

Role of Transcranial Ultrasound in Diagnosis of Neonatal Brain Insults

Thesis

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Radiodiagnosis

By

Salma Fathy Abdel-Kader

(M.Sc. Radiodiagnosis)

Supervised by

Professor Dr. Heba Mohamed Khalil El-Deib

Professor of Radiodiagnosis

Faculty of Medicine-Ain Shams University

Dr. Dahlia Mamdouh Dalam

Assistant professor of Radiodiagnosis

Faculty of Medicine-Ain Shams University

Dr. Lobna Abdel-Moneim Habib

Assistant professor of Radiodiagnosis,

Faculty of Medicine-Ain Shams University

**FACULTY OF MEDICINE
AIN SHAMS UNIVERSITY**

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Dedication

To my mother and father.

*To my husband, Sameh, My colleague,
best friend and wonderful soulmate. His
continuous support and encouragement gave
me the energy to finish this work,*

To my beloved children, Nada & Omar.

Salma Fathy

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CONTENTS

Introduction and aim of work	1
Review of literature	
○ Anatomical and physiological considerations.	2
○ Pathology of common insults affecting the neonatal brain.	38
○ Technical aspects	75
○ Sonographic manifestations of different neonatal brain insults.	111
Materials and methods	138
Results and illustrative cases	141
Discussion	190
Summary and conclusion	213
References	216
Arabic summary	

List of tables

Table No.	Title	Page
1	Arterial blood flow velocities in full term infants.	104
2	Cranial ultrasound screening (CUS) program.	108
3	Grades of PVL.	120
4	Distribution of patients according to age group.	141
5	Distribution of birth weight in different age groups.	143
6	Distribution of patients according to mode of delivery.	144
7	Number of patients in the inclusion criteria groups.	144
8	Distribution of gestational age in different ultrasound groups.	146
9	Distribution of birth weight in different ultrasound groups.	147
10	Distribution of the different grades of IVH in various gestational age groups.	150
11	Distribution of the different grades of IVH in various birth weight groups.	151
12	The resistive index in different grades of hemorrhage.	154

13	Different categories of hypoxic ischemic encephalopathy (HIE).	156
14	The ultrasound findings of HIE in different age groups.	157
15	The resistive index changes with different ultrasound findings of HIE.	158

List of charts

Chart No.	Title	Page
1	The distribution of patients according to age group.	142
2	Distribution according to Birth weight.	142
3	The distribution of birth weight in different age groups.	143
4	Fate of the studied cases	145
5	Distribution of gestational age in different ultrasound groups	147
6	Distribution of birth weight in different ultrasound groups	148
7	Distribution of different grades of hemorrhage.	149
8	Distribution of different grades of hemorrhage in various gestational age groups.	150
9	Distribution of different grades of IVH in various birth weight groups.	152
10	Distribution of HIE in different age groups.	155

List of figures

Figure No.	Title	Page
1	The major divisions of the central nervous system	2
2	Formation of the neural tube	4
3	Different divisions of the brain primordium	5
4	Skull at birth side and top views	10
5	The lateral and medial aspects of the left cerebral hemisphere.	14
6	Parts of the corpus callosum	15
7	Location of the basal ganglia in the human brain.	16
8	Sagittal view of the brain stem.	18
9	The meninges, the subarachnoid space, and the superior sagittal sinus.	20
10	The location and connections between the ventricles of the brain and CSF circulation.	24
11	Major branches of the anterior cerebral artery.	26
12	Course of the middle cerebral artery	27
13	The arterial circuit (circle of Willis) at the base of the brain	29
14	Venous system of the brain.	32
15	Patterns of brain injury in mild to moderate hypoperfusion.	45
16	Pathogenesis of PVL.	50

17	Cystic changes in the periventricular white matter	51
18	Normal germinal matrix capillary bed and germinal matrix bleed.	55
19	Sequelae of subependymal hemorrhage.	56
20	Hemorrhagic parenchymal lesion	58
21	Sites of extracranial (and extradural) hemorrhages in the newborn.	63
22	The six planes of section for coronal scans	78
23	Normal full term infant-coronal brain US images (anterior to posterior).	81
24	Planes of section for sagittal and parasagittal scans.	82
25	Normal sagittal brain ultrasound images.	84
26	Normal parasagittal sections through the posterior fontanelle.	85
27	Normal coronal sections through the posterior fontanelle.	86
28	Mastoid fontanelle imaging.	88
29	The ventricular index of Levene	90
30	linear measurements by ultrasound for the dimensions of the intracranial ventricles.	92
31	Measurement of the ventricular height.	92
32	Measurement of the subarachnoid space	93
33	Coronal views at 24, 32 and 34 weeks' gestational age showing the insula.	96

