Mark Klemik Lecture 1: Acid Base Principles

- \propto As the ph goes, so goes my pt (except for k+)
- When ph goes up, systems in the body get irritable/hyper-excitable, borborygmi*
- cos When ph goes down, systems in the body shut down
- RacKussmauls. You see Kussmauls with metabolic acidosis
- A There's a difference between s/s of acid base imbalances vs. causes of acid base imbalances
- calls the pt over ventilating or under ventilating?
- ন্থ Under- pick acidosis
- Resp. rate doesn't matter. Sao2 matters.

- For everything else that isn't lung, pick metabolic acidosis
- Real Idk what to pick- Metabolic acidosis
- Modifying phrase trumps original noun. "An ocd pt who is now psychotic" (look @ psychotic). "A vomiting pt who is now dehydrated" (look @ dehydrated).

Vent Alarms

Real High pressure alarm goes off: working too hard (obstruction)

- 1. Check for kinks, unkink
- 2. Water condensation in the tube, empty it
- 3. Mucus in the airway: turn/cough/deep breathe,
- 4. If that doesn't work then suction (last resort)
- c **A Low pressure alarm goes off**: that was too easy (disconnection)
 - a. Main tubing: reconnect
 - b. O2 sensor tubing (senses fio2 @ trachea area): reconnect

ন্থ Translate respiratory alkalosis to **ventilating over** (settings are too high) ন Respiratory acidosis to **ventilating under** (settings are too low)

Mark Klemik Lecture 2: Alcohol/Drugs

- ⊲ Denial is the #1 problem in all abusive situations
- ⊲ Alcoholism: #1 problem psychologically is denial.
- Real Treat it by confronting it. Point out the difference from what they say and what they do.
- \curvearrowright With abuse you confront, with loss you support.
- Codependency: the significant other feels positive self esteem from supporting the habit
- Set limits & enforce them, teach them to say no. "I'm saying no because I'm a good person."
- Anipulation: Abuser gets significant other to do things for him/her that's not in the best interest for the significant other. The nature of the act is dangerous or harmful.
- \propto Set limits & enforce them, teach them to say no.
- A Manipulation is easier to treat than dependency because there's no positive self esteem issue with manipulation.

Wernicke Korsakoff- Psychosis induced by Vitamin B1 or Thiamine

- Real They don't have to stop drinking, and it's irreversible.

Aversion Therapy: Antabuse (disufiram) & ReVia (naltrexone)

- Real Makes you hate alcohol and if you drink it you'll get deathly ill Real Takes 2 weeks to get into the system
- Red 2 weeks to get out of system to safely drink again
- R Teach pt to avoid all alcohol products:
 - 1. Mouthwash
 - 2. Aftershave
 - 3. Perfumes/Cologne
 - 4. Insect repellent
 - 5. Anything that ends in elixir
 - 6. Alcohol based hand sanitizer
 - 7. Unbaked icing (vanilla extract)

**They can have red wine vinegarette!

Every abused drug is either an upper or downer.

The most abused drug that isn't up or down is a laxative.

Uppers (5):

Caffeine, Cocaine, PCP/LSD (hallucinogens), Methamphetamines, Adderral
 S/s: (Things go up) euphoria, tachycardia, tachypnea, restlessness, irritability, borborygmi/diarrhea, reflexes +3/+4 (spastic), seizure

Downers:

○ Heroin, Marijuana, Alcohol, Benzos (everything not an upper)
 ○ S/s: Lethargy, respiratory depression, bradycardia, bradypnea,

How to answer the question:

c Ask yourself: Is the drug an upper or downer?

⊲ Is the question asking about overdose or withdrawal?

Real Withdrawal in upper: everything goes down

Real Withdrawal in downer: everything goes up

Resp. depression biggest risk in: downer overdose and upper withdrawal

Drug Addiction in Newborns

Always assume intoxication, not withdrawal at birth

Real Baby has to be 24hrs old to go through withdrawal

Real Withdrawal: difficult to console, exaggerated startle reflex, seizure risk, shrill high pitch cry

Alcohol Withdrawal Syndrome vs Delirium Tremens

Revery alcoholic goes through withdrawal, **only a small amount get delirium tremens**. You go into alcohol withdrawal within 24 hrs. You go into delirium tremens within 72 hrs.

⊲ AWS pts are not life threatening, DT's can kill you

ALCOHOL WITHDRAWAL:

Regular diet, semi-private room anywhere on unit, up adlib (go anywhere they want), no restraints.

ce Meds: Antihypertensive pill, Tranquilizer, Vitamin B1

DELIRIUM TREMENS:

- NPO/clear liquids (seizure risk), private room, near nurses station, strict best rest / need bed pans & urinals, must be restrained appropriately: vest or 2 point locked leathers (opposite arm & leg) rotate every 2 hours.
- Reds: antihypertensive pill, tranquilizer, b1 vitamin

Aminoglycocides- A Powerful Class of Antibiotics

 cos A mean old mycin for a mean old infection

 ca Life threatening, resistant, serious, and gram negative infections

All end in mycin, but not all that end in mycin are mean old mycins

ReanOldMycins: Arithromycin, Zythromycin, and Clarithromycin.

call f it has thro, throw it off the list!!

Real Monitor for hearing, tinnitus, vertigo/dizziness

- R The human ear is shaped like the kidney, so watch for nephrotoxicity
- Rest indicator of liver funct: 24hr creatinine clearance** #2 serum creatinine
- Administer them **q8hr.** Route: IM or IV. Don't give PO for infection!
- Only 2 cases to give orally: sterilize the bowel
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 - Hepatic encephalopathy/hepatic coma/liver coma (when ammonia level gets too high & gets to your brain) Kills the E. coli in the gut & lower the ammonia level
 - 2. Pre-op bowel surgery to sterilize the bowel Oral mycins will kill gram-negative bacteria in your gut (sterilize bowel)

Sargent asks: Who can sterilize my bowel? Neo can! NEOMYCIN and CANOMYCIN!

TAP Levels:

- Reak- When drug is at its highest (Draw after drug admin)
- CR TAP (trough, administer drug, peak) for narrow therapeutic windows
- A THE DRUG DOESN'T MATTER, THE ROUTE MATTERS ;)
- ↔ Sublingual/IV/IM/SQ/PO Trough: Draw 30 mins before the next dose
- ⊲ Sublingual **Peak**: 5-10 mins after drug is dissolved
- Reak: 15-30 mins after drug is finished
- ন্থে IM **Peak**: 30-60 mins
- cq SQ- See diabetes lecture
- Q PO- They don't test PO peaks
- Real When there's 2 right answers, pick the highest without going over

Mark Klemik Lecture 3- Cardiac/Chest Tubes/Infection Precautions

CR CCB's are like Valium for your heart (calms your heart down)

- Reaken, slow down, and depress the heart. Cardiac depressant.

