ACID/BASES

- * Rule of Bis: if pH & Bicarb are Both same direction -> meta Bolic
- * As the plf goes, so goes the pt (besides kt)
- * Mackussmaul = M (metabolic) ac (acidosis)
- * Everything that isn't lung or vamitting /suctioning it is metabolic acidosis.

ALCOHOLISM -----

- * When pt in denial, look at cause. A buse = confront. Loss = support.
- * Wernicke's (korsakoff) syndrome = psychosis d/t vitamin B1 (thiamine) deficiency - Climnesia w/ confabulation
 - vsvally permanent redirect
- * Revia/Antalouse (Disulfiram): Aversion Therapy - 2 weeks onset/duration
- * All abused drugs are an upper or downer
 - uppers (5): caffiene, cocaine, PCP/LSD, Metham., adderall
 - downers (135): everything else

νS

- withdrawal (too little) or OD (too much)
- → upper OD = withdrawal downers >> goes UP, seizure risk
- → downer OD = withdrawal uppers >> goes Down, resp. arrest

DTs

* Babies: assume intoxication at birth, withdrawal after afthrs

regular dilet

X

Somi private anywhere

AWS

up, at liberry

no restraints (not a danger to self or others)

NPO, clear liquids seizure risk

private room dangerous & noar nurses station unstable

Restricted, bed rest

restrained, either vest or 2 point (1 kg, 1 orm) locked learners

BOTH AWS + DTs: anti-HTN, vitamin B1, tranquilizer

b/c withdrawal from dawner

PRUGS

* Aminoglycoside = A mean old mycin

resistant, serious, gram-neg infections

- all end in - mycin lexcept for 3... "inro" memoff the list)

- "mice" = ears ⇒ ototoxic (cranial nerve8)

(⇒ Q 8HR IM or IV

Ly kidney => nephrofoxicity Creatinine = best indicator of renal func.

- PO only 2 cases: hepaths encephalopathy - kills exall that produces ammonia pre-bowel surgery-kills backeria in bowel

Neomy an 2 Kanmyan = bound sterilizers ino systemic effects)

* TAP levels = Trough, Admin, Peak

	ROUTE	TROUGH	PEAK
•••	subtingual	30	5-10 after dissolved
	IV	30	15-30 after finished
	IM	30	20-60 after injection
	SUbQ	30	SEE : Diabetes (b/c insulin)
	PO	30	N/A (too variable)

CAT CHANNEL BLOCKERS

* Valium for the heart -> brings it down to negative instropic,

* Three A's: Antihyportensive

Chronotropic, oromotropic

Anti Angina Anti Atricul Arrhythmic - aflutter /afib

* SES: HA, Hypotension (blc vasodilation) -> so watch for dizziness

-> We're dipine in the Calcium Channel (verapamil/ & cardizar

HEART RHYTHMS

* WORD MEANING Ventricular "a lack of QRS" = asystale QRS depol. p wave atrial Flutter "Isaw the tooth I my heart did flutter" Saw toom "periodic wide, bizarre QRS's" Chaotic Fibrillation tachycardia = PVC'c bizarre * Frow by sight: NSR > V-fib chaotic MmMMMMMMMM V-tach Sharp, pattern LETHAL a-systole from Schaotic a-fib a-flutter from my my -saw took * PVC's concerning if: >6/min, >6 in arow, PVC falls on t-wave -> Life threatening vs Lethal V-tach(7-) a systole -> no C.O. a-fib a-flutter * Treatment - PVCs & Vtach → Amiodarone

- Supraventricular -> A adenosine > push fast

 Atrial B beta blocker

 arrythmias C car ch. blocker

 D digoxin/digitalis = lanoxin
- Vfib you Defib
- Asystule Epi Then attropine

CHEST TUBE

- * A. Why it was placed < blood
 - B. Where it is located < aplcal = high = air = apex basinar = 100 = 61000 = base
- assume chest trauma is unilateral unless told otherwise.
- * Bubbles, -> water seal: continuous? BAD.

Suction control chamber: continuous? Good.

straight outh: folly cath 1horacentesis: Chest tube

HEART DEFECTS

* TROUBLE

RL Shunt = trouble Blue = trouble "T" = trouble

- * All CHD kids have: murmur & ECHO.
- * Tetralogy of Fallot:

VarieD Picture S RancH

Ventricular Defect Pulmonary Overriding Right

Stenosis Hypertrophy

Doff GOWN Mask

put an clames, brush teem, put on surgicisses of mask to leave house

CRUTCHES

- * 2-Paint Gait: 2 paints together foot moves w/opp. crutch minor bilateral weakness
- * 3-Point Gait: 3 points touch down together 2 crutches + bad foot
- * 4-Point Gait: Nothing moves together crutch, oppfoct, crutch, foot everything weak. Slow but stable.
- * Swing through: For non-weight baring for two braced extremities, amputees

"Even for even, add for add" How many legs are affected

2 or 4 when weight is evenly distributed my severe ex: 4 = severe bilderal reakness

