GCSE Medicine in Britain – c1250-c1500 – Medicine in medieval England

Specification co	ntent	Key examples	
Ideas about	Supernatural and religious explanations of the cause of	Causes	Supernatural – God, to punish sin, or to test your
the cause of	disease.	Causes	faith – leprosy especially seen as punishment. Also
disease and	Rational explanations: the Theory of the Four Humours and		astrology – movement of the planets
illness	the miasma theory; the continuing influence in England of		Rational – humours being unbalanced. Miasma
11111033	Hippocrates and Galen		(plural = miasmata) – bad air – swamps, corpses etc
	Thippocrates and Galen		could transmit disease. Bad smell suggested sin
Approaches to	Approaches to prevention and treatment and their connection with	Treatment	Always links to ideas about causes
prevention and	ideas about disease and illness; religious actions, bloodletting and	Treatment	Supernatural – prayer, fasting, touching relics, going
treatment	purging, purifying the air, and the use of remedies.		on pilgrimages, checking horoscope before
ticatificit	New and traditional approaches to hospital care in the 13th century.		treatment. Rational – bloodletting (could use
	The role of the physician, apothecary and barber surgeon in		leeches or cupping), purging, warm baths, herbal
	treatment and care provided within the community and in hospitals		remedies
Case study	Dealing with the Black Death, 1348-49; approaches to	Prevention	Prayer. The <i>regimen sanitas</i> (instructions on how to
Ouse study	treatment and attempts to prevent its spread	1 TOVOITION	stay health, started with Hippocrates – eg stay
	Treatment and attempts to prevent its spread		clean, clean home etc), diet, herbs to make air smell
Key people		Test yourself:	This knowledge should be in your head all year!
Hippocrates	'Father of Medicine' – 4 humours, clinical observation (watch	Doctors	Physicians – trained at university by watching
Improviator	and record details, use this to help with future cases),	2001010	dissection and listening to Galen's description.
	importance of exercise, Hippocratic Oath for doctors (to		Diagnosed through urine etc sample+astrology.
	preserve life)		Diagnossa unsagn anns sie sampie rasusiegy.
Galen (129-	Built on Hippocrates' ideas – theory of opposites (if cold, give		
200)	something hot), also dissected animals to find out about anatomy		
	(structure of body). Proved brain, not the heart, controls the body		
Roger Bacon	Put in prison around 1270 for suggesting doctors should do		
	their own research, not just follow Galen		
		Do you know the	se words?
Physicians,	Physicians – diagnosed+recommended treatment, trained at		
apothecaries	university. Apothecaries – mixed herbal remedies (joined a guild,		
and surgeons	worked for master to train). Surgeons – least qualified, also cut hair		
Case study		Big question-	Why did so little change in medieval times?
Dealing with	Bubonic plague – outbreak in 1348-9 – 1/3 rd to 1 / 2 of the		 Power of Church – if you questioned it, you
the Black	population died. Causes – miasma, Jews, sin, positions of		would go to Hell, and they supported Galen's
Death	planets. Treatments – confuses sins and pray, bleeding and		ideas (as he believed in one god)
	purging (but seemed to make worse), sweet herbs or fire to		Church controlled education
	clean air. Prevention – pray and fast, leave the area, carry		3. 4 humours ideas seemed to work
	sweet herbs, quarantine (new people stay away for 40 days),		Government was more interested in
	clean streets (or don't, maybe bad smell will drive out		defending the county and keeping it peaceful
	miasma)		than improving health