They treat: A, A-A, and A-A-A

- Anti-hypertensive
- Anti-atrial-arrhythmia= it treats everything atrial related, EXCEPT supra ventricular tachycardia (supra means above, above the ventricle is the atrial).
- ⊲ Side effects: Headache & hypotension

Names of CCB's:

- Real Names ending in "dipine" (You're dipping in the calcium channel)
- c Cardizem = Continuous IV drip
- C Monitor BP intermittently. If systolic is below 100, hold. For drip, if systolic was 98 titrate it down.

Cardiac Arrhythmias:

- Normal sinus rhythm- Peaks of p waves are evenly spaced
- ∞ V-tach- Sharp peak & jags. There's a pattern
- ন্থ Asystole- Flat line
- ca QRS depolarization- Answer will always be ventricular
- ca Lack of a P wave- Answer will always be ventricular
- A lack of QRS- Asystole
- ন্থ A-flutter- Saw tooth
- R Bizarre is always the word used for tachycardia

Low Priority:

A bunch of PVC's is like a short run of V-Tach

Moderate Priority:

Potentially Life Threatening:

অ V-Tach- Pt has a pulse Lethal Priority: Kills you in 8 mins or less ন্থে Asystole- No pulse ন্থে V-fib- No pulse

Treatment:

Supra Ventricular (Atrial) → ABCD's

<u>Chest Tubes</u>: Reestablish negative pressure in the pleural space

A Hemothorax- The chest tube removes blood

Report in Hemothorax if- The chest tube isn't draining

2 locations:

෬ Apical (up high) removes air

œ Basilar (bottom of lungs) removes blood

⊲ Use both locations for Pneumohemothorax

How many chest tubes & where would you place them for postop chest sx?

Always assume chest sx / trauma is unilateral unless otherwise specified The only time its bilateral is when they say it's bilateral

Trick Q: Where to put tubes for a post op right Pneumonectomy?

Real NOWHERE because that is the removal of the lung LOL

What do you do when you knock out a closed chest drainage device?

(Ex: Pneumovac, Pleur-evac, etc.)

∞ Set it back up have pt take deep breaths, NOT an **emergency***

What if the water seal breaks?

 \propto It's an **emergency**^{*} because positive pressure can get in plural space.

- 1. Clamp the water seal
- 2. Cut it away

3. Submerge in sterilized water

4. Unclamp because we reestablished the water seal.

In a **best/priority question you only get to **pick one**. In a **first question** you **get to do the rest of the options**, but you have to pick which one is first**

What do you do when chest tube gets dislodged?

⊲ **First**** Cover hole with gloved hand

⊲ Best** Cover with Vaseline gauze

If there's bubbling in chest tube: Ask yourself where/when? Water Seal

If it's **sealed** should it be <u>continuously bubbling</u>? **No**, it's leaking! <u>Suction Control Chamber</u>

ন্থ Intermittent bubbling: Always bad, suction isn't high enough* ন্থ Continuous bubbling: Always good, document*

A straight-cath (in and out foley) is to a foley (continuous drainage) as a thoracentisis (in and out chest tube) is to a chest tube (continuous drainage) A Higher risk for infection- Foley & chest tube

Rules for clamping tubes

○ Rever clamp a tube for longer than 15 secs w/o a Dr order
 ○ Use rubber tip double clamps

Congenital Heart Defects

Revery CHD is either trouble or no trouble

CR TRouBLe- need surgery to live, everything is bad, short life expectancy, delayed growth & development, exercise intolerance, financial difficulties, pediatric cardiologist.

- ⊲ A **trouble** defect is right to left, because R comes before L.
- ⊲ A no-trouble defect is left to right.
- Right to left means blue (cyanotic), left to right means acyanotic.
- \propto All trouble heart defects that are trouble start with T.
- All heart defects (trouble or not) have a murmur and they all have an echocardiogram done.
- A Tetralogy of Fallot: VarieD PictureS Of A RancH
- ন্থ Ventricular Defect
- ন্থ Pulmonary Stenosis
- Right Hypertrophy

Infectious Disease & Transmission Based Precautions

Contact: Anything enteric (fecal/oral)

- C C-diff, Hep A (stands for anus), Herpes, Staph infections, and RSV (Respiratory Syncytial Virus, babies get it) transmitted by droplet but works best still on contact precautions
- Reprivate room, but can be in the same room if in cohort
- Representation of the supplies of the supplies

Droplet (sneezing/coughing): Meningitis, H-flu (causes epiglottis)

- \curvearrowright They need a lumbar puncture for cultures
- QR PPE- Gloves, Mask, Pt wears mask when leaving room, Disposable supplies/dedicated supplies, No gown

Airborne: Measles, Mumps, Rubella, TB, and Varicella.

- A Mask, Gloves, Special filter mask (ONLY FOR TB), Pt wear mask when leaving room, Negative airflow room. TB is spread by droplet but airborne precaution.

<u> PPE</u>

 ca Always take off in alphabetical order

c Gloves, goggles, gown, mask

Real Put on in the reverse alphabetical in the G's, but mask comes second

G Gown, mask, goggles, gloves

Mark Klemik Lecture 4: Crutches/Canes/Walkers/Psych

How To Measure Length of Crutches:

Reasure Hand Grip: up and down. The angle of elbow flexion is 30 degrees

Crutch Gaits

- A point: left crutch followed by right foot, right crutch followed by left foot
- Swing through: non-weight bearing (amputation)
- Amputation with a **prosthetic**: can bear weight
- Reven for even, odd for odd. Use the even # gaits when the weakness is evenly distributed (you have an even # of legs messed up)
- ca 2 point for mild bilateral weakness
- ca 4 point for severe bilateral weakness
- Ask yourself how many legs are affected? If even # of legs (2) pick either 2 or 4 point gait. If 1 leg is affected, pick odd number (3 point gait). Ask yourself whether mild or severe.
- Q With the good, down with the bad. Going upstairs, lead with good foot (crutches move with bad legs)

<u>Cane</u>

R Hold cane on strong side.

