



School of Medicine Keele University

**Professor Joanne Protheroe
Director of Undergraduate General Practice**



Who are we?

- Started in conjunction with Manchester University (2002)
- An independent school with a fully accredited curriculum (2012)
- A vibrant place with 650 medical students, great facilities, experienced teachers, caring community, fantastic patients (real and simulated)



A Quick Health Warning!

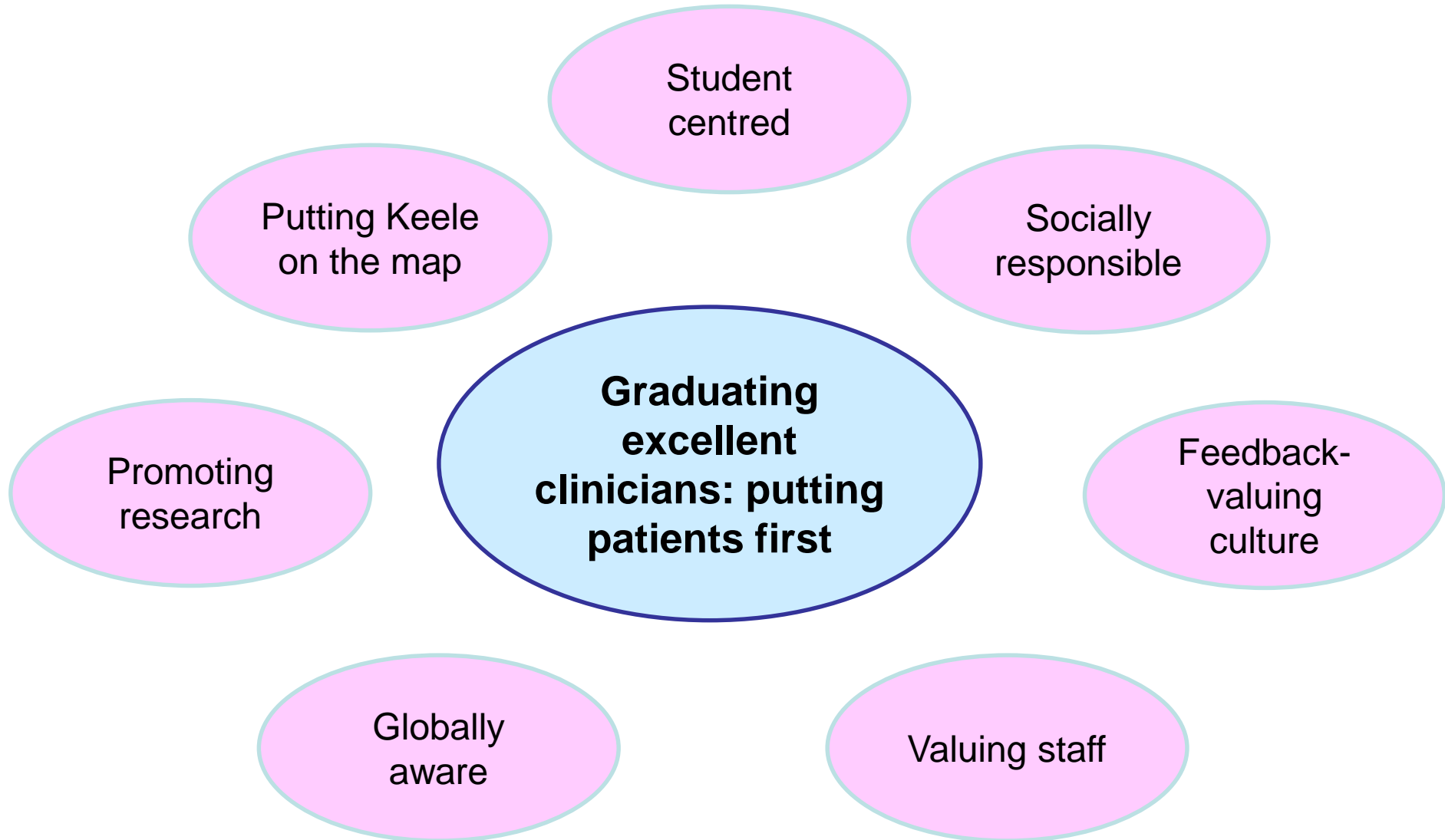
- We are refreshing and enhancing our curriculum to keep it up to date and to maintain high standards



