

C25 A new curriculum for the next generation



Director CME

3-9-19



Before we get on to anything else

- Thank U
- UU



No 'overall' review since 1996

Population is changing:

Older, multimorbidity

Models of medical care are changing:

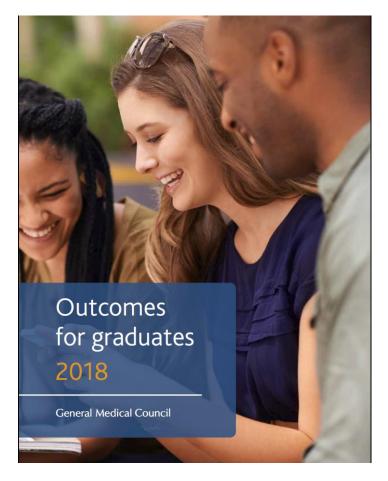
Bengoa report – Systems not Structures

Expectations of GMC are changing:

- Outcomes for Graduates 2018
- Medical Licensing Assessment 2022

Recommendation of GMC visit April 2017

Rationale





THE DIRECTION OF TRAVEL

MORE AT HOME

MORE IN PRIMARY CARE



MORE IN COMMUNITY

MORE PREVENTION



The Bengoa Report

More prevention / population health

Blurring of primary / secondary care divide

Focus on new ways of doing things, quality improvement

Need for medical leaders

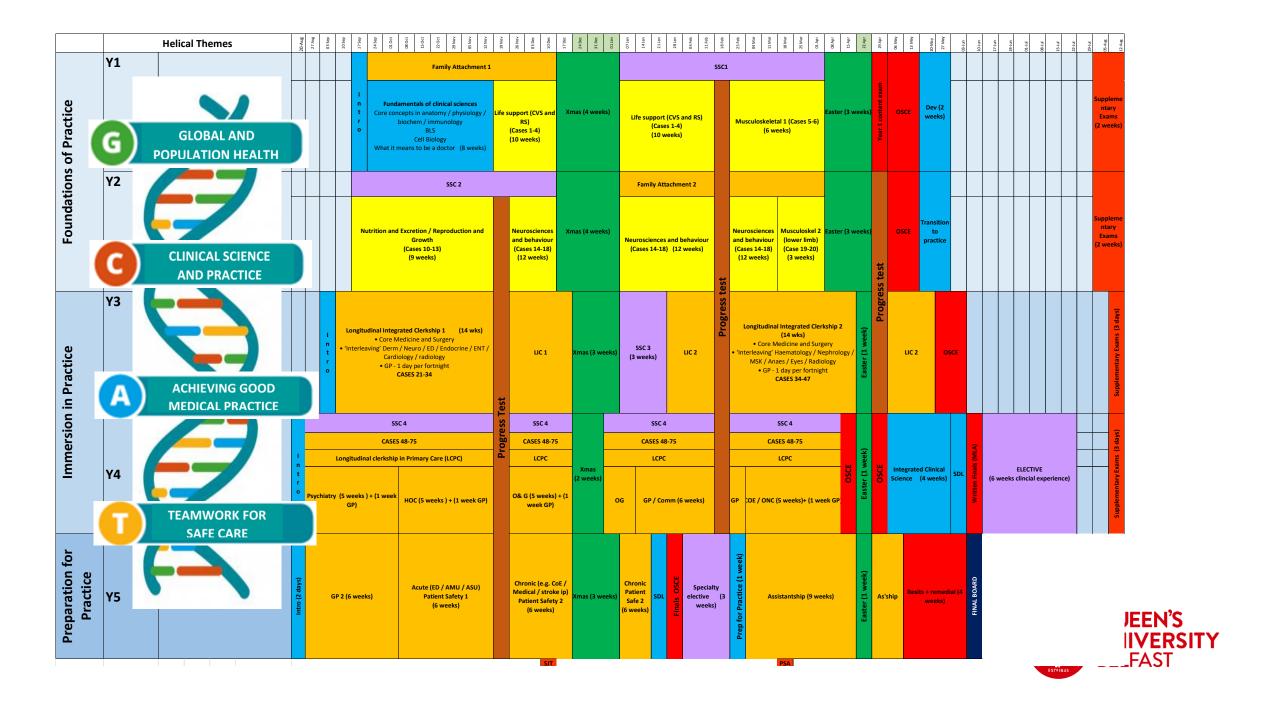


- Extensive stakeholder engagement process
- We should retain:
 - Early clinical contact
 - Cadaveric dissection
 - Final year assistantship
- Areas for improvement:
 - Integration within and between years
 - Integration of biomedical and public health science with clinical science
 - Time in primary care
 - Reduce 'silos' of learning
 - 3rd year students need a 'home'

