



# Medicine, Dentistry and Veterinary Science

Information for Parents and Students

Miss K Armstrong – 7th November 2019





## Information tonight:

- Why choose this type of career?
- Universities and Interviews
- BMAT and UCAT (formerly UKCAT)
- Gordon's – what we offer
- Current Issues
- What students need to do





# Motivation and Understanding

- Why do you want to be a doctor?
- What does the role involve?
- What have you read about medicine?
- What impact do you hope to make?
- Why not a different caring profession?





# Personal Insight

- 2 personal qualities which will help you be a good doctor/vet/dentist?
- 2 shortcomings which you will need to overcome to be a good dentist/vet/doctor?
- What are the negative aspects of being a doctor? vet? dentist?
- How do you cope with stress? criticism?
- When did you change your mind about a strong opinion you held?





# Choosing Universities:

- Entry requirements (normally AAA)
- Selection process
- Facilities
- Associated Hospital
- Environment
- UCAT or BMAT or both?







# Veterinary

- University of Cambridge
- Royal Veterinary College
- University of Surrey
- University of Nottingham
- University of Bristol
- University of Glasgow
- University of Edinburgh
- University of Liverpool





# Interviews

- Normally in January or February (2021 for you)
- Panel and/or MMI Style
- Written work
- Dexterity - evidence
- You may get short notice, but don't panic!
- Read the email CAREFULLY and make sure you bring everything they need you to (Exam certificates, Passport, photos, etc.)





# Interview Questions – possible areas:

- Course Research
- Motivation
- Team Work
- Personal Insight
- Depth and Breadth
- Work Experience
- Understanding of Medicine/Dentistry/Veterinary in society
- Science
- Ethics
- Tolerance of Ambiguity

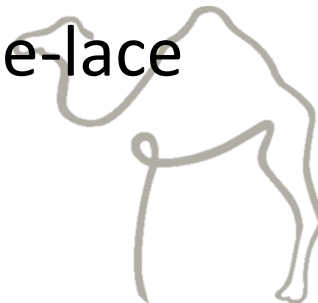






# Multi Mini Interviews (MMIs)

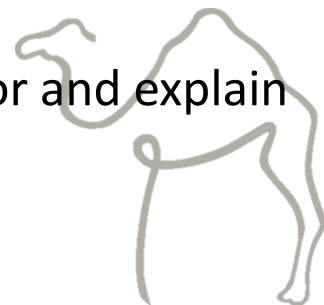
- Normally between 6-9 stations, lasting between 5 and 9 minutes each
- Stations include:
  - Interaction with actors
  - Discussion of ethical issues
  - Work Experience & Personal Statement
  - News & Current Affairs
  - Can be random e.g. explain how to tie a shoe-lace





## Example MMI questions/stations

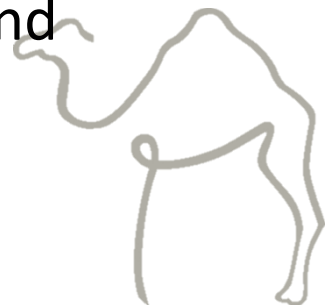
- Do you like libraries and why do you think we should have libraries?
- How would you make your GP surgery more friendly for deaf people?
- Last week a patient came to see you. You misdiagnosed him and consequently he died. His next of kin, Sandy Smith, came to see you today, go and talk to them.
- Watch this video of a simple first aid procedure then perform it on your neighbour, Alex, who has just been involved in an accident in their home. You may only watch the video once.
- You have just reversed over your neighbour's cat, knock on her door and explain to her what happened.





# BMAT: UK

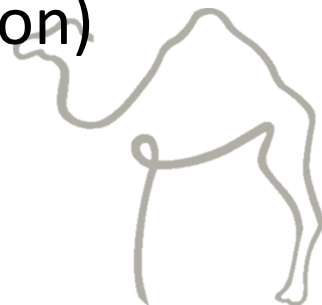
- Brighton & Sussex Medical School
  - University of Cambridge
  - Imperial College London
  - Keele University
  - Lancaster University
  - Leeds' School of Medicine
  - University of Oxford Medical School
  - University College London
- It is a 2 hour paper based test that is offered once a year in September and October
  - It tests your ability to apply scientific and mathematical knowledge, as well as problem solving, critical thinking and written communication skills





# UCAT

- It tests verbal, quantitative and abstract reasoning, as well as decision analysis and situational judgement
- **Who uses it?** University of Aberdeen, Barts and The London School of Medicine and Dentistry, University of Birmingham, Cardiff University, University of Dundee, Durham University, University of East Anglia, University of Edinburgh, University of Exeter, University of Glasgow, Hull York Medical School, Keele University, King's College London, University of Leicester, University of Liverpool, University of Manchester, Newcastle University, University of Nottingham, Plymouth University, Queen's University Belfast, St George's, University of London, University of Sheffield, University of Southampton, University of St Andrews and University of Warwick Graduate Entry Medical Degree.
- **Key dates:**  
May - registration period opens  
Testing – July until beginning of October
- **How long does it last?** 120 mins (standard version)