- The General Medical Council are planning for a **Medical Licensing Assessment**
 - ? In 2021-22 – ie it will affect entrants from 2016 onwards
 - GMC outcomes being updated. We will tailor the curriculum accordingly



GRADUATING EXCELLENT CLINICIANS





The Keele Curriculum

GMC outcomes:

1. Professional values and behaviours
2. Professional skills
3. Professional knowledge



Keele
UNIVERSITY



**SCHOOL OF
MEDICINE**

GRADUATING EXCELLENT CLINICIANS





GRADUATING EXCELLENT CLINICIANS

Effective learning

**Excellent
facilities**

**Extensive
clinical
experience**

**Excellent
clinicians:
patients
first**

**Promotion of
professionalism**

**Student-centred
Learning**

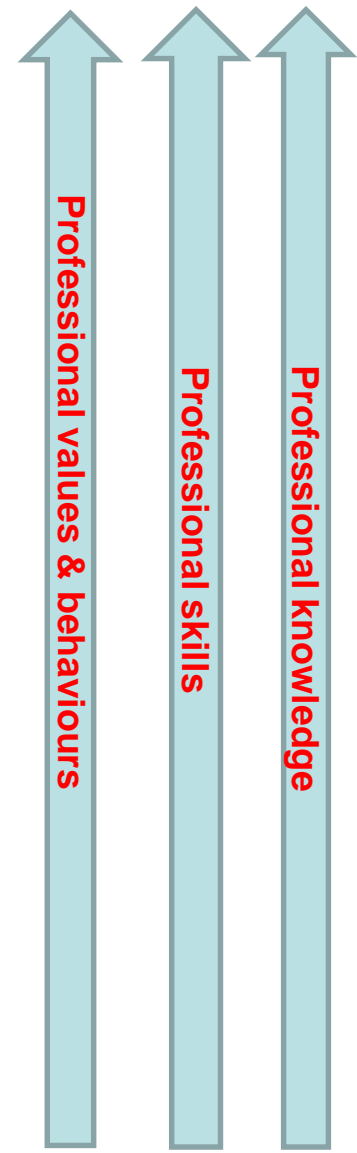
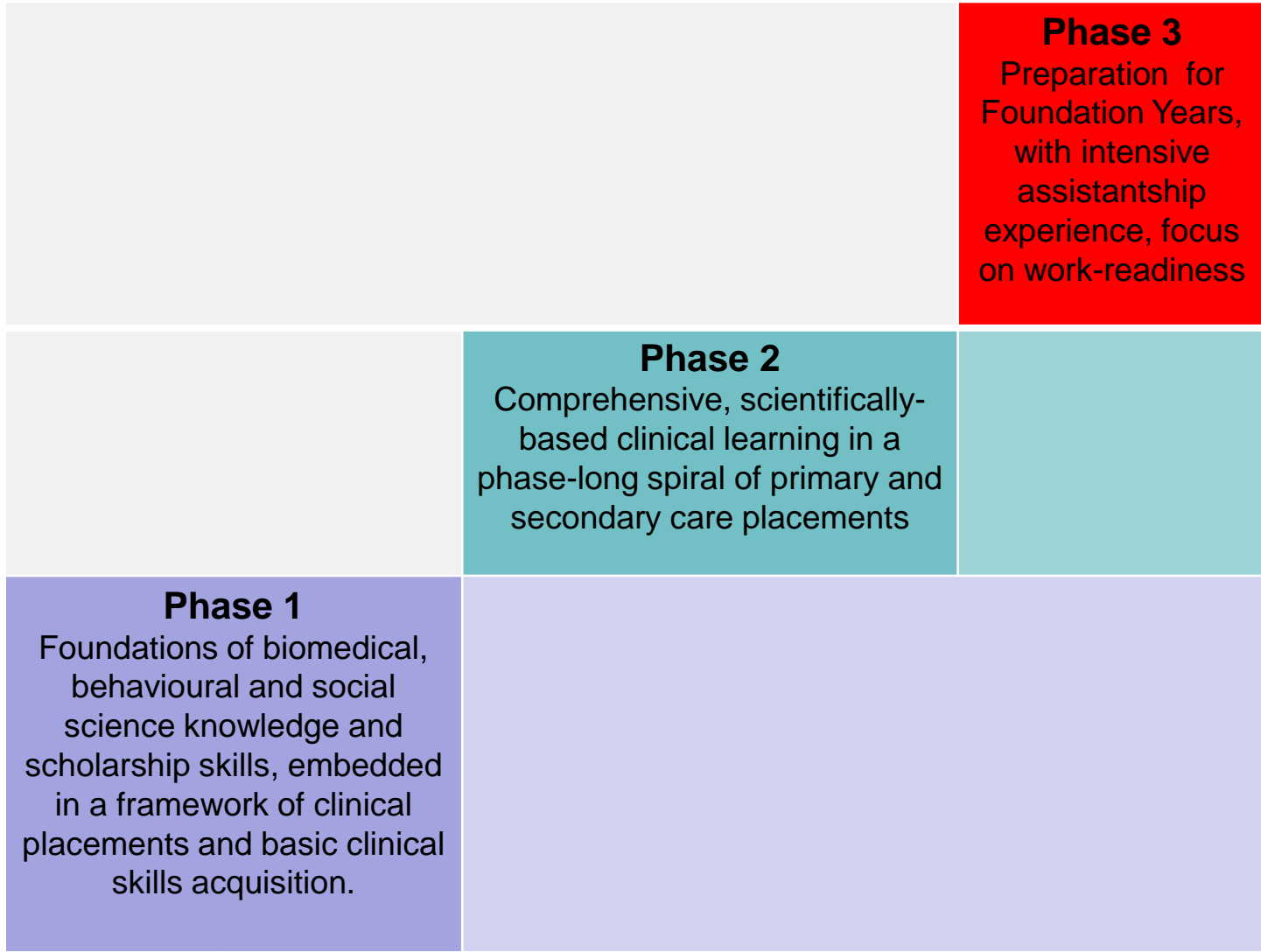