3 for when one leg is odd ex: one leg is weak

Ex: Beginning rheumatoid amn: a point
L above knee amp: Swing
1st day post op RK replace - partial weight boring: 3 point
Advanced Ctages ALS: 4 point
L hip replace - nonweight: Swing
Bilat knee rep. weight bar Iday Post: 4 point
Bilat knee rep. 3 wks past: 2 paint

* " up with the good, down with the boad"

- crutches always move with the bad leg

- * Cane on strong side. Advance with opp side.
- * walker -> pick up, set down, walk to them
 - tie belongings to Side-not front.
 to move to chair: use chair, stand up, then grab walker

PSYCHOSES

1 Is pt. Non-psychotic vs Psychotic

Insignt (recognizes their) Peoplity-based

No Insight Idenial) Not Reculity bossed

Tx: Therapeutic Cm. (same as everyone)

Tx: Unique, specific strategies

* S/Sx:

- Delusion: false, fixed belief/idea
 - · paranoid/persecutory
 - · grandiose
 - · Somatic (about body 6x: I can see through walls)
- Hallucinations: false, fixed sensory experience
 - 1 auditing (most common)
 - 2. visual
 - 3. foctile
 - 4. gustatory >rare
 - 5. Olfactory
- Illusion: misinterpretation of reality. Sensory.

 referent in reality

smtg to which a person refers... there is smtg There

MORDS:	HALLUCINATION.	ILLUSION:
"Listen, I hear demon voices"	no audible Sound	when nurses at station are laughing.
"LOOK, 1 see a bomb!"	looking at blank wall	when looking at fire extinguisher

3 Types of Psychoses

- 1. Functional (Schizo Caffective, Mayor dep. 2 mainic)
- 2. Dementia (Ex. Alzheimers, Wernickes, Dementia, Syndrome)
- 3. Delirium (temporary l'episodic, <u>secondary</u> dramatic Sudden onset loss of reality d/t chemical imbalance) Lex: upper op, downer windrawal, VTI, post op psychosis, myroid imbalance

3 Treatments:

1. Functional -> Teach Reality:

1. acknowledge feelings 3. set limit
2. present reality 4. enforce limit

2. Dementia -> (annot learn reality 1. acknowledge feelings reality orientation: okay 2. redirect

3. Delirium — >1. acknowledge feeling 2. reassure of safety & temporary hers

* ABN'S most sick personality disorders - functional steps Antisocial, Borderline, Neurotic

* Loosening of associations

1. Flight of ideas: Stringing phrases together. Tangential.

2. Word salad: random words

3. Neologisms: making up new words

** Narrowed self-concept = when psychotic refuses to change their clothes or leave room.

-> b/c they don't know who they outside of the clothas/room * to not make a psychotic do smitg they don't want to

* Ideas of reference = think everyone is talking about you

DIABETES

* DI > polyuria, polydipsia -> dehydration -> d/t law ADH ... high UO, low specific graving (opp: SIADH)

* TYPE I 1. Insulin Dependent 2. Ketosis Prone

TYPE I 1. Non-insulin Dependent 2. Non-ketosis prohe

* S/Sx -> 3 P's polydipsia, polyunia, polyphagia

increased swallowing/ eating * Treatment

MVP
1. Insulin
2. exercise

TI -> w/o They will Diet Insulin Exercise

TI-> W/O Diet Oral Hypoglycamic Activity MVP

* Diet: Restrict cal, 6 small meals

* INSULIN

TYPE	DETAILS:	ONSET	PEAK	DURATION
R	REGULAR Rapid Run (17)	1	2	4
N	NPH NOT in The bog NOT SO Fast NOT CLEAR	6	8-10	12
Humalog	Lispro Fastest W/Meals * not ac!!	15	<i>3</i> O	3
Glargine/ Lantus	Long acting Slow absorbtion Bedtime!!	_	#None { low risk hypoglycen	12-24hrs

* Check expiration *
When closed ... if open, 30 days after opening

- Teach pts to refridgerate insulin at home
- * Exercise potentiates insulin! More exercise = Need less insulin
- Sickdays take insulin, sips of water & stery active

* Ha1c: want <6 ... over 8 is out of control
- average Bs over last 90 days
- a 7 would be they need further investigation/tests

* Acute Complications: TYPEI 1 Low BS / Insulin Shook / Hypogrycemic Crisis -not enough food * too much insulin/medication - too much exercise COLDA CLAMMY - danger: permanent brain damage S/Sx: Drunk, in Shock-V 1000 BP - staggering gait
- staggering gait
- staggering gait
- staggering gait
- tachy phea
- tachy cardia
- delayed rxn time
- cold, pare, clammy
- labele emotions
- motted Rapidly metabolizing carbonydrate (randy, honey) La ideal: Sugar & protein Unconscious = IV D50 or Implucação 2 High BS/DKA/Diabetic coma - too much food - not enough insulin - not enough exercise #1 couse = acute viral upper resp infections last 2 m/s S/Sx: Dehydration Kussmaul Resp. Acidosis Ketones Acetone breath
K+ high Anorexia (d/t N.) In 1000d, confirms Dx Tx: Insulin IV (R) -> 200 mg/hr TYPEII (LOW BS = Same as above) ① HHNK- Hyperosmolar Hyperglycemic non-ketotic Coma → Severe dehydration S/Sx: increased HR, dny, dlc. skin turgor Tx: fluids/rehydration * Long Term Complications: a/t < Paripheral Neuropathy

