Question 1

A healthy 3 year old presents with a fever to 39.8 and stridor. The child reportedly has had a 3-day history of a "bark-like" cough, low grade fever and URI symptoms. She became acutely worse today and appears "toxic". The most likely diagnosis is?

A. Viral laryngotracheitis
B. Epiglottis
C. Retropharyngeal abscess
D. Foreign body
E. Bacterial tracheitis

Key Points # 1

- **Bacterial tracheitis**
  - Fever, toxic, stridor, secretions, S aureus
- **Epiglottis**
  - Older, unimmunized, drooling, toxic, no cough, H. Influenza
- **Viral laryngotracheitis**
  - Cough, stridor, non-toxic, parainfluenza
- **Retropharyngeal abscess**
  - Young, drooling, stiff neck
- **Foreign body**
  - Acute onset, afebrile, historical clues
Question 2
A 2 month old infant presents with a 2-week history of a cough and perioral cyanosis. The treatment of choice is?

A. High dose Amoxicillin
B. Azithromycin
C. Clindamycin
D. Steroids
E. Trimethoprim - sulfamethoxazole

Key Point #2
• Pertussis
  – Infants or Adolescents
  – Macrolide - limit spread
• Differential Diagnosis
  – Chlamydia trachomatis
    • Staccato cough, tachypnea afebrile,
  – PCP
    • Hypoxic, toxic, immunodeficiency

Question 3
A 5 year-old presents with migratory arthritis and this rapidly changing rash. The most likely diagnosis is?

A. Fifth disease
B. Juvenile rheumatoid arthritis
C. Rheumatic fever
D. Systemic Lupus
E. Lyme Disease
Key Points #3

• **Group A Streptococcus infections**  
  – Exudative pharyngitis, fever, anterior nodes  
  – Rheumatic fever  
    • Arthritis, chorea, carditis, nodules, erythema marginatum  
    • Prophylaxis  
    • Scarlet fever – no prophylaxis  
  – **PSGN**  
    • Skin infections, not preventable with antibiotics

Question 4

An afebrile 12 year old boy with nephrotic syndrome presents with a headache, vomiting and 6th nerve palsy. His sensorium is intact. The most likely diagnosis is?

A. Meningitis  
B. Sinus venous thrombus  
C. Brain abscess  
D. Sinusitis  
E. Lyme Disease

Key Points #4

• **Sinus Venous Thrombosis**  
  – Symptoms  
    • Headache  
    • Weakness  
    • Seizures  
  – Predisposing conditions  
    • Nephrotic syndrome  
    • Thrombophilia  
    • Meningitis  
    • Dehydration
Question 5
A child entering kindergarten has had multiple episodes of otitis media and a second episode of radiographically documented pneumonia. What is the most appropriate initial test for a possible immunodeficiency?

A. Serum complement levels
B. Serum immunoglobulin levels
C. CD4/CD8 ratio
D. Serum IgE levels
E. Serial complete blood counts for 6 weeks

Key Points #5
• AOM and Pneumonia
  – Encapsulated organisms
• Immunoglobulin Deficiency
  – X–Linked Agammaglobulinemia
  – Common Variable Immunodeficiency
  – IgA immunodeficiency
• Screening Tests
  – Immunoglobulins
  – Response to vaccines

Question 6
A 3 year old presents with a 1 month history of unilateral cervical adenitis. The child has been well appearing, afebrile and has had not traveled. A PPD measures 6 mm. The next step in the management is?

A. Isoniazid and Rifampin for 6 months
B. A repeat PPD in 3 months
C. A CT of the neck
D. Excisional biopsy
E. Azithromycin for 4 weeks
Key Points #6

- **Unilateral adenitis**
  - Acute
    - *S. aureus, Group A Streptococcus*
    - Antibiotics
  - Sub acute
    - Atypical Mycobacterium
    - History, PPD, excisional biopsy
    - Cat Scratch
    - History, serology, no treatment
    - Kawasaki Disease
      - IVIG
  - Chronic
    - Malignancy

Question 7

A 15 year old boy develops a fever to 101°F, headache and bilateral swelling of his parotid glands. The most likely complication of this illness is?

