

Case Challenges in HIV/HCV Management

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Determining Treatment Candidacy

- 36 year old black female
- HIV Diagnosed in 2002 – Nadir CD4 – 180 cells/mm³
- History of IVDA (heroin)
- Diagnosed with HCV 2002 – no previous work-up

Determining Treatment Candidacy

- Other Medical History – DM2, depression
- Social History – Smokes 1 PPD, prior IVDA, married with 2 children – sexually active
- Medications:
 - Zidovudine, lamivudine, lopinavir/ritonavir
 - Metformin 500 mg daily, sertraline 50 mg daily, methadone 40 mg daily

Determining Treatment Candidacy

- BMI – 29
- Exam – no stigmata of liver disease

LAB	RESULT
Hemoglobin	11 g/dL
ANC	900 cell/mm ³
Platelets	140,000/mm ³
Hgb A1C	9.0 %
Total bilirubin	0.7 mg/dL
ALT/AST	33/38 U/L
creatinine	0.7 mg/dL

LAB	RESULT
HIV load	<50 copies/mL
CD4 count	370 cells/mm ³
HCV viral load	1.7 million copies/mL
HCV genotype	1a
INR	1.05
HAV Ab	+
HBV SAg/core/SAb	-/+/-

Patient-level Topics for Consideration

- Indications, contraindications or barriers to HCV treatment?
- Further work-up?
- Medication Adjustments?
- Timing of treatment?

Clinic-level Topics for Consideration

- What support services may be necessary to assist in treatment initiation and maintenance?
- What additional services (medical or ancillary) are located on-site or off-site at your clinic?
How does this affect your management strategy?

Treatment Initiation

- Antiretroviral therapy is changed to tenofovir/emtricitabine from zidovodine/lamivudine plus lopinavir/ritonavir
- Psychiatry evaluation: sertraline dose changed to 100 mg daily

Patient-Level Discussion Points

- What expectations for weight and glycemic control govern your decision to initiate therapy?
- What HCV treatment regimen would you start?

Treatment Initiation

- Therapy is started with:
 - Pegylated interferon alfa 2a – 180 mcg sq weekly
 - ribavirin 600 mg po bid
- Week 4 labs: (PHQ-9 score 8 – baseline 5)

LAB	RESULT
Hgb	10.2 g/dL
ANC	650 cells/mm ³
Platelets	97,000/ mm ³
HCV viral load	17,000 copies/mL

Patient-Level Discussion Points

- What is the significance of the week 4 HCV viral load?
- Any treatment modifications or additions based on these results?

Treatment Continuation

- Treatment Week 12 Labs: (PHQ-9 Score: 11)

LAB	RESULT
Hemoglobin	10.2 g/dL
ANC	700 cells/mm ³
Platlets	78,000/mm ³
HCV Viral Load	<43 copies/mL
CD4 Count	188 cells/mm ³ (22%)
HIV Viral Load	<20 copies/mL

Patient-Level Discussion Points

- What is the significance of the week 12 HCV viral load?
- Any treatment modifications or additions based on these results?