Walkers

Real Pick it up, set it down, walk to it

 \propto If they must tie something to the walker, tie it to side, not the front of it \propto No wheels, or tennis balls on walkers**

Psych: Non-Psychotic vs. Psychosis

Non-psychotic pt:

Real Has insight (know that they're sick & know it's messing up their life) Real Use good therapeutic communication (like normal people)

Psychotic pt:

∝ S/s: Delusions, Hallucinations, Illusions *

Delusion: A false, fixed idea or belief. Thinking, not sensing

- Real Paranoid Delusion- False, fixed belief that people are out to harm you
- ca Grandiose Delusion- False, fixed belief that you are superior
- Somatic Delusion- False belief about your body (X-ray vision)
- Rest Erotomanic Delusion- False, fixed belief another person (usually famous or powerful) is in love with them.
- A Jealous Delusion- False, fixed belief that their partner is unfaithful

Hallucination: False, fixed sensory experience (5 senses)

ন্থ Most common in order- Auditory, Visual, Tactile. ন্থ Rare ones -Gustatory (tasting) & Olfactory (smelling)

Illusion: Misinterpretation of reality (sensory experience)

The difference between hallucination & illusion is, with an illusion there's a referent in reality. There's actually something there, but they just misinterpreted it. With a hallucination there's actually NOTHING there

3 Types of Psychotics

Functional psychotics: Can be married, have a family, job, live alone, pay bills...

- ∞ 90% of functionals are Schizo Schizo Major Manic
- 🕫 Schizo- Schizophrenia
- ন্থ Major- Major Depression
- Real Manic-Bipolar
- 2. Dementia: Brain damage
- 3. **Delirium**: Temporary, sudden dramatic secondary loss of reality usually due to a chemical imbalance in the body.

How to answer these questions:

Ask yourself, are they psychotic or non-psychotic?
 If non-psychotic, pick best good therapeutic communication response.
 If they're psychotic, decide which 3 categories that person falls in.

For Functional- This pt has the potential to learn reality

1. <u>Acknowledge their feelings</u> \rightarrow "You seem angry"

 \rightarrow "That must be distressing"

 \rightarrow "Tell me how you're feeling"

- 2. <u>Present reality</u> \rightarrow "I know that____ is real to you, but I don't see ____"
 - \rightarrow "I am a nurse & this is a hospital"
- 3. <u>Set a limit</u> \rightarrow "That topic is off limits in our conversation"
 - \rightarrow "That topic we talk together we're not going to talk about that"
 - → "Stop talking about those aliens/voices"
- 4. Enforce the limit \rightarrow End the conversation
 - \rightarrow *Don't punish/restrict them*
 - → "I see you're too ill to stay reality based, so our conversation is over"

For Dementia- This pt has a brain damage and can't learn reality

- 1. <u>Acknowledge their feelings</u> \rightarrow "That seems exciting"
 - \rightarrow "I see that you're happy"
 - \rightarrow "I see that you're sad"
- 2. <u>Redirect them</u> \rightarrow **DON'T **present** reality**
 - \rightarrow You can reality orient them (person, place, time)
 - → "Ok, let's sit here and you can tell me about church while we wait for your dead husband"
 - \rightarrow DON'T change the subject

For Delirium- Remove the underline cause & keep them safe

- 1. <u>Acknowledge their feelings</u> \rightarrow "That seems exciting"
 - → "I see that you're happy"
 - \rightarrow "I see that you're sad"
- 2. <u>Reassure them</u> \rightarrow "You are safe and that will go away when you get better"

Abnormal (Abn)- Antisocial, Borderline, Narcissistic

GR Treat them like a functional. Set limits!

Loose associations:

- ↔ Word Salad- Random words
- Narrow Self-concept- When a functional psychotic refuses to leave their room or change their clothes. (They define who they are based on where they are and what they're wearing. They don't know who they are if they get undressed/ it terrifies them)
- calleas of Reference- Pt thinks everyone is talking about them

Mark Klemik Lecture 6: Toxic Levels/Dumping Syndrome/Electrolytes

Toxicity Levels (5)

1. Lithium: Therapeutic IvI 0.6-1.2 // Toxic IvI Greater than 2

2. Lanoxin: Therapeutic IvI 1-2 // Toxic IvI Greater than or equal to 2

3. Aminophylline: Therapeutic IvI 10-20 // Toxic IvI Greater than or equal to 20

4. Dilantin: Therapeutic 10-20 Toxic IvI Greater than or equal to 20

5. Bilirubin in newborns: Therapeutic IvI <9.9 Elevated IvI 10-20

(Hospitalize when you get halfway in the elevated IvI) Toxic IvI greater or = 20

<u>Kernicterus</u>- Bilirubin in the brain. Occurs when bilirubin gets around 20 <u>Opisthotonus</u>- Position baby goes in when they have kernicterus

○ They hyperextend due to irritation of the meninges

 \propto What position should you put them in? On their side

Dumping Syndrome vs Hiatal Hernia

Hiatal Hernia:

Regurgitation of acid into your esophagus because the upper part of stomach herniates upwards through the diaphragm

Real Moving in the wrong direction at the right rate

GR Going the WRONG WAY on a ONEWAY street

<u>S/s:</u>

ca GERD aka heartburn / indigestion

ca GERD is regular heart burn if you get it at a random time

ca It's hiatal hernia if you lay down right after you eat

<u>Tx:</u>

Ray High position HOB

Reverything needs to be high, except protein (low)

Dumping Syndrome:

ঝ Usually following gastric sx.

 \propto The gastric contents dump too quickly into the duodenum.

 \propto Moving in the right direction at the wrong rate.

A SPEEDING TICKET!

<u>S/s:</u>

Shock: Hypotension, pail cold clammy skin, tachycardia

Acute abdominal distress: Pain, guarding, borborygmi, diarrhea, bloating, distention, tenderness

<u>Tx:</u>

- c Low position (HOB flat)
- C Turn to side with head down
- A Low fluids (1-2hrs before or after meals, not with the meals), Low carbs.
 A If you want the stomach to empty slow, everything is low. Except protein

Electrolytes:

- Kalemias- Do the same as the prefix except for heart rate* and urine output. S/s Hyperkalemia- Agitation, irritability, tachypnea, bradycardia, tall p waves, elevated ST waves, diarrhea, borborygmi, spastic muscles, hyperreflexia, oliguria
 - S/s Hypokalemia- Lethargy, tachycardia, bradypnea, dynamic ileum, constipation, flaccid muscles, hyporeflexia, polyuria

Calcemias- Do the opposite. Muscles & nerves*

- S/s hypocalcemia- Tachycardia, agitation, irritability, tachypnea, diarrhea, borborygmi, spastic muscles, hyperreflexia, seizure, chvostek (cheek, face spasm) sign & trousseau sign (BP hand spasm), gay french man* lol

<u>Magnesemias-</u> Do the opposite. In a tie between Calcemia & Magnesium, **don't** pick Magnesium*

- S/s Hypomagnesima- Tachycardia, agitation, irritability, tachypnea, diarrhea, borborygmi, spastic muscles, hyperreflexia, seizure

Sodium- Dehydration Vs. Fluid Overload

- ∞ **The one with the E is dehydration, the one with the O is overload**
- Real Dehydration- HypErnatremia, hot flushed skin give lots of fluids, hot/flushed skin

Earliest sign of any electrolyte imbalance is numbness/tingling aka Paresthesia Nclex Vocab Word: Circumoral Parasthesia- Numb/tingling lips All electrolyte imbalances cause muscle weakness AKA paresis

Tx for Potassium:

ন্থ Never IV push K+ ন্থ Never give more than 40 of K+ per liter of IV fluid

Fastest way to lower K+

GR Give D5W with regular insulin

ශ K+ enters early

∝ K+ in blood will kill you, not K+ in cells

∞ D5W with insulin will push the K+ into the cell

Kayexalate:

Real of sodium, given via enema or orally

ন্থ K+ exits late

⊲ Trades sodium for K+ so u shit it out.

call results in hypernatremia (dehydration) so give them fluids to correct it

Mark Klimek Lecture 7- Endocrine Glands/Toys/Laminectomy (Don't have to know thymus, pineal, parathyroid)

Hyperthyroidism: Graves Disease

Real Turn thyroid into metabolism (hyper metabolism)

c "You're going to run yourself into the grave".

