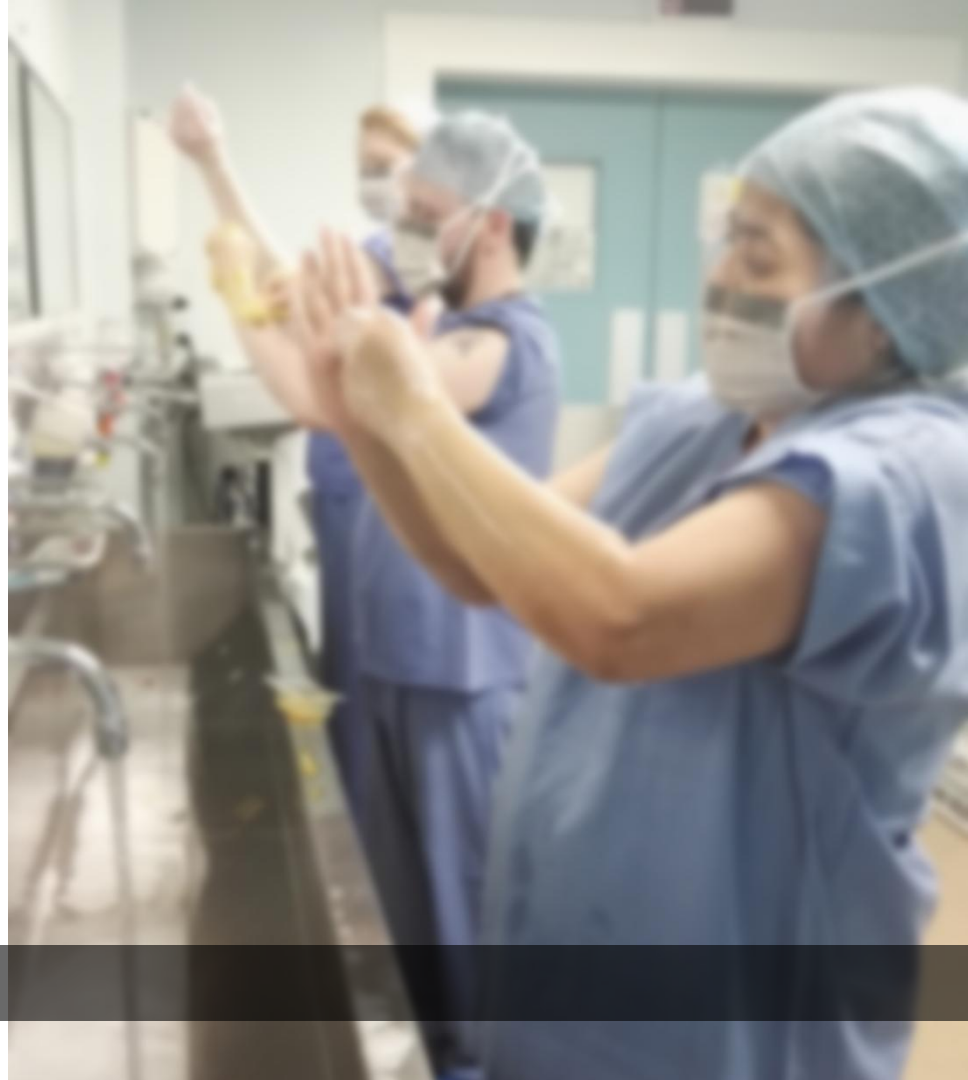
Developing a bespoke blended-learning Foundation Programme In Perioperative Nursing

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- Beaumont Hospital
Operating Department
- Newly registered nurses
- 'On the job' training
- Bespoke blended
Foundation Programme
in Perioperative Nursing





- Clinical Competence
- Focus on fundamentals
- Trained to same level
- Working to same standard

Student Centred

Appropriate
Teaching Strategies

Clinical Learning
Environment



Curriculum

Learning
outcomes

Teaching
resources

Evaluation
criteria

Intended
aims

Teaching
methods

Assessments

Constructive alignment

ePistemology: theory and practice of technology
enhanced and enabled teaching and learning

(Mahon et al 2018: p393)



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From novice to expert.