Review process







Significant changes

- 1. Phases Foundation Y1-2 / Immersion Y3-4 / Preparation Y5
- 2. Vertical Themes GCAT
- 3. Integrated systems based teaching year 1+2
- 4. New quality improvement project year 4
- 5. Case based learning year 1-4
- 6. Longitudinal clerkships year 3 and 4
- 7. More time in general practice 25%
- 8. Assessment Progress testing





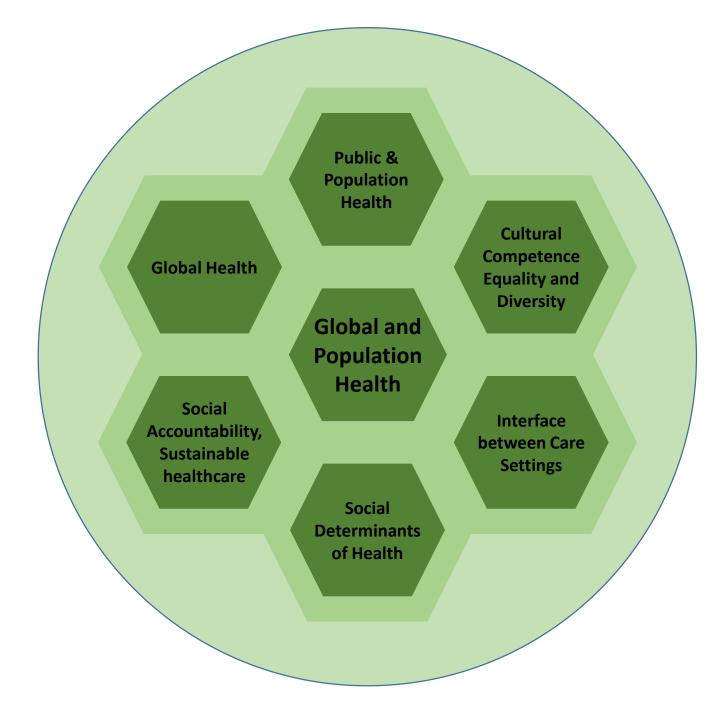
Phase	Year of Study	Focus
Foundations of Practice	1 and 2	Integrated biomedical and behavioural science teaching focusing on body systems Case-based learning
Immersion in Practice	3 and 4	Workplace learning. Longitudinal Integrated Clerkships (LIC) • year 3 centred on secondary care • year 4 centred on primary care. Case-based learning
Preparation for Practice	5	Consolidation of learning in primary care, acute care and chronic care Assistantship

