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%59-20

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2002/12/31 2002/1/1

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282

.Papile

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Peri and intraventricular hemorrhage (PIVH) in preterm neonates

Jihad Kazah*

Abstract

Introduction: PIVH is the most common neonatal intracranial hemorrhage. Incidence range between 20-59%. Most of PIVH occur in the first week of life. There are different opinions about the time of onset and timing of screening. This study aimed to know incidence, symptoms, classification, predisposing factors and outcome of PIVH in our NICU, and the best time of screening.

Materials & Methods : This study was conducted at the NICU of Children Hospital of Damascus Uni. From 1.1.2002 to 31.12.2002. Trans fontanel echo- graphy was done to 282 Prematures, daily in the first week and one time in both the second and the third week of life .We classified the PIVH in according to Papile classification, and compared symptoms ,predisposing factors and outcome in bleeding and non bleeding neonates with Kay square.

Results: Incidence of PIVH in our NICU is 44.68%.The incidence in extremely prematures was 68.84%. The most cases of PIVH was mild and asymptomatic. predisposing factors are: Prematurity, low birth weight , hypoxia, mechanical ventilation, exchange transfusion and home delivery .The most cases of PIVH detected in the first week and 17.8 % of PIVH occurred in the first day of life .

-The mortality rate is 55.55%. Neurologic sequelae found in 41% of survivals. **Discussion :** Incidence of PIVH in extremely prematures in our NICU is higher than in others but the severe bleedings form is lesser , perhaps because this group of infants have low survival chance in our institution.

We perform daily cerebral echography in extremely prematures and in presence of predisposing factors otherwise at admission and in the forth and seventh day and at discharge.

Key words : PIVH- Preterm -Hemorrhage –ventricular-cerebral –Echo.

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: -1

1000 > % 60-50 peri
%20-10 (PIVH)and intraventricular hemorrhage
(9,8) 1500-1000 (1)
- %59 -20
(5,4,3,2)
(10)
papile (6)
:
:I -
germinal matrix hemorrhage
%40 (GMH) (6)
:
:II -
intraventricular hemorrhage
(IVH)
%30 (6)
:III -
%20 (7)

	(14)		:IV	-
(15)	5-3			
	:	-2		%10
		-		
(PIVH)			(4)	-
			(12.11)	
		-		
		-		
		-		
	:	-3	:	
			(13)	48-24
2002/1/1				
	2002/12/31	(7)	%5	
	:	-4		%50
37 >		(12-11)		%90
			10-7	



: -5

Au3 partner

Esaote Biomedica

7.5

: -6

282

126

.%44.68

:1-6

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:

(1)

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p-value				
a	%57.14	48	84	30 >
a	%47.69	62	130	34-30
<0 .001 b	%23.53	16	68	34 <
	%44.68	126	282	

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(2)

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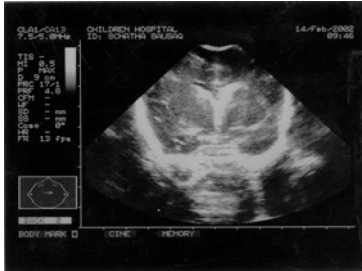
p- value				
a	%68.84	13	19	1000 >
b	%49.18	60	122	1500-1001
c	%42.86	48	112	2500-1501
d	%17.24	5	29	2500<
	%44.68	126	282	

a:b p> 0.05 a:c p> 0.05 a:d p< 0.001 b:c p<0.001 b:d p<0.01 c:d p<0.01

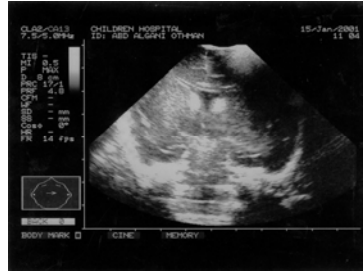
:2-6

: papile

-2

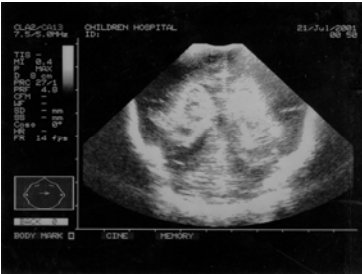


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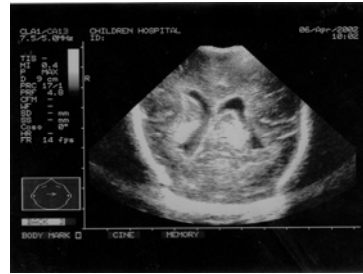
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-3



+

34

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#

: (3) •

%52.4	66	I	
%30.95	39	II	
%11.9	15	III	
%4.76	6	IV	

: :3-6

: (4) •

%7.1	%17.3	9	27	
% 26	%21.1	33	33	
% 4.7	%3.8	6	6	
% 0.8	%3.2	1	5	
%38.88	%45.5	49	71	
% 61.7	%54.5	77	85	

: :4-6

: (5) •

P- VALUE					
> 0.05	%41.17	60	144		
	%47.83	66	138		
> 0.05	%32.29	18	51		
	%46.75	108	231		
> 0.01	%41.66	105	252		
	%70	21	30		
< 0.01	%33.33	12	36		
	%46.34	114	246		
< 0.001	%76.2	48	63		
	%35.61	78	219		
< 0.01	%66.66	24	36		
	%41.15	102	246		
> 0.05	%56.25	27	48		
	%42.3	99	234		
> 0.05	%75	6	8		
	%43.79	120	274		

:5-6

(6)

%17.8	15	%17.8	15	84	
%15	18	%25	30	120	
%12	16	%31.8	42	132	
%10.8	14	%32.5	42	129	
%12.8	17	%39.1	54	138	
%10	14	%29.3	41	140	
%8	13	%39	57	146	
%7.6	11	%43.7	63	144	
%8.8	8	%43.2	39	90	

:6-6

(7)

%55.55	70	126	
%26.28	41	156	
%39	111	282	

P<0.001

leukomalacia
 cysts Hydrocephalus (56)
 .%41 23

(PVL)periventricular

(56=) (8)

% 16	9	
% 14.3	8	
% 10.7	6	
% 41	23	

%26

2 1

: -7

%44.68

(9-8-5-4-3-2)

(9-8)

(5-4-3-2-1) % 59-20

% 68.84 1000

2 1

(16-9-8)

%60-50

) (%11.9 (% 49.18) 1500-1000
(%4.76 Schankarans Perlman

: (9-8) %20-10

(543-2-1)

Trounce

%50

(16) 1500

%52.4

% 51.7

, %40

: -

Papile

(2-1) %10 4.76

: - ...

-

)
(%30.95 %52.4
)

4

%61.7

(%80 <)

(15-6-1)

()

(6)

: -

PT

PTT

%17.8

(12-11)

%25

%17.8

%43.7

%31.8

6

:

(12-11)

5-3

10 - 7

(15)

(11)

Tsiantos

%17.8

48-24

Hayden

(13)

(7)

%50

Patridge

Paneth

%75

(15)

..

:

-

PVL

%26.28 %55.55

(15) -22

%14.3

-

(17-6) %35

(15-6) %30-11

-

:

-

%10.7

%41

(18-17)(

%35-10)

-:

:

-8

%16 (PVL)

-

(P1VH)

%44.68

(6)

%25

.%26	-	-	-
:	-9		
	-		
		%52.4)
	-	(%30.95	
		(%11.9)
		.(%4.76)
	-		
		.(%61.11)	
	:		
	-		
	-		
		.%17.8	
	-	.%84.9	
		%55.55	
			%26.28
		.%41	

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