34	Normal premature infant brain at 28 to 40 weeks gestation, sagittal images.	97
35	Normal spectral waveforms from intracranial arteries.	98
36	Sagittal midline and angled color Doppler scans.	99
37	Coronal color Doppler scan at the level of the caudate head.	100
38	Axial color Doppler scan through the left temporal bone	101
39	Angled axial color Doppler image through mastoid fontanelle.	101
40	Example of cerebral blood flow velocity using color Doppler in a normal infant.	105
41	Normal spectrum from the superior sagittal sinus.	106
42	Doppler tracing from transverse sinus with tricuspid regurgitation.	106
43	Coronal (A) and sagittal (B) ultrasound scan images showing cerebral edema	112
44	Coronal and right parasagittal images showing echodense areas in the thalami and globi pallidi.	113
45	Coronal image showing increased echogenicity in the territory of the middle cerebral artery	113
46	Cerebral blood flow velocity of a term infant with Grade II NE at 4 days of age.	115

47	Severe HIE; spectral waveforms.	115
48	Brain death with non viable blood flow.	116
49	(A) Normal appearance of the periventricular zone. (B),(C). Periventricular flare.	118
50	Parasagittal ultrasound scan in a preterm infant showing flare and PVL.	119
51	Parasagittal scan showing Severe PVL.	120
52	Grades of PVL	121
53	Grade I (subependymal) hemorrhage	122
54	Resolving subependymal hemorrhage	123
55	Grade II hemorrhage	124
56	Grade III hemorrhage	125
57	Resolving grade III hemorrhage	125
58	Grade IV hemorrhage	127
59	Coronal color Doppler image showing left germinal matrix hemorrhage with no demonstrable flow in left in the left terminal vein	127
60	Follow up of a case of IVH showing progressive post-hemorrhagic hydrocephalus.	130

61	Sonograms of bilateral cerebellar hemorrhage	131
62	Coronal sonogram shows hypoechoic right-sided subdural collection	132
63	Subarachnoid hemorrhage.	133
64	Color Doppler examination demonstrates blood vessels crossing subarachnoid space fluid collection.	133
65	Cytomegalovirus infection	134
66	Thickened meninges and prominent extraaxial space in a case of meningitis	135
67	Ventriculitis.	136
68	Cerebellar abscess.	136
69	Fungal meningoencephalitis	137
70	Case 1. Hypoxic ischemic encephalopathy (HIE) grade III showing diffuse brain oedema	161
71	Case 2. Hypoxic ischemic encephalopathy (HIE) grade III showing bilateral increased thalamic and basal ganglia echogenicity.	163

72	Case 3. Periventricular flare.	165
73	Case 4. Periventricular leukomalacia (PVL).	167
74	Case 5. Bilateral isolated subependymal hemorrhage more at the left side.	169-170
75	Case 6. Choroid plexus hemorrhage	172
76	Case 7. Grade II intraventricular hemorrhage.	174
77	Case 8. Grade II intraventricular hemorrhage.	176
78	Case 9. Grade III intraventricular hemorrhage.	178
79	Case 10. Resolving grade III intraventricular hemorrhage.	180
80	Case 11. Grade IV hemorrhage (hemorrhagic parenchymal infarction).	182-183
81	Case 12. Bilateral grade IV intraparenchymal hemorrhage (hemorrhagic parenchymal infarctions).	185
82	Case 13. Extradural hematoma	186

83	Case 14. Subdural collection.	187
84	Case 15. Extra-axial collection and thickened meninges (a case of suspected meningitis).	189

List of abbreviations

ACA	Anterior cerebral artery
BP	Blood pressure
CBF	Cerebral blood flow
CDI	Color Doppler imaging
CMV	Cytomegalovirus
CNS	Central Nervous System
CP	Cerebral palsy
CUS	Cranial ultrasound
CT	Computed tomography
ECMO	Extracorporeal Membrane Oxygenation
EDH	Epidural hemorrhage
EDV	End diastolic velocity
GA	Gestational age
GABA	Gamma amino butyric acid
GMH–IVH	Germinal matrix hemorrhage/Intraventricular hemorrhage
gms	Grams
HIE	Hypoxic Ischemic Encephalopathy
HPI	Hemorrhagic Parenchymal Infarction
HSV	Herpes simplex virus
ICH	Intracranial hemorrhage
IVH	Intraventricular hemorrhage
IPL	Intraparenchymal lesion
