



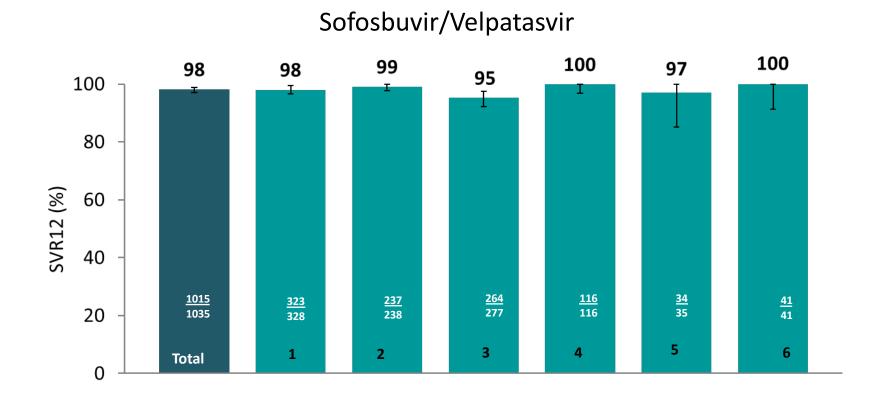
Community-Based Approaches to HCV Treatment in San Francisco

Jennifer Price, MD, PhD Associate Professor of Medicine GI/Hepatology Director, UCSF Viral Hepatitis Center

Disclosures

• Grant support: Merck, Gilead, AbbVie, Genentech, Zydus, VIR

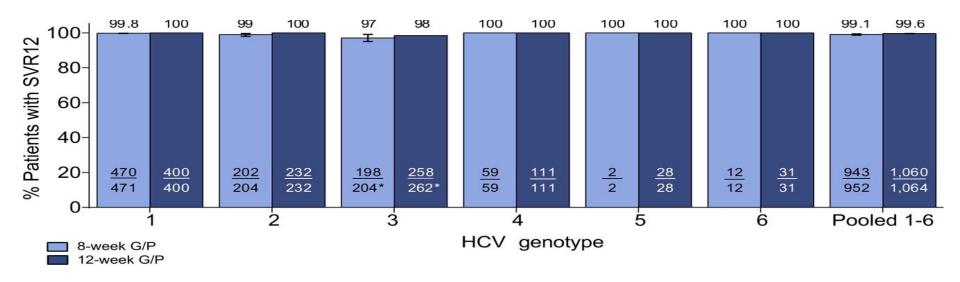
Persons with HCV genotype 1, 2, 3, 4, 5, or 6 infection can be effectively treated with 1 tablet daily for 12 weeks



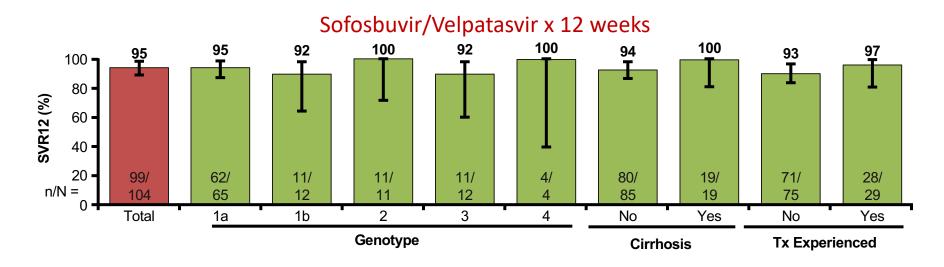
Feld JJ et al. NEJM 2016; Foster G et al NEJM 2016

Persons with HCV genotype 1, 2, 3, 4, 5, or 6 infection can be effectively treated with 3 tablets daily for 8 weeks