A. Acute airway obstruction
B. Sensorineural hearing loss
C. Orchitis
D. Myocarditis
E. Arthritis

Key Points #7

- **Parotitis**
  - Bacterial – ill appearing
  - Viral
- **Mumps**
  - Viral syndrome with swelling of parotid glands
  - Complication
    - Orchitis
    - CSF pleocytosis – most asymptomatic
    - Rare – myocarditis, arthritis etc.
- **Vaccine**
  - Live vaccine
A 15 year old complains of a sore throat, fever and a muffled voice. On examination the adolescent is found to have trismus. The most likely diagnosis is?

A. Tetanus
B. Retropharyngeal abscess
C. Infectious mononucleosis
D. Peritonsillar abscess
E. Herpangia

Key Points #8
- Peritonsillar abscesses
  - Adolescent, sore throat, hot potato voice, trismus
  - Dx – exam
  - Organisms – S. aureus, Group A Streptococcus, Anaerobes
- Retropharyngeal abscess
  - Toddler, stridor, stiff neck, dysphagia, torticollis
  - Dx – CT scan
- Infectious Mononucleosis
  - Adolescent, sore throat, lymphadenopathy, fatigue, fever
- Tetanus
  - Trismus and muscle spasm
  - Treatment
  - Penicillin
- Herpangina
  - Peritonsillar ulcers/vesicles
  - Enteroviral infection

What is this 4 year old child’s diagnosis?

A. Epiglottis
B. Laryngotracheitis
C. Retropharyngeal abscess
D. Neuroblastoma
E. Tracheitis
Key Points #9

• **Retropharyngeal Abscess**
  – Children between 2-4 years
  – Difficulty swallowing
  – Pain with swallowing
  – Decreased oral intake
  – Neck stiffness
  – Diagnosis – Lateral Neck Film/CT scan

Question 10

A 3 year old presents with a three day history of fever and cough. Today he developed respiratory distress. In addition to supportive care what is the most appropriate treatment plan?

A. CT Scan of chest
B. Ceftriaxone
C. PPD
D. Bronchoscopy
E. Amphotericin

Key Points #10

• **Pneumococcal pneumonia**
  – Most common bacterial pneumonia
  – Acute, fever, tachypnea, cough, focal infiltrate
    • Round pneumonia
  – Treatment
    • Inpatient – Ceftriaxone
    • Outpatient – High dose Amoxicillin
    • Resistance – Lack of PCP’s
A 3 year old presents with a month history of cough, fever and weight loss. His CXR demonstrates a focal infiltrate with hilar lymphadenopathy. A PPD measures 7 mm. The most appropriate treatment plan is?

A. Repeat PPD in 3 months  
B. Bronchoscopy  
C. Gastric lavage  
D. Isoniazid for nine months  
E. Isoniazid, Rifampin and Ethambutal for 6 months

Question 11

Key Points # 11

• Mycobacterium tuberculosis
  – History
    • Immigrant, insidious, weight loss, hilar nodes
  – PPD
    • 5 mm – high risk – symptoms, HIV
    • 10 mm – medium – age less than 6, immigrant, travel
    • 15 mm – low
  – Diagnosis – gastric lavage
  – Treatment
    • Four drugs then based on sensitivities
    • Side-effects
    • Prophylaxis
      – INH – 9 months

A 12 month old is admitted because of staphylococcal pneumonia. She also has a history of easy bruising and gingivitis. Giant cytoplasmic granules are noted in peripheral leukocytes. The most likely diagnosis is?

A. Job’s Syndrome  
B. DiGeorge Syndrome  
C. Chronic granulomatous disease  
D. Chediak – Higashi Syndrome  
E. Wiskott – Aldrich Syndrome
Key Points #12

- **Chediak – Higashi Syndrome**
  - Repeated pyogenic infections
  - Oculocutaneous albinism
  - Coagulation Defects
  - Progressive Neurological Issues
  - Giant cytoplasmic granules

Question 13

A febrile irritable 20 month old male presents with a two day history of a “crusty” exorciation under his nose. This was followed by a diffuse erythematous painful rash. The most likely diagnosis is?

