Intro to Medicine Cheat Sheet

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by RainyMoons (RainyMoons) via cheatography.com/153402/cs/44254/

Overview		Historical Development of Medicine (cont)		Historical Development of Medicine (cont)	
Defini- tion:	Medicine is the science and practice of diagnosing, treating, and preventing disease. It encompasses a wide range of health care practices evolved to maintain and restore health by the prevention and treatment of		Chinese Medicine: Traditional Chinese Medicine (TCM) involves practices like acupun- cture and herbal medicine, rooted in the concept of balancing the body's vital energies (Qi).	20th Century: The discovery of antibiotics, the development of vaccines, and advances in medical imaging (X-rays, MRI) drastically improved disease prevention, diagnosis, and treatment. Basic Sciences in Medicine	
Scope:	illness. Medicine includes a variety of practices aimed at promoting health and managing disease, ranging from general practice to	Medieval and Renais- sance Medicine:	Islamic Golden Age: Scholars like Avicenna (Ibn Sina) advanced medical knowledge, particularly in pharmacology and anatomy.	Anatomy:	Definition: The study of the structure of the human body. Key Areas: Gross anatomy (study of large body struct-
_	ranging from general practice to specialized fields such as surgery, internal medicine, pediat- rics, psychiatry, and more.		European Renaissance: The revival of learning led to signif- icant advances in anatomy (e.g., Vesalius) and the develo-	tissues), and em (study of the dev	ures), histology (study of tissues), and embryology (study of the development of the body from fertilization to birth).
Historical I Ancient Medicine:	Development of Medicine Egyptian Medicine: Early practices included herbal	Modern Medicine:	pment of new surgical techni- ques. 19th Century: The discovery of germs by Louis Pasteur and Robert Koch revolutionized the understanding of infectious diseases. The development of anesthesia and antiseptic techniques transformed surgery.	Physio- logy:	Definition: The study of how the body and its systems function.
	remedies, surgery, and the belief in supernatural causes of disease.				Key Concepts: Homeostasis (the body's ability to maintain a stable internal environment),
	Greek Medicine: Hippocrates, often considered the "Father of Medicine," emphasized natural causes of disease and				organ systems (e.g., cardio- vascular, respiratory, nervous), and cellular processes.
	introduced the Hippocratic Oath. Galen, another key figure, contributed to unders-			Bioche- mistry:	Definition: The study of the chemical processes within and related to living organisms.
	tanding anatomy and physio- logy.				Key Topics: Enzyme function, metabolism, genetic material (DNA/RNA), and molecular biology.
				Pathology:	Definition: The study of disease, its causes, and its effects on the body.

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Basic Scie	nces in Medicine (cont)	Clinical M	edicine (cont)	Clinical Medie	cine (cont)
	Subfields: General pathology (study of disease processes), systemic pathology (study of diseases affecting specific organs or systems), and forensic	Surgery:	Diagnostic Techniques: Physical examination, imaging (X-rays, CT scans), and laboratory tests. Definition: The branch of medicine that involves the	Obstetrics and Gynecology (OB/GYN):	Definition: The medical specialty dealing with childbirth and the care of women's reproductive systems.
	pathology (determining causes of death). Definition: The study of microo-		physical intervention on tissues to treat disease, injury, or deformity.		Obstetrics: Focuses on pregnancy, childbirth, and the postpartum period.
iology:	rganisms, including bacteria, viruses, fungi, and parasites, and their role in disease.		Types: General surgery, orthopedic surgery, neuros- urgery, cardiothoracic surgery,		Gynecology: Covers all other aspects of women's reproductive health, including
	Key Areas: Infection control, immunology (the immune system		and minimally invasive techniques like laparoscopy.		menstruation, contraception, infertility, and menopause.
	and its response to pathogens), and antibiotic resistance.		Advances: Robotic surgery, transplantation, and regene-	Psychiatry:	Definition: The branch of medicine focused on the
	Definition: The study of drugs and their effects on the body.	Pediat-	rative medicine. Definition: The branch of		diagnosis, treatment, and prevention of mental,
	distribution, metabolism, and excretion; mechanisms of action; therapeutic uses; and adverse effects.	rics:	medicine dealing with the health and medical care of infants,		emotional, and behavioral disorders.
			children, and adolescents. Key Areas: Growth and develo- pment, vaccination, pediatric diseases (e.g., congenital disorders, infectious diseases),		Key Areas: Mood disorders (depression, bipolar disorder), anxiety disorders, schizophrenia, substance abuse, and psychotherapy.
Internal Medicine:	Definition: The medical specialty dealing with the prevention, diagnosis, and treatment of adult diseases. Subspecialties: Cardiology, gastroenterology, endocrino-		and pediatric oncology.	Emergency Medicine:	Definition: The medical specialty involving the care of patients with acute illnesses or injuries that require immediate medical attention.
	logy, nephrology, and more.				