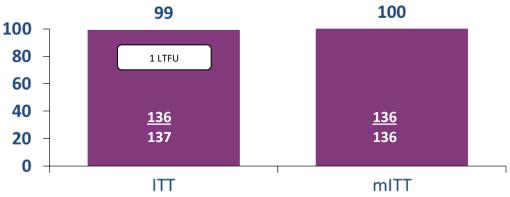
Glecaprevir/Pibrentasvir



Individuals with HIV/HCV Coinfected Have Similar Cure Rates

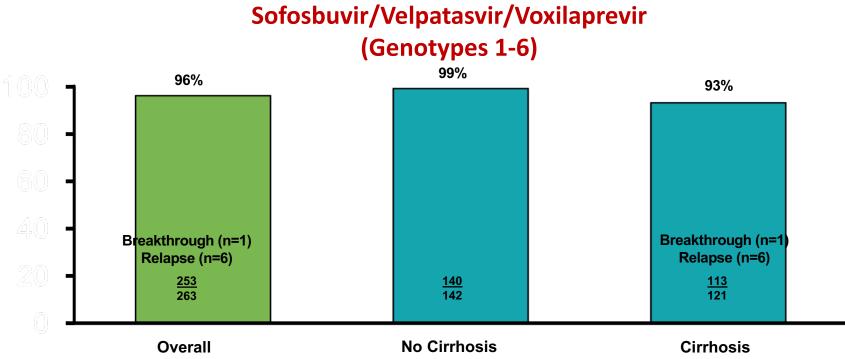


Glecaprevir/Pibrentasvir for 8 weeks



Wyles D, et al. EASL 2016. Abstract PS104. Reproduced with permission.

Overall Cure Rates in NS5A inhibitor – Experienced patients

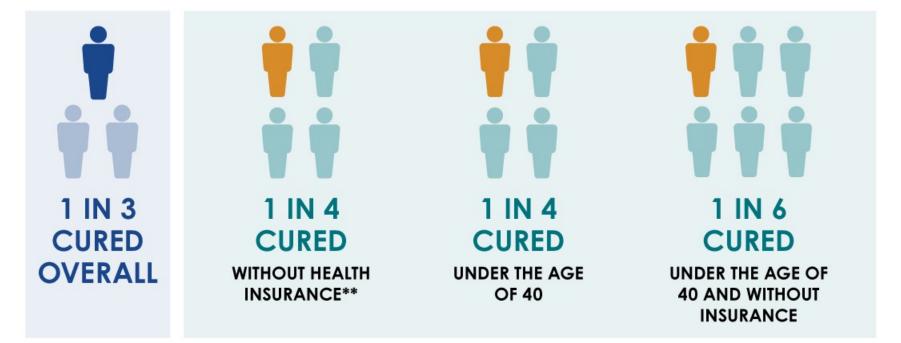


No placebo patients achieved an SVR12.

*P<0.001 for superiority versus pre-specified goal of 85% for sofosbuvir/velpatasvir/voxilaprevir.

Bourlière M, et al. Hepatology. 2016;64(suppl S1):102A. Abstract 194.

ADULTS DIAGNOSED AND CURED* OF HEPATITIS C IN THE U.S., 2013-2022



*Cured is defined as viral clearance, which is an undetectable hepatitis C virus ribonucleic acid (HCV RNA) after a prior test result of detectable HCV RNA. **Referred to as Other (client or self-pay) in the analysis

Source: Centers for Disease Control and Prevention



Hepatitis C Epidemiology, US



ESTIMATED 2.4 MILLION (95% CI, 2.0–2.8 million) people living with hepatitis C (2016)



71% INCREASE in rate of acute cases (2014–2018)



3,621 REPORTED ACUTE CASES (2018)



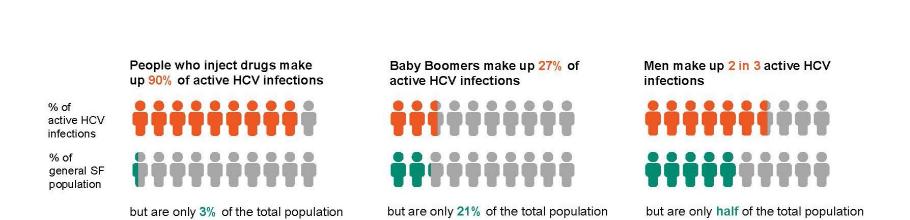
INCREASES IN ACUTE HEPATITIS C INFECTIONS were most often among young people (aged 20–29 and 30–39 years) (2018)



50,300 ESTIMATED ACUTE INFECTIONS (2018) \mathbb{M}

OF NEWLY REPORTED CHRONIC INFECTIONS, 36% among people born 1981–1996 and 36% among people born 1945–1965 (2018)

Hepatitis C Virus Prevalence in San Francisco: Overall and by Subgroup



Approximately 11,500 people are living with active, untreated hepatitis C virus (HCV) in San Francisco; an estimated 90% of those are people who inject drugs (PWID).