TOXICITY * Top 5 to know: I. LITHIUM 2. LANOXIN = DIG 3. AMINOPHYLLINE 4. BILIRUBIN 5. DILANTIN 1 Lithium: Anti-mania There is a grey level, but no agreed upon census Therapeutic level: 0.6-1.2 Toxic (evel ≥2 2 Lanoxin/Digoxin/Digitalis L'S go Low Afib & CHF Therapeutic level: 1-2 Toxic level ≥ 2 3 Aminophylline Not branchodilator -> it treats the spasms Therapeuric level: 10-20 Toxic level >20 Toxic (1) Bilirubin waste product for breakdown of RBC's Newborns* Elevated level: 10-20 (usually ~15→ hospitalization) 3 Diantin/Phenytoin Seizures Therapeuric level: 10-20 Toxic level >20 Toxic

* Kernicterus = Bilirubin in the CSF
- happens ~ 20 for newborns

- causes: aseptic meningitis, aseptic encaphalitis

* Opisthotonos = position baloy assumes when They have kernicterus

- hyperextend ... backward arching of head, neck, spine

- have to put them on their side

DUMPING SYNDROME & HIATAL HERNIAS

* Highal Hernia = reguligitation of acid into exophagus d/t upper Stomach hernicites upward thru diciphrogin

-like having 2 chamber stomach

- contents move in wrong direction. Same rate of murnt.

S/SX: GERD when you lie down after eating - position & timing Tx: want stomach to empty faster

1. Position: High before Lafter meals) HI atal. head everything

2. Fluids w/ meal: High

3. Carbs w/meal: High, low protein meals

* Dumping Syndrome = Post-op gastric surgery complication in which gastric contents "dump" into duadenum

- right direction. Wrong rate - too fast.

S/sx: Drunk, in shock... in/ acute abdominal distress

Library cerebral impairment olt blood rushes to abd cramping pain, gaurding, hyperactive (borbarygmy) diarrhea, distension, tenderness

Tx: want storrach to empty slower

1. Position: Low, head flat - lay on side when everything 2. Fluids w/ meal: Low ... before or after meals is low, stomach

3. Carbs (v/ meal: Law ... high provein meals

ELE (TROLYTES

* Kalemias do the Same as prefix except for HR & UO

Hypokalemia

- Brain 1 = Lethargy, Slow, tired, obtunded

- Lungs = bradypnea

- HR= High

-Twaves-depressed, unaul

- Bowel = Constipution

- Muscle = flacidity

- Reflexes = +1

- VO= polyuria

Hyperkalemia

- Brain ↑ = Agitation, Restless Aggressive, I inhibitions
- Lungs = tachy pnea

- HR= IOW

- STS & Twaves = elevated

- Bowel = diarrhea, Borborygmi

- Muscle = Sposticity, 1 tone, clonus

- Reflexes = +3, +4

- UO = LOW, oliquria

This is the most dangerous eigte imbalance b/c can Stop heart!

Focus: Heart

* Colcernias do the opposite of the prefix.

Focus: Skeletal muscle 2 nerves

Hypecalcemia -> neuromuscular irritability 1

Chrostek's sign: Cheek - facial spasm Trouseau's Sigh: BP cuff- carpoul spasm

* Magnesias do the opposite of the prefix.

(but don't choose it in multiple choice, not as common/serious)

* Sodium:

HypEr natremia = dEhydration

- dry, flushed skin
- thready pulse
- rapid the
- can be present during DKA, HNNK

Hyponatremia = Overload

- crackles
- distended neck vein
- Earliest sign of elyle imbalances: numbness & paresthesia bringling
- Universal sign of elyte imbalances: paresis

1 muscle weakness

* Tx for Potassium

- · Hypo ... To Raise:
 - Never push
 - No more than 40mEg of Kt per Liter
- · Hyper... To lower:
 - D5N with insulin (Hides Kt) blc drives potassium into <u>cell</u>. Les temporary
 - Kay excelate: climinates k' from blood/bodys

 5 full of sodium, to avoid hypernatremia give wrfluids
 15 takes hours
 - → so, usually give both!