R Missy Elliot is a closet Elsa, the cold never bothered her anyway, and she hates the beach.

<u>S/s:</u>

 Weight loss, high HR, low BP, irritable/hyper, heat intolerance, cold tolerance, exophatalmos (bulging eyes)

- 1. Radioactive lodine-
 - R Pt should be isolated for 24 hrs,
 - ca They have to be careful with their urine
 - call they spill it you need to call hospital hazmat team
- 2. PTU (cancer drug) -
 - ন্থ Puts Thyroid Under ন্থ Monitor WBC's
- 3. Thyroidectomy- Total vs. Sub
 - Total's **need lifelong** hormone replacement & at risk for hypocalcemia
 - Real Subtotal's don't need lifelong hormone replacement.
 - Subs are at risk for thyroid storm/crisis/thyrotoxicosis: Very high temps of 105+, very high BP (stoke category), severe tachycardia, psychotically delirious. VERY BAD! Causes brain damage

<u>Tx</u>:

 \propto Ice pack (**First**), Cooling blanket (**Best**), 02 per mask @ 10 L \propto Do not medicate. They will either come out on their own or die \propto 2 staff to 1 pt

Post Op Risks:

⊲ In the first 12 hrs, top priority is airway

∞ 2nd is hemorrhage.

 \propto 12-48hrs for **S**ubtotal is **S**torm

○ NEVER PICK INFECTION IN FIRST 72 HRS!

Hypothyroidism (Hypo metabolism):

<u>S/s:</u>

<u>Tx:</u>

⊲ Thyroid hormone Synthroid (levothyroxine)
 ⊲ Do not sedate these people! They will get into a myxedema coma
 ⊲ NEVER HOLD THYROID HORMONES THE DAY OF SURGERY!

Adrenal Cortex Diseases- All start with A or C ;) Addison's Disease: Under Secretions of Adrenal Cortex <u>S/s:</u>

 $\ensuremath{\operatorname{cw}}$ If they undergo any stress they might go into shock

⊲ Glucose goes down & BP goes down

<u>Tx:</u>

S/s of Cushing's & side effects of steroids:

Real High glucose** (hyperglycemic)(insulin resistant)

Real Moon face

A Hirsutism

ন্থ Big body / buffalo hump

ca Gynecomastia

Central obesity (apple body)

Skinny extremities due to muscle atrophy

Retains sodium & water

⊲ Bruises and striae

ন্থ Irritable

ন্থ Immunosuppressed

ce "I'm mad. I have an infection"

<u>Tx:</u>

ন্থ Adrenalectomy- Bilateral: You get Addison's <u>Toys</u>: Is it safe? Is it age appropriate? Is it feasible?

<u>Safety</u>

No small toys for kids under 4.
 No metal/die-cast toys if o2 is in use (sparks)
 Beware of fomites (teddy)(nonliving object that harbors microorganisms)

Age appropriate

0-6 months:

A Musical mobile, Soft & large, Teething soft books

coa Worst toy is a musical mobile

9-12 months: Learning to speak

Speaking toys

ন্থ Talking books

Toddlers (1-3 years): Push/pull toy

c (Ex: Popper, stroller, doggie, wagon, etc)

- Real Work on gross motor skills: running/jumping
- CR DO NOT choose answers with finger dexterity
 - (Ex: Cut, use pencils, color) *NOT INCLUDING FINGER PAINTING!*
- Reallel play-play alongside other kids, but not together

Preschoolers: Finger dexterity/work on balance

ন্থে Tricycles ন্থে Tumbling Class/Dance Class ন্থে Coloring ন্থে Play together ন্থে They like to pretend (Imaginative thinkers)

School Aged Kids: Characterized by Triple C's

Create: Let them make it (Blank paper & colored pencils, Legos)
 Collective (Pokemon cards, digimon, beanie babies)
 Competitive: Play games that they can win

Adolescence: Peer group association

A Hang out with friends

Laminectomy: Removal of vertebral spinal processes (winged ends of vertebrae) Relieves nerve root compression

<u>S/S:</u>

c 3 P's: Pain, Paresthesia, Paresis

The most important thing to pay attention to is **location b/c it will determine prognosis, treatment, symptoms**

Locations:

ন্থে Cervical ন্থে Thoracic ন্থে Lumbar

Pre-op assessment:

Cervical: Airway & function of arms/hands
 Thoracic: Cough/Bowel mechanisms
 Lumbar: Bladder- when was the last time they voided? & leg function
 Post op spinal #1 answer: log roll**
 DON'T DANGLE THE PTS LEGS!
 DON'T SIT FOR LONGER THAN 30 MINS!
 THEY MAY WALK, STAND, LAY DOWN W/O RESTRICTION

Complications:

ন্থ Cervical: Pneumonia ন্থে Thoracic: Pneumonia & Paralytic Ileus ন্থে Lumbar: Urinary retention followed by leg problems

Discharge teaching: 4 temporary restrictions (6 weeks)

c Don't sit for longer than 30 mins
c Lie flat & log roll
N odriving
D not lift more than 5 pounds (gallon of milk)

3 permanent restrictions:

Rever lift objects by bending with the waist

 $\operatorname{cervical}$ lams not allowed to lift ANYTHING over their head

∞ No jerking, horse back riding, 6 flags

<u>Terms:</u>

Anterior Thoracic: From the front thru the chest to the spine

Laminectomy w/ fusion: Bone graft from the iliac crest

2 incisions, one on the hip & one on the spine

础 Hip has most pain/bleeding/draining

Real Both have equal risk for infection

Spine has highest risk of rejection

Lab Values: Klimek code: A (Abnormal)- Do nothing

- B- (Be concerned)- Assess/monitor
- C- (Critical)- Do something, you can leave the bed side
- D- (Deadly/Dangerous)- Do something now, NEVER LEAVE BED SIDE OF D**