Transition shock: the initial stage of role adaptation for newly graduated registered nurses

What matters to graduates: An evaluation of a structured clinical support program for newly graduated nurses.

Evaluation of work stress, turnover intention, work experience, and satisfaction with preceptors of new graduate nurses

Are we there yet? Graduate readiness for practice, assessment and final examinations.

General Stuff

ABC

Asepsis - Sterile techniques, Sterile field

Closing - Sutures, Clips, Drains, Glues

Course Overview

Death of patient in theatre

Documentation

- Pre-op checklist, perioperative form, recovery form, safe surgery checklist, specimen forms, urinary catheterisation care bundle, MDA books and ordering forms, pharmacy requisition forms, PCA form, epidural forms, incident forms, drug chart, blood transfusion forms, time in/out

Haemostasis

- Mechanical - Pressure, Ties / clips
- Thermal - Diathermy (monopolar, bipolar, ligasure), Harmonic scalpel, Thunderbeat
- Pharmacological - Haemostatic agents (surgical, topical, blood etc.)

Inadvertent hypothermia

Infection control

- Chain of infection, Transfer of bacteria, Standard precautions / transmission based precautions, Hand hygiene, Decontamination/sterilisation, CSSD, Sharps/sharp injuries, Classification/Management of waste, Risk Groups
- Information, where to find policies, procedures, guidelines, SOPs

Latex allergy

Legal - Consent, Accountability, Scope of practice,

Lending / borrowing Instruments

Medication Management - especially MDAs

Multi-disciplinary team

- Roles
- Nursing (S nursing structure (i.e. pecking order) in hospital)
- Consultants surgeons, consultant anaesthetists, NOICs (pecking order, what titles mean), Porters, Household, Administration, Allied HCP (e.g. radiographer, rep)

Patient monitoring

- Invasive and non-invasive,
- BP, ECG, O2, ETCO2, temp, Blood glucose, Arterial line, CVP line
- "normal" parameters

Personal hygiene

Positioning - Positions, Risks / injuries, Aids

Roles of reception, anaesthetic, scrub, circulating and recovery nurses

Safe Surgery Checklist / 10 objectives for safe surgery

Safety

- general theatre safety
- patient safety
- covered in different areas under different topics
- SIOWW Act, HSA, Slips, trips and falls, Hazardous substances, Radiation, Laser, Electrical equipment, Fire, Surgical smoke => diathermy / laser plumes, Scavenging system (waste gases)

Specimens

- Collection, labelling
- Histology => Fresh / frozen / formalin
- Microbiology
- Correct storage if not gone to lab immediately

Surgical incisions - types / sites

Surgical terminology

Theatre attire

Tourniquet use

Theatre Reception

Pre-op checklist

- Identity, fasting,
- Allergies,
- Waterlow, weight
- Teeth, make-up, jewellery, metals, implants etc.
- Consent => procedure verified with patient
- Site marked
- Relevant documentation/best results
- Bloods => what needed when => especially T&S/crossmatch
- Relevant history
- Pregnancy testing
- Going back to

"Attachments" with patient (e.g. GDO)

Communication - anxiety, fear, understanding of what's happening

Anaesthetics

Preparation of anaesthetic room / daily checklist

Anaesthetic machine / checks

Types of anaesthesia

- General
- Spinal
- Regional

Patient Monitoring (covered in "General")

Airway Management

- Types of airway => ETT, LMA, Guedel, Nasal etc.
- Airway adjuncts => Bougie, McGrath, ~~gag~~, etc.
- Intubation => tray, equipment, preparation etc.
- Anaesthetic machine