kt exits Late in Kayexelate

ENDOCRINE - THYROID

- > b/c that's what thyroid * Hypermyraidism = Hypermetabolism regulates - Skinny/weight was -HRLBP=1 - Irritable - Heat intolerance - bic may're already hot! - Cold tolerance - diarrhea -> Exopthalmos = buiging eyes - AKA: Graves Disease ... "run yourself into the grave" - Tx Options: 1. Radio active iodine - pt isoluted for 24 hours - Careful with urine, private room 2. PTU: puts thyroid under - cancer drug → immunusuppression - watch WBC's! 3. Surgery: Myroidectomy -riskfor: thyroid storm total or subtotal S/sx: 1. super high temp >105 2. Super high BP -lifelong replacement -risk of: hypocalcamia 3. Severe tachy cardia (b/c Parathyroid hard)
to spare 4 psychotic delirium - Post-Op Risks: Tx: I Temp & 10a · first: (a packs · First 12 Hrs: Airway/Breathing Hembarrage · best : cooling blanket · O2 10L oxygen mask o self limiting condition, do not want to give drugs. TOTAL = TETANY (a/t & Cat) · 12-48 Hrs: SUBTOTAL = STORM · After 48 ths: Infection * Hypothyroid = Hypometabolism - Cold'intolerance - b/c already - Overweight CO/d! - flat affect, slow - Heat tolerance - BPLHTR L - AKA: Myxedema Lewhyroxine .(sÿnThoid). - Tx: Tyroid harmone replacement LISE'S: hyperthyroid S/Sx - COUTION: DO NOT SEDATE! - They're already sedated DO NOT had thyroid pilk unless expressly stuted

4 even when NPO!

ENDOCRINE - ADRENAL CORTEX

* Names Start with A or C

* ADDISON'S - under secretion very rare a very serious

Remember: Stress Response purpose is to raise BP & glucose

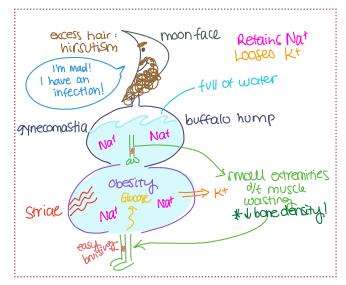
- S/Sx: Hyperpigmented of Do Not adapt to stress

- Tx: grucocorticoids - poes not take much to go into shock "-sone" "Addison's you add a -sone"

* CUSHINGS - oversecretion

"cushy" = more

- S/Sx:



"Cushing Man"

moon face
hirsuthsin
Irritability
immunosuppression
gyneco mastic
buffallo hump
water retention
sodium retention
Potassium expulsion
muscle wasting
I bone density
Uboseity
Increased glucose
striae
Easy bruising

- Tx: Adrenalectomy ... se can be addisons then need steroids ... se: cushings sx

TOYS

* Three things to consider:

(i) Is it safe?

② Is it age appropriate?

3) Is it feasible? AKA can you do it,

SAFETY

- no small toys <4 - no metal if 02 in use

- beware of formites: nonliving object that harbors microorgis

AGE	YOT
0-6mo	musical dy sensory or softly mobile motor large
6-9 mo	cover of teaching or large of uncover object or large of firm

79mo NEVER: Build, Sort, Stack, Make, Construct

Lo wood/hard plastic

9-12mo	talking d/t vocalization or smtg purposeful
1-340	push- dit working on parallel pill arose motor play (no tringer dexterity)
Preschool	balance L pretend cooperative finger dexterity pretend play
School age (7-11)	30's: Creative, competitive, competitive
Adolescent	peer Let them 1)<12 hrs post op grovp hang out 2) immunosuppressed ussociation unless: 3) contagious disease

LAMINECTOMY

* Removal of: lamina = vertebral spinus processes

- the posterior processes, bumps you feel

- Why: to relieve nerve root compression

- S/Sx of Nerve Root comp: Pain, Paresmesia, Paresis

* Pay attention to location in Neuro Q's *

- Locations: Cervical (neck), Thoracic, Lumbar

PRE-OP checks

POST-OP

Cervicul - Diaphragm of Arms

Thoracic - abdominal : cough & bowers

Lumbour -> bladder & legs check ability to void / v0 # answer: LOG POLL

- Activity:

Do not dangle/sit on side of bed

· Allowed to walk, sit, stand, lie down

Limit Sitting 20-30min

- Complications:

· C: pneumonia

· T : pneumonia & paralytic ileus

· L: urinary retention, leg problems

* Anterior Thoracic will have thest tubes ble goes through chest

* Laminectomy w/fusion takes bone graft from iliac Crest.

-Site with most: Pain = Hip Bleeding = Hip · RISK for infection = Equal, hip & spine

· aisk for rejection = spine

-surgeons using cadavar bones to eliminate hip surgical site.

* Discharge Tx:

6 weeks

- Do not Sit > 30 min

- Lie flat, log roll - Do not lift >5165 Parmanent

- Have to lift objects wy knees (not tips)

- Corvical: can not lift anything over head

- No horseback riding, amusement park rider, etc

LAB VALUES-

* LEVELS:

A. Abnormal but ... not super high priority

B. Bystander, not much you cando. Monitor.

C. Critical. need to report, do smtg.

D. Deadly. Have to intervene.

NAME	VALUE	LEVEL	NOTES
Creatinine Best indicator of renal func.	0.6-1.2	A	
measures commadin/war.	2-3	Z4=C	1. HOLD coumablin 2. ASSESS for breeding 3. PREPARE vitamink 4. CALL Dr
K.†	3.5 - 5	C >6=D	Low: 1. ASSESS heart 2. PREPARE to give K* 2. ASSESS heart 3. CALL Dr. 3. PREPARE DSW/ kayexelate 3. Overything STAT! 4. CALL Dr
PH	7.35-7 .4 5	≤6=D	1. Oneck vital signs 2. call Dr.
nitragen waste BUN products	8-18	В	Check for dehydration
140%	12-18	8-11:18-	-> Assess for anomica
Hgb	W-10	<8:C-	- Assess for bleeding, Prepare to admin blood, Call Dr
HCO3	22-26	A	
CO2	85-45	50'S: C.	- Assess Resp., do pursed lip breathing - Assess, prepare to intubate I ventilate. Call RT first, Then PCP illure Levels can do pursed breathing to wanxiety

