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Examination for MSc Course Title: Pediatr		in: <u>Health care/Neonatolog</u>	<u></u>		
Date: October 19, 20	13	(Paper III)	7	Tanta University	,
Time allowed: 3 Hou Total Assessment Ma		(3 Pages)	Fa	culty of Medicion	ne
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All questions sho		[Q1= Health] ====================================	Care, and Q 2 to (26 = Neonatolo ========	gy] =====
Question Numbe	<u>r:</u>				<u>Marks</u>
Q 1)					
(Q 1)	- 34				
A Describe the p	athogenesis o	of celiac disease with ev	idence.		(10)
B Enumerate the	indications of	f tota! parenteral nutritio	on. ' ' swroe	3 C	(5)
	1 (4	im protice -> 7		, = = = = = = = = = = = = = = = = = = =	
Problem Solvi	<u>ng :</u>	cHo -> 4 lipid -> 9		1,	(4)
parenteral nutritic infusion at 5.5 cc amino acids per a. How many calc per day?	on (TPN). He is the of crystallo 100 cc. ories from carb	onatal !CU weighing 850 s getting intralipids 10% oid containing Dextrose conydrate, protein and fathe patient getting per constant of the patient getting per constant in the patient getting get	at 1 cc/hr and 12.5% and 2 gr at is the patien	a separate ams of	
MCQs: (2 x 3	marks)	FT 13-		ر کرس	ø
immunized pre a. Hepatitis B b. Tetanus vac	eviously? vaccine ccine ertussis vaccine polio vaccine	e given to an <u>8</u> year old g			
2] Vitamin K is ar factors Except a. factor VII b. factor VIII c. protein S d. factor IX e. factor X		actor in the activation o		rongulation	
• efectrolyte	management,	parenteral nutrition for p nutrient requirements, l nd complications)			(14)
error of m b. Types of r c. Differentia	ry studies for a letabolism. neural tube def	newborn suspected of ects. neonatal abdominal ma	_	orn	(5) (5) (5) (5)

Q 4) Mention of the following: (4 x 4 marks)

- a. Causes of neonatal bradycardia.(4)b. Pitfalls in Apgar score.(4)
 - c. Hereditary causes of neonatal bleeding and their mode of inheritance. (4)

(4)

(3)

(3)

d. Post natal manifestations of surgical emergencies and their appropriate causes.

Q 5) Problem Solving: (5 x 3 marks)

1- A preterm 650 gm 24 weeks infant reported to have the blood Cx positive for Listeria monocytogenes. CBC showed 3.1 WBC, segs 15%, Hb 12, Hct 35%, NRBC 28. Electrolytes: Na 128 K 3.9, Gluc 178, bili 4.7.

The CSF analysis showed: xanthochromia, RBC 13, NRBC 2, glucoce 116.

a- What is your diagnosis? b- How to approach the mother?

2- A 26-day-old 3.5 kg infant is stooling in large quantity after reanastomosed following ileustomy. You started the baby on loperamide 0.1 mg po TID.

The nurse is asking to add thickening agent to the formula to decrease the transit time.

= What is the best action?

- 3- A 37 wk 4.5 Kg IDM, born after difficult labor, is noted to have respiratory distress. The CBC showed WBC of 24 with bands of 4%, Hb is 19 g/dl. Chest x-ray showed no fractures and clear lung fields.
 - = What is the most likely cause for the respiratory distress?

4- A 6-day-old female infant presents to the NICU with jaundice. She was

delivered at term after an uncomplicated pregnancy, with a birth wt of 2.8 kg.
The parents are first-degree cousins, and the family history is unremarkable.
The baby is breastfed. The prenatal history is not well-known. Examination reveals a hypoactive, jaundiced infant whose temperature is 36.2°C, heart rate is 156 /min, RR is 35 breaths/min, and BP 60/35 mm Hg. His weight is 2.9 kg, length is 50 cm, and HC 35 cm.. She has a regular heart rate and rhythm, with no murmurs.

The lungs are clear to auscultation bilaterally. His liver is palpable 4 cm below the costal margin. The remainder of the examination are normal. Lab. results: serum total bilirubin 24 mg/dL with a direct bilirubin of 3 mg/dL; serum AST, 38 U/L; ALT, 19 U/L; y-glutamyl transferase, 144 U/L; ALP 520 U/L, creatinine, 0.4 mg/dL; sodium, 149 mEq/L, potassium, 4.6 mEq/L, and negative CRP. CBC: hemoglobin 18 g/dL; hematocrit, 46%, WBC 10 x10³/cmm with normal DLC and platelet

a- What is your diagnosis?

count_224 x 109/L.

b- What is most important investigation at this point?

