Evaluation of Hepatitis B core antibody in "Liver clinic" patients in South Eastern Sydney

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Hospitals and clinics serviced by SEALS

And NSW Correction health

Evaluation of Hepatitis B core antibody in "Liver clinic" patients

Sera from 330 patients tested for HepatitisB

DNA- COBAS® AmpliPrep/ COBAS® TaqMan HBV Test, version 2.0

& Serological markers Abbott Architect

Hepatitis B DNA & core antibody (HBc Ab) in 330 'liver clinic' patients

Total patients = 330

Hep B DNA detected = 236

Hep B DNA NOT detected = 94

Hepatitis B DNA & core antibody (HBc Ab) in 'liver clinic' patients

Total patients =330

Hep B DNA detected =236

HBcore Ab positive =235/236

HBcore Ab negative =1*/236

* acute Hep B- HBSag & HBe Ag pos

Hepatitis B DNA & Hepatitis B Surface antigen & Core antibody in 'liver clinic' patients

Total patients =330

Hep B DNA (\$73) detected =236

HepB Surface antigen

and or

Hep B Core antibody(\$5.10)detected =236

Hepatitis B DNA & core antibody (HBc Ab) in 330 (liver clinic patients

HBcAb Pos & Hep B DNA NOT detected =67

HBcAb Pos+ another marker positive =48/67

HBcAb alone positive =18*/67

- *S/Co ranged from 1.9-13.6
- *13/13 HBc Pos on Roche elecsys assay

Hepatitis B DNA & Hepatitis B e Antigen in 'liver' clinic' patients

* The reactivation phase (also known as HBeAg-negative chronic hepatitis B) is characterized by the absence of HBeAg, presence of anti-HBe, intermittently or persistently elevated serum HBV DNA and ALT levels, and active inflammation in the liver

Association between HBV DNA viral load and HBsAg.

Architect	HBV DNA		
HBsAg	Positive	Negative	
Positive	228	5	
Negative	6	89	
Total	234	96	

Evaluation of Hepatitis B core antibody in "Liver clinic" patients in S/E Sydney Conclusions

- •The combination of HBc Ab & HBsAg is: 100 % sensitive at all stages of disease
- HBc Ab is at least 94.6% specific

- >70 % of chronic Hep B disease is associated with precore mutants
- 1.8% have occult Hep B infection