HCt	3x Hgb 36-54	↑= B -	- Assess dehydro	ttion
pOa	80 -100		, ASSESS (ESP- GiVE , ASSESS, prepare to intubal	edventilate. Call RT first, Then PCP
			give 02 to vankit	ety, could help
Sa 02	93-100	C,2	Kind of.	What is neutropenic precautions? aka Reverse/Protective Isolation Strict hand washing Shower BID with antimicrobial soap Avoid crowds
BNP indicates CHF	<100	В		Private Room Limit number of staff entering room Limit visitors to healthy adults No fresh flowers or potted plants Low bacteria diet: no raw fruits, veggies, salads or undercooked meat
Nat	135-145	B <u>ALOC=</u> C	high - denydration 10 w - over 10ad	Do not drink water that has been standing for longer than 15 minutes Vital signs (temp) every 4 hours Check WBC (ANC) daily Avoid use of indwelling catheter Do not re-use cups must wash between uses Use disposable plates, cups, straws, utensils Dedicated items in room: stethoscope, BP cuff, Thermometer, gloves
WBC	TOTAL: 5-11K ANC >500 Absolve neutrophils CD4 >200	C	- ASSESS for S/Sx info - Put on neutropeni	low NBC Leuk openia Neutro penia Agranulocytosis Leuk openia Neutro penia Agranulocytosis Mamunosuppression Bone Mainzon Suppression
PLTs	150-400K	<90k=C	What is bleeding precautions? No unnecessary venipuncture- injection or IV Handle patient gently (use drawsheet) Use electric razor No toothbrushing or flossing No hard foods Well-fitting dentures Blow nose gently No rectal temp, enema, or suppository	V
RBCs	4-6mill	B	No aspirin No contact sports No walking in bare feet No tight clothing or shoes Use stool softener. No straining Notify MD of blood in urine, stool	
The 5	D,Z:K	or ph	in the 6's	
	PCC	Da orpC	12 in (00's	

米 plts <40k

PSYCHOTROPIC DRUGS

* All psych drugs cause: Hypotension & weight changes

* Phenothiazines "First Generation" "Typical"

- "zine": thorazine, compazine

- large dose: antipsy choic small dose: antiemetic

major tranquilizers

aminoglycosides: Mbx

phenomiazides: Tranquilizers

- SES:	A - Anticholinergic (dry mouth) B - Blurred vision C - Constipction D - Drowsiness E - EPS (tremors, parkinsonian) F - "Fotosensitivity" G - a Granulocytosis (1000 W8Cs)
* Tec	ach pt about S/sx of infection
<i>→</i> ∧	JEVER Stop The -zine
* Deconate or 1	"D" = long-acting IM form giving to compliant client
*Tricyclic An	tidepressants most are NSSRI
- Elavi	I, Tofranil, Aventyl, Desyrel mitriptyline evates your mood go to E A - Anticholinergic (dry mouth) B-Blurred vision C - Constipation D - Drowsiness E - Euphoria
	minor tranquilizers what do you find at Ledzepplin concert? A bunch of minors on tranquilizers
	ype: Valium, diazepann, larazepann
- Indico	tions: Induction of anostnesia (pre-Op) - Muscle -relaxant - Alcohol withdrawal - seizures - Heyps those fighting ventilator
- Work	- quickly, dont take > 6 wks
can't be cone	Heparin: councidin > can transition to 2 take ference
- SE'S:	A - Anticholinergic (dry mouth) B-Blurred vision C-Constipation D-Drowsiness

* MAO Inhibitors Antidepressanta

- MARplan, NARdil, PARnate
- SE'S:

A - Anticholinergic (dry mouth)

B-Blurred vision Safety

D-Drowsiness

- PT TEACHING

- to prevent severe, acute, potentially factual HTN crisis

-NO TYRAMINE DIET:

fruit salad BAR: bananas, avocados, raisins

no organ matt: liver, kidney, heart presented meats: smoked, cured, dried, pickled , hot dogs

no yegust or choose (besides moz & cottage chz)

no alcohol, clixirs, caffiene, chocolate, licorice, soy sauce

* LITHIUM an electrolyte... used for Bipolor disorder - mania

Peeng (Polyuricu) - SE's: 3 P's ble earliest sign of all elyte in balances Pooping Paresthesia (tingling, numbress)

- Toxic: tremors, metallic taste, severe diarrhea, Larry other neuro movie

*#INI: Good fluid hydration
if sweating -> give sodium DO NOT SHE WATER oftre gatorade or other elyte soln monitor Nort Levels