Serum Creatinine: 0.6-1.2

ca unless question says they have a dye procedure in the morning

INR: 2-3

Anything 4+ is (C)

Potassium: 3.5-5.3

 \propto Low or high is (C) unless it reaches 6+ then it is a (D)

pH: 7.35-7.45

 \odot Anything in the 6's is a (D)

BUN: 8-25

Hemoglobin: 12-18

⊲ If 8-11 it's a (B) Assess for anemia/bleeding/malnutrition

ন্থ If below 8 (C) Assess for bleeding, prepare to give blood, call doctor

Bicarbonate: 22-26

രു (A)

Co2: 35-45

- ∞ 46-59 is a (C)
- ca Assess respirations, prepare to do pursed lip breathing
- ෬ 60+ is a (D)
- Assess respirations, prepare for intubation/ventilation, call respiratory therapy then the doctor

Hematocrit: 36-54 (3x's the hemoglobin)

ন্থে 54+ is a (B)

Assess for dehydration

P02: 78-100

- c∞ Low 70s it's a (C)
- 础 Hypoxia 60s and lower is a (D)
- Give 02, assess respirations, prepare for intubation/ventilation, call
 respiratory therapy then doctor

O2: 93-100

Assess respirations, raise head of bed, give 02, unless "best" question then just give 02

BNP: < 100

ন্থে 100+ (B)

A Look for signs of CHF

Sodium: 135-145

 \propto (B) Unless change in LOC, then it's a (C)

Platelets:

෬ Below 90,000 is a (C)

෬ Below 40,000 is a D

RBCs: 4-6 mil (B)

WBC: therapeutic 5,000-11,000

ANC: 500+

CD4: 200+

c Less than normal value for WBC, ANC, CD4 are all (C)

c Low CD4=AIDs

Neutropenic Precautions:

⊲ Strict Hand washing

 cs Shower BID with antimicrobial soap

Avoid Crowds

ন্থ Private Room

⊲ Limit numbers of staff entering room

R Limit Visitors for Healthy Adults

○ No fresh flowers or potted plants

⊲ Low Bacteria Diet: No Raw Fruits, Veggies, Salads

 \propto Do not drink water than has been standing longer than 15 minutes

c Check WBC (ANC) Daily

 ca Avoid the use of an indwelling catheter

 ca Do not re-use cups.. must wash between uses

⊲ Use disposable plates, cups, straws, plastic knife, fork, spoon

OR Dedicated Items in Room:

⊲ Stethoscope

ন্থ BP Cuff

ন্থ Gloves

ASSESS FOR INFECTION!!!

What do you do when something is Critical (dragon drops)

- 1. Always hold/stop it first
- 2. Assess
- 3. Prepare to give
- 4. Call the doctor

Mark Klemik Lecture 5- Diabetes: An error in glucose metabolism

<u>D.I:</u>

R Polyuria, polydipsia leading to dehydration due to low ADH, low specific gravity, fluid volume deficit

SIADH:

A Low urine output, oliguria, not thirsty, high specific gravity, fluid volume excess

DM Type 1:

ন্থ Insulin dependent ন্থ Ketosis Prone <u>S/s:</u> Polyuria, polydipsia, polyphagia <u>Tx for type 1:</u> Diet, **Insulin (most important)**, Exercise (DIE)

S/s: Polyuria, polydipsia, polyphagia

Tx for type 2: Diet (most important), Oral hypoglycemic (pill), Activity (DOA)A - Calorie restriction** (ex: 1600 calories / day)A - 6 small feedings / day (ex: 1600/ 6)

**Insulin lowers glucose levels (PEAK is tested more)*
When would you check for hypoglycemia? (Peak question)

4 Types of Insulin (MUST KNOW):

Regular Insulin(short acting)

ন্থে Onset is 1hr, peak 2hrs, duration 4hrs থে Clear solution থে Can be IV dripped থে R- Rapid & run থে Taken **before** a meal*

NPH (Intermediate acting)

ন্থ Onset 6hr, Peak 8-10hrs, Duration 12hrs ন্থ Cloudy, suspension ন্থ Never IV ন্থ NPH- Not so fast & not in the bag ন্থ Taken **after** a meal*

Humalog/Lispro(Rapid acting)

ন্থ Onset 15 min, Peak 30 min, Duration 3 hours. ন্থ Give insulin **with** meals*

Lantis/Glargine (Long acting)

ন্থ Slowly absorbed, it has no essential peak ন্থ Low risk of hypoglycemia ন্থ Safely given at bedtime

Key Points:

Check expiration date. After you open a bottle, the new expiration date is 30 days after that. Write the date you opened it and "exp" or "opened".

- R Teach pts to refrigerate their insulin at home. Hospitals keep unopened bottles of insulin in the fridge, but they can come out of the fridge once opened.
- œ Exercise does the same thing as insulin. Exercise is like another shot of insulin. If a diabetic is going to play soccer/exercise, they have to bring something to eat first. (Rapidly metabolized carbs)**
- When diabetics are <u>sick</u> their <u>glucose goes up</u>. They have to take their insulin even when they're not eating. Take sips of water or they might get <u>dehydrated</u>. Stay as active as possible.
- GR Humulin 70/30- percentages mixed of R and N (N is in the numerator, the bigger portion). If they ask you "x" units of 70/30, "x"*.7 and "x"*.3 = the % they get.
- A Mix insulin in the same syringe? Yes. Clear to cloudy is R to N. RN's do it!

*Best test for long term is HBA1C (Glycosated Hemoglobin):

Acute Complications of DM:

Hypoglycemia (Drunk + Shock)

- Causes: <u>Too much insulin/meds</u>***, not enough food, too much exercise
 S/s: [Drunk] Staggering gait, slurred speech, impaired judgment, delayed reaction times, labile (emotions all over the place)
 - [Shock] Low BP, tachycardia, tachypnea, pallor, clammy, mottled skin
- - *If you're talking to parents **over the phone** tell them give glucagon **IM** If they're in the **ER**, say **IV** dextrose

Hyperglycemia in Type1- DKA → Higher Priority

- Causes: <u>Acute viral upper resp. infection within last 2 weeks</u>^{***}, too much food, not enough meds or exercise.
- S/s: Dehydrated (hot, flushed, dry skin), Ketones in blood, Kussmaul, ^ K+, Acidotic, Acetone breath (fruity breath), Anorexia due to nausea
 Tx: IV fluid fast rate w/ Regular Insulin
- Hyperglycemia in Type2- HHNK → More Fatal

ন্থ Causes: Dehydration ন্থ Tx: IV fluids

Chronic Complications of DM:

