



Keele
UNIVERSITY
SCHOOL OF
MEDICINE

GRADUATING EXCELLENT CLINICIANS

Medicine Summer School

August 2019



NHS
Health Education England



Introduction to themes

You are here because:

- you are interested in medicine as a possible career path
- you would like to find out more about it
- you & your teachers think you can make it
- you live in an area or go to a school where it is difficult to get advice about studying medicine at university



Some things we want you to know

Medical careers:

- is it right for you?
- what's the difference between specialities?
- what are the options apart from medicine?

Medical schools

- what are the similarities? what are the differences?
- does it matter where you study?
- how do you get in?



By the end of the summer school you should...

- know more than your teachers about
 - the variety of careers in medicine
 - the differences between medical schools
 - what qualifications you need
 - what else you need
- be better able to
 - decide whether medicine is what you want to do
 - decide what medical schools to apply to
- be ready to work hard on your A-levels or other qualifications



Introduction to themes

Tuesday:

- general orientation to medical careers

Wednesday

- what it's like to be a medical student

Thursday

- life as a GP/emergency doctor

Friday

- life as a psychiatrist

pharmacy

physiotherapy

biomedical science



Let's get ready to go

- You're in six groups
- Introduce yourself to your other group members



Let's GO!

- List six things a doctor needs to be good at
- List six things (not on your previous list) that a medical student needs to be good at



GRADUATING EXCELLENT CLINICIANS

Career options in healthcare & medical science

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Director of Admissions (Undergraduate Medicine)

Keele University School of Medicine

Executive Board Member

Qualification Reform & Access Lead

Medical Schools Council Selection Alliance



Put the following in order of priority

- Improving lives
- Respect & dignity
- Commitment to quality of care
- Contribution to scientific advance
- Ensuring equality of access to healthcare
- Working with people who share your values
- Working together for patients
- Everyone counts
- Compassion
- Ensuring the NHS is sustainable
- Improving global health
- Setting a good example
- Challenging harmful behaviours & practices



Our Values



Working together for patients

Patients come first in everything Wandsworth CCG does. We fully involve patients, staff, families, carers, communities, and professionals inside and outside the NHS. We put the needs of patients and communities before organisational boundaries. We speak up when things go wrong.



Respect and dignity

Wandsworth CCG values every person – whether patient, their families or carers, or staff – as an individual, respect their aspirations and commitments in life, and seek to understand their priorities, needs, abilities and limits. We take what others have to say seriously. We are honest and open about our point of view and what we can and cannot do.



Commitment to quality of care

Wandsworth CCG earns the trust placed in us by insisting on quality and striving to get the basics of quality of care – safety, effectiveness and patient experience – right every time. We encourage and welcome feedback from patients, families, carers, staff and the public. We use this to improve the care we provide and build on our successes.



Compassion

Wandsworth CCG ensures that compassion is central to the care we provide and respond with humanity and kindness to each person's pain, distress, anxiety or need. We search for the things we can do, however small, to give comfort and relieve suffering. We find time for patients, their families and carers, as well as those we work alongside. We do not wait to be asked, because we care.



Improving lives

Wandsworth CCG strives to improve health and wellbeing and people's experiences of the NHS. We cherish excellence and professionalism wherever we find it – in the everyday things that make people's lives better as much as in clinical practice, service improvements and innovation. We recognise that all have a part to play in making ourselves, patients and our communities healthier.



Everyone counts

Wandsworth CCG maximises its resources for the benefit of the whole community, and make sure nobody is excluded, discriminated against or left behind. We accept that some people need more help, that difficult decisions have to be taken – and that when we waste resources we waste opportunities for others.



What about the others?

Contribution to scientific advance

Setting a good example

Working with people who
share your values

Ensuring the NHS is sustainable

Ensuring equality of access to
healthcare

Improving global health

Challenging harmful behaviours & practices



Doctor Do?



What does a doctor do?

- work with patients
- work with other healthcare professionals
- make decisions (on the basis of incomplete evidence)
- advocate for patients
- negotiate with managers
- listen / think / talk / do / record
- follow rules & know when not to
- teach / role-model / mentor

What doesn't a (regular) doctor do?

- make major scientific breakthroughs
- spend hours in a lab solving problems
- perfect new techniques
- devise public policy

- Some doctors do these things
- You have to decide to do them and follow specific career paths



