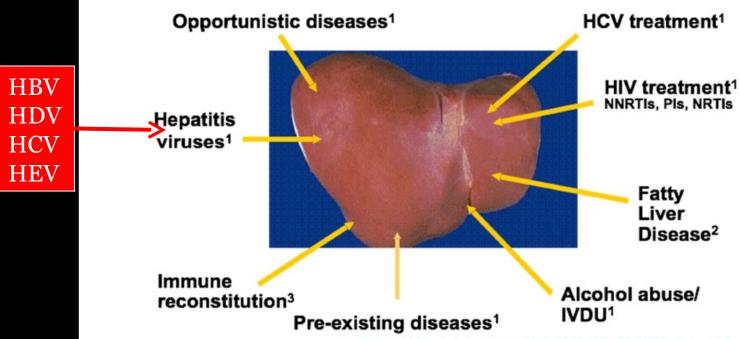
Severe liver disease in HIV patients

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Liver disease in HIV patients

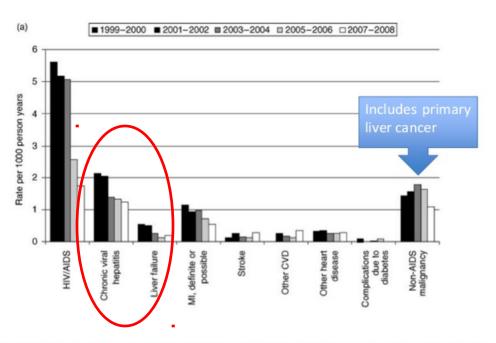
Liver Disease in HIV-infected Patients



Sulkowski M. et al. Ann Intern Med. 2003;138:197-207 2. Guaraldi G et al Clin Infect Dis 2008 47(2): 250-257
Greub G et al. Lancet 2000;356:1800-1805

Liver disease in HIV patients

Causes of death in HIV



 Weber R, Sabin CA, Friis-Møller N, Reiss P, El-Sadr WM, Kirk O, et al. Liver-related deaths in persons infected with the human immunodeficiency virus: the D:A:D study. Arch. Intern. Med. 2006;166:1632–1641.

Liver disease in HIV/HCV patients

- Hemophiliac male
- HCV/HIV co-infection
- how to monitor noninvasive vs. liver biopsy
- past therapies PEG-IFN and RIBA
- new therapies DAA with highlight on drug tot drug interaction
- availability and costs!

Liver disease in HIV/HCV patients

New anti HCV agents in coinfected patients

- With PEG/IFN
 - Simeprevir+PEG/IFN+/-RBV
 - Sofosbuvir+PEG/IFN+/-RBV
- Without PEG/IFN
 - SOF+SMP±RBV (12 or 24 weeks)
 - SOF+DCV (12 or 24 weeks)

ATTENTION TO DRUG TO DRUG INTERACTION!

Liver disease in HIV/HBV patients

- Markers of HBV exposure are present in the majority of HIV infected individuals and 10-15% have chronic HBV
- the annual risk of developing cirrhosis in HBV appears to be much higher in those coinfected with HIV. This may especially true in those with low CD4 counts
- coinfection with HBV has been associated with increased hepatotoxicity to highly active antiretroviral therapy (HAART)
- stopping the antiHBV therapy could induce severe flares with bad outcome
- HCC is more frequent in HIV/HBV coinfected patients
- Liver transplant is effective in selected patient with HCC and HIV/HBV coinfection

Liver transplantation and HIV-Infection

- In the pre-HAART era1:
 - —No difference in immediate postoperative survival between HIV+ and HIV- patients
 - —Long-term high mortality rate due to infections and AIDS-related complications
 - —Rapid progression of HIV to AIDS
- In the HAART era²:
 - —No difference in postoperative survival between HIV+ and HIV- patients
 - —Survival worse for low CD4-counts (<100/µl), post OLTX antiretroviral intolerance, VL > 400 copies/ml and HCV infection

Liver transplantation and HIV-Infection

Current practice is targeting liver transplantation at patients with:

- CD4 counts >200 cells/ul or >100 cells/ul in the presence of portal hypertension
- Undetectable HIV RNA
- Absence of AIDS defining illness after immune reconstitution,
- Therapeutic options available if HIV disease reactivates.

Severe liver disease in HIV patients

HCV and HBV viruses represent the most significant causes of liver disease in HIV – infected persons

Active monitoring is mandatory, including liver biopsy in some cases.

Liver disease progression is faster in coinfected patients so the monitoring visits have to be scheduled more often

Severe liver disease in HIV patients

For HCV/HIV coinfected patient new therapies are promising – pay attention to drug to drug interaction

The availability of drugs and national and local regulation could impact the choice

Liver transplant is a good option for advanced liver disease with excellent outcome in HBV/HCV coinfected patients and hopefully almost the same good results in HCV/HIV infection