Drugs / medications

- Induction agents => Inhaled, IV
- Muscle relaxants
- Reversal
- Effects / side effects

IV access - hot lines / cold lines, fluids

Arterial lines

CVP lines

Infusion pumps, syringe drivers

AGA grade

"Routine" Induction and Intubation

Rapid sequence induction, application of cricoid pressure

Blood Transfusion (NOT blood transfusion study day - that will already be done - just what happens in theatre)

Emergency situations

- Anaphylaxis
- Malignant hyperpyrexia
- Cardiac arrest / arrest trolley
- Massive blood transfusion

Pediatric Anaesthesia

Scrub / Circulating

Sending for patients, communication with patient flow

Theatre prep

- Table top, Lights, Diathermy, Suction, Documentation, Anaesthetic machine
- Specific equipment => limitations on what can be covered here

Surgical scrub

Gloving and gowning

Skin prepping and draping

Sterile set up

- Check sterility, packaging
- Opening packaging
- Counting and checking instruments
- Setting up trolley
- Covering/uncovering of trolleys
- Maintaining sterility throughout

Commonly used surgical instruments

- Names, Uses, Handling
- Correct handling

Commonly used disposables

~~gag~~ what, when, documentation

Calculating blood loss

Documentation

- Counts, Traceability, Time in / out
- "Event" timings (e.g. lithotomy, kidney out of ice, tourniquet on etc.)

Recovery / PACU

Preparation to receive care of patient

- Information needed
- Factors influencing when to accept patient
- Allocation of bay
- Preparation of Bay, equipment

ABC

Airway management (?? Breathing, ?? artificial airway present)

Alertness

Orientation

Handover

+/- ~~gag~~ of LMA

Monitoring

- TPR BP O2 sat, ECG, +/- art BP
- GCS
- Drainage => urinary catheter, drains, stomas
- Wound
- CVS / pulses

Pain assessment and management

PONV

Laryngospasm

Fluids

Documentation

Discharge ~~gag~~ TWS

Safe transfer => handover

- 26 weeks duration
- Clinical rotations
- Work with experts
- 5 study days
- Content delivery

