HCV: Expanding Access to Cure

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Viral Hepatitis Elimination by 2030



H. Razavi. Presented AASLD/

Newly Reported HCV Infections Among Individuals Age 15-29 Yrs in 8 California Counties in 2018

- 8 participating CA counties: Imperial, Lake, Monterey, Orange, Placer, Riverside, San Luis Obispo, and Santa Cruz
 - N = 472 patients eligible
- Responded to patient questionnaire:
 n = 114 (24%)
 - Median age 26 yrs
 - 68% White
 - 48% female



We Have the Many Tools to Achieve Elimination of HBV and HCV

Diagnosis:

Risk groups knownDiagnosis is simple

Prevention:

- Effective, durable vaccine for HBV
 Harm reduction works for HCV
- Safe and effective treatment:
 ➢ HBV: suppressive
 ➢ HCV: curative



Gaps in the Cascade of Care



Zhou K & Terrau University of California Los Angeles



- Adults born between 1945-1965
- Risk-based:
 - IDU
 - Receipt of blood products prior to 1992 (clotting factors prior to 1987)
 - Hemodialysis
 - HIV+
 - ALT elevated
 - Recognized exposure: needlesticks, children of HCV+ moms

AASLD-IDSA

- All pregnant women
- Opt-out screening in jails/prisons



HCV Guidance: Recommendations for Testing, Managing, and Treating Hepatitis C





The Second Wave of HCV in the U.S.



AASLD/IDSA: One-time screening for all persons ≥18 years of age

- ~30,000 new HCV infections per year, increasing since 2006
- Parallels the rise in opioid abuse with new consequences

California Department of Public Health. Chronic hepatitis C infections in California: cases newly reported through 2015. June 2017.



Integrated Substance Abuse Programs

Treatment Simplification

RECOMMENDED REGIMENS*

Glecaprevir (300 mg) / pibrentasvir (120 mg) to be taken with food for a duration of 8 weeks Sofosbuvir (400 mg) / velpatasvir (100 mg) for a duration of 12 weeks

- Select based on drug-drug interactions, patient preference (pill #, packaging, # wks)
- Insurance preference

ON-TREATMENT MONITORING

- Inform patients taking diabetes medication of the potential for symptomatic hypoglycemia. Monitoring for hypoglycemia is recommended.
- Inform patients taking warfarin of the potential for changes in their anticoagulation status. Monitoring INR for subtherapeutic anticoagulation is recommended.

- No laboratory monitoring is required for other patients.
- An in-person or telehealth visit may be scheduled, if needed, for patient support, assessment of symptoms, and/or new medications.



Patients Using Drugs/Alcohol Denied Access to HCV Treatment in Some States

- Medicaid reimbursement criteria for DAAs based on required drug/alcohol abstinence period
- In California, this should not be a barrier to accessing HCV treatment



University of California Los Angeles Integrated Substance Abuse Programs





DAA Therapy in PWID: OST vs Non-OST



OST: opiate substitution therapy

Feld JJ, et al. N Engl J Med. 2014; Puoti M, AASLD 2014; Lalezari J, J Hepatol. 2015; Grebely J, Clin Infect Dis. 2016; Zeuzem S, Ann Intern Med. 2015; Dore GJ, Ann Intern Med. 2016.

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ANCHOR Substudy: Colocation of HCV and Buprenorphine Treatment

- Substudy of single-arm HCV treatment trial in Washington, DC
 - Endpoints: adherence to SOF/VEL, SVR12 rate; risk behaviors, HCV reinfection, HIV acquisition



*Buprenorphine started between Wk 0-24 of SOF/VEL treatment initiation with follow-up for 1 yr at same center and with same provider as HCV treatment.



Anchor Study: SOF/VEL in PWIDs

Active injection drug use within 3 m treated with SOF/VEL x 12w, n=66



- High SVR rates despite imperfect adherence
- Missed doses and finishing late had little effect on SVR



Integrated Substance Abuse Programs

y et al AASLD 2018, Abstract 18

HCV Reinfection by Study Population



Weir A, et al. Drug Alcohol Depend. 2016;4. Dore GJ, et al. Ann Intern Med. 2016.

Maximum Reductions in New HCV Infections if Treatment Partnered with Harm Reduction



Fraser H, J Hepatol, 2018:68:402-411



Specific Issues of Treating HCV in PWIDs

- High priority group for the "treat to prevent transmission" strategy
- Rapid scale-up: A slow scale-up will create HCV "susceptible" PWID without reduction in viremic pool
- **Co-management is highly desirable:** HCV and drug use disorder
- SVR rates are acceptable comparable to non-PWIDs -- as long as the total treatment course is completed.
- There will be cases of HCV reinfection: be prepared to retreat
- Harm reduction optimization (SSP, OST access) is important: to reduce reinfections and new infections



Summary of HCV Management

- ~50% undiagnosed \rightarrow universal screening recommended
- Treatment is simplified with 2 pan-genotypic regimens
 - ≥95% cured with initial treatment
- For persons who inject drugs, important to couple HCV treatment with harm reduction
 - Colocalization of care best model
 - HCV cure rates in PWIDs on or off OST are similar key is completion of treatment
- Care after cure
 - Counsel to reduce risk of infection and maintain good liver health



Thank-You!



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