Structure

of C25

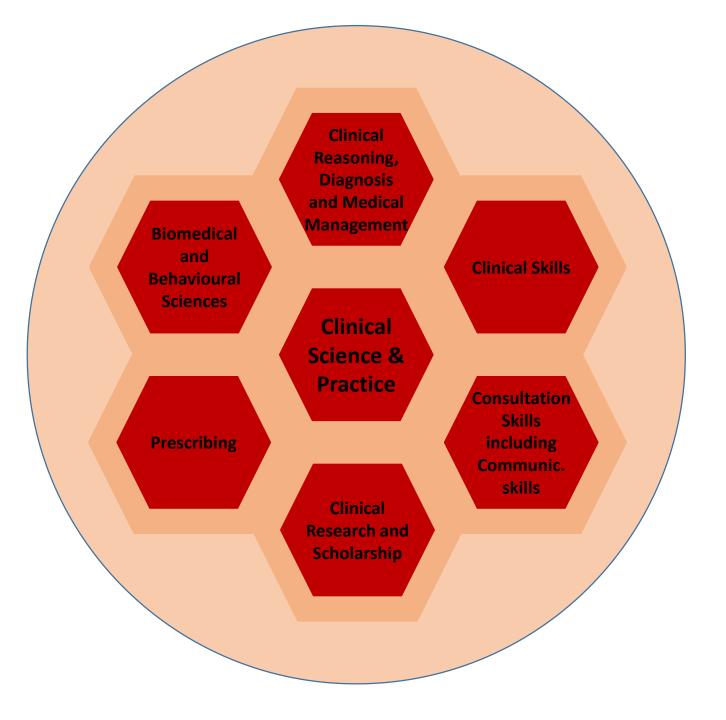






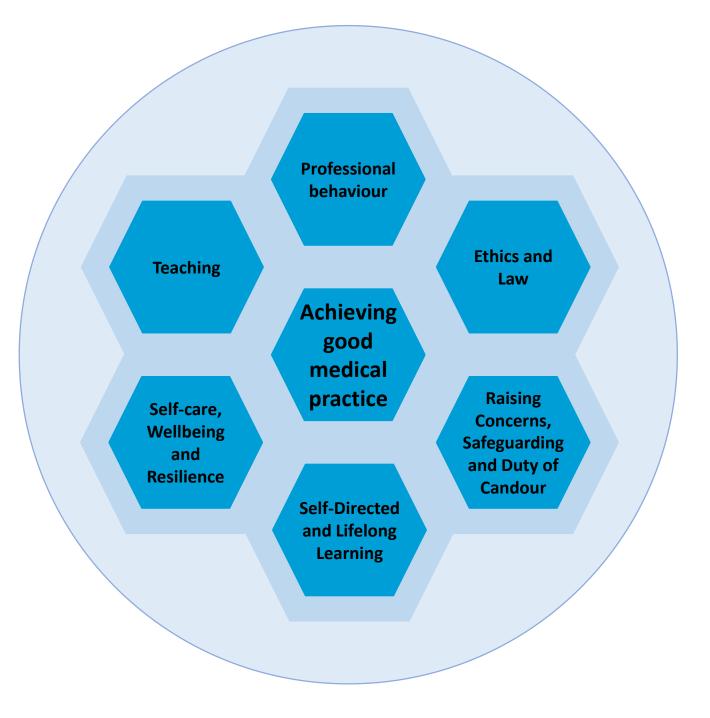


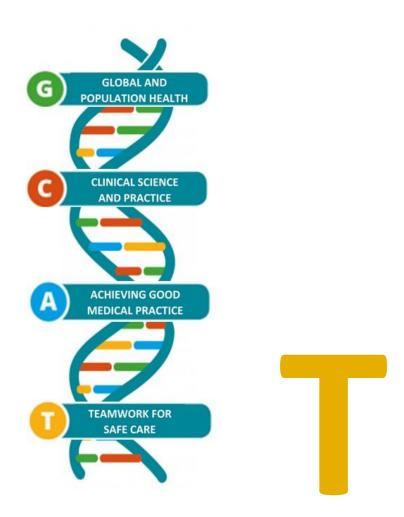














Years 1 and 2

- Integrated systems based teaching biomedical, behavioural, public health, clinical science
- Foundations module
- 5 systems modules:
 - Cardiovascular / Respiratory / Haematology
 - Musculoskeletal 1
 - Gastrointestinal / Renal / Endocrine / Reproductive
 - Neurological (includes mental health)
 - Musculoskeletal 2 (includes skin)
- Retain cadaveric dissection and early clinical contact / FAMILY ATTACHMENT
- Case-based learning



Case based learning

- Groups of 8-10
- 2 hour group learning Monday week 1, Thursday week 1, Thursday week 2
- 2 week cycle Clinical scenario trigger written / video based
- Facilitated 'guided learning' (NOT PBL)
- Students brainstorm on what they know (or not) and decide on learning tasks
- Students create shared learning resource
- Learning outcomes given to the students at first meeting
- Remainder of week: lectures / tutorials / practical work aligns with case

