

NEONATOLOGY BOARD EXAMINATION SEMINAR SERIES

Section 1: Introduction to the Neonatology Board Exam (Saxonhouse & Bernstein)

<u>Week</u>	<u>Date</u>	<u>Discussant</u>	<u>Subject</u>	<u>Reading</u>
1	7/13	MAS/HMB	Overview Formulas References/Books	none

Section 2: Maternal-Fetal Medicine (Burchfield)

<u>Week</u>	<u>Date</u>	<u>Discussant</u>	<u>Subject</u>	<u>Reading</u>
2	7/20	DJB	Pretest	none
3	7/27	DJB	Maternal Adaptation to Pregnancy/Hormones during Pregnancy	PF 97-103
4	8/3	DJB	The Placenta: Part 1	PF 85-103, 111-131 Fan 393-402
5	8/10	DJB	The Placenta: Part 2	(as above)
6	8/17	DJB	Maternal Disorders Affecting the Fetus (e.g. IDDM)	Fan 277-286, 320-324
7	8/24	DJB	Hypertensive Disorders of Pregnancy	PF 142-159; Fan 263-276
8	8/31	DJB	Fetal Screening	Fan 102-107, 109-129
9	9/7	KB	Assessment of Fetal Status	Fan 131-143
10	9/14	MAS	Hydrops	Fan 335-370
11	9/21	DJB	Fetal Growth/Composition	PF 266-274
12	9/28	DJB	IUGR and SGA	Fan 228-262 PF 259-265
13	10/12	KB	Management of Preterm Labor	Fan 287-319
14	10/19	KB	Management of Labor/ Delivery	Fan 325-334
15	10/26	KB	Complications during Pregnancy	Fan 460-487
16	11/2	DJB	Perinatal Infections	Fan 371-392

17	11/2	HMB	Human Teratogen Exposure/ Pharmacology/Environmental Risks	Fan 215-226, 144-166
18	11/9	DJB	Posttest	none
19	11/16	MAS	Discussion	none

Section 3: General Care/Fluids & Electrolytes/ Nutrition (Saxonhouse)

<u>Week</u>	<u>Date</u>	<u>Discussant</u>	<u>Subject</u>	<u>Reading</u>
20	11/30	MAS	Pretest	none
21	12/14	MAS	Thermoregulation	Fan 512-530; PF 548-588
22	12/21	MAS	Water Metabolism	Fan 619-626; PF 1341-1356
23	1/11	MAS	Electrolyte Metabolism	Fan 619-626;
23	2/01	MAS	Acid-Base Balance	Fan 627-634; PF 1361-1364
24	2/08	MAS	Fetal & Neonatal Energy	Fan 578-581
25	2/15	MAS	Proteins/Carbohydrates/Fats	Fan 578-618 PF 375-540
26	2/22	MAS	Vitamins/Trace Elements	Fan 578-618
27	3/01	MAS	Human Milk/Formula	Fan 578-618
28	3/08	MAS	TPN	Fan 578-618
29	3/15	MAS	Posttest	

Section 4: The Respiratory System (Morse)

<u>Week</u>	<u>Date</u>	<u>Discussant</u>	<u>Subject</u>	<u>Reading</u>
30	3/29	SM	Pretest	none
31	4/05	SM	Lung Development/Lung Fluid	Fan 973-990; PF 783-793
32	4/12	SM	Surfactant	PF 1005-1054, 1074-

				1094
33	4/19	SM	RDS	Fan 1001-1010; PF 926-933, 1055-1073
34	4/26	DJB	MAS	Fan 1025-1028
35	5/3	MAS	Apnea/Control of Breathing	Fan 1038-1043; PF 905-918
36	5/10	SM	Respiratory Mechanics: Part I	PF 864-869
37	5/17	SM	Respiratory Mechanics: Part II	PF 919-925
38	5/24	SM	O ₂ /CO ₂ Physiology: Part I	PF 880-889
39	5/31	SM	O ₂ /CO ₂ Physiology: Part II	PF 900-904
40	6/7	SM	Mechanical Ventilation	PF 961-978
41	6/14	SM	High Frequency Ventilation	PF 979-984
42	6/21	SM	NO/ECMO	Fan 1070-1094
43	6/28	MAS	Other Pulmonary Diseases and Anomalies	Fan 1025-1048
44	8/2	SS	Extrapulmonary causes of Respiratory Distress	Fan 1049-1056
45	8/9	SM	Chronic Lung Disease	PF 954-960; Fan 1057-1069
46	8/16	MAS	Posttest	

Section 5: The Cardiovascular System (Saxonhouse)

47	8/30	MAS	Pretest	none
48	9/6	MAS	Embryology	Fan 1095-1101; PF 613-620
49	9/13	JW	Fetal and Neonatal Physiology	Fan 1104-1107
50	9/20	JP	Cardiac Hemodynamics	Fan 1108-1111
51	9/27	AS	Congenital Heart Disease I	Fan 1112-1149; PF 705-716

52	10/4	AS	Cong. Heart Disease II	(as above)
53	10/11	WD	Cong. Heart Disease III	(as above)
54	10/18	NK	Cardiomyopathy/Failure	PF 772-782; Fan 1140-1149
55	10/25	MDE	PDA	PF 743-747
56	11/1	JM	Arrhythmias & ECG	Fan 1150-1162
57	11/8	MB	Cardiac Surgery	Fan 1163-1182
58	11/15	AC	Echocardiography	none
59	11/29	MAS	Posttest	