* PROZAC SSRI

* bluck box warning *
for ad. LYA Ding dose

- Similar to Elavil
- Antidepressant

- SE'S : A - Anticholinergic

B - Blurred victor

E - Euphoria

give before Causes insomnia

*a lot of OTC meds are

incompatible

alldry

- Constipution - Drowsiness

* Haldol (Haloporidol) - tranquilizer (has D form)

- SE'S A - Anticholinergic (dry mouth)

B-Blurred vision

C - Constipation

D-Drowsiness

E-EPS (tremors, parkinsonian)

F - "Fotosensitivity"

GI - a Granulocytosis (1000 WBCs)

- NMS: Neuroleptic Malignant Syndrome

-> from overdose

- potentially fatel hyperpyrexic >104°F!

- Dose of elderly pt should be 12 of adult duse

* Clorazil (Clozapine) Atypical Antipsychotic

- for severe schizophrenia

new class for the zamy.

Typical Ist

Gen

-> Does not have SE'S OF A-F

- Do not confuse w/ K lonopin (clonazepam)

- SE's: Agranulo cytosis (severe) "trushes your bone marrow"

* Geodon

- prolongs OT interval & can cause sudden cardiac arrest.

* 20(off (Sertaline) SSRI

- also causes insomia, but can give at beathing

* Interactions: St. Johns Wort (serotonin Syndrome)
Wurfarin (bleeding risk)

- SE'S: SAD HEAD
Sweating
Apprehensive - impending sense of doorn
Dizzy
Headache

Zines = typical, old time, antipsychotics zapines = new, atypical antipsychotics ZEPS = minor tranquilizers

MATERNITY

* Due Date: Nagele's Rule:

ex: Jan 26 -> NOV 2 June 10-March 17

* Weight gruin = 28 ± 3

1st Trimester: one pound each month = 3165 2nd Trimester: one pound per week

WKS Gain

$$12 = 3 \text{ lbs}$$
 28 WKS ,

 31 st WK

* Fundus: not palpable until WK 12

at belly button / umbilious -> 22 wks

:...Viability: 22-24WKS end of 2nd

* Positive Signs of Pregnancy: have a fallel positive

- Fetal skeleton on x-ray

- Fetal presence on vitrasound

- Auscultation of fetall heart rate (8-12 wks)

- Examinar polipores fetal mymt/outline

- Quickening = Kicking, range 16-20 wrs

- First : 16WKS

- Most likely: 18 nks - Should by: 20 wks

* Muyhes - the probable/presumptive signs:

- all urine/blood testa Chadwicks - color A of Cervix to cyanosis - Godells - cervicul softening Hegars - vierine surrening

D/t ture being ranges for everything OB read Q's very carefully - First... - Must likely -Should.

- First: 8 WKS

- Most likely: lowks - Should by: 12 WKS

Auscultate Fetal heart:

* Good prenatal care: Once a month until WK28
28-36 = Once every 2 WK
>36 = Once every WK
at 42 = consider induction

- Hab will fall blo 1 blood volume! $1^{St} = 11$ is normal $2^{nd} = 10.5$ is normal $3^{rd} = 10$ is normal
- Morning Sickness

 1st Trimester Dry carbohydrates before you get out of bod

 & avoid empty stomach
- Urinary incontinence 1st & 3rd - void every 2 hrs
- Difficulty breatning 2nd & 3rd Tripud position
- Back pain 2nd & 3rd - Felvic tilt exorcises put foot on stool Then back again
- * Signs of Labor: #1 onset of regular contractions -> most valid * progressive Sign
 - Dilation: opening of cervix (0-10cm)
 - Effacement: thinning of corvix (thick 100%)
 - Station: rinsp of fetal presenting part to momis ischial spine
 - negative presenting point above spine
 - positive presenting part below spine

engagement station zero

narrowest pourt of pelvis baloy hows to fit Through fit Through positive #5 are reg. News positive #5 are pos. news

- Lye: the rinsp bown spines of man & barby
- Presentation: part of baby that enters birth canal first

* Stages of Labor (4)

- Stage One: Labor

purpose of uterine contractions:

SI:

Phases: Latent, Active, Transitional dilute & efface Cervix

- Stage Two: Delivery of Barry

SZ: Push out baby

- Stage Three: Delivery of Placenta S3: Push out placenta
- Stude Four: Recovery (First 2 hrs) S4: Stop bleading

post partum Starts 2 hrs after delivery of Placenta.