A. Kawasaki disease  
B. Staphylococcal scalded skin syndrome  
C. Toxic shock syndrome  
D. Roseola  
E. Enteroviral infection

Key Points #13

1. **Staphylococcal Scalded Skin Syndrome**
   1. Symptoms
      1. Non-toxic, impetigo, painful, sunburn rash, skin peels readily.

2. **Toxic Shock Syndrome**
   1. Hypotension
   2. Fever
   3. Rash
   4. Desquamation
      1. Plus three or more organ systems involved
A 10 year old child presents with a four day history of irritability and recurrent fevers. Today he is afebrile and had a diffuse erythematosus rash on his trunk. You diagnose the child with roseola. Which of the following is a common complication of this disease?

A. Arthritis  
B. Febrile seizures  
C. Aseptic meningitis  
D. Thrombocytopenia  
E. Hepatitis
Key Points # 15

• Roseola
  – Fever followed by rash
  • HHV6 infection
  – Complications
  • Febrile seizures

• Complications
  – Parvovirus – arthritis
  – EBV – hepatitis
  – Aseptic meningitis – Kawasaki
  – Thrombocytopenia – RMSF

Question 16

A premature 11 month old infant receives a dose of palivizumab for prophylaxis against RSV infection. When should the next dose of MMR vaccine be administered?

A. 1 month  
B. 3 months  
C. 6 months  
D. 9 months  
E. One year

Key Point #16

• MMR Vaccine – Live vaccine
  – Intervals
    • Palivizumab - None
    • PRBC – 5 months
    • IVIG – 11 months

• Fun facts
  – Not contraindicated with egg allergy
  – PPD suppressed for 6 weeks
  – If greater then 2/kg steroids – wait one month
  – No effect of inadvertent MMR on pregnancy
Question 17

A 16 year old boy who has recently immigrated from El Salvador presents to the ED with a new onset seizure. The MRI reveals an multiple 2-3 mm spherical lesions. The most appropriate diagnostic test is?

A. Stool O and P
B. Serological studies for *T. Solium*
C. PPD
D. Lumbar puncture for oligoclonal bands
E. Brain biopsy

Key Point #17

- **Cysticercosis**
  - *T. Solium*
  - Ingesting eggs – fecal – oral route
  - New onset seizures
    - Mexico, Latin America
    - Characteristic MRI
    - Diagnosis with serology
  - Treatment - Praziquantel

Question 18

A fourteen year old male presents to the ED after sustaining a laceration with a lawn motor blade. He has not received any vaccinations in the past 5 years. Although his mother reports he received all recommended immunizations as a child. He should receive?

A. Td and TIG
B. Tdap
C. DT
D. Tdap and TIG
E. TIG
Key Points #18

No Contraindication
DTaP – under 7
TdaP – Adolescents

Contraindication
Td – greater than 7
DT – less than 7

V = vaccine

<table>
<thead>
<tr>
<th>Vaccine Clean V/TIG</th>
<th>Dirty V/TIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown or &lt; 3 doses</td>
<td>Y / N</td>
</tr>
<tr>
<td>3+ doses</td>
<td>Y / N</td>
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<tr>
<td></td>
<td>If &gt; 10 yrs</td>
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</tbody>
</table>

Question 19
Which of these two vaccine pairs, if not given simultaneously (at the same visit) should be separated by at four least weeks?