Modern Spiral Integrated Curriculum

- A variety of learning methods
- Clinical exposure throughout
- High level of integration
- Small groups
- Self-directed



GRADUATING EXCELLENT CLINICIANS



1 **2** **3** **4** **5**





Phase 1 = Years 1 and 2

- **Majority of time spent on campus**
 - Basic sciences and behavioural sciences
 - Developing communication and some other clinical skills
- **Regular time spent off campus**
 - GP and other healthcare placements
 - 3rd sector placements
 - Consultation and clinical skills into practice



Phase 1 = Years 1 and 2

- A ***blend*** of problem-based learning, lectures, practicals, related clinical experience, skills sessions and anatomy
- Learning about
 - the normal structure & function of the human body
 - relevant behavioural and social science
 - fundamentals of pathology and therapies

all in
clinical
context



An example PBL Case: A respiratory emergency

Meanwhile Ravi has been put on a trolley and has had his pulse and blood pressure checked by a junior nurse... Suddenly Ravi complains of difficulty in breathing and collapses...

A team of nurses and doctors start his resuscitation... an initial “airway, breathing, circulation” (ABC) assessment is carried out quickly. It is noted that the airway is clear, there are decreased breath sounds in the left lung, and there is a strong regular Radial pulse. Basic observations are taken and these show that the respiratory rate is 35/min, oxygen saturation 90%, pulse 90 beats per minute and blood pressure 120/75 mmHg.



A current PBL Case: A respiratory emergency

Meanwhile Ravi has been put on a trolley and has had his **pulse and blood pressure checked**

Suddenly Ravi complains of difficulty in breathing and collapses...