Facente SN et al, PLOS One, 2022

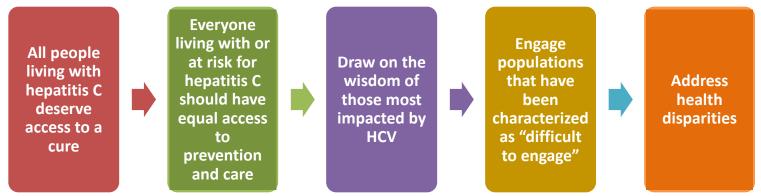
End Hep C SF: Multi-Sector Collective Impact Initiative



Mission

To support <u>all</u> San Franciscans living with and at risk for hepatitis C to maximize their health and wellness. We achieve this through prevention, education, testing, treatment, and linkage to reduce incidence, morbidity, and mortality related to hepatitis C.

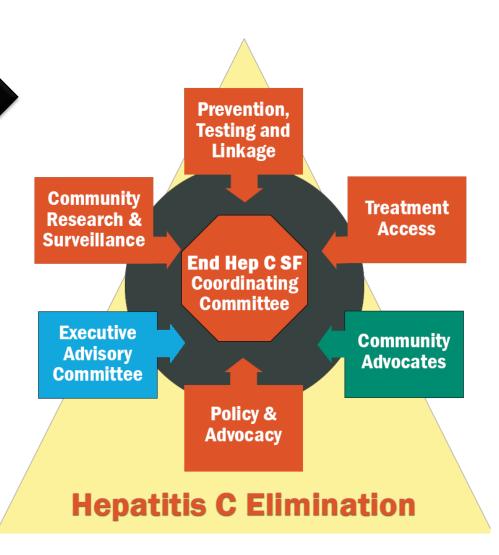
Values



The End Hep C SF Collective Impact Model

Pillars of Collective Impact Model:

- Common Agenda
- Common Progress Measures
- Mutually Reinforcing Activities
- Continuous Communication
- Backbone Support





Addressing Gaps in Hep C Care Cascade in San Francisco

Barriers:

- Reaching at-risk persons for screening
- Linkage from diagnosis to HCV provider
- Paucity of HCV providers
- Competing priorities
- Insurance restrictions

Solutions

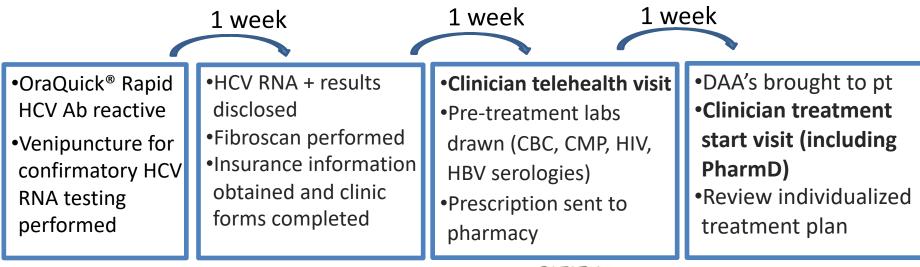
- Increased community-based HCV screening >300%
- Initiated ZSFG in-hospital HCV routine opt-out testing
- Developed community peer navigation program, inpatient navigation program
- Increased PCP HCV treatment capacity >100%
- Supported HCV treatment outside specialty clinics: shelters, drug treatment programs, street medicine teams, harm reduction centers
- Successfully advocated for removal of DAA payer restrictions

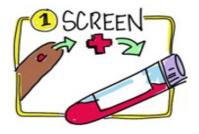
No genotype requirement No PA's for simplified treatment!



Mobile Hepatitis C Screening and Treatment via Telemedicine













Mobile Hepatitis C Screening and Treatment via Telemedicine





Community-based

• Meet people where they are

"I think this is a fantastic program. I don't think I would have sought it out.... To be cured is huge."

"I liked it. It was convenient and normally when I go to a doctor's office I wait an hour or 45 minutes, but I am seen sooner at the van."

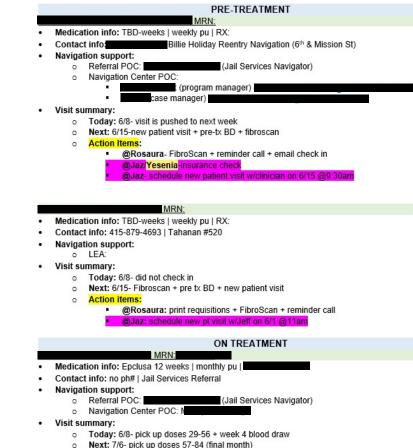
"I was touched that UCSF has come to me because I would have not been able to go to them..."