A. Hepatitis A and Hepatitis B
B. IPV and Pneumococcal
C. DTaP and Hib
D. MMR and Varicella
E. MMR and Hepatitis B

Key Points #19

- Live vaccines if not given simultaneously need to be separated by 4 weeks
  - Learn contraindications of live vaccines
- “egg based” vaccines
  - Influenza (injectable)
  - Yellow fever
  - Measles and mumps (chick embryo)

A. Acute hepatitis A and B infections
B. Chronic hepatitis A and B infections
C. Previous vaccination against hepatitis A and B
D. Chronic hepatitis B infection and acute hepatitis B infection
E. Past hepatitis B infection and acute hepatitis B infections

A 14 year old boy presents with a 10 day history of foul smelling watery diarrhea and abdominal pain. What is the most likely cause of his symptoms?

A. Norwalk virus
B. Giardia
C. Campylobacter
D. Yesinia
E. Helicobacter
Key Points #21

- Small intestine
  - Watery, high volume, frequent
    - Rotavirus, Norwalk, Adenoviruses, Giardia
- Large Intestine
  - Blood, small volume, mucus, travel
    - Salmonella – food, turtles
    - Campylobacter – unpasteurized milk, GBS
    - Yersina – “chittlings”
    - Shigella – food, neurotoxin
    - E-coli O157H7 – food, HUS
    - E-coli – travel associated – watery
    - C. difficle - antibiotics

Question 22

An 12 year old returns from a three month trip to India. She complains of a 10 day history of fever, chills, abdominal pain and myalgia. Her examination is unremarkable. Lab results WBC – 6,000 Hb – 13.6 Plt – 400,000 AST – 120

Her most likely diagnosis is?

A. Malaria
B. Typhoid fever
C. TB
D. Hepatitis B
E. Yellow fever

Key Points #22

- Malaria
  - Fever, splenomegalay, hemolytic anemia
- Typhoid
  - Flu- like illness, normal WBC
- TB
  - Longer incubation period
- Hepatitis B
  - No risk factor for traveling adolescents
- Yellow fever
  - Africa, South America
Question 23
Which is the preferred diagnostic test to confirm an HIV infection in one month old infant born to an HIV positive mother?

A. HIV p24 antigen assay  
B. HIV DNA PCR  
C. HIV culture  
D. HIV serology  
E. CD4/CD8 ratio

Key Points #23
- **HIV serology** can be falsely positive for up to 18 months after birth
- **HIV p24 antigen test** – false positives and negatives
  - Not recommended
- **HIV culture** – requires 4 weeks, not readily available
  - Not recommended
- **HIV DNA PCR**
  - Highly sensitive and specific
  - Considered infected if two separate positive tests
- **CD4/CD8 ratio**
  - Not useful in the neonatal period

An infant was born to a 26-year old female with a history of syphilis during the first trimester of pregnancy, as evidenced VDRL result (titer 1:8). The woman received one injection of 2.4 million units of benzathine penicillin. At delivery, her VDRL had a titer of 1:64. In evaluating this infant the appropriate conclusion is that -

A. The infant requires no further therapy  
B. The infant has a high probability of having congenital syphilis  
C. If the infant’s long bone radiographs show no abnormality, no treatment is indicated  
D. This child may be given a shot of benzathine penicillin, and no further serologic evaluation is necessary
Key Points #24
Evaluate infants for congenital syphilis if:
• Fourfold increase in maternal titer
• Infant has clinical manifestations of syphilis
• Syphilis is untreated, inadequately treated, or treatment not documented
• Mother treated with non-penicillin regimen
• Mother treated <1 month before delivery
• Treated before pregnancy but with insufficient serologic follow-up

Evaluation for syphilis in an infant:
• Quantitative nontreponemal serologic test of serum from infant
• VDRL test of CSF, cell count, protein concentration
• Long-bone Xrays
• CBC w/platelets

Question 25
A 10-year-old child develops ascending paralysis with peripheral neuropathy (cranial nerves are normal); the CSF is normal except for an elevated protein level. The likely infectious agent precipitating this syndrome is -

A. Corynebacterium diphtheriae
B. Clostridium botulinum
C. S. dysenteriae serotype 1
D. Campylobacter jejuni
E. Clostridium tetani

Key Points #25
• Guillain-Barre Syndrome
  • Motor polyradiculoneuropathy
  • Muscle pain, symmetric, ascending paresis, areflexia
  • Relative symmetry, mild or no sensory
  • Cranial nerve involvement, autonomic dysfunction
  • Absence of fever
• CSF Features
  Elevated protein after first week
  Fewer than 10 mononuclear cells
• Electrodiagnostic features
  Nerve conduction slowing
• Etiology:
  Campylobacter jejuni, CMV, EBV, M. pneumoniae
A newborn infant is found to have microcephaly, jaundice and petechiae at birth. A head CT is as shown. This child should be followed serially by what modality?

