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83/8/27 : _ 83/5/13 :

Blood level Anti-HBs due to HB vaccine in health care personnel of Shahid Sadoughi Hospital – Yazd

Abstract:

Objective : About 3% of the Iranian general population are carriers of hepatitis B virus , and about 15% of infected persons will be prone to chronic hepatitis and get cirrhosis and liver carcinoma. Up to now no therapeutic regimen has been introduced to eradicate completely this infection.

Material and Method : This cross-sectional study was performed on 204 health care personnel of Shahid Sadoughi Hospital (Yazd). At first, a questionnaire including information about sex, age, vaccination , etc was completed. Anti-HBs were examined by Radim (ELISA method).

Results : From 204 subjects, 162 persons were female. The mean age of studied cases was 32.38 ± 8.86 years. The mean titer of anti-HBs was 255.2 ± 300.6 mIU/ml, and with consideration of Anti-HBs =10 mIU/ml as a cut-off value, 88.8% of subjects were immunized against hepatitis B.

Conclusion : According to the results and decrease of immunity in health care personnel after years, it is suggested that the Anti-HBs titer should be examined one month after vaccination and be controlled every 5-10 years, and then booster vaccine be injected after reducing Anti-HBs titer to below protective level.

Key Words : Hepatitis B , vaccination , Anti-HBs , Health care personnel

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HBV

(9.8)

B

204
1382

16
4 ml

RADIM – Italia ELISA

B

(1)

204

(%5

(%5 2)

1382

(%2)

162

(.2)

HBsAb (%20/59) 42

S.D. = 290/7 258/9 (3) %2/9

=0/731 S.D. = 239/7 240/9 (2) %3

32/38 PV %6

8/86

(4.3)

64 30 39 20 29

102 40

S.D. = 321/643 311/16 HBsAb (7.6.5)

HBsAb

B

S.D. =270/386 199/72 HBsAb (2)

HBsAb

S.D. =259/682 183/59

B

BMI (Body Mass Index) HBsAb ()

%85 95

%98

25 25

(.9.8)

%85/7

HBsAb 1

10

BMI

(PV =0/357)

10 mlU/ml HBsAb

%11/2

%88/8

S.D.	HBsAb		(BMI)
289	245/8	118	<25
305/7	259/2	74	>25
295	251	192	

%95/6

B

P.V.=0/760

%4/4

()

B

%87/5

B

HBsAb

3 2

HBsAb 2

B

%42/7

()

%16

%41/3

S.D.	HBsAb		
30	21	4	1
288/2	238	168	3 2
345/8	351/2	32	4
300/6	255/2	204	

%88/8

%11/2

P.V.=0/043

%68/6

HBsAb 3

(10)

10 mlU/ml

183

5

(11)

10

%67/8

HBsAb		()
346/87	61	<2
247/68	71	2 4
185/39	72	5 10
255/2	204	

478

5

%92/6

B

(12)

P.V.=0/019

%94

79

%76/1

(13)

%90/4

%23/9

10 mlU/ml

B

Ferraz ML

35

.(17)

.(14)

HBsAb

%11/2

(PV =0/008)

%56/3 10 100

%32/5 10 mlU/ml

101

(18•17•12•11)

(CDC)

%24/8

HBsAg

%43/8 10 100 mlU/ml

%7/4

(10) 100

mlU/ml

.(12)

10

%2/1

925

.(14)

.(15)

B

Rosen E

%87/5

93 %33

B

B

.(16)

HBsAb

(PV =0/019)

Archive of SID

	%15	B		%3 :
	B			
	204	1383	—	:
Anti- (Radim-Italia)				...
				HBs
32/38± 8/86			162 204	:
Anti-HBs		255/2 ± 300/6 mlU/ml	Anti- HBs	
	B		%88/8	10 mlU/ml
				:
	5 10	B		
				Anti-HBs
	Anti-HBs	B		:

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2. ...
3. ...
4. HB ...
5. B ... HBsAb ... HBcAb ...
- 10 (1372) ...
- 32 41 .

- B .6
. 126 124 : (1382)
- HIV- HCV-Ab HBsAg .7
. 313 311 : (1381) 4 Ab
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- Anti-HBs .10
. 142 138 : (1382) 2 .
- B .11
. 52 48 (1379) 27
- B .12
6
. 65 63 (1380) 32
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