Scaffolded programme structure



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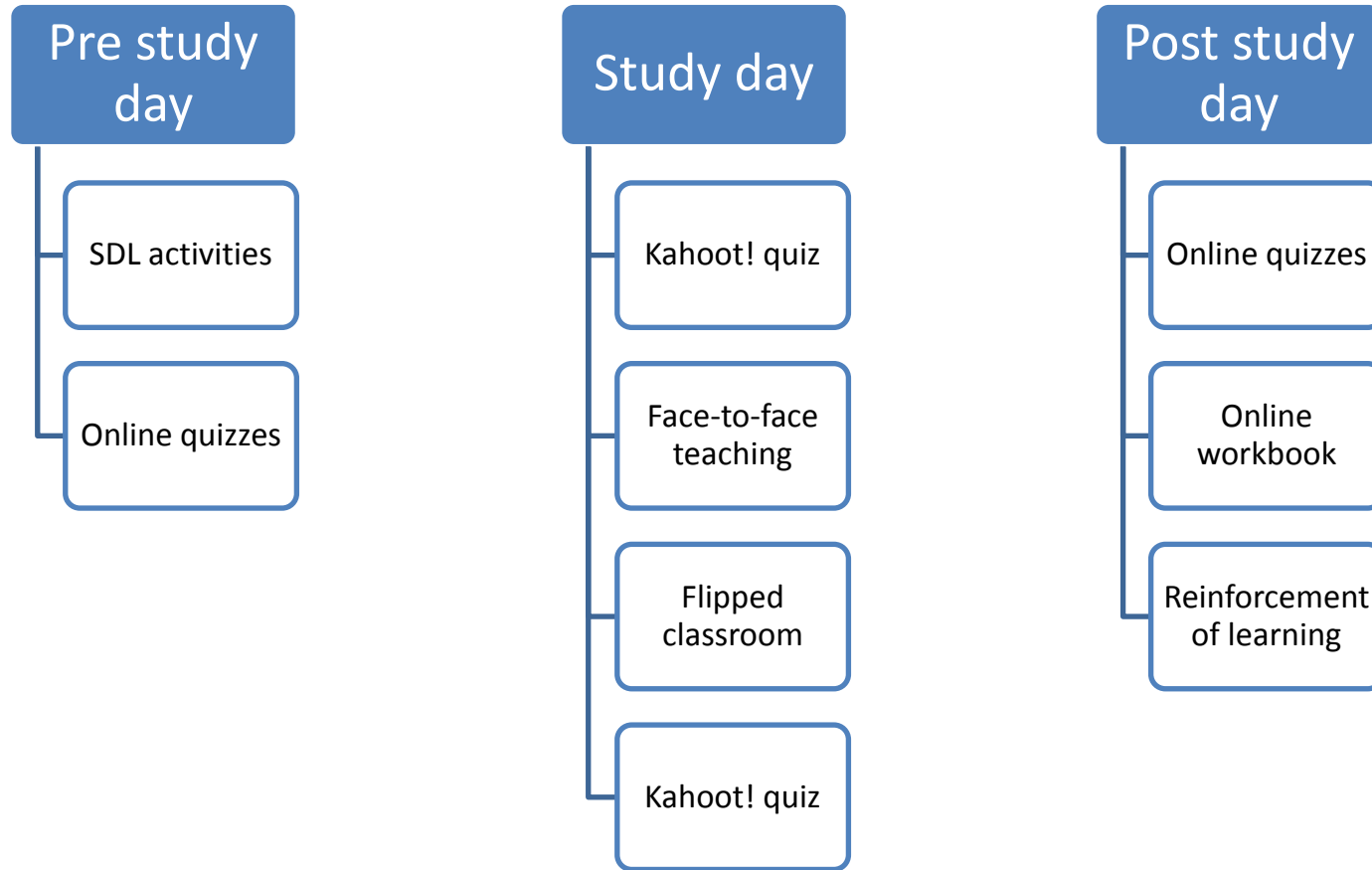
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Foundation Programme in Perioperative Nursing



AFL

Reflective exercises
Pre/post study day quiz
Meetings with preceptor,
facilitator, coordinator.

Clinical

Learning log
Personal portfolio
Clinical competency
Assessed clinical skills.

Theoretical

Online workbook
Case study
Presentation



- Multi-modal teaching and assessment strategies
 - Facilitated student engagement
 - Enhanced the student experience
 - Provided flexibility
 - Reinforced learning

#RonsealAdBreak

A man in a grey long-sleeved shirt and blue trousers is bent over, painting a wooden fence with a brush. He is holding a white bucket of Ronseal 'Fence Life' paint. The fence is made of vertical wooden slats. The background shows a brick house and some trees. The sky is overcast.

RONSEAL
DOES EXACTLY WHAT
IT SAYS ON THE TIN.

...but does our course??