GCSE Medicine in Britain – c1500-c1700 – The Medical Renaissance in England

Charification conta	GCSE Medicille III Britain - C1500-C1700 - The		
Specification conte	mt	Key examples	
Ideas about the cause of disease and illness	Continuity and change in explanations of the cause of disease and illness. A scientific approach, including the work of Thomas Sydenham in improving diagnosis. The influence of the printing press and the work of the Royal Society on the transmission of ideas.	Causes	Still God, miasmata, 4 humours (but rejected by some, disease seen as separate to body – eg work of Paracelsus), animalcules were a new idea (tiny animals – ie bacteria – seen under microscope)
Approaches to prevention and treatment	Continuity in approaches to prevention, treatment and care in the community and in hospitals. Change in care and treatment: improvements in medical training and the influence in England of the work of Vesalius	Treatment	Not much change – still bloodletting+purging (4 humours), praying, herbal remedies (but new ingredients – eg tobacco from America). But some – eg herbal remedies chosen for colour/shape (eg jaundice treated by yellow things). Also idea of 'transference' – a disease could be transferred by touching (it would leave the first person). Start of looking for chemical cures – known as iatochemistry – eg using antimony to encourage vomiting
Case studies	Key individual: Harvey and the circulation of the blood. Dealing with the Great Plague in London, 1665: approaches to treatment and attempts to prevent its spread	Prevention	Not much changed, though in towns you could be fined for not cleaning the street in front of your house. Barometers+thermometers used to check link between weather and disease
Key people			This knowledge should be in your head all year!
Vesalius	Learnt about anatomy from dissections. 1543 – 'Fabric of the Human Body' – proved Galen wrong in more than 200 ways, eg proved jaw only had 1 bone.		
Copernicus and Galileo	Challenging the authority of the Church in astronomy – suggested the Sun, not the Earth, at universe centre		
Thomas Sydenham	Nicknamed 'the English Hippocrates' – in London in 1660s and 1670s – emphasised careful observation. Said diseases could be organised into different groups (rather than personal to the patience) – saw measles and scarlet fever were different	Hospitals	Early 1600s, more people with illnesses coming in – stayed for short time which suggests cured. 1536 monasteries dissolved – fewer hospitals. New 'pest houses' for those suffering from plague.
Gutenburg+ Leeuwenhoek	Gutenburg (1450s) – first printing press Leeuwenhoek (mid 1600s) – first microscope		
Chamberlen	1620 – invented forceps – fewer female midwives		
Case studies			

Harvey and the discovery of the circulation of the blood	Studied at Padua where he was taught Vesalius' theory that veins contained valves – Harvey tried to pump liquid away from the heart in dissected bodies but it didn't work – contradicted Galen's idea that blood flowed around the body from the liver. Harvey then disproved Galen's idea that blood was burned up – in fact same blood circulated. He dissected humans and did vivisection on animals, proving heart like pump, suggesting capillaries linked arteries and veins. Published 1628, but people slow to accept	Dealing with the Great Plague in London, 1665	Treatment – not many records as people shut up in homes. Wrap patient in thick cloth to sweat out the disease. Transference (chicken on buboes). Prevention – pray, quarantine those who has plague for 28 days in house, plague doctors with special costume, more action from government than 1348 (dogs and cats killed, tar burnt on streets)	
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GCSE Medicine in Britain – c1700-c1900 – Medicine in eighteenth- and nineteenth-century Britain

Specification	content	Key	
		examples	
Ideas about the cause of disease and illness	Continuity and change in explanations of the cause of disease and illness. The influence in Britain of Pasteur's Germ Theory and Koch's work on microbes.	Public Health Act	Previous laissez-faire attitude, then 1848 Public Health Act made action on clean water and sewage voluntary. 1875 Public Health Act made it compulsory for towns to take action. Change mostly because of (1) Snow (2) working men getting the vote in 1867 (3) Great Stink 1858.
Approaches to prevention and treatment	The extent of change in care and treatment: improvements in hospital care and the influence of Nightingale. The impact of anaesthetics and antiseptics on surgery. New approaches to prevention: the development and use of vaccinations and the Public Health Act 1875	Causes	Miasma until 1861, and afterwards – people slow to change. Spontaneous generation was a popular theory – rotting matter created microbes, which caused the miasmata.
Case studies	Key individual: Jenner and the development of vaccination Fighting Cholera in London, 1854; attempts to prevent its spread; the significance of Snow and the Broad Street pump	Pasteur+ Koch's influence	Pasteur – Britain slow to listen, followed Bastian's spontaneous generation ideas. Lister did follow Pasteur. John Tyndall, a physicist, similarly linked dirt and disease, but people found ideas hard to accept. Koch made it easier for other doctors to study microbes+inspired them to
Key people			This knowledge should be in your head all year!
Florence Nightingale	Nursed in the Crimean War in the 1850s, cut death rates from 42% to 2%. Then wrote 200 books about hospitals, including Notes on Nursing and Notes on Hospitals, and set up a training school for nurses in the 1860s at St Thomas'. [still believed in miasma] Made nursing respectable		
Edward Jenner	1796 – used cowpox germs to protect against smallpox – the first vaccination. Tested it on 23 people. Lots of opposition, including from Christians and from people who had done inoculation.		
Louis Pasteur	Published germ theory in 1861 – germs cause disease. Then 1879 chicken cholera vaccine discovered by chance (injected old germs) – first vaccine since Jenner. Developed more, as did Koch		
Robert Koch	1875 – found the germ that caused anthrax – which proved germ theory was true and meant vaccines could be developed. Also stained microbes.		
Simpson+List	Key developers of chloroform (1847), the first successful anaesthetic and		
er	carbolic acid (1865), the first antiseptic		
Joseph Bazalgette	Responsible for ambitious London sewers, created after Great Stink in 1858, finished 1875		

