



6 Facts of Viral Hepatitis Diagnosis!

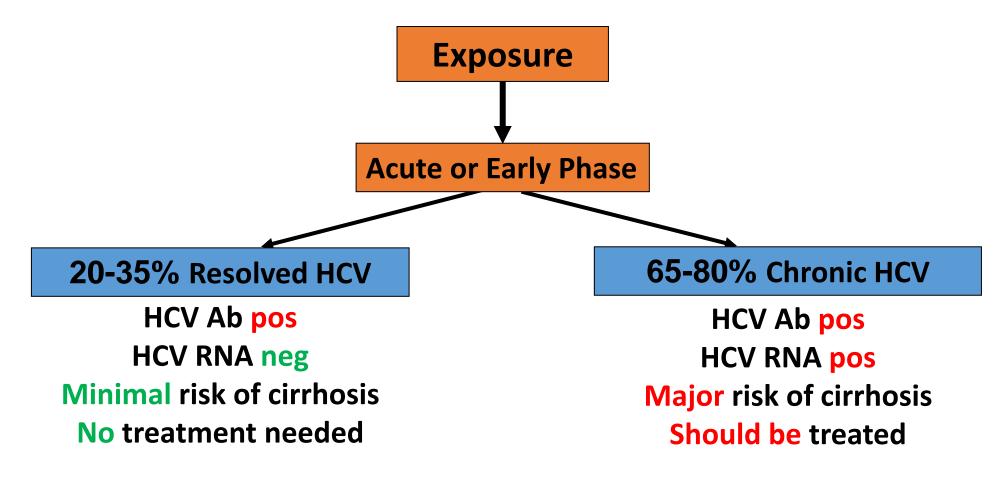
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1. Does Positive HCV Ab mean current HCV infection?

Yes No

Natural History of Hepatitis C



For confirmation of current HCV infection HCV viremia (RNA) should be evaluated by RT-PCR

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2. HCV quantitative or HCV qualitative?

Quanti

Quali

HCV Viral load in era of IFN-based Regime



An impoint virologic man croor shortening, elongation and termination of treatment

Alavian et al. Hepatmon. 2016: e40959.

HCV Viral load in era of DAA-based Regimens



Has no role in clinical decision making

HCV RNA Assessment

• HCV RNA detection (qualitative) should be tested before initiation of treatment and 12 or 24 weeks after treatment completion. SVR12 and SVR24 are 99% concordance.

 HCV RNA detection should be made by a reliable sensitive assay.

Detection of HCV RNA using a simple and sensitive qualitative method is sufficient for management of Hep C.

3. HCV genotyping; yes or no?

Yes

HCV Genotyping

- Strains of HCV are classified into seven genotypes (1–7) and a large number of subtypes.
- HCV genotype was a strong clinical decision making parameter used for determination of treatment regimen (duration and treatment combination) in the era of IFNbased and DAA-based therapies.
- With availability of pan-genotypic regimens, HCV genotyping is fading from clinical management of HCV infection.

HCV genotyping in era of IFN-based Regimens



Used for determination of treatment duration.

HCV genotyping in era of DAA-based Regimens



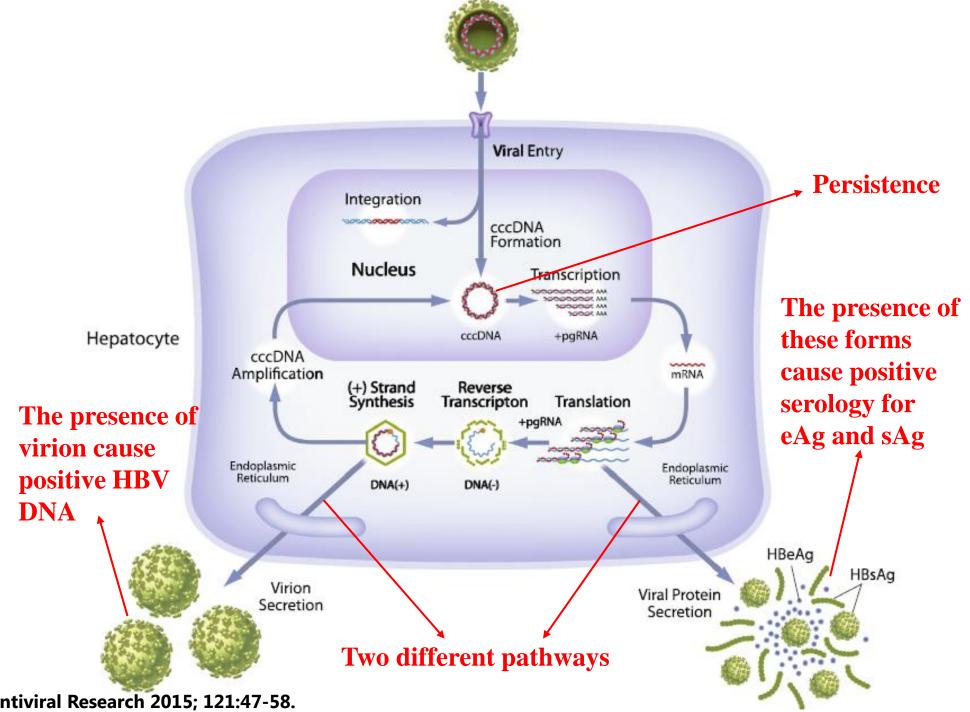
Used for determination of the treatment combination (the regimen ± RBV) and treatment duration.