ශ Poor Tissue Perfusion
 ශ Peripheral Neuropathy

Mark Klimek Lecture 9- Psychotropic Drugs

All psych drugs cause hypotension & weight gain

Phenothiazines: 1st Gen / Typical Antipsychotics

All end in zines*
They don't cure psych diseases, only reduce symptoms
Zines for the zaney
ZzZ.. zines (sedatives)
Small doses are anti-emetics
Major tranquilizers
*DO NOT confuse *zeps for *zines

Side Effects: Non-toxic

- Anticholinergic (dry mouth)
- R Blurred vision
- \curvearrowright Constipation
- ෬ Drowsiness
- œ EPS- extrapyramidal syndrome (Pill rolling, cogwheel rigidity, shuffling gait)

c aGranulocytosis (Low WBC immunosuppressed)

If Pt Displays Side Effect:

C Teach pt to keep taking the drug

ন্থে Inform the Dr

ন্থ Keep taking the pill

ন্থ Treat the side effects

Tricyclic Antidepressants: Grandfathered into a new class called NSSRI's

c₂ **Take for 2-4 weeks before you see effects**

œ Elavil, Tofranil*, Avatil, Desyrel

Real Reveates your mood

Anticholinergic (dry mouth)

⊲ Constipation

CR Drowsiness

R Euphoria (way too happy)

Benzodiazepines: Minor tranquilizers

c₂ ZzZ.. Zep (sedative)

ര B- Muscle Relaxer

c₂C-AlcoholWithdrawal

 ce E- Help when pt is fighting the ventilator to calm down

They work quickly but DON'T take them for more than 2-4 weeks

 ca AD's take a long time to work but you can take it for the rest of your life

Real Mild tranquilizers work right away but can't be on long

 ca Heparin is to Coumadin as to tranquilizer is to an antidepressant

Side effects:

Anticholinergic (dry mouth)

Ra Blurred vision

R Drowsiness

ন্থে #1 Dx is injury

MAOi's: Monoamine Oxidase Inhibitors

ca Beginning of the names all rhyme

∞ Partite, Nardil, Marplan, (Par, Nar, Mar) or PaNaMa

Pt Teaching:

- ন্থ Salad BAR
- ন্থে **B**ananas
- R Avocados
- ন্থ Raisins (dried fruit)
- c Organ/preserved/hot dogs/lunch meats (smoked, dried, cured, pickled, etc.)
- ∞ No dairy EXCEPT for mozzarella and cottage cheese
- Real No yogurt
- Real No alcohol
- ෬ No chocolate

Lithium: Bipolar disorder

⊲ Only psych drug that doesn't mess with neurotransmitters

#1 Intervention while on the med:

c₂ Increase fluids

ন্থ If they're sweating don't give water. Give Gatorade/PowerAde (electrolytes) ন্থ Monitor for dehydration & sodium levels

(Low sodium = makes lithium toxic / High sodium = lithium won't work)

Prozac: SSRI. Similar to Elavil

Side Effects:

- ෬ Anticholinergic (dry mouth)

- ෬ Drowsiness
- c Euphoria (way too happy)

ন্থ *Insomnia- Give BEFORE noon, NOT at bedtime* ন্থ Increased suicide risk when changing doses with young adults

Haldol: Schizophrenic, similar to Thorazine, Typical 1st Gen Antipsychotic

Side Effects:

- Anticholinergic (dry mouth)
- R Blurred vision
- \curvearrowright Constipation
- C Drowsiness
- Reps- extrapyramidal syndrome (parkinson's symptoms) no big deal
- ⊲ Fotosensitivity
- c aGranulocytosis (immunosuppressed) (destroys marrow)

***** NMS Neuroleptic Malignant Syndrome***** BIG DEAL!

Raldol overdose

A Young white men & elderly dudes can get it from overdose
 A

ca Includes anxiety and tremors

ca Give elderly half of adult dose

Clozaril/Clozapine: 2nd Gen Atypical Antipsychotic

ন্থ Used to treat severe schizophrenia, made to replace the *zines and haldol ন Does NOT have the side effects (A-F)

Real Has SEVERE agranulocytosis (immunosuppressed)

⊲ Monitor WBCs, they can fall very low

Geodon (Ziprasidone):

Black box warning- Prolongs QT interval and can cause sudden cardiac arrest, DON'T give to people with heart conditions.

Zoloft (Sertraline):

- Register SSRI, can cause insomnia but you can give it at bedtime
- **Zoloft interferes with this system increasing toxicity with other drugs**
- ca Lower the dose of other drugs
- $\operatorname{c\!\!R}$ Warfarin/Coumadin must be reduced because you can bleed out
- ন্থে **St. John Wort + Zoloft = Serotonin syndrome** DON'T TAKE St. John Wort ন্থে **S**weating

ন্থ Apprehension/impending sense of doom ন্থ Dizziness ন্থ HEADaches

Mark Klimek Lecture 10 & 11- Maternal/Newborn Overview

Pregnancy:

- c First day of the LMP + 7 days 3 months
 c Average weight gain- 28 lbs plus or minus 3 lbs
- 1st trimester (1-12 weeks): 1 lb/month, total: 3 lbs
 ∞ Fundus not palpable. Mother is Priority
 ∞ If you can palpate the fundus or she gains 10lb, she might have a hydatiform mole, or not really be in the 1st tri
 ∞ You can palpate the fundus at the end of the 1st tri
- 2nd trimester (13 27 weeks): 1lb/week ୠ Fundus at umbilicus or below it. Mother is Priority ୠ At 20-22 weeks the fundus is at the umbilicus



x-ray, fetal presence on ultrasound, auscultation of FHR, examiner palpates fetal movement

- ⊲ 3 Different Questions for OB Q's:

coa "When would you first auscultate a fetal heart?" - 8 weeks

ca "When would you most likely auscultate a fetal heart?" - 10 weeks

co "When should you first auscultate a fetal heart by?" - 12 weeks

c "First": pick earliest part of range

ce "Most likely": pick mid part of range

C ** Should **- pick end of range

Quickening (kicking): 16-20 weeks
 ■

Probable/Presumptive "The Maybes":

⊲ Chadwick, Goodells, Hegar signs (Alphabetical in that order)

↔ Chadwick: Cervical color change to cyanosis (\$4 blue candle)

G Goodells: Cervical softening (good when your cervix softens, 2 ll's =2 month)

Pt Teaching:

- ce Come once/month until week 28 (3rd tri)
- A Week 28 come once every 2 weeks until week 36
- Reverse Week 36 every week until delivery until week 42.
- Remoglobin will fall, it can fall to 10 & still be normal
- Requent urination during 1st & 3rd tri. Tx: void q2hr min
- R Back pain: 2nd & 3rd tri. Tx: Pelvic tilt exercises

Labor & Birth:

R Valid sign of labor: Onset of regular progressive contractions

Q Dilation: Opening of cervix 0-10 cm

↔ Effacement: Thinning of the cervix. From thick to 100%

 \curvearrowright Station: Relationship between the fetal presenting part & the ischial spines

c Positive stations: Presenting part is below the tight squeeze (+1, +2) GOOD

ca Lie: Relationship between the spine of mom & spine of baby

⊲ Mom's spine and baby's spine are parallel (Good)

 ca Presentation: Part of baby that enters the birth canal first



Longitudinal lie Vertex presentation

Longitudinal lie Breech presentation

Transverse lie shoulder presentation

4 Stages of Labor:

Stage One:

- A Phase 3 (Transition) 8-10 cm, frequency 2-3 mins, lasts 60-90 secs, intensity strong

Only memorize phase 2. 1st 3 letters in latent tell u the order of phases The purpose of uterine contractions in 1st stage: dilate & efface the cervix

Stage Two: Delivery of the baby

- cos Suction the mouth then nose
- ce Check for nuchal (around the neck) cord
- Peliver shoulders then body
- ca Baby must have ID band on before leaving the delivery area

Stage Three: Delivery of the placenta

A Make sure it's all there

⊲ Check for a 3 vessel cord- 2 arteries 1 vein- AVA

Stage Four: Recovery, contract the uterus to stop bleeding

Real Postpartum technically begins 2 hours after the placenta comes out

ca 4 things you do 4 times (q 15 min) an hour in the 4th stage:

- A Vital Signs: Looking for S/S of shock (pressures go down, rates go up, cold and clammy)
- Real Fundus check: If boggy=massage, if displaced= void / catheterize
- Pads: Dheck pad saturation. If bleeding excessively she will saturate a whole pad (100%) in 15 mins or less, if 98% saturated it's okay. She should not soak a pad in one hour or less due to risk of hemorrhage.
- Roll her over: check for bleeding underneath her

****PAY ATTENTION TO THE Q: PHASES ARE NOT STAGES! ****

Signs of uterine tetany/ uterine hyperstimulation/ stop Pitocin: **Contractions shouldn't be longer than 90 seconds & closer than every 2 mins**

How to time contractions:

- \curvearrowright Frequency: The beginning of one to the beginning of the next
- ↔ Duration: Beginning to end of one contraction
- ⊲ Intensity: How strong they are & subjective

(Palpate w/ 1 hand over the fundus w/ the pads of the fingers)

Complications:

- Reposition (knee chest:
- FaceDownAssUp), then push (take fist & push into sacrum) Low priority **Prolapsed Cord:** cord is presenting which wraps around baby's neck, **high priority**. Push position: push head off the cord, position her in knee chest

Interventions for all other complications of birth:

c LION (left side, increase IV, O2, notify)

∞ If Pitocin is running stop the Pitocin first! & then do LION*****

Pain MGMT:

L- left side I- increase IV O- O2 N- notify

Variable	Cord compression
Early decels	Head compression
A cceleration	Ok
Late decels	Placental insufficiency

Fetal Monitoring Patterns:

Low fetal HR- under 1
10- bad, do LION, if pitocin is running, stop the pitocin
High fetal HR- over 160, normal, document take moms temp
Low baseline variability- stays the same, does not fluctuate, bad, do LION
High baseline variability- always changing, good, document
Late decels- baby's heart slows after contraction, bad, do LION
Early decels- baby's heart slows before or at contraction, good

✓ Variable decels- very bad, prolapsed cord, put mom in push position
 Any position that starts with L, do LION, except variable (push position)

L's and V's = VERY BAD

Post Partum: Assessment 4-8 hrs

↔ Uterine Fundus: If boggy, massage. If displaced, catheterize.

Fundal height = Day postpartum (ex-4 hotspot below) Make sure it's midline! **Lochia:** Rubra (Red), Serosa (Pinkish), Alba (White)

Real Extremity Check: look for thrombophlebitis via bilateral calf measurements

Variations in the Newborn:

C Caput Succedaneum- Crosses Sutures

Real Pathological Jaundice- normal

OB Meds:

Tocolytics: Stops labor

 Mag Sulfate- (causes hypermagnasemia) making uterine contractions, HR, BP, reflexes, respiratory rate, and LOC go down)

As long as the respirations are above 12, it's ok. If under titrate down

2+ reflexes is good, 1+ is bad

Oxytoxics: Stimulate & strengthen labor

Representation (longer than 90, closer than q 2 mins)

○ Methergine - Causes high BP

Fetal Lung Maturing Meds:

- Retamethasone (steroid)- Mom gets it, given IM, given before the baby is born
- Servanta (surfactant)- Given to the neonate, given trans-tracheal (blown into the trachea), given after the baby is born

The only antipsychotic pregnant women can get is Haldol

Injections: what size needle are you using?

ন্থ IM: 21 gauge/1inch (1M- always pick the gauge/inch with the 1 in it) ন্থ Subcutaneous: 25 gauge/ 5/8ths (S looks like 5)

Heparin VS Coumadin:

- Reparin- given IV or SQ, works immediately, cannot be given for more then 3 weeks (except for Lovenox (LMWH), antidote: protamine sulfate, lab: PTT (count on your fingers "heparin" you're only left with 3 fingers), can be given to pregnant women.
- Coumadin- given only PO, takes a few days to a week to work, can take forever, antidote: vitamin K, lab: PT/INR (count on your fingers "Coumadin" you're only left with 2 fingers), cannot be given to pregnant women.

Potassium Wasting/Sparing Diuretics:

 \propto Any diuretic ending in X X's out K+ (wastes) + Direril \propto All others are sparing

Muscle Relaxers:

R Baclofen and Flexeril are most tested**

R When you're on your Baclofen you are your Back Loafin'

Piaget's Theory of Cognitive Development:

- Present oriented (0-2 y/o): teach while you do it verbally, pre-teach parents
 Pre-operational (3-6 y/o): fantasy oriented pick answer with "the
- morning/day of" or "two hours before" teach what you are going to do (future tense) through play
- Concrete operational (7-11 y/o): "concrete 7-11's" rule oriented, teach days ahead, teach what your going to do + skills with age appropriate reading and demonstration
- Formal Operational (12+ y/o): adult m/s question, teach like an adult, can manage their own care

7 Principles in Psych Nurse/Patient Relationships:

Make sure you know what phase of the relationship you are in
 Gift giving: Do not give/accept gifts from patients
 Don't give advice- "What do you think you should do"

- R Don't guarantee anything- "If you talk to me I can help you/don't cry you'll feel better"
- Rest answer is the one that keeps them talking (open ended), it's never wrong to get a patient to talk in any instance
- Concreteness- Don't use slang because psych patients take things literally.
 Don't ask them what their neologisms are
- Repathy- acknowledge feeling, always be empathetic. Never choose answers like this "don't feel..." "don't worry", Read the feeling in the q.
- Recognize an empathy question: always have quote in the question and in the answers.
- Ask yourself "If I said those words and meant them, how would I be feeling?"