A team of nurses and doctors start his resuscitation...

an initial **“airway, breathing, circulation” (ABC)**

assessment is carried out quickly. It is noted that the

airway is clear, there are decreased breath sounds in the

left lung, and there is a strong regular Radial pulse. Basic

observations are taken and these show that the

respiratory rate is 35/min, oxygen saturation 90%,



Lectures that week

- Ventilation and gas exchange
- Gas transport and blood gases
- Anatomy of the chest
- Imaging of the chest
- Data handling
- Introduction to medical ethics



Other teaching that week

- Experiential learning –working in groups
- Laboratory session-vital signs-pulse and BP
- Skills session-basic life support
- Laboratory session-respiratory histology
- Anatomy of the lungs-dissection room + resource room
- Clinical Placements
- Wrap up Session



GRADUATING EXCELLENT CLINICIANS

Year 1

Orientation

Health and disease

Immunity and infection

Emergencies

Scholarship including SSC1

Life Course

Brain and mind

Pregnancy

Lifestyle

Longitudinal GP and hospital placements

Cumulative, combined, written and sequential practical assessment

Blend of learning about normal and abnormal with a "block and thread" scholarship strand

Year 2

Mechanisms of disease

Inputs and outputs

Movement and trauma

Scholarship including SSC2

Circulation

Breath of life

Integrated systems



Early clinical placements: Objectives

- “Competent reporter” by end of phase 1
- Opportunity to practise clinical skills with supervision in authentic learning environment
- Increase confidence in ability to detect and differentiate between normal and “abnormal” clinical examination findings
- Develop core attributes of professionalism through repeated exposure to patient encounters, feedback, and reflection on learning



