

CARDIO
ECG Lead Placement

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CARDIO
Reading an ECG

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CARDIO
Common ECG Rhythms

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CARDIO
Heart Sounds and Murmurs

Murmur	Location	Timing	Character
Aortic Regurgitation	2nd ICS, Right	Diastolic	Blowing
Aortic Stenosis	2nd ICS, Left	Systolic	Echocyclical
Mitral Regurgitation	5th ICS, Left	Diastolic	Blowing
Mitral Stenosis	5th ICS, Left	Diastolic	Diastolic rumble
Tricuspid Regurgitation	5th ICS, Right	Diastolic	Blowing
Tricuspid Stenosis	5th ICS, Right	Diastolic	Diastolic rumble
Pulmonic Regurgitation	2nd ICS, Left	Diastolic	Blowing
Pulmonic Stenosis	2nd ICS, Left	Systolic	Echocyclical

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CARDIO
Coronary Blood Flow

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CARDIO
Pulse Locations

Pulse	Location	Character
Carotid	Carotid artery	Strong, bounding
Radial	Radial artery	Normal
Ulnar	Ulnar artery	Normal
Brachial	Brachial artery	Normal
Femoral	Femoral artery	Normal
Popliteal	Popliteal artery	Normal
Tibial	Tibial artery	Normal
Dorsalis pedis	Dorsalis pedis artery	Normal
Posterior tibial	Posterior tibial artery	Normal

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CARDIO
Heart Anatomy

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CARDIO
ECG Locations & Interpretation

Lead	Location	Interpretation
I, II, III, aVR, aVL, aVF	Limbs	Lead II = Lead I + Lead III
V1, V2, V3, V4, V5, V6	Chest	V1-V2: Right ventricle; V3-V6: Left ventricle

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CARDIO
Hemodynamics Equations and Normal Values

Parameter	Equation	Normal Value
Flow	$Q = \Delta P / R$	5 L/min
Resistance	$R = \Delta P / Q$	1200 dyne/cm ⁵
Pressure	$\Delta P = Q \times R$	100 mmHg

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RESPIRATORY
Respiratory Anatomy

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RESPIRATORY
Normal and Abnormal Breath Sounds

Sound	Location	Character
Normal	Apical	Crackles, wheezes
Abnormal	Basilar	Rales, rhales

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RESPIRATORY
ABG Chart

Parameter	Normal Range
pH	7.35-7.45
PaCO ₂	35-45 mmHg
PaO ₂	80-100 mmHg
HCO ₃ ⁻	22-28 mEq/L
Base Deficit	±2

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RESPIRATORY
Respiratory Assessment

Assessment	Normal	Abnormal
Rate	12-20	>20 (tachypnea)
Rhythm	Regular	Irregular
Depth	Normal	Shallow (hyperventilation)
Quality	Clear	Crackles, wheezes

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NEURO
Brain Anatomy

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NEURO
Cranial Nerves

Cranial Nerve	Function
I (Olfactory)	Smell
II (Optic)	Vision
III (Oculomotor)	Eye movement, pupil constriction
IV (Trochlear)	Eye movement
V (Trigeminal)	Facial sensation, chewing
VI (Abducens)	Eye movement
VII (Facial)	Facial expression, taste
VIII (Vestibulocochlear)	Hearing, balance
IX (Glossopharyngeal)	Taste, swallowing
X (Vagus)	Heart rate, breathing, digestion

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NEURO
Cerebral Nerves

Cerebral Nerve	Function
I (Olfactory)	Smell
II (Optic)	Vision
III (Oculomotor)	Eye movement, pupil constriction
IV (Trochlear)	Eye movement
V (Trigeminal)	Facial sensation, chewing
VI (Abducens)	Eye movement
VII (Facial)	Facial expression, taste
VIII (Vestibulocochlear)	Hearing, balance
IX (Glossopharyngeal)	Taste, swallowing
X (Vagus)	Heart rate, breathing, digestion

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NEURO
Brainstem Anatomy

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NEURO
Cranial Nerve Assessment

Cranial Nerve	Assessment
I	Sniff test
II	Visual acuity, pupillary reflexes
III	Eye movement, pupillary reflexes
IV	Eye movement
V	Facial sensation, jaw strength
VI	Eye movement
VII	Facial expression, taste
VIII	Hearing, balance
IX	Taste, swallowing
X	Heart rate, breathing, digestion

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NEURO
Stroke Symptoms and Localization

Symptom	Localization
Face drooping	Motor cortex
Arm weakness	Motor cortex
Leg weakness	Motor cortex
Speech difficulty	Broca's area
Parietal lobe	Somatosensory cortex
Frontal lobe	Executive function
Occipital lobe	Visual processing
Temporal lobe	Language, memory

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NEURO
Glasgow Coma Scale (GCS)

Eye	Verbal	Motor	Total
4	5	6	15
3	4	5	12
2	3	4	9
1	2	3	6
1	1	2	3

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NEURO
Stroke Medical Orders

Order	Priority
Stroke protocol	High
NIHSS	High
CT scan	High
IV tPA	High
Anticoagulation	High
Stroke team consult	High
Other medical orders	Low

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NEURO
Neurological Exam

Exam	Normal	Abnormal
Motor	Strength	Weakness
Sensory	Normal	Altered
Reflexes	Normal	Hyperreflexia
Coordination	Normal	Ataxia
Consciousness	Alert	Altered