	М	Т	W	Т	F	М	Т	W	T	F
Year 1										
AM										



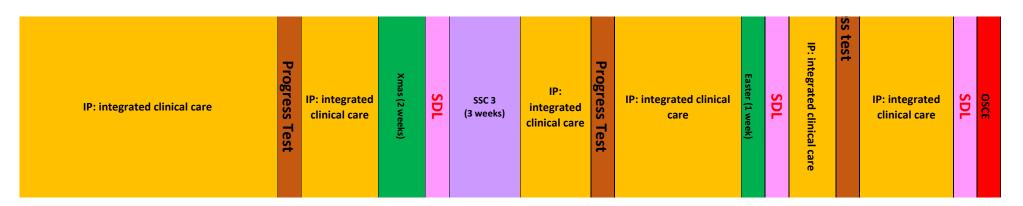
For example – year 1

- 5 year old with recurrent wheeze / non-compliance with Rx
- Learning outcomes include:
 - Histology and anatomy of lower respiratory tract / sympathetic innervation / α + β receptors / β antagonists / flow-volume loops / inflammatory process etc
 - G hygiene hypothesis / particulate pollution
 - C communication with a child
 - A raising concerns
 - T role of health visitor
- Didactic / practical teaching that week may cover some of these LOs



Year 3 – Longitudinal Integrated Clerkship in secondary care

- Integrated care module: 14 week clerkships in Belfast Trust: 14 weeks in another trust
- Medicine / surgery and subspecialties / emergency medicine
- Weekly case based learning
- 2 days per month in primary care (15 days a year)





Why longitudinal clerkships?

- Belonging students want to be part of a team
- OFG objectives: 'Understanding complexity' and 'Dealing with uncertainty'
- Existing curriculum has excessive focus on inpatient, hospital based care
- Reduce variability of student learning through cases
- 'Spaced' learning / 'interleaving' improves knowledge retention



Back to school...

School timetable

Monday	Tuesday	Wednesday	Thursday	Friday
Maths	English	Biology	Drama	Chemistry
French	Maths	Physics	PE	English
Art	Drama	Chemistry	German	Maths
Biology	IT	English	French	Physics

Block Rotations

Maths	English	Biology	Drama
(8 weeks)	(8 weeks)	(8 weeks)	(8 weeks)



For example – year 3

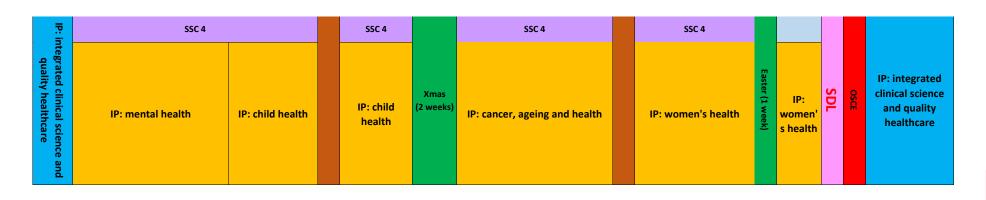
• 60 year old with COPD, pulmonary hypertension, life-limited

- Learning outcomes:
 - Respiratory symptoms and signs in COPD / pathogenesis of COPD / treatment of COPD / signs of pulmonary hypertension etc.
 - G evidence-based smoking reduction strategies
 - C lung compliance / alveolar gas exchange / flow-volume loops
 - A ethics of end-of-life care
 - T accessing home oxygen therapy



Year 4 - LIC primary care and life cycle

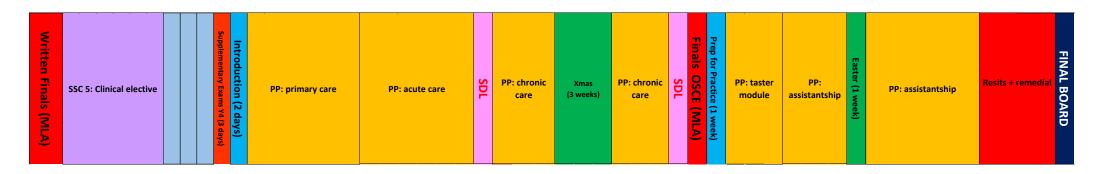
- 4 rotations x 7 weeks in Child Health / Women's health / Mental Health / Cancer Ageing and Health
- Each block co-designed and co-delivered in primary and secondary care
- 8 weeks of GP (4 x 2 weeks within each rotation)
- Integrated clinical science and quality improvement teaching:





Year 5 – preparation for practice

- Written finals at transition to year 5
- Clinical elective
- 3 clinical blocks x 6 weeks acute care / chronic care /primary care
- 3 week 'taster' placement
- 9 week assistantship (Including 1 week GP)