Alavian et al. Hepatmon. 2017: e63956.

Evaluation of HCV genotyping should be considered for management of Hep C in Iran until a pangenotypic regimen will be available.

4. In naive HBsAg+ patients, can HBV DNA be undetectable?

Yes



Gish RG, et al. Antiviral Research 2015; 121:47-58.

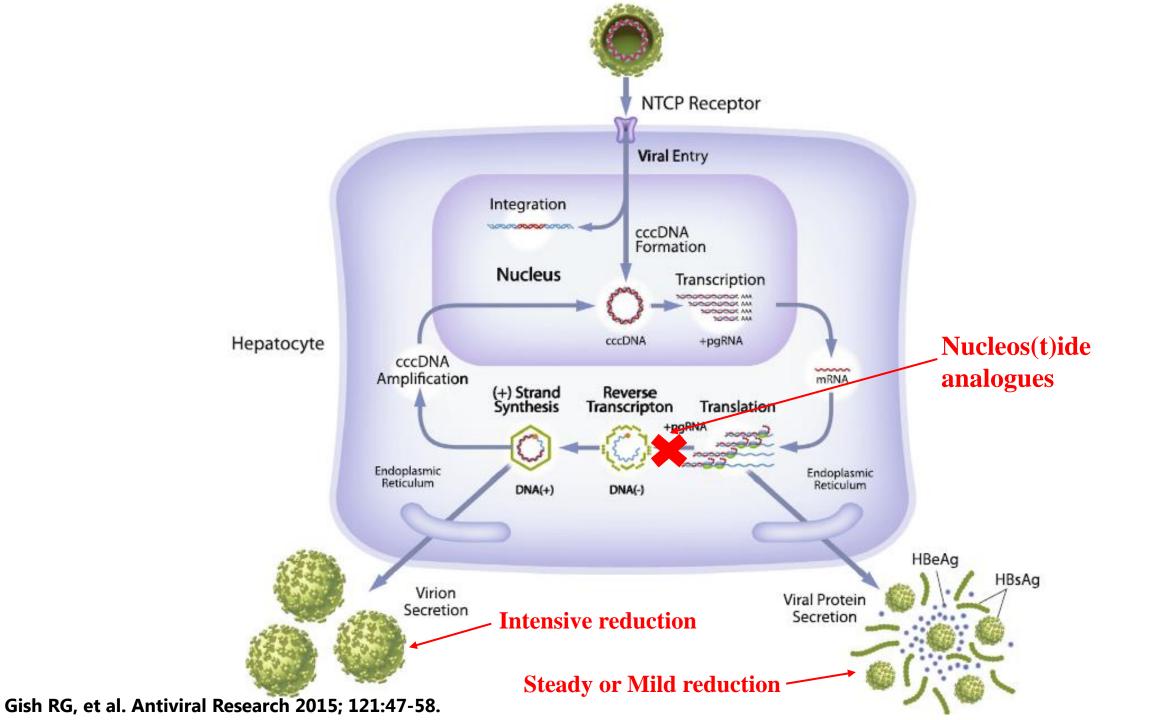
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A number of HBsAg pos patients (specially those with HBeAg neg HBV inactive infection) can be HBV DNA neg using the routine HBV DNA methods (with around 10 IU/mL LOD)

5. Is it alright to observe positive HBsAg for patients under treatment of NA with undetectable HBV DNA?

Yes



5. Is it Take home message 5 sitive

Most of the patients under long-term treatment of NA have undetectable HBV DNA while HBsAg is positive.

Ye.

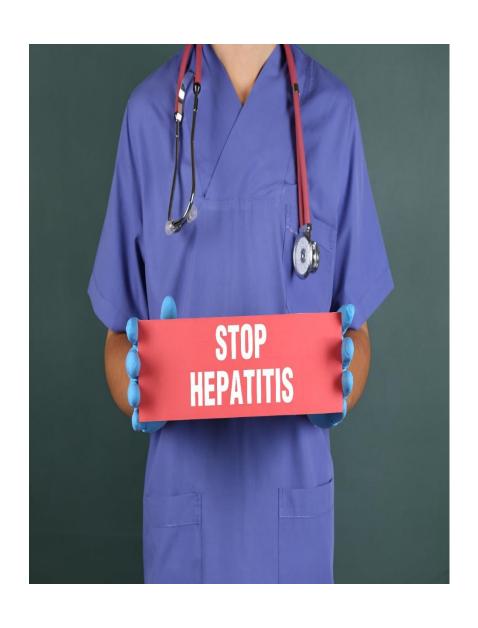
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6. What is "Occult HBV infection?"

Occult HBV infection

- Previously, defined as HBsAg neg while HBV DNA pos
- Currently, considered as a new phase of Hep B named "HBsAg-negative phase".
- HBsAg-, HBcAb+/-, HBsAb+/-, HBV DNA+/-
- HBV DNA (cccDNA) can be detected frequently in the liver.

"Occult HBV infection" added as a new phase of Hep B.



Thank You Very Much