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	ining (cont)	Diagnostia			
Clinical Med Key Areas: emergency	Diagnostic Endoscopy				
Diagnostic Methods and Techniques					
Medical Imaging:	X-rays: Used for diagnosing fractures, infections, and tumors.				
	CT Scans: Combines X-ray images to create cross-sectional views of the body.	_			
	MRI: Uses magnetic fields and radio waves to produce detailed images of organs and tissues.	Preventive Preventive Medicine:			
	Ultrasound: Uses high-freq- uency sound waves to create images of organs and structures inside the body, commonly used in obstetrics.				
Laboratory Testing:	Blood Tests: Used to assess overall health and diagnose conditions (e.g., complete blood count, cholesterol levels, blood glucose).	Public Health:			
	Urinalysis: Tests urine for signs of disease, such as				
	infections or kidney disorders. Biopsy: The removal of a small amount of tissue for				
	examination under a microscope to diagnose cancer, infections, and other diseases.				

Diagnostic Methods and Techniques (cont)

Endoscopy:	Definition: A procedure that uses an endoscope to examine the interior of a hollow organ or cavity of the body. Types: Gastroscopy (stomach), colonoscopy (colon), bronchoscopy (lungs).
D	
Preventive Preventive Medicine:	Medicine and Public Health Definition: The medical practice focused on disease prevention and health promotion.
	Key Areas: Vaccination, screening programs (e.g., mammograms, colonosco- pies), lifestyle counseling (e.g., diet, exercise), and public health initiatives.
Public Health:	Definition: The science of protecting and improving the health of populations through education, policy-making, and research.
	Epidemiology: The study of how diseases spread and can be controlled.
	Health Promotion: Efforts to improve health outcomes through education and community-based intervent- ions. Global Health: Addressing
	health issues that transcend

health issues that transcend national boundaries, such as pandemics, malnutrition, and access to care.



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Ethics in Medicine

Medical Ethics:	Autonomy: Respecting the patient's right to make their own decisions.
	Beneficence: Acting in the best interest of the patient.
	Non-Maleficence: "Do no harm"—avoiding harm to the patient.
	Justice: Ensuring fairness in the distribution of healthcare resources.
Informed Consent:	Definition: The process by which patients are informed about the risks, benefits, and alternatives of a treatment, and then give their voluntary agreement to proceed.
	Challenges: Language barriers, cultural differences, and patients' understanding of medical information.
Confid- entiality:	Definition: The ethical duty to protect patient information from unauthorized disclosure.
	Legal Implications: Breaches of confidentiality can lead to legal consequences and loss of trust.
End-of- Life Care:	Key Issues: Euthanasia, physic- ian-assisted suicide, palliative care, and advanced directives.
	Ethical Debates: Balancing the right to die with the duty to preserve life.

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Research in Medicine		Advances in Medicine		Advances in Medicine (cont)	
Clinical Research:	Definition: Research involving human participants to evaluate the effects of medical interv-	Genomics and Person-	Definition: Tailoring medical treatment to the individual characteristics, needs, and		Techniques: Stem cell therapy, tissue engineering, and gene editing (e.g., CRISPR).
	entions. Types: Randomized controlled trials (RCTs), cohort studies,	alized Medicine:	preferences of a patient based on genetic information. Applications: Genetic testing,	Artificial Intell- igence	Applications: Al algorithms for diagnostics, predictive analytics, personalized
	case-control studies, and cross-sectional studies. Ethical Considerations: Informed consent, risk-benefit analysis, and protection of vulnerable populations.		targeted therapies, and pharmacogenomics (how	(AI) in Medicine:	treatment plans, and operat- ional efficiencies in healthcare settings. Challenges: Ethical issues, data privacy, and the need for regulatory frameworks.
			genes affect a person's response to drugs).		
		Teleme- dicine:	Definition: The use of technology to provide medical		
Transl- ational	Definition: The process of applying discoveries from		care remotely. Benefits: Increases access to	Conclusion The study of medicine is a vast and continually evolving field that integrates	
Research:	basic science to enhance human health and well-being. Bench to Bedside: Moving laboratory research into clinical trials and eventually into everyday medical practice.		care, especially in underserved areas, and improves patient		
		convenience. Challenges: Ensuring privacy, maintaining the quality of care,		knowledge from various scientific discip- lines to understand, diagnose, and treat health conditions	
			and addressing regulatory issues.		With its focus on improving individual and public health, medicine combines rigorous
Eviden- ce-Based Medicine	Definition : The conscientious use of current best evidence in making decisions about the	Regene- rative Medicine:	Definition: The branch of medicine focused on repairing or replacing damaged cells,	scientific research with clinical practice, guided by ethical principles and a commitment to patient care	
(EBM):	care of individual patients. Process: Involves integrating		tissues, or organs.		l science advances, ongoing nd innovation continue to
	clinical expertise with the best			transform t	the landscape of healthcare,
	available research evidence and patient values/prefe-			offering new opportunities to enhance health outcomes and quality of life	
	rences.				

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