* LABOR CHART

PHASE	LATENT	ACTIVE	TRANSITIONAL
Cm Dilated	0-4cm	5-7cm	8-10cm
CXN freq	5-30 min	3-5 min	2-3 min
Duration	15-30 sec	30 - 60 sec	60-90sec
Intensity	mild	moderate	Strong

* 3 column sequential table

* memorize middle column - active!

contractions should NOT be >90sec & cluser man amin

> 4 sign of uterine tetany vierine hyperstimulation parameters to stop pitocin

* Contractions

- Frequency: Beginning of one to the beginning of next.
 Duration: Beginning to end of one
- Palpate with one hand over fundus w/pads of fingers

* Complications:

- 18 complications, 3 protocols
- 1) Painful back labor "Op" at the end
 - Position knee to chest, then put her on her back
 - Push on sacrum to relieve pressure
- 2 Prolapsed cord high priority
 - Push head off cond
 - Position knee chest
- 3 All other complications
 - L Left side

 - I Increased IV O Oxygenate N Notify Physician
- · In OB crisis, if PITocin is running, Stop it

* Pain meds in Labor

- Do not administer pain med to a woman in labor If baby is likely to be born when med peaks

ex: primigravida at 5cm want) IV pain med Likely to deliver in next 15-30min? NO

Multigravida at 8cm wants Im pain med Likely to deliver in next 30-60 mm? YES

POSTPARTUM

* Fetal Heart Rate

LOW Fetal HR (<110) = Bad->LION

High fetal the (7160) = Fine - take momistemp

Low baseline variability = Bad - LION HR Steys The same

High baseline variability = Fine -> document

Late decelerations = Bad - LION
the slows down during /after

Early deceleration = Fine - document

- <u>Variable</u> deleterations = <u>VERY</u> bad - prolapsed (ord.

Push & Position

Variable = Cord compression

Early = Head compression

A received = 0 kay

Lave = Placental insufficiency

* Second Stage: Delivery

- 1. deliver head
- 2. Suction mouth knose
- 3 check for nuchal cord
- 4. deliver shoulders & body
- 5. make sure boiling has 10 band

- * Third Stage: Placenta
 - 1. Make sure it's all There
 - 2. Check for 3 vessel cord AVA, 2 aneries

* Fourth Stage: Recovery

4m stage

- 1. VS (S/SX OF Shock, BPI HRT)
 2. Check fundus (if boggy-massage, catheterize)
- 4 things to do 4 times an hour
- 3. Check pads (excessive -> 15 min or cess)
- 4. ROII to side (check bleeding under paul)

* Post partum assessment

B recers

· firm - if not, massage

V terine fundus - want . 2 midline - or converize

B ladder

· height fundal height = day PP

Bowel Lochia - rubra, cerasa, alba

E pisiotomy rub, rub=red rosy albino=white

H ab/Hct

Extremities - thromosphebitis half circumference, dustal pulses)

A ffect

D iscomforta

* Difference botwn

- Cephalohematoma swelling caused by bleading boom a stium of periosteum of skull.
- Caput succedeneum = C.S. → crosses sutures Caput Symmetrical edematous swelling on scalp caused by pressure during birth. usually disappears in a few days

* Normal:

- Hyperbitirubinemia normal, appears cetter 24 hrs & disappears in ~ I week
- Vernix Cas tosa whitish cheese-like substance which a ppeals intermittenty over first 7-10 days

AR MED	
OB MED	S
* Torr	Justics = Stop labor

- * rowights stop law
 - Tabutaline fachy cardia
 - Mag. Sulfate as mag goes up, body goes & ormal=2
- * Oxytocics = stimulate labor
 - Pitocin uterine hyperstimulation (>90sec, (loser 2min)
 - Methargine high BP
- * Petal Lung Maturers
 - Betamethasone = given to momer, IM, before birth
 - Survanta = surfactant. Given to baby, transtrached

MED TIPS

* Insulin: Nicole Richie, RN - Draw up total amt air

- put air into N - put air into R

- draw R - draw N

* Injections: IM - both parts have I (alg, 1in)

SQ - S= 5, both parts have 5 (25g, 5/8 inch)

* Haparin & Coum adi~

Heparin

- IV or SQ
- im mediate
- max 3 ms (except (ovenox)
- Anti = Protamine Sulfate
- PH < 100ks (ref)

Coumadin

- PO
- takes days INK
- Can take for ever
- Anti: Vitamink (kfor kouncodin)
- INR (pt)
- (an not be pregnant woman

- Only major trains that can be given to pregnant women...

* Diviences: Any ending in x ... exis out k ... wastes it plus diaril ex: Bumex

- Everything else - Spares

* Muscle Relaxants: SE = fatigue, muscle weakness $T_X = don't drink$, drive, op. hoavy mach.

- Flexaril ... get a little more flexible - Baclofen ... you're on your back "loafin"

PEDIATRIC TEACHING

* Piaget's Theory:

- O-240 Sensarimotor present oriented.

 teach as you do it, what you're doing verbally
- 3-640 Presparational fantasy oriented teach shortly before, what you're going to do plays.
- 7-11 yo Concrete 7-11s RULL oriented

 operations teach days ahoud

 what you've going to do, plus skills

 oge appropreading Lalemonstration
- 12-15yo Formal careferent Treat like an adult Operations

PSYCH CMCTN

- know what phase of the rinsp you're in
- Don't accept gifts Keep pt talking
- Don't give advice Don't use slang
- Don't give grantees Empathy you accept their feelings

- Drecognize emportry Dis... Question contains quote Law answer are quotes
- @ Put yourself in pt's shores How would I be feeling?
- 3 Choose answer that reflects that feeling (not the words)