GRADUATING EXCELLENT CLINICIANS

Year 3

Medicine 1

Medicine 2

Surgical Care 1

Mental Health 1

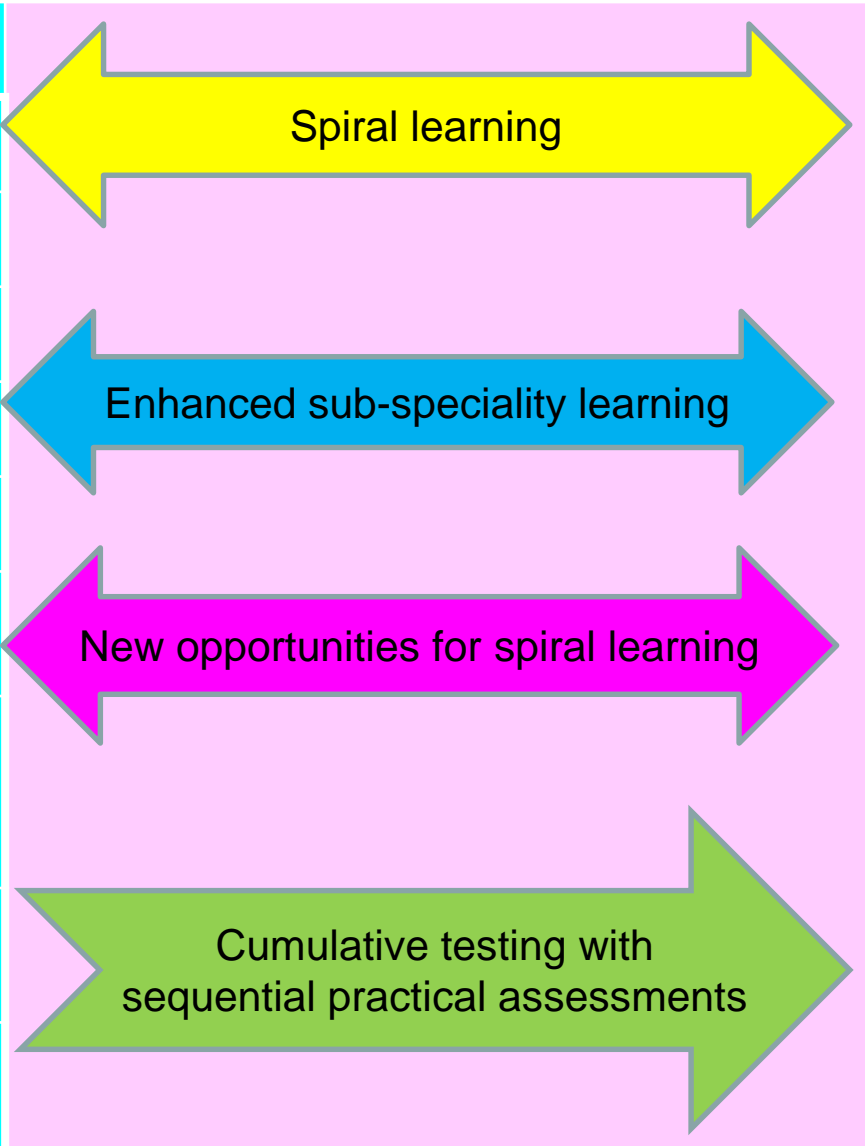
Paediatrics 1

Elderly Care

General Practice 2
(Consolidation of Clinical Skills)

Student Selected Component 3

Student Selected Component 4



Year 4

Integrated Medicine 1

Integrated Medicine 2

Surgical Care 2

Mental Health 2

Paediatrics 2

Women's Health

General Practice 3
(Developing Consultation Skills)

Student Selected component 5



Year 5

Primary Care Assistantship (10 weeks)

Secondary Care Assistantship 1 (10 weeks)

- Medicine (5)
- Acute Medical Unit (AMU) (3)
- Intensive Care Unit (ITU) & teaching week (2)

Secondary Care assistantship 2 (10 weeks)

- Surgery & Surgical Assessment Unit (SAU) (4)
- Anaesthesia (1)
- Emergency Medicine (EM) (4)
- Teaching week (1)

Elective

Preparation for Professional Practice week (PPP)

GP and hospital assistantships

PSA, SJT and final practical assessment

Focused teaching weeks on acute care



GRADUATING EXCELLENT CLINICIANS

Wealth of Clinical Opportunities



ONE TICKET ANY BUS





Course Locations - Staffordshire

- Keele University campus
- University Hospital of North Midlands
 - Royal Stoke University Hospital
 - County Hospital
- North Staffordshire Combined Healthcare NHS Trust
- South Staffordshire and Shropshire Healthcare NHS Foundation Trust
- Staffordshire and Stoke on Trent Partnership Trust
- General practices and other community settings