A. Hearing evaluations  
B. Ophthalmologic evaluations  
C. CSF examinations  
D. CBCs  
E. Peripheral titers

Keypoint #26

- Congenital CMV
  - 90% asymptomatic at birth
  - IUGR,
  - Jaundice,
  - Microcephaly,
  - HSM,
  - Intracerebral calcifications (perventricular) vs. Toxo

- Test – Urine viral culture

- Asymptomatic – 90% go onto develop sensorineural hearing loss

A two year old child recently adopted from Brazil is brought to a pediatrician's office because of failure to thrive pallor and diarrhea. A CBC reveals a WBC of 10.0, Hb of 9.0 and Platelet count of 400,000. Her albumin is 2.3. The most likely cause of this child's symptoms is?

A. Entamoeba histolytica  
B. Ascaris lumbricoides  
C. Necator americanus  
D. Enterobius vermicularis  
E. Malaria falciparum
Keypoint # 27

• *Necator americanus*
  - Anemia
  - Hypoproteinemia
  - Eosinophilia

• *Entamoeba histolytica*
  - Most asymptomatic
  - Colitis
  - Hepatic abscess

• *Ascaris lumbricoides*
  - Most asymptomatic
  - Pulmonary symptoms
  - Intestinal obstruction

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**Question 28**

**Primary pulmonary histoplasmosis in normal children is usually?**

A. Asymptomatic
B. Associated with severe flu-like symptoms
C. Treated with assisted ventilation and steroid therapy
D. Associated with sarcoid-like disease
E. Complicated by mediastinal fibrosis

---

Keypoint # 28

**Histoplasmosis**
- Causes symptoms in fewer than 5% of infected people
- Site (pulmonary, extrapulmonary, disseminated)
- Mississippi, Ohio, Missouri River Valley

**Coccidioidomycosis**
- Asymptomatic or self-limited 60%
- May resemble influenza, diffuse erythematous maculopapular rash, erythema multiforme, erythema nodosum
- Dissemination to skin, bones, joints, CNS is rare
- California, Arizona, New Mexico, Texas, Utah, northern New Mexico, certain areas of Central and South America

**Blastomycosis**
- May be asymptomatic or acute, chronic or fulminant disease
- Pulmonary and cutaneous lesions
- Can disseminate to bones, CNS, abdominal viscera, kidneys
- Southeastern and central states and those bordering Great Lakes
Question 29

All of the following are consistent with the diagnosis of congenital toxoplasmosis in an infant EXCEPT

A. An infant with normal findings on newborn evaluation
B. An infant who is small for gestational age
C. A CSF protein level of 3 g/dL
D. An infant whose mother has no serologic evidence of Toxoplasma gondii infection
E. An infant whose mother has AIDS and is chronically infected with T. gondii

Key Points # 29

- Congenital Toxoplasmosis
  - Asymptomatic at birth 70-90%
  - Many will go on to have visual impairment, learning disabilities, mental retardation
  - At birth, may have maculopapular rash, generalized lymphadenopathy, hepatomegaly, splenomegaly, jaundice, thrombocytopenia
  - CNS manifestations: hydrocephalus, microcephaly, chorioretinitis, seizures, deafness
  - Cerebral calcifications are diffuse
  - Members of cat family are definitive hosts

Question 30

A 5-month-old previously healthy female is brought to her pediatrician because of fever, irritability, and poor feeding. She is the second child in her daycare center to be diagnosed with meningitis within a week. She has received all recommended immunizations. The most likely cause of her meningitis is -