Pilot programme

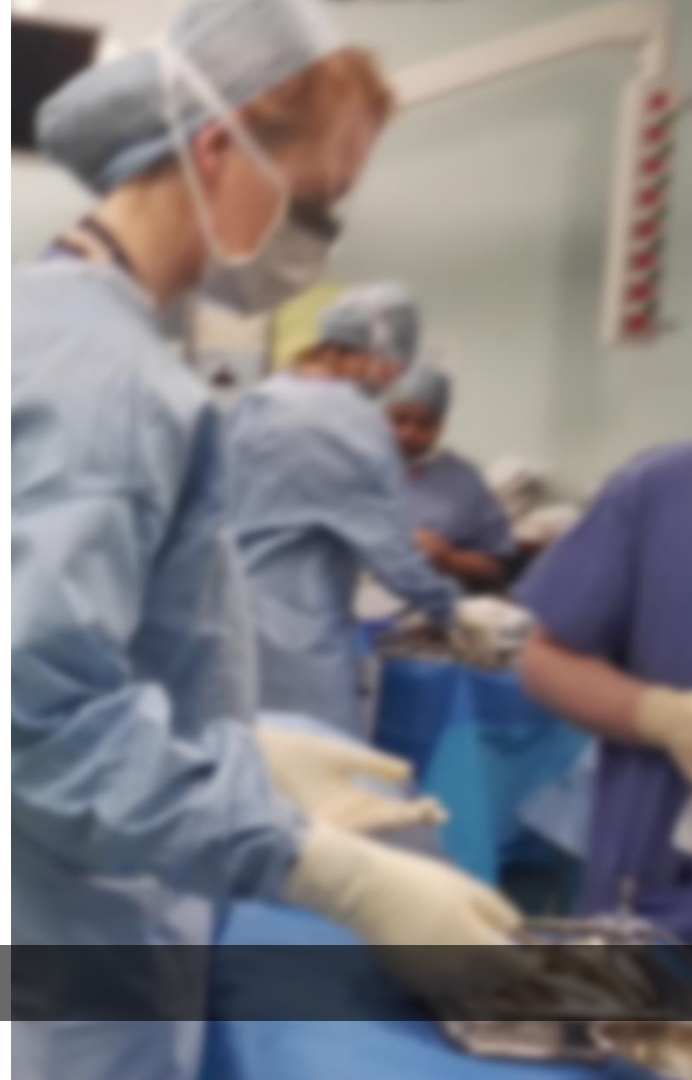
- 5 students
- Nov 2017 – April 2018

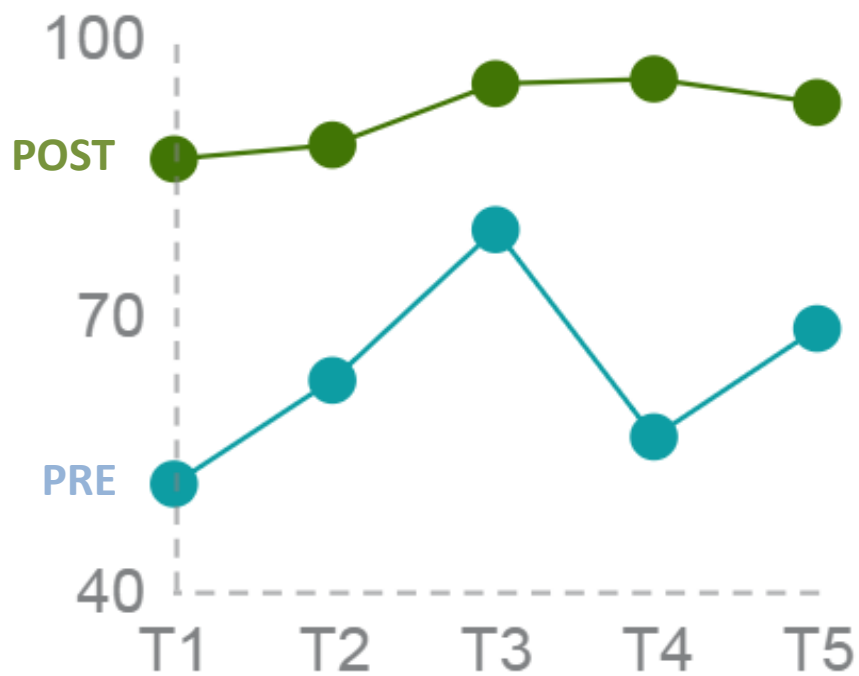
During the programme

- Pre and post study day knowledge assessments
- Study day evaluations
- Anonymous Kahoot survey on final study day

End of programme

- Students
- Theatre staff
- Programmatic peer review





	Pre	Post
SD 1	51.24%	86.64%
SD 2	62.73%	88.39%
SD 3	79.02%	94.67%
SD 4	56.47%	95.24%
SD 5	68.24%	92.67%
AVG	63.54%	91.52%