Section 6: Infectious Diseases/Neonatal Immunology (Saxonhouse)

60		MAS	Pretest	
61		MAS	Bacterial Infections I	Fan 706-744
62		MAS	Bacterial Infections II	(as above)
63		MAS	Viral Infections I	Fan 755-802
64		MAS	Viral Infections II	(as above)
65		MAS	Fungal/Parasitic Infections	Fan 745-754
66		MAS	Immunology	Fan 676-705; PF 1475-1674
67		MAS	Posttest	

Section 7: Neonatal Hematology (Saxonhouse)

67		MAS	Pretest	none
68		MAS	Hematopoiesis/ Hemoglobin/Red Cell Disorders	PF 1397-1420; Fan 1397-1205
69		MAS	Platelets/Coagulation	Fan 1213-1225, 1232-1236

70	MAS	Neutrophils	Fan 1205-1213
71	MAS	Thrombosis/Oncology	Fan 1225-1232, 1236-1239
72	MAS	Bilirubin/Jaundice	Fan 1309-1335
73	MAS	Posttest	

Section 8: Gastroenterology (Neu)

74	Neu	Pretest	none
74	Neu	Embryology/ Congenital Anomalies	Fan 1255-1262; PF 1101-1109
75	Neu	Digestion & Absorption	Fan 1268-1275; PF 1151-1162
76	Neu	Structural Abnormalities	Fan 1263-1267, 1276-1298
77	Neu	NEC	Fan 1299-1308; PF 1169-1174
78	Neu	Liver disease	Fan 1335-1350
79	Neu	Posttest	

Section 9: CNS/Development (Weiss)

80	MDW	Pretest	none
81	MDW	Development/ Malformations	PF 1675-1698; Fan 816-846
82	MDW	Intracranial Hemorrhage/ Birth Trauma	Fan 879-886; PF 1757-1771
83	MDW	HIE	Fan 847-878
84	MDW	Cerebral Injury/ Hydrocephalus	Fan 911-933
85	MDW	Neuromuscular Diseases	Fan 899-910
86	MDW	Cranial Imaging	none
87	MDW	Seizures	Fan 887-898

88	MDW	Cerebral Palsy/ Mental Deficiency	Fan 934-940
89	MDW	Development	Fan 947-972
90	MDW	Posttest	

Section 10: Inborn Errors of Metabolism/Genetics (Saxonhouse)

91	MAS	Pretest	none
92	MAS	Inborn Errors/ Carbohydrate Disorders	Fan 1468-1516
93	MAS	Protein Abnormalities	as above
94	MAS	Organic Acidemias/ Fatty Acid Abnormalities	as above
95	MAS	Lysosomal/ Mitochondrial Disorders/ Others	as above
96	MAS	Molecular Genetics	PF 16-24
97	MAS	Trisomy Disorders/ Microdeletions	Fan 80-108
98	MAS	Autosomal Dominant/ Recessive Disorders	Fan 80-108
99	MAS	X-linked Disorders/ Others	Fan 80-108
100	MAS	Posttest	

Section 11: Endocrine Disorders (TBA)

101	MAS	Pretest	none
102	<u>TBA</u>	Thyroid Diseases	Fan 1392-1415
103	<u>TBA</u>	Adrenal Gland Disorders	Fan 1416-1467
104	<u>TBA</u>	Sexual Differentiation	as above
105	<u>TBA</u>	Carbohydrate Metabolism	Fan 1351-1375

106	<u>TBA</u>	Ca, PO ₄ , Mg	Fan 1376-1391
107	<u>TBA</u>	Pituitary Disorders	PF 1871-1906
108	<u>TBA</u>	Posttest	

Section 12: Neonatal Nephrology/ Urology (TBA)

109	MAS	Pretest	none
110	<u>TBA</u>	Renal Development/ Function	PF 1223-1228
111	<u>TBA</u>	Abnormal Development 1	Fan 1517-1536
112	<u>TBA</u>	Abnormal Development 2	as above
113	<u>TBA</u>	Renal Failure	PF 1335-1340
114	<u>TBA</u>	Posttest	

Section 13: Ophthalmology (MLB)

115	MAS	Pretest for sections 13-15	none
116	<u>MLB</u>	Development of the eye/ Abnormalities	Fan 1568-1594
117	<u>MLB</u>	ROP	Fan 1595-1602

Section 14: Neonatal Dermatology (MLB)

118	<u>MLB</u>	Lesions 1	Fan 1537-1567
119	<u>MLB</u>	Lesions 2	as above

Section 15: Orthopedics (MLB)

120	<u>MLB</u>	Congenital Abnormalities	Fan 1603-1632
121	MAS	Posttest for 13-15	

Section 16: Statistics (TW/MLB)

122	TW	Pretest for 16 & 17	none
123	TW	Statistics 1	TBA
124	TW	Statistics 2	TBA

Section 17: Developmental Pharmacology (RB)

125	RB	Pharmacology 1	Fan 144-166
126	RB	Pharmacology 2	PF 179-258
127	RB	Posttest for 16 and 17	
128	MAS	<u>MOCK EXAMINATION (2 HOURS)</u>	

Suggested Readings for each section.

- 1). PF: Fetal and Neonatal Physiology. Editors: Polin, Fox, Abman. 2004
- 2). Fan: Neonatal-Perinatal Medicine. Editors: Fanaroff, Martin 2002

Other suggested reference sources:

Neonatology Review. Brodsky, Martin, 2003

Workbook in Practical Neonatology. Polin, Yoder, Burg, 2001