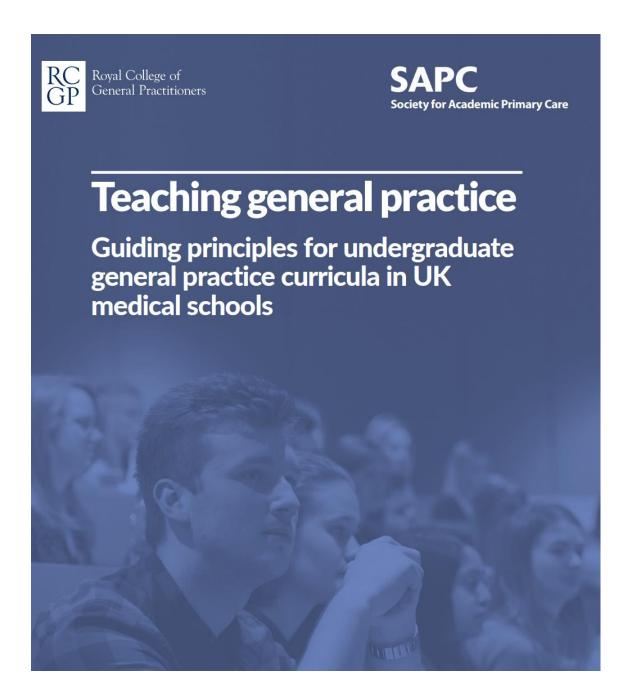
• Year long • 12 week • 12 week • 3 week block model model model Quality • Scientific or • Clinical focus **Improvement** Scientific Community project ocus focus • Primary or secondary care **Student Selected Components**

5

• Block model

Clinical

Elective



Primary Care

In every year of the curriculum

Weighted to years 4 and 5

22 weeks of primary care

(25% of core clinical placement)



Summative testing

- Individual modules in-year are pass/fail (attendance, logbook)
- Synoptic knowledge test at end of year 1
- Progress testing for years 2 4.
- OSCEs at year end are summative years 1 4
- "Finals" are also GMC Medical Licensing Assessments
- Written "Finals" at transition to year 5 (end of year 4)
- OSCE "Finals" Spring of year 5



Progress testing, outline

- Longitudinal, repeated assessments of functional knowledge
- Pitched at graduate-level applied knowledge
- Multiple times per year (2 4)
- All years sit same paper; different set-standard
- Result accumulated over the year for progression
- Progress demonstrated over years
- Many new curricula are using this system

Exeter, Plymouth, Kings, UCL, Manchester, Bristol, Cardiff, Swansea



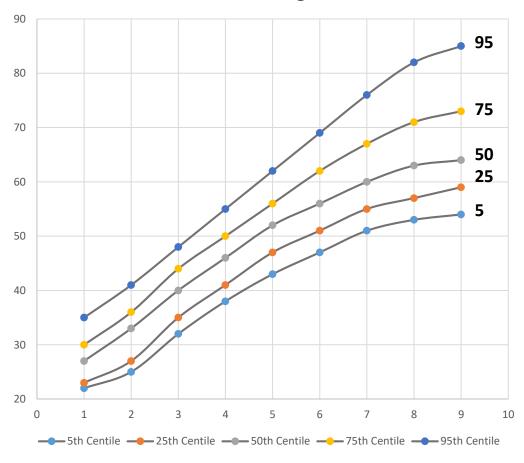
Progress testing, benefits

- Shown to reduce exam stress, makes cramming irrelevant
- Evidence it encourages deeper learning
- Integrates learning between years
- 'primes' learning for students: focuses teaching for lecturers
- Students see early years material through to finals, vice versa
- Students can see their progress over years, by test and subject
- Avoid 'Learn Assess Forget' LAF

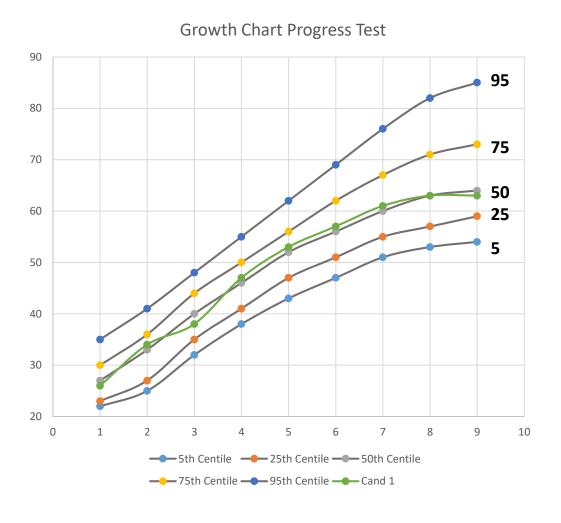
"Assessment for and of learning"