Mark Klimek Lecture 12 - Prioritization/Delegation/MGMT

Priority/Delegation:

- Real Determine which pt is the sickest or healthiest depending on the question.
- Age, gender, dx, and modifying phrase, i.e.: "10 yr old male w/ hypospadias who's throwing up bile & emesis." *Irrelevant are age and gender*

3 Rules for Prioritization:

 \curvearrowright Acute beats chronic.

rest = 12 Fresh post op (1st 12hrs) beats medical & other surgical no matter what rest Unstable beats stable. If it says stable then it's stable.

Stable Pts:

- ন্থ The word "stable"
- R Post op greater than 12hrs
- R Local or regional Anesthesia
- A Lab abnormalities of an A or B level

෬ Unchanged assessment

Reperiencing the typical expected s/s of the disease with which they were diagnosed

Unstable Pts:

- Acute illness
- ন্থ The word "unstable"
- ন্থ General Anesthesia
- C R Lab abnormalities of C or D
- A Phrases "not ready for discharge", "newly admitted", "newly diagnosed", or "admitted less than 24 hrs ago"
- Reperiencing unexpected s/s of the disease with which they're diagnosed

Always Unstable Regardless of Whether It's Expected or Not (4):

- Remorrhage (there's a difference between bleeding)
- ন্থ High fevers (105+)
- A Hypoglycemia
- Real Pulselessness or breathlessness **Unless it was unwitnessed, then they're dead already and not a priority**

<u>3 Things That Result in Black Tags in an Unwitnessed Accident:</u>

- ন্থ Pulselessness
- ন্থ Breathlessness
- ☞ Fixed and dilated pupils (even if they're still breathing)...low priority

Tie Breaker:

 $\ensuremath{\mathfrak{Q}}\xspace$ The more vital the organ, the higher the priority

Order of Organ Vitality:

- ন্থ Brain
- ন্থ Lungs
- ন্থ Heart
- രു Liver
- ন্থ Kidney

Rancreas

Delegation: LPN

Do not delegate the following responsibilities to an LPN:

- GR Starting an IV
- 础 Hanging/Mixing IV meds
- Real Pushing IV Push meds, BUT they can maintain/document the flow
- They **can't** administer blood or mess with central lines (including flushing or changing central line dressings unless thats the only option they can do)
- They cannot plan the care, BUT they can implement but not create the care plan
- Real They can't perform/develop teaching, BUT they can reinforce it
- Ray They can't care for unstable patients
- RN must do the first of anything, RN must do the first of anything
- ↔ They can't do admission/discharge/transfer/first assessment after a change.

Delegation: UAP/Aid

- A Charting. They can chart what they did BUT not about the pt
- G Giving meds EXCEPT for topical OTC barrier creams
- Assessments other than vital signs and accu-chek (finger stick)
- A You CAN delegate ADL's but they should never do the first**
- II Do not delegate to the family of the pt safety responsibilities (i.e.: taking off restraints for a family member in the room)
- II With sitters/care givers, they can only do what you teach them to do and you must make sure you document that you taught them

Staff MGMT:

How do you handle inappropriate behavior amongst staff?

- There are always four answers: "Tell supervisor", "Confront them and take over immediately", "Approach them later on and talk to them about it", and "Ignore the behavior"
- ⊲ Ignore the behavior is **NEVER** the answer
- Ask yourself "Is what they are doing illegal?"
- call fyes, choose "Tell the supervisor" (always the answer in this case)

- call fit's harmful and illegal, confront first then tell supervisor



Where Are My Organs: (Point and click)

APT M: (Point and click)

Aortic Valve: 2nd intercostal space (at the right sternal border)
 Pulmonic Valve: 2nd intercostal space (at the left sternal border)
 Tricuspid Valve: 4th intercostal space (at the left sternal border)
 Mitral Valve: 5th intercostal space (at the mid clavicular line) (**apical pulse**)

Pulses: (Point and click)



How To Guess:

Use knowledge first, then common sense, then educated guess

- Respectively constraints of the second s
- Nutrition questions: in a tie, pick chicken (unless it's fried), if chicken's not there pick fish (not shellfish). Also never pick casseroles for children. Never mix meds in children's food. For toddlers choose finger foods. Preschoolers leave them alone, one meal a day is okay.
- C Pharmacology questions: Memorize side effects of drugs. If you know what a drug does but you don't know the side effects, pick a side effect in the same body system where the drug is working (i.e: GI drug pick diarrhea or a CNS drug pick drowsiness etc...). If you don't know what the drug is look to see if it's PO pick a GI side effect (works about 50/50). Never tell a child medicine is candy.
- ⊲ OB questions: check fetal heart rate.

 Med Surg questions: LOC over airway on assessments, but the first thing you do should be establish airway.

○ Pediatric Growth and Development questions-

<u>3 Rules based on the principle:</u>

(6 year old who can't read, 14 mo. can't walk, 6mo. trying to roll over v.s. sitting up)

Always give the child more time, don't rush their growth and development **Rule 1:** When in doubt call it normal

Rule 2: When in doubt pick the older age

Rule 3: When in doubt pick the easier task

Rule out generalized absolutes if you're guessing

- Real of two answers say the same thing, neither of them is right
- call f two answers are opposite, one of them is probably right
- A The "umbrella strategy": look for an answer that covers all the others without saying it does (i.e: use safety and good body mechanics when transferring a patient from bed to wheelchair)
- If the question gives you four right answers and the question is asking for prioritization, use the rules above, however if they give you one patient in the question and it asks "which needs is highest priority" don't use it! Do the worst consequence game. Choose the answer with the most severe consequence.
- ce When you're stuck between two answers, re-read the question
- A The Sesame Street Rule: (use as a last resort) Right answers tend to be different then the others because it is the only one which is right so the other "wrong" answers have something in common
- On't be tempted to answer a question based on your ignorance instead of your knowledge. Pull the "thing" you don't know out of the question and answer it with the things you know. Boards will give you things you never heard of to measure your common sense

- \sim Select all= It's never 1 and it's never all of them
- c∞ Conflicts on the job: never say you. Always say "I"
- Readache good thing to check on SATA!
- NEVER PICK INFECTION IN FIRST 72 HRS of anything!

<u>3 Expectations CAN'T HAVE because they cause negativity:</u>

- Rule #1*: Don't expect 75 questions, prepare to get all 265 questions. "I'm still in the game".
- c **Rule #2:** Don't expect to know everything.
- Rule #3: Don't expect everything to go right.