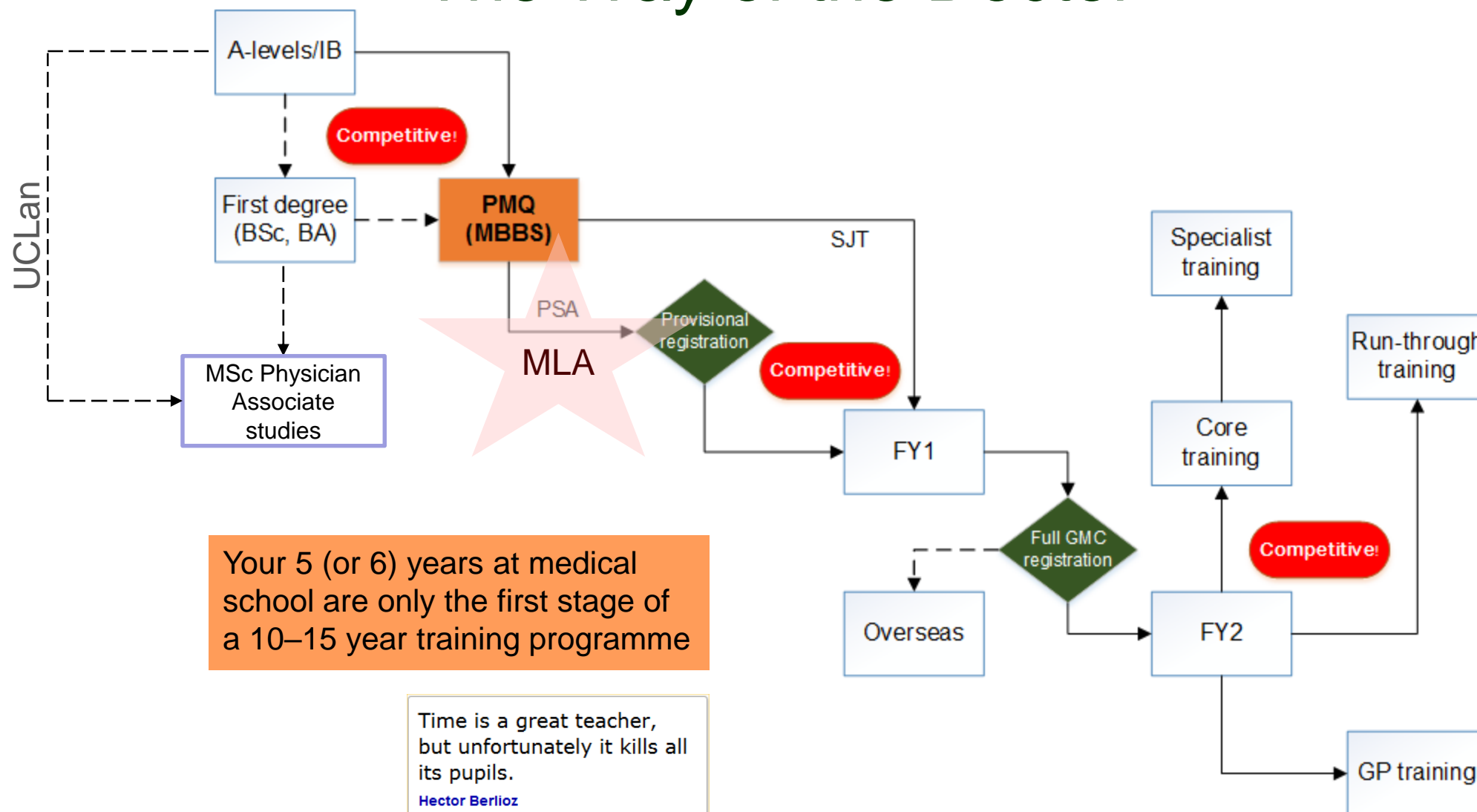
Who makes healthcare happen?

<https://www.healthcareers.nhs.uk/explore-roles>

<https://www.healthcareers.nhs.uk/career-planning/career-tools>



The Way of the Doctor






Who makes new treatments happen?


- Chemists
- Biotechnologists
- Engineers
- Bioscientists
- Bioinformaticians
- Pharmacists
- Formulation scientists
- Doctors
- Nurses
- Manufacturing technologists

Nobel Prize in Medicine 2018

Work: for their discovery of cancer therapy by inhibition of negative immune regulation



Tasuku Honjo



James Allison

Cancer kills millions of people every year and is one of humanity's greatest health challenges.

By stimulating the inherent ability of our immune system to attack tumor cells this year's Nobel Laureates have established an entirely new principle for cancer therapy.

www.BiochemDen.com

- Public authorities (NICE/MHRA, EMA, FDA, etc.)



Who do these industries need?

<http://www.abpi.org.uk/media-centre/blog/2019/january/four-scientists-that-save-the-world-every-day-and-why-the-uk-needs-more-of-them/>

<https://www.abpi.org.uk/publications/bridging-the-skills-gap-in-the-biopharmaceutical-industry-2018/>



The medical science route

Technical roles

- Apprenticeship or degree
- Post-apprenticeship/degree training
- In-house specialist training
- Supervision / management

Research roles

- Degree
- Postgraduate degree (master's, doctorate)
- Research fellowship (academic) or team membership (industry)
- Principal investigator (academic) or team leader (industry)
- Strategic / operational roles



Pros & cons

Medicine

- Job security
- Responsibility & rewards
- Social contribution
- Less flexibility once training pathway commenced
- Frequent job changes in early career
- Frustration of super-specialization
- NHS as an employer

Research

- New opportunities & challenges
- Possibility to contribute to major advances
- Global networks
- Lack of defined career pathway
- Lack of security: short-term contracts (academic) vs shifting priorities (industry)
- Expect the unexpected
- Ethics (profit motive)



Put the following in order of priority

- Improving lives **M** **R**
- Respect & dignity **M**
- Commitment to quality of care **M**
- Contribution to scientific advance **R**
- Ensuring equality of access to healthcare **R** **M**
- Working with people who share your values **M** **R**
- Working together for patients **M** **R**
- Everyone counts **M**
- Compassion **M**
- Ensuring the NHS is sustainable **M** **R**
- Improving global health **M** **R**
- Setting a good example **M**
- Challenging harmful behaviours & practices **M**