1. **Set 1**

Set A		Set B	

For each of the shapes below, decide whether they belong to Set A, Set B or Neither

Shape 1	Shape 2	Shape 3	Shape 4	Shape 5
<input type="checkbox"/> Set A	<input type="checkbox"/> Set A	<input type="checkbox"/> Set A	<input type="checkbox"/> Set A	<input type="checkbox"/> Set A
<input type="checkbox"/> Set B	<input type="checkbox"/> Set B	<input type="checkbox"/> Set B	<input type="checkbox"/> Set B	<input type="checkbox"/> Set B
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None







All of the boxes in the sets contain zig-zags, and at least one small black shape. In Set A, the zig-zag consists of three connected lines (a 'Z' shape), whereas in Set B, the zig-zag consists of four connected lines (a 'W' or 'M' shape)

Shape 1: correct answer is B (Set B). The zig-zag here is made up of four connected lines, thus must fit into Set B.

Shape 2: correct answer is C (Neither). There is more than one zig-zag shape, and they each are made up of two connected lines, so fit neither set.

Shape 3: correct answer is A (Set A). The zig-zag is made up of three connected lines.

Shape 4: correct answer is C (Neither). The zig-zag is made up of five connected lines, thus it does not fit into either set.

Shape 5: correct answer is A (Set A). The zig-zag is made up of three connected lines, hence fits Set A.





Mark cycles from his house to Brighton in 2 hours, 15 minutes. He had three 5 minute rests. When he left, the reading on his odometer was 1086 miles. When he arrived, the reading on his odometer was 1108 miles.

- 1 km = 0.6124 miles

**1. What was Mark's average speed whilst cycling?**

- A. 5.5 mph
- B. 8.8 mph
- C. 9.8 mph
- D. 11 mph
- E. 22 mph

**2. How many kilometres has Mark's bike done when he arrives in Brighton?**

- A. 35.4 km
- B. 688.5 km
- C. 1747.7 km
- D. 1772.8 km
- E. 1783.1 km

**3. Mark can do the same journey in 38 minutes by car. How much faster is Mark's average driving speed compared to his average cycling speed?**

- A. 17.9 mph
- B. 22.1 mph
- C. 23.7 mph
- D. 24.9 mph
- E. 38.2 mph





1. Correct answer is D (11 mph).

We know that  $\text{speed} = \text{distance}/\text{time}$ . The distance Mark travels to Brighton is:  $1108 \text{ miles} - 1086 \text{ miles} = 22 \text{ miles}$ . The journey takes 2 hours, 15 minutes, but if we take away the rest time ( $3 \times 5 \text{ minutes} = 15 \text{ minutes}$ ), the time taken is 2 hours. Thus  $\text{speed} = 22/2 = 11 \text{ mph}$ .

2. Correct answer is E (1783.1 km).

It is given that  $1 \text{ km} = 0.6214 \text{ miles}$ . He has done 1108 miles by the time he has arrived in Brighton, therefore:  $1108/0.6214 = 1783.1 \text{ km}$ .

3. Correct answer is C (23.7 mph).

From Question 1, we know the distance travelled is 22 miles. The time taken (38 minutes) has to be converted to hours by dividing by 60 ( $38/60 = 0.6333$ ). Therefore, the speed of the car is:  $22/0.6333 = 34.7 \text{ mph}$  speed.

The difference between the two is:  $34.7 - 11 = 23.7 \text{ mph}$  faster





## UKCAT Practice Exam Review - Candidate Name

🕒 Time Remaining 20:35

📄 45 of 47

 Calculator

 Flag for Review

A consultation is taking place between a senior doctor and a patient; a medical student is observing. The senior doctor tells the patient that he requires some blood tests to rule out a terminal disease. The senior doctor is called away urgently, leaving the medical student alone with the patient. The patient tells the student that he is worried he is going to die and asks the student what the blood tests will show.

How **appropriate** are each of the following responses by the medical student in this situation

Explain to the patient that he is unable to comment on what the tests will show as he is a medical student

- A. A very appropriate thing to do
- B. Appropriate, but not ideal
- C. Inappropriate, but not awful
- D. A very inappropriate thing to do





Natasha is a dental student. She is due at a dental clinic session where she will be conducting consultations with patients, under supervision. Her attendance at the dental clinic session is very important to her performance on her course. She notices that she has lost her student photo identification badge that includes her photograph, name, course and year of study. She is aware that this must be worn during such sessions because it identifies to others that students are in fact studying and not yet qualified.

How **important** to take into account are the following considerations for **Natasha** when deciding how to respond to the situation?