A. Haemophilus influenzae
B. Neisseria meningitidis
C. Group B streptococci
D. Herpes simplex virus
E. Listeria monocytogenes
Key Points # 30

- **Neisseria Meningitidis**
  - Children younger than 5, greatest attack rate in less than 1 year
  - Adolescents 15-18 years
  - Freshmen college students who live in dormitories
  - Close contacts of patients with meningococcal disease
- **Deficiency of terminal complement, properdin, or anatomic or functional asplenia**
- **Meningococcemia, meningitis**
  - Waterhouse-Friderichsen-purpura, DIC, shock, coma, death
- **Vaccine**
  - A, C, Y, W135 – no B

---

Question 31

Which of these organisms is typically sensitive to cephalosporins?

A. *Enterococcus*
B. *Proteus mirabilis*
C. *Listeria monocytogenes*
D. *Pasteurella multica*  
E. *Bacteroides fragilis*

![Question 31 Answers](image)

Keypoint #31

Proteus mirabilis is usually susceptible to cephalosporins

*Enterococcus* - Ampicillin, Vancomycin
*Listeria monocytogenes* - Ampicillin
*Pasteurella multica* - *Penicillins*
*Bacteroides fragilis* - metronidazole, carbapenems, beta-lactam/beta-lactamase inhibitor
A 10 day old infant presents with fever, irritability, decreased feeding and poor capillary refill. The infant's vital signs are Temp 39.0 HR 180 RR 26 B/P 60/25. The baby was born full term without any complications. In addition to ampicillin and ceftriaxone, the infant should be treated with:

A. Vancomycin  
B. Acyclovir  
C. IVIV  
D. Prostacyclin  
E. Azithromycin

Key Points # 32

- Neonatal Herpes Infections
  - As common as bacterial meningitis
  - Risk of HSV infection at delivery in an infant born vaginally to a mother with primary infection of 33-50%
  - If born to a mother with reactivated infection of less than 5%
  - Neonatal HSV may be:
    1) disseminated  
    2) localized to CNS  
    3) localized to skin, eyes, mouth

Question 33

A 5 year old child presents to the emergency department 12 hours after receiving a dog bite to his hand. The hand is swollen, red and painful. The intravenous antibiotic of choice is:

A. Ceftriaxone  
B. Doxycycline  
C. Clindamycin  
D. Ampicillin – Sulbactam  
E. Erythromycin

0% 0% 0% 0% 0%

0% 0% 0% 0% 0%

0% 0% 0% 0% 0%
Key Points # 33

- **Animal Bites**
  - *Pasteurella multica* – rapid < 24h hours
  - *Staphylococcus aureus*
  - Mixed Infections
- **P. multicida**
  - Drug of choice - penicillin
  - Resistant to many cephalosporins

Question 34

An 17 year old sexually active female presents to the ED complaining of malodorous, frothy vaginal discharge. A wet mount is as shown. The drug of choice is?

A. Ceftriaxone
B. Clindamycin
C. Metronidazole
D. Fluconazole
E. Azithromycin

Key Points # 34

- **Trichomonas Vaginalis**
  - Asymptomatic in 90% of men and 50% of women
  - Frothy vaginal discharge and mild vulvovaginal itching and burning, pale-yellow to green-gray DC, musty odor
  - Deeply erythematous vaginal mucosa, friable cervix
  - Wet-mount prep
  - Metronidazole or Tinidazole
A 15 year old girl had sexual intercourse for the first time a week ago. She has received 3 doses of the quadrivalent HPV vaccine. Which of the following statements are true?