5- The nurse from the newborn nursery calls you about a 16 hr old baby whose glucose is 30 mg/dl. He is being fed by breast and mom who is gravida 5 para 5 is happy with the amount. The delivery was uncomplicated with Apgar of 9/9.

The birth weight was 2.8 kg. On exam you note slight jitteriness, fair muscle tone, soft non-distended abdomen, mild tachypnea, no murmur and normal male genitalia with penis of 3 cm and bilatera! descended testes. His lab. shows normal CBC.

Na 135, Ci 95, K 4.5, HCO3(13) BUN 12, creatinine 0.8.

= What is the most appropriate initial test that would help in diagnosis?

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21 PC

b) Infection.

c) Vulnerability of pre-oligodendroglia to free radicals.

d) Hyperoxia during resuscitation.

Chairman of Department:

Prof. Dr. Adel Ali Erfan.

Examination for MSc/Diploma Degree in: Pediatrics

Course Title: Pediatrics



Date: October 7, 2013 (Paper I) Time allowed: 3 Hours **Faculty of Medicine** Total Assessment Marks: 100 (3 pages) **Department of Pediatrics** All questions should be tried Question Number: Marks Q1) Discuss management of life threatening cardiac arrhythmia in ER and PICU (ECG figures required) (20)Q2) A- Discuss briefly the clinical presentations and investigations of Systemic Lupus Ervthematosus in children. (6)B- Enumerate causes of pulmonary hypertension in children. (3) C- Problem solving: (3) A 10 years old male presented with history of productive cough, headache and fever off and on for the past 4 years. On examination, patient had clubbing. On systemic examination, bilateral crepitations and rhonchi were present. A chest X-ray was done which showed dextrocardia. Echocardiogram was done and revealed left ventricular ejection fraction (LVEF) 65% and mitral flow E/A 1.4. a) What is the possible diagnosis of this child? b) Mention 4 laboratory investigations must be done for this case. c) What is the significance of LV EF? C- MCQs: 1- Compared to oral digitalizing dose in treatment of CHF in children, the parenteral dose of digoxin is: (2)b) 25%, d) 75% a) 10%, c) 50%, 2- All of the following are true regarding ventricular tachycardia in children Except: (2)a) There may be positive family history of ventricular arrhythmia or sudden death. b) VT may signify serious myocardial pathology or dysfunction, and it may occur in healthy children with normal heart. c) It occurs due to accessory conduction pathway between the atrium and the ventricle. d) IV amiodarone is used in treatment of patients with drug-refractory VT. Q3) A- Discuss in brief differential diagnosis of acute flaccid paralysis. (6)B- What is the meaning of selective pyramidal weakness? (3)(3) C- Problem solving: A six-year-old male child was referred to hospital with acute right hemiplegia . He had three episodes of transient left-sided weakness with facial deviation occurring

over the preceding 2 months prior to referral. There had been no alteration in his sensorium during or following these episodes. There were no seizures. The episodic weakness lasted for 3-4 days, followed by complete recovery. He had no neurological deficit in between attacks. He had no

C- Problem Solving A 33 yrs old woman gives birth to a baby girl. The next day the baby begins to bleed from vagina and from venipuncture sites. Laboratory studies demonstrated decreased platelets, prolonged PT, and PTT and increased fibrin split products. a) What is the possible diagnosis? b) What is the treatment?	(3)
D- MCQs 1- Thrombocytopenia is a recognized association with all of the following Except: a. Henoch-Schonlein purpura b. Septicemia c. Von Willebrand disease d. Hypersplenism	(2)
2- The bad prognostic cytogenic abnormality in AML is: a. Translocation (8,21) b. Translocation (15,17) c. Translocation (9,22) d. Translocation (16,16)	(2)
Q6)	
A) Describe clinical manifestations of meningococcal meningitis in 3 years old child. B) Enumerate: common complications of mumps.	(6) (3)
C) Problem solving: A child one years old was admitted to pediatric ICU in isolated room. He presented by severe hypoxia, bilateral basal crepitations and respiratory failure. The patient is known to have HIV infection, plain x-ray show perihilar and parenchymal infiltrates with "ground-glass" appearance. a) What is the most common organism causing this pneumonia? b) What is the drug of choice for treatment of this organism? c) Enumerate 4 antiviral drugs active against HIV.	(3)
C) MCQs: 1- A 15 month old child presents to your office with a high fever and an intense, red rash on the cheeks with circumoral pallor. The most likely etiology of his febrile exanthema is: a) Enterovirus 71 b) Adenovirus c) Parvovirus B19 d) Rubeola virus e) Coxsackievirus A16	(2)
2-Which of the following is a TRUE statement about varicella? a) It has an incubation period of 5 – 7 days b) The prodromal stage is severe with high fever c) It is associated with Koplik spots d) Fever increase with the appearance of exthanthum e) It can cause visceral dissemination in the immune-compromised host	(2)