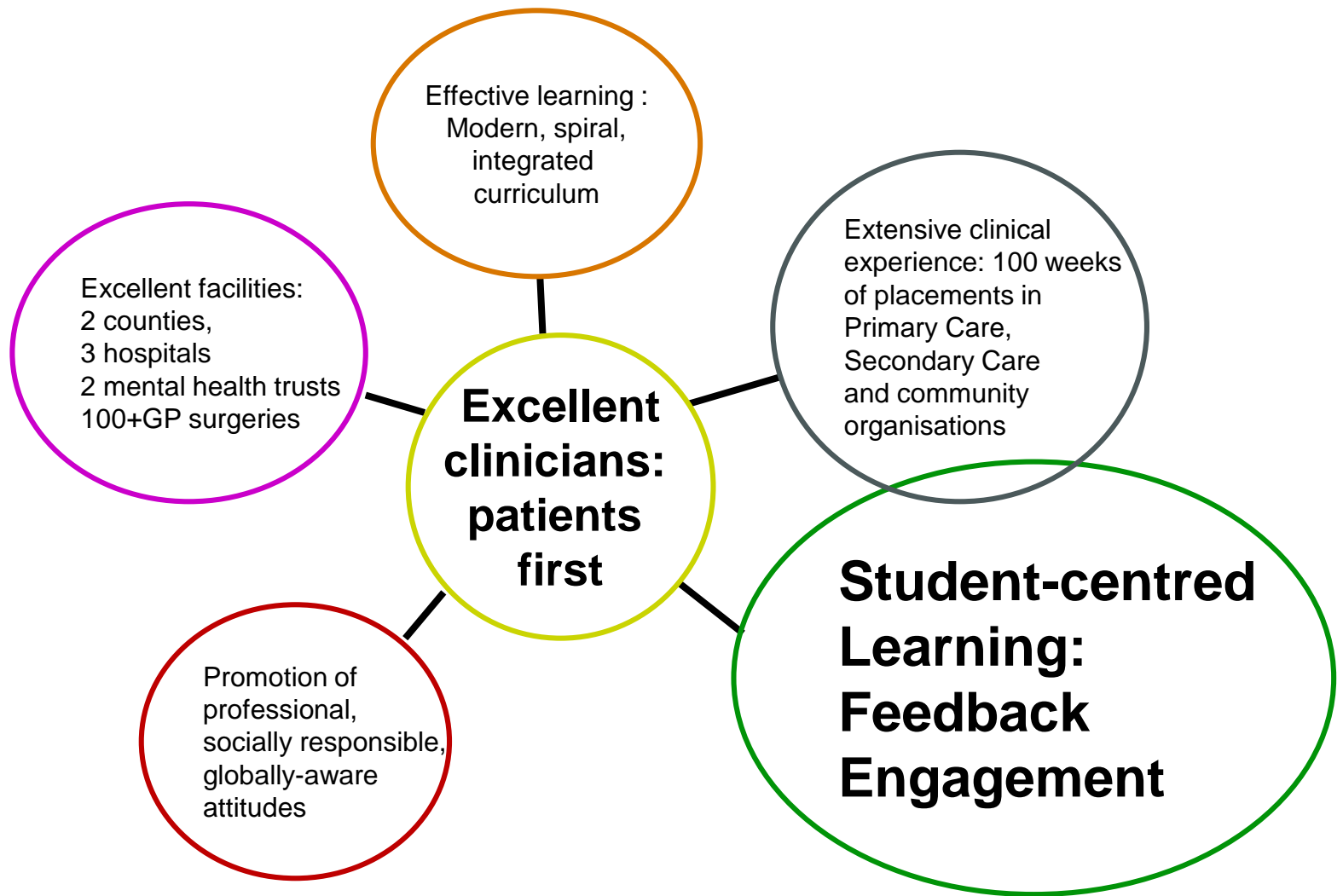


Course Locations - Shropshire

- The Shrewsbury and Telford Hospital NHS Trust
 - Princess Royal Hospital
 - Royal Shrewsbury Hospital
- General practices and other community settings
- South Staffordshire and Shropshire Healthcare NHS Foundation Trust



GRADUATING EXCELLENT CLINICIANS



Effective learning :
Modern, spiral,
integrated
curriculum

Extensive clinical
experience: 100 weeks
of placements in
Primary Care,
Secondary Care
and community
organisations

**Student-centred
Learning:
Feedback
Engagement**

Promotion of
professional,
socially responsible,
globally-aware
attitudes

Excellent facilities:
2 counties,
3 hospitals
2 mental health trusts
100+GP surgeries

**Excellent
clinicians:
patients
first**



Helping students achieve excellence

- PBL tutors in Phase 1 (Years 1 + 2)
- CBL and CIL tutors in Phase 2 (Years 3 + 4)
- Educational Supervisors in Phase 3 (Year 5)
- Professional Development Tutors
- Appraisers/portfolio
- Practice (formative) assessments - often online
- Innovative feedback systems
- Student Support Service



Student Engagement and Involvement

- Regular evaluation of all parts of the course
- Staff-Student Liaison Committee
- Annual Student Away Day
- Students sit on major decision-making committees
- Student Council
- Thriving student societies (e.g. Surgical & GP Societies, Charities)



And if it goes wrong...

- Student Support
 - Pastoral and welfare
 - Enhanced professional and academic support service EPASS
 - Progress committee
- Fitness to Practise pathway
 - Health and conduct committee



Supporting future academics

- Principles of medical research, critical appraisal skills
- Student selected opportunities
“Learning how to do research”
- Summer internship
Primary Care Centre Versus Arthritis
- Intercalated year (MPhil, MSc, MMedSci)
- Postgraduate academic foundation programme
- Postgraduate academic clinical fellowships