Kahoot! quiz- pre and post study day scores



	Pre	Post
SD 1	7.21	4.87
SD 2	5.65	3.44
SD 3	3.38	2.05
SD 4	6.91	2.89
SD 5	4.66	2.33
AVG	5.56	3.12

Kahoot! quiz- pre and post study day response times

- 34 topics / activities
- Students asked to rate
 - topic / activity
 - content of each topic
 - learning of each topic



- 34 topics / activities
- Students asked to rate
 - topic / activity: **very good, excellent**
 - content: **just right, too much**
 - learning: **I learnt a lot**



- 30 item anonymous Kahoot! survey
- Positively evaluated
- Strongly agree that:
 - Study days increased understanding of perioperative nursing
 - The Foundation Programme is a worthwhile course

- Online survey
 - 80 questions
 - 30 questions asked in the Kahoot! survey
 - Plus questions about
 - Clinical placements
 - Assessments
 - General running of programme
- 80% response rate

I feel more confident in my "home" area after the course

The clinical competencies reassured me in relation to my clinical practice

The clinical placements forced me to step outside my comfort zone

This is a worthwhile course



I have a better understanding of how different areas in theatre work

I have a better understanding of my role within the wider theatre team

I have a better understanding of the inter-relationship between different areas within the theatre department



If it was necessary I would feel able to help out (as a junior nurse) in areas that are not "home"