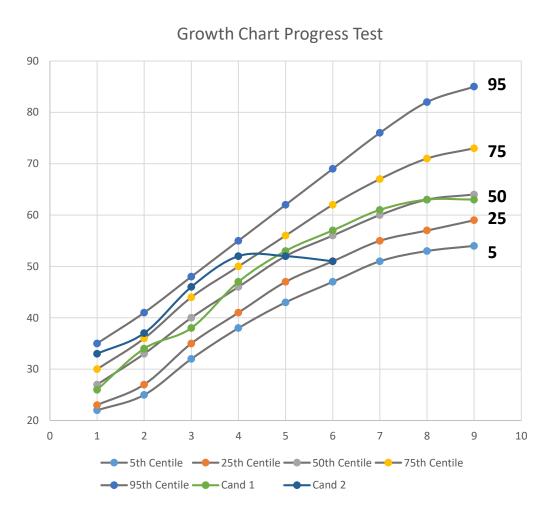




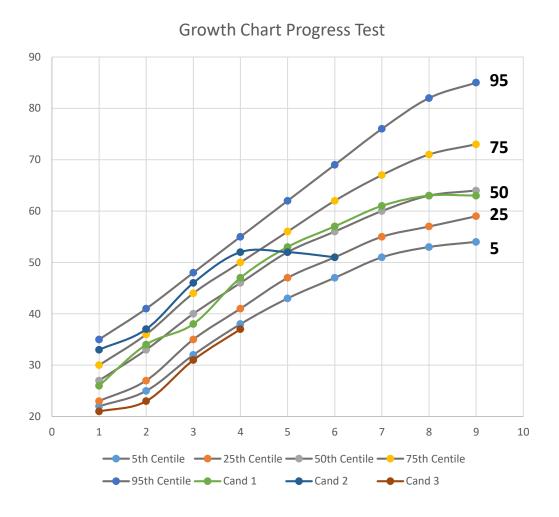






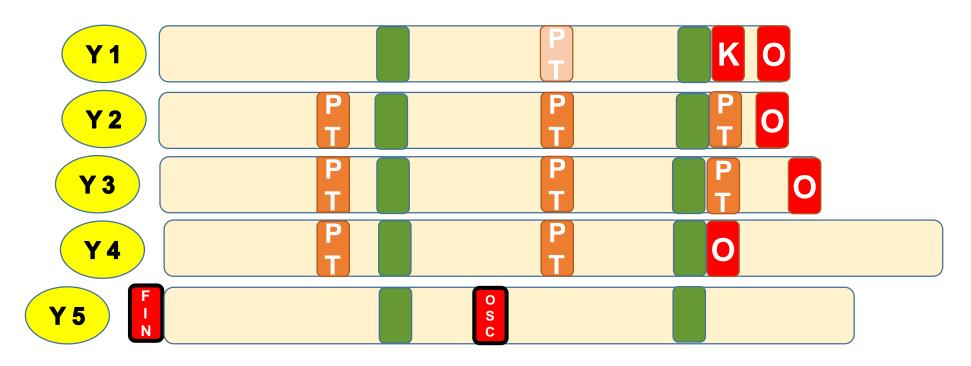








Key assessments in the new QUB curriculum



PT Progress Test – years 2-4

K Year 1 Knowledge test

O OSCE

FIN Written finals = Medical Licensing Assessment

OSC Clinical finals = Medical Licensing Assessment





We only get exposure to really busy practices where everyone is really stressed out/overworked. Every GP I've met has told me not to do general practice".

Medical Student

(Some of the) Challenges

- Capacity
- Rooms
- Transport to placements
- Progression in primary care centred learning
- GP bashing





Lots of ways to get involved

- Case writing
- Leading Case based learning in years 1-4
- Question writing for progress testing – we need lots of questions set in primary care
- QI projects and assessment
- Provide fantastic clinical placements



New curriculum – same vision



"The Queen's medical graduate is a caring and compassionate doctor who is a critical thinker, problem solver and reflective practitioner with excellent clinical skills who values, above all else, service to patients."