PRIORITIZATION

- You are deciding which patient is sickest or healthirest -> know which one you're looking for
- Info: Age, Gender, Dx & modifying phrase

 Not pertinent information Limost important

1) A cute beats chronic

EX: CHF vs COPD vs appendicitis #1

- 2) Fresh post -op beats medical or other surgical
- 3 Unstable beats Stable

-Always unstable
hemorrhage,
hemorrhage, hypoglycemia,
fever ≥ 104,
pullelessness
or breathlessness

Unstable
- use of word unstable
-acute illness
-post op <12hrs
- general anesthesia
- Changing assessment - "newly admitted, 24hrs
- "newly admitted, 24hr!
"newly diagnosed"
- lab values C/D

Stable

- use of word stable

- chronic illness

- post-op > 12 hrs

- local or regional anesthosia

- unchanged assessment

- phrase "to be discharged"

- Lab values A/B

pts experiencing unexpected atypical S/Sx, complications

-> pts experiencing typical/expected S/Sx of their diagnosed disease (I for which they're receiving tx)

* TIEBREAKER:

The more vital the organ, the higher priority

Brain, lungs, heart, liver, kidneys, pancreas

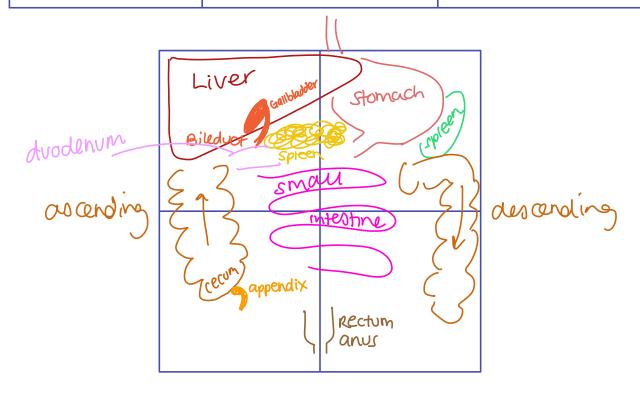
*organ of modifying phrase

PELEGATION
* Do not delegate to LPN:
- start IV - hang or mix IV meds - an maintain IV meds - IV push/PB meds - admin blood or central lines - develop plan of care - pt teaching - can reinforce - perform assessments that require inferences/judgments - unstable pts - first of anything - take verbal orders from MD or transcribe orders - Admission/Discharge/transfer
* Do not delegate to UAP:
- cannot chart -> can document what they did - meds -> can do topical OTC barrier creams - assessments -> can do VS & accucheck - treatments -> can do enemas - EAT: evaluate, assess, teach
* to not delegate to family:
- Safety responsibilities - mey can only do what you teach The
MANAGEMENT
* How do you intervene w/ innappropriate staff?
1) Tell supervisor 2) Intervene immediately 3) Counsel them later on 4) Ignore it? never correct
A) Is what they're doing illegal? $\rightarrow \mathbb{D}$ B) Is anyone in immediate danger? $\rightarrow \mathbb{C}$ C) Legal, not dangerous, but innappropriate? $\rightarrow \mathbb{C}$

RIGHT

LEFT

Gall stones Stomach ulær Pancreatitis	Heartburn/Indegeotion Stomach Ulcer Poncreatitis Gaustones Epigastic Hernia	Duodenalular Stomach ulcer Pancreatitis Billary Colic
Kidney Stones Urine Infection Constipation Lumbar Hernia	Umbilical Hernich Stomach Ulcer Pancreatith S Early appendicitis IBS - Smau	Kidney Stones Diverticular Disease Constipation Inflammatory Bowel Disease
Appendicitis Constipation pelvic Pain (Gyme) Grain pam Linguinal hernia	Urine Infection Diverticular Disease Inflammatory Bowel Pelvic pan (Hynau)	Diverticular Oslape pelvic Pain (Gyme) Groin pain LInguinal hernia



VALVE PLACEMENT

AOrtic value @

2nd I C space

R Sternal

bonder

pulmonic value 2rd Icspace, Erbs: 3rd LSternal border

Tricuspid value 4th IC space L sternal border

Mirral value

5th Ic space, mid clavicular line

GUESSING

* Psych: The nurse will examine their own feelings...
Establish a trust relationship

* Diet: Inatie, pick chicken

2nd fish, not shellfish

Never pick casserole for children Never mix meds in pt food

Todalers: finger food

* Drugs: Pick SE in Same body system as drug is working

If it's PO pick agl SE

* OB: Check Fetal HR

* modsurg: Check LOC

* Peds: Always give child more time to grow & develop

when in doubt pick olderage

Pick easier took in age devel. Q

When in doubt call it normal

- If 2 answers opposite - one is correct

- Think worst thing that can happen

- If you don't know term, use common sense

- Umbrella answer: covers all the others who suggest them

- If you get prioritization of 4 diff needs for one patient "if I did not do this... what's the worst consequence?"

Last Resort: Right answers tend to be different

1. Pon't expect 75 questions ... Expect 145!

2. Don't expect to know everything

3. Don't expect everything to go right