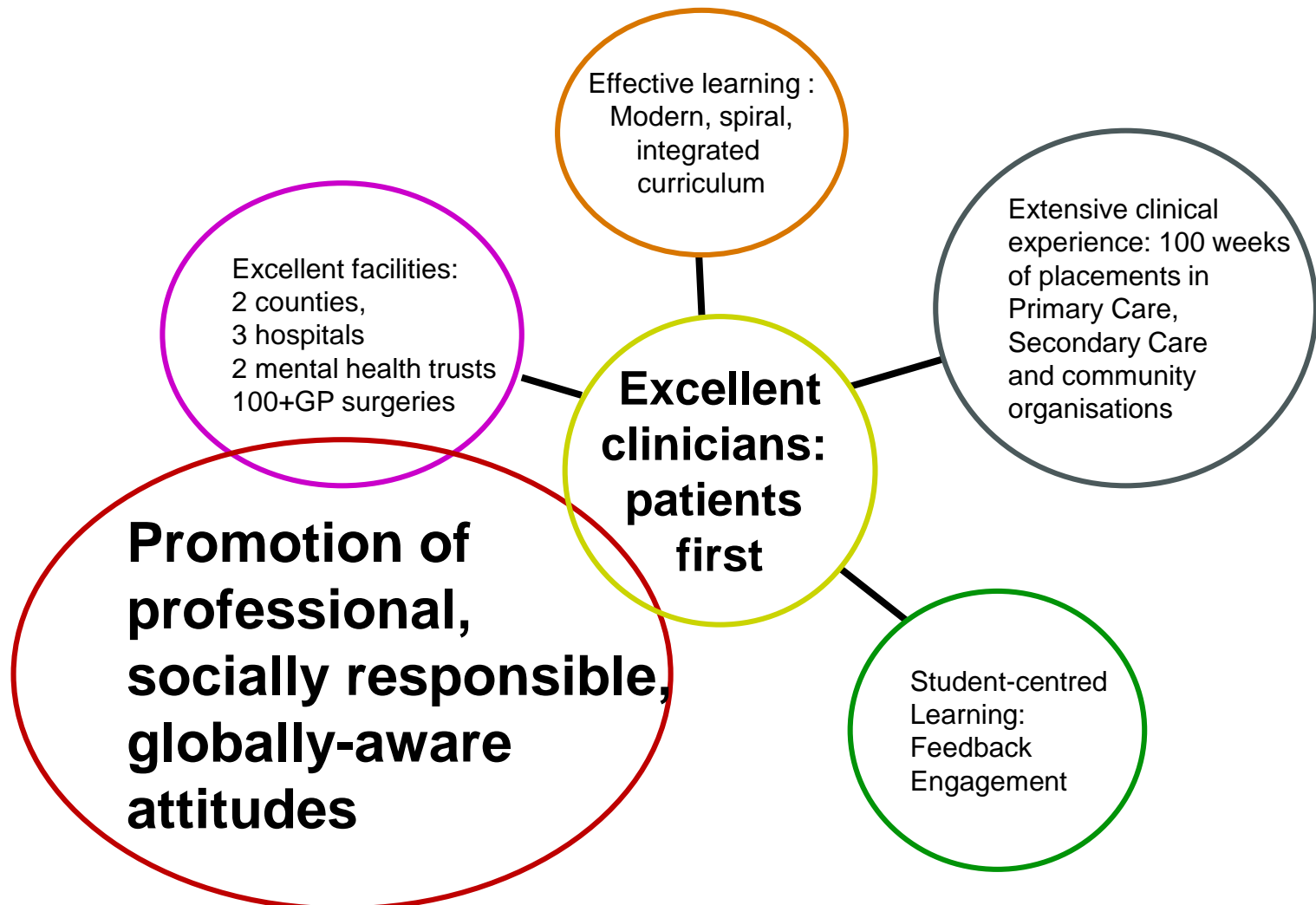


Intercalated Degrees at Keele

- A year away from the Medicine curriculum
- After Year 2 – Bachelors Degree
- After Year 4 - Masters degree in:
 - Clinical Research (MPhil)
 - Masters in Medical Science (MMedSci)
 - Masters in Anatomical Science (MMedSci)
 - Masters in Medical Education (MAMedEd)
 - Medical Ethics (MA)
 - Humanities (MRes)



GRADUATING EXCELLENT CLINICIANS





Medical student engagement with the community

Community-focused student societies &
Y2 student selected components

- Teddy Bear Hospital
- MedPath
- Anthony Nolan Bone Marrow
- Medsin Keele
- Keele First Responders
- Keele Heartstart society
- Keele Medical Charity Society





Why Medicine at Keele?