See above. Smallpox very serious – 11 epidemics in London in 18 th vaccination Vaccination Vaccination See above. Smallpox very serious – 11 epidemics in London in 18 th century. Inoculation = deliberately giving someone the disease, to protect them later. Jenner published in 1798 and government then funded vaccine. Hostility because strange idea, and Jenner couldn't explain how it worked. 1852 smallpox vaccination compulsory, enforced from 1872. See above. Smallpox very serious – 11 epidemics in London in 18 th Cholera in London, 1848-9 epidemic Snow suggested cholera was being transmitted by dirty water (not miasmata). He proved this in 1854 epidemic – mapped deaths in Soho and linked them to contaminated Broad Street pump	John Snow	1854 – proved that cholera was spread through water		more deaths. Then antiseptic and aseptic surgery, though doctors didn't like carbolic acid or Lister
vaccination century. Inoculation = deliberately giving someone the disease, to protect them later. Jenner published in 1798 and government then funded vaccine. Hostility because strange idea, and Jenner couldn't explain how it worked. 1852 smallpox vaccination compulsory, enforced from 1872. Killed people in a week. Tar barrels burnt, but it didn't help. In London, 1848-9 epidemic Snow suggested cholera was being transmitted by dirty water (not miasmata). He proved this in 1854 epidemic – mapped deaths in Soho and linked them to	Changes in s	society		
		century. Inoculation = deliberately giving someone the disease, to protect them later. Jenner published in 1798 and government then funded vaccine. Hostility because strange idea, and Jenner couldn't explain how	Cholera in London,	Killed people in a week. Tar barrels burnt, but it didn't help. In 1848-9 epidemic Snow suggested cholera was being transmitted by dirty water (not miasmata). He proved this in 1854 epidemic – mapped deaths in Soho and linked them to

GCSE Medicine in Britain – c1900 to present – Medicine in modern Britain

Specification	content	Case studies	S
Ideas about the cause of disease and illness	Advances in understanding the causes of illness and disease: the influence of genetic and lifestyle factors on health. Improvements in diagnosis: the impact of the availability of blood tests, scans and monitors		
Case studies	Fleming, Florey and Chain's development of penicillin The fight against lung cancer in the 21 st century: the use of science and technology in diagnosis and treatment; government action		
Key example	S		
Causes - genetic	Genetic understanding improved by 1900 through Mendel (genes come in pairs, one from each parent). Then 1953 Crick and Watson identified the structure of DNA, using photography from Franklin. Led to Human Genome Project, finished 2000 – identified complete set on DNA. From that, can identify genes that cause diseases – eg BRCA1 for some breast cancer (Angelina Jolie)	Causes - lifestyle	Smoking – popular from 1920s – biggest cause of preventable disease in world. Diet – too much sugar (leads to diabetes) and fat (heart disease). Also alcohol, tanning and STIs.
Treatment	Huge changes: 1. Magic bullets – specific cure for specific disease, first one 1909 Salvarsan 606 (Paul Ehrlich) for syphilis. 2. Penicillin – first antibiotic, could cure more than one infection. Lots of technology for treatment now (chemotherapy for cancer, kidney dialysis machines to do the work of kidneys if they fail). Better sci+tech includes mass production of pills, insulin pumps and hypodermic needles (which measure precise doses).	Improveme nts in diagnosis	X-rays from 1890s – can see inside human body without cutting into it. Later (1940s) ultrasound and then (1970s) CT and MRI scans – MRI can see tissue. Blood tests from the 1930s onwards and ECGs from 1900s onwards. Blood pressure monitors from 1880s onwards. Endoscopes from 1900 (camera to see inside body)

Treatment in
hospitals and
influence of
NHS

- 1. Previously some help through 1911 National Insurance Act, but only for workers, not for wives/families
- 2. NHS launched 1948 government now responsible for GPs and for about 3000 hospitals.
- 3. High-tech surgery now includes transplants (eg hearts from 1967), microsurgery (reattaching tiny blood vessels), keyhole surgery (tiny incisions). More and better prosthetic limbs for increased soldiers surviving attacks in Iraq and Afghanistan
- 4. Prevention has improved mass vaccination for babies and young people (eg polio developed 1954, HPV 2008), Clean Air Acts in 1960s. Lifestyle campaigns against binge drinking or unprotected sex, and for healthy eating eg 5 a day