My confidence grew as I rotated through the clinical placements

The study days increased my understanding of perioperative nursing

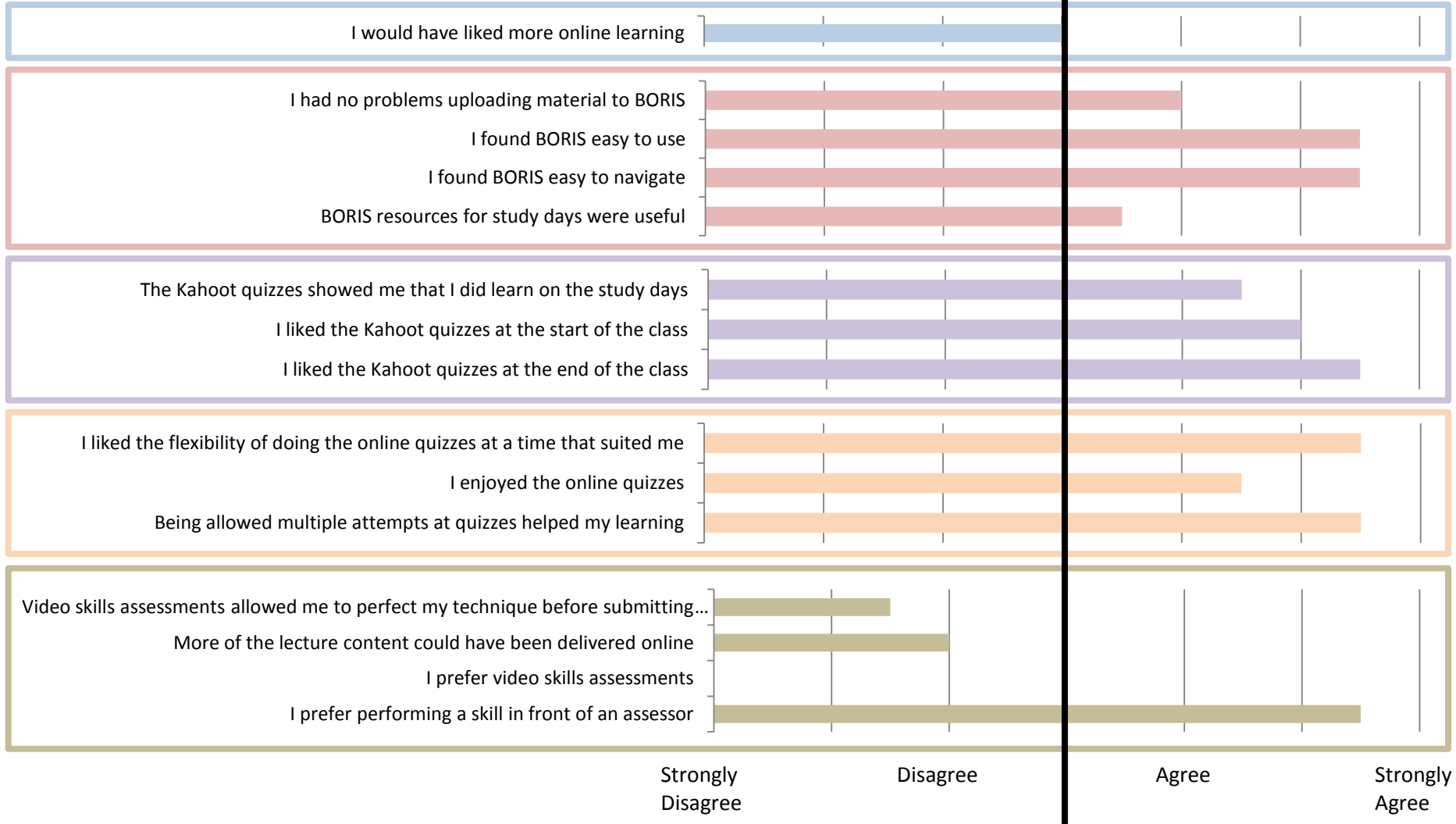


Strongly
Disagree

Disagree

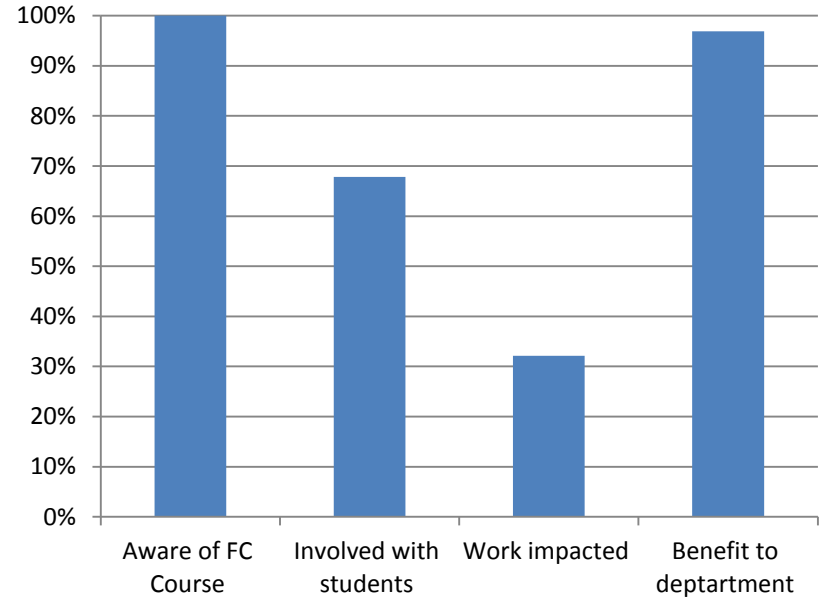
Agree

Strongly
Agree



- 2 experienced colleagues
- Reviewed course content
- Very impressed with programme
- No recommendations
- Some minor changes to individual lectures

- Anonymous survey type questionnaire
- 102 theatre staff
 - 28 responses
 - 27.45% response rate
- Free text comments for Questions 3 and 4



- Foundation Programme in Perioperative nursing
- Knowledge and skills that underpin practice
- Nurse professionalism and patient safety
- Eases the transition from student to staff nurse
- Format and structure easily replicated for many disciplines in many settings







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