A. Secondary to “cross protection” she is protected from all strains of HPV
B. She is fully protected against HPV related cervical cancer
C. She has a decreased risk of developing genital warts
D. She should receive a booster dose now.
E. If her partner used a condom her risk for HPV is reduced by 95%

Key Points # 35

- **Human Papilloma Virus**
  - Condylomata Acuminata – skin colored warts with a cauliflower-like surface
  - HPV the cause of cervical, vulvar, vaginal cancers
  - HPV Vaccine
    - 16, 18 cervical cancer – 67% decrease
    - 6,11 cervical warts – 98% decrease

Abdominal pain and bloody diarrhea develop in a 2-year-old boy two days after completion of therapy for otitis media. The child is febrile and has abdominal distention. An assay for C. difficile toxin in positive. The most appropriate next step in the management of this child is?

A. Confirmatory stool culture for C. difficile
B. A colonoscopy to determine the extent of the disease
C. Initiation of oral metronidazole
D. Initiation of oral Vancomycin
E. Initiation of IV Vancomycin
Key Points # 36

- C. Difficile
  - Pseudomembranous colitis – diarrhea, abdominal cramps, fever, systemic toxicity, abdominal tenderness, stools with blood and mucus
  - At risk groups for severe or fatal disease are: leukemics with fever and neutropenia, Hirschsprung, IBD
  - Diagnosis
    - C. Difficle toxin
    - Infants have greater than 50% positivity
  - Treatment
    - Discontinue antibiotics
    - Oral metronidazole
    - In severe disease, if diarrhea persists – vancomycin

Question 37

A 10 day old infant presents with fever and irritability. The infant’s mother was ill with fever, malaise and abdominal pain 7 days prior to delivery. She reports her Group B strep status as negative. A lumbar puncture revealed a RBC count of 50 and a WBC count of 2,500. The most likely organism causing this child’s meningitis is?

A. Group B streptococcus
B. Escherichia coli
C. Listeria monocytogenes
D. Enterviral
E. Herpes Simplex

Key Points # 37

- Listeria monocytogenes
  - Infections associated with maternal flu like illness, fever, malaise, GI symptoms
  - Early or late onset
    - Early – preterm, pneumonia, sepsis
    - Late - Meningitis
A nurse reports 2 week old infant born at a gestational age of 33 weeks is no longer moving his right leg. An x-ray of the child’s leg reveals a lytic lesion in his femur and tibia. The most likely etiologic agent is?

A. Group B streptococcus  
B. S. aureus  
C. S. epidermidis  
D. Pseudomonas aeruginosa  
E. Kingella kingae

Key Points # 38

- **Neonatal Osteomyilits**  
  - Most likely – Group B streptococcus  
  - Multifocal  
  - Pseudo-paralysis  
  - Afebrile

An adolescent patient with ALL is being treated for prolonged fever and neutropenia. On a routine set of electrolytes it is noted that her serum potassium is 2.0. Which of the following drugs is most likely the cause of this patient’s hypokalemia?

A. Vancomycin  
B. Amphotericin  
C. Cefepine  
D. Acyclovir  
E. Gentamicin
Key Points # 39

- **Complications of Amphotericin**
  - Systemic
    - Fever, Chills
  - Renal
    - Azotemia
    - Hypokalemia
  - Essentially any other system as some potential side-effects

Question 40

A 6 month old is admitted to the hospital for elective tonsillectomy. During your history and physical examination the mother reports he was exposed to varicella at day care 48 hours ago. At this time you should?

A. Place the baby on respiratory isolation
B. Place the baby on respiratory isolation and administer VZIG
C. Place the baby on respiratory isolation and administer both the varicella vaccine and VZIG
D. Administer VZIG only and reschedule the surgery
E. No special precautions

Key Points # 40

- **Varicella**
  - Incubation 7 to 21 days
- **Indications for VZIG**
  - Immunocompromised
  - Newborn- mothers onset 5 days before to 2 days afterward
  - Preterm infant < 28 weeks
- **Exposure**
  - Household
  - Face to face play
  - Hospital — same room, face to face contact
Answers

1 - e
2 - b
3 - c
4 - b
5 - b
6 - d
7 - c
8 - d
9 - c
10 - b
11 - c
12 - d
13 - b
14 - c
15 - b
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33 - d
34 - c
35 - c
36 - c
37 - c
38 - a
39 - b
40 - e