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NEURO
Neuro Assessment and Diagnostic Assessment

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NEURO
Psychology Interview

Question	Answer
What is your name?	John Doe
How old are you?	35
Where were you born?	New York
What is your occupation?	Teacher
How long have you been in the hospital?	3 days
What is your chief complaint?	Depression
How long has this been going on?	6 months
What makes you think you have this problem?	Loss of interest in life
How does this affect your daily life?	Can't get out of bed
What have you tried to do to feel better?	Nothing
Do you have any other symptoms?	Weight loss
Do you have any thoughts of suicide?	No
Do you have any thoughts of harming others?	No
Do you have any past psychiatric history?	No
Do you have any family history of mental illness?	No
Do you have any current medications?	No
Do you have any allergies?	No
Do you have any other medical conditions?	No
Do you have any other questions?	No

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PSYCHIATRY
Psychiatric Interview History

Question	Answer
What is your name?	John Doe
How old are you?	35
Where were you born?	New York
What is your occupation?	Teacher
How long have you been in the hospital?	3 days
What is your chief complaint?	Depression
How long has this been going on?	6 months
What makes you think you have this problem?	Loss of interest in life
How does this affect your daily life?	Can't get out of bed
What have you tried to do to feel better?	Nothing
Do you have any other symptoms?	Weight loss
Do you have any thoughts of suicide?	No
Do you have any thoughts of harming others?	No
Do you have any past psychiatric history?	No
Do you have any family history of mental illness?	No
Do you have any current medications?	No
Do you have any allergies?	No
Do you have any other medical conditions?	No
Do you have any other questions?	No

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PSYCHIATRY
Common Signs of Abuse

Sign	Abuse
Unexplained injuries	Physical
Substance use	Substance
Self-harm	Self-harm
Isolation	Emotional
Depression	Emotional
Anxiety	Emotional
Low self-esteem	Emotional
Difficulty trusting others	Emotional
History of trauma	Emotional
History of violence	Physical
History of sexual abuse	Sexual
History of neglect	Physical
History of neglect	Emotional
History of neglect	Sexual
History of neglect	Substance

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PSYCHIATRY
Common Signs of Abuse

Sign	Abuse
Unexplained injuries	Physical
Substance use	Substance
Self-harm	Self-harm
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History of neglect	Physical
History of neglect	Emotional
History of neglect	Sexual
History of neglect	Substance

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LABS
Vital Signs and Conversions

Vital Sign	Normal Range	Conversion
Temperature	36-38°C	98.6-100.4°F
Heart Rate	60-100 bpm	60-100 bpm
Respiratory Rate	12-20 rpm	12-20 rpm
Blood Pressure	120/80 mmHg	120/80 mmHg
Saturation	95-100%	95-100%
Weight	150 lbs	68 kg
Height	5'10"	178 cm

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LABS
Common Labs

Lab	Normal Range
WBC	4,000-11,000
RBC	4.5-5.5
Hemoglobin	12-16
Hematocrit	37-47
Platelets	150,000-400,000
PT	11-13
APTT	28-35
BUN	7-20
Cr	0.6-1.2
Glucose	70-100
Cholesterol	125-200
Triglycerides	10-150
ALT	7-56
AST	10-40
ALP	40-120
GGT	0-40
Amylase	30-110
Lipase	0-160
Urea Nitrogen	7-20
Creatinine	0.6-1.2
Calcium	8.8-10.2
Phosphorus	2.5-4.5
Magnesium	1.7-2.2
Sodium	135-145
Potassium	3.5-5.0
Chloride	98-108
Bicarbonate	22-28
Uric Acid	3.5-7.0
Prothrombin Time	11-13
Partial Thromboplastin Time	28-35
Fibrinogen	200-400
D-Dimer	<0.5
Procalcitonin	<0.1
Interleukin-6	<10
Interleukin-10	<10
Tumor Necrosis Factor-α	<10
Interferon-γ	<10
Interferon-β	<10
Interferon-α	<10
Interferon-λ	<10
Interferon-ε	<10
Interferon-δ	<10
Interferon-ζ	<10
Interferon-η	<10
Interferon-θ	<10
Interferon-ι	<10
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Interferon-ξ	<10
Interferon-ο	<10
Interferon-π	<10
Interferon-ρ	<10
Interferon-σ	<10
Interferon-τ	<10
Interferon-υ	<10
Interferon-φ	<10
Interferon-χ	<10
Interferon-ψ	<10
Interferon-ω	<10

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LABS
Other Labs

Lab	Normal Range
Prothrombin Time	11-13
Partial Thromboplastin Time	28-35
Fibrinogen	200-400
D-Dimer	<0.5
Procalcitonin	<0.1
Interleukin-6	<10
Interleukin-10	<10
Tumor Necrosis Factor-α	<10
Interferon-γ	<10
Interferon-β	<10
Interferon-α	<10
Interferon-λ	<10
Interferon-μ	<10
Interferon-ν	<10
Interferon-ξ	<10
Interferon-ο	<10
Interferon-π	<10
Interferon-ρ	<10
Interferon-σ	<10
Interferon-τ	<10
Interferon-υ	<10
Interferon-φ	<10
Interferon-χ	<10
Interferon-ψ	<10
Interferon-ω	<10

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Medical Students Pocket Reference

LL Leslie



Medical Students Pocket Reference:

Unveiling the Magic of Words: A Review of "**Medical Students Pocket Reference**"

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