That an identification badge must be worn when on clinical sessions

- A. Very important
- B. Important
- C. Of minor importance
- D. Not important at all





# What Gordon's School offers:

- Weekly Period 7 dedicated sessions to help prepare students
- Mock interviews and MMIs
- Trips/Lecture Opportunities
- Careers department including individual careers' interviews and careers' talks





# NHS – Current Issues

- Ageing population
- Growing population
- Antibiotic resistance
- Obesity levels rising
- Lifestyle factors
- Mental health awareness and provision





# NHS – Current Issues

- Brexit
- Increasing costs as technology advances
- Public expectations
- A&E use increase
- Junior doctor contracts
- 7 day NHS

**Economics, Maths, Statistics, Humanities, PR,  
Law, International Relations, Geography, History**





# Veterinary issues

- Brexit
- Live sheep exports in summer
- TB and badger cull
- Pet owner expectations
- Recruitment
- Increased specialisations
- Costs
- Vet nursing





# What you need to do:

- 1) Work experience
- 2) Research available university courses
- 3) Keep up-to-date with current information and review historical information - *journals*
- 4) January 2020 – start UCAT and BMAT practice

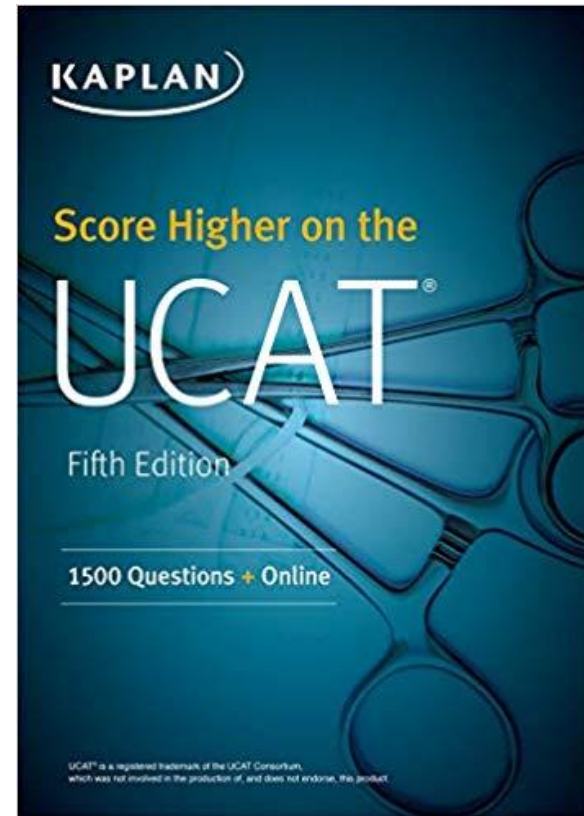
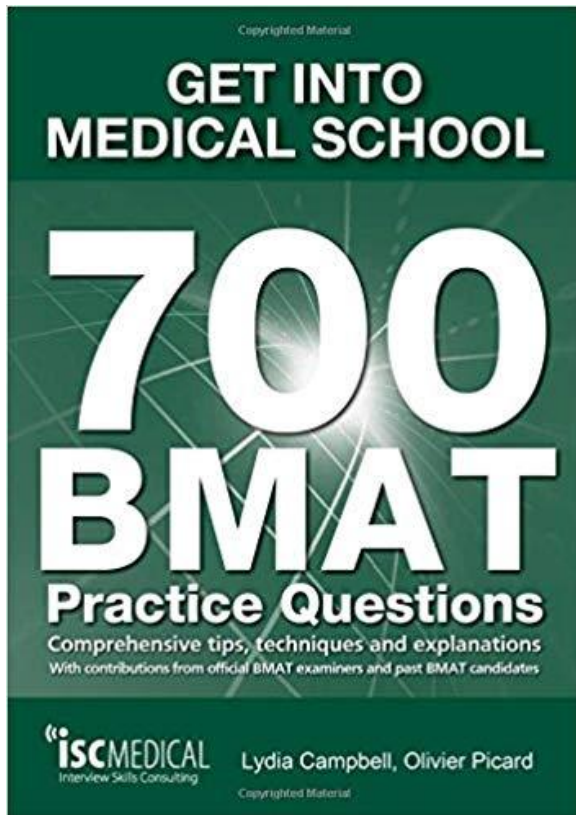




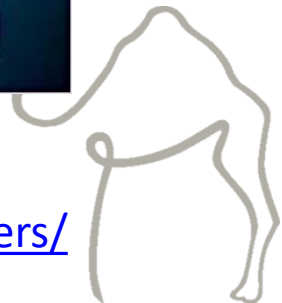


# Helpful Resources

[www.amazon.co.uk](http://www.amazon.co.uk)



You can also download past papers from <https://www.themedicportal.com/application-guide/bmat/bmat-past-papers/>





# Stay up to date

- The Medic Portal
- Newspapers, BBC, Guardian website
- Student British Medical Journal (BMJ)
- <https://www.theguardian.com/science/veterinary-medicine>
- <https://www.bva.co.uk/News-campaigns-and-policy/Newsroom/>
- <https://www.vettimes.co.uk/>

## Tests:

- <https://www.ucat.ac.uk/>
- <https://www.admissionstesting.org/for-test-takers/bmat/>