GRADUATING EXCELLENT CLINICIANS

Be Prepared !



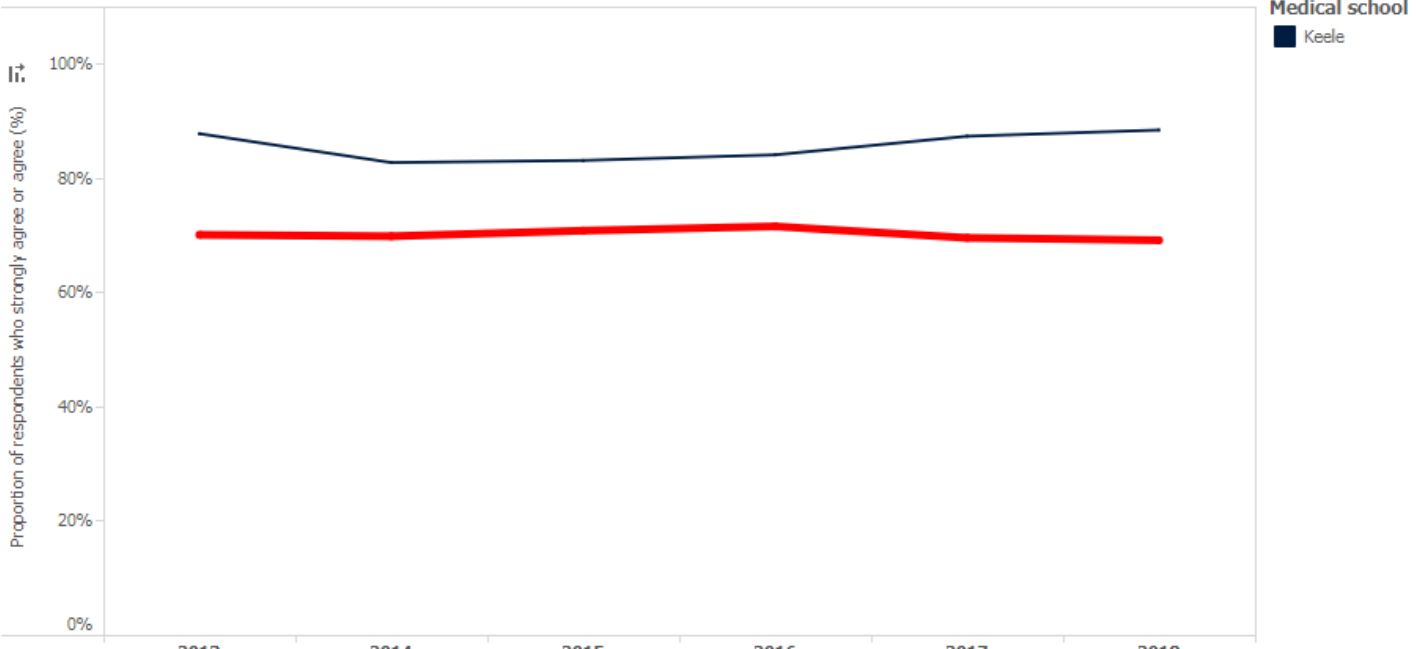
GRADUATING EXCELLENT CLINICIANS

Medical Council

Proportion of foundation doctors who felt adequately prepared for their first post, by UK medical school

The red line shows the average for the UK.

NTS F1 preparedness question: I was adequately prepared for my first foundation post (201...
Medical school: Keele
Year commenced medical school: (All)





National Student Survey (NSS) 2018

- For English broad based universities –
Keele no.1 with **90%** student satisfaction
- For University Medical School –
Keele no.1 with **99%** student satisfaction



Questions?