Staff-assisted collaboration with medical team



Support patients on treatment



Action items:

No One Waits (NOW) Study: Community-Based Point-of-Diagnosis Hepatitis C Treatment



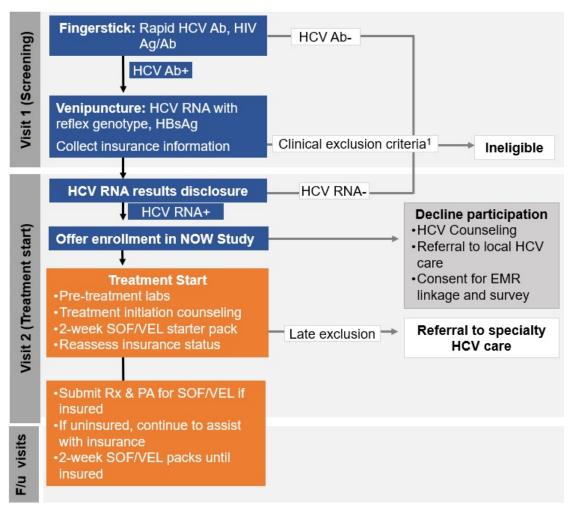
Primary objective: Establish the feasibility, acceptability and effectiveness of an accelerated on-site HCV point-of-diagnosis treatment model in which 2-week starter packs of SOF/VEL are provided at the time of active HCV confirmation



ClinicalTrials.gov identifier: NCT03987503. Morris MD, et al. AASLD 2022. Abstract 3495.

No One Waits (NOW) Study Design





Inclusion criteria:

- •≥18 years
- History of ever injecting drugs or receiving blood transfusion before 1992

Exclusion criteria:

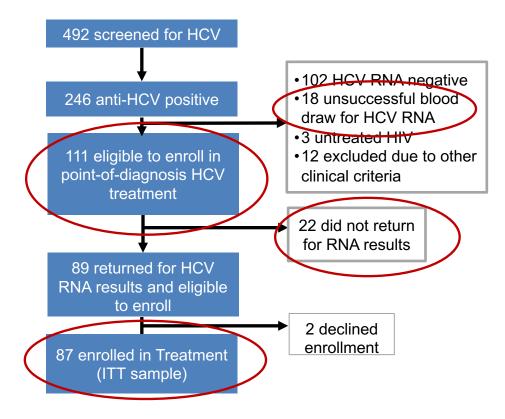
- DAA experienced
- Untreated HIV
- •HBsAg+
- Decompensated cirrhosis

Pre-treatment labs:

- CBC, CMP, INR
- •Anti-HBc, anti-HBs
- •Sample for NS5A RAS testing if FIB-4 >3.25 and genotype 3

HCV Screening and Study Enrollment





- 18/246 (7%) of HCV Ab+ unable to get confirmatory HCV RNA testing
- 111/126 (88%) of HCV RNA+ potentially eligible for modified simplified HCV tx
 - 5 DAA experienced
 - 3 untreated HIV
 - 3 insufficient blood draw (HBsAg)
 - 1 HBsAg+
 - 1 high dose PPI
 - 2 started treatment outside of study
- 22/111 (20%) of HCV RNA+ LTFU between visits 1 and 2
- 87/89 (98%) of HCV RNA+ with results disclosure enrolled in sameday treatment

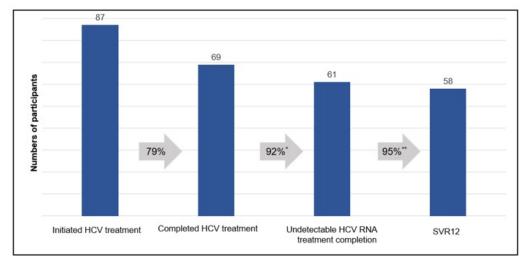
NOW Study Population



	N=87	
Median years of age (IQR)	48 (37, 58)	
Male	71%	
Race and ethnicity		
African American and Black	25%	
Latino/a/e/x	10%	
Asian, Native Hawaii, Pacific Islander, Mixed	6%	
White	56%	
Not specified	2%	
Slept outside or in vehicle in past 12 months	61%	
Current housing		
Outdoors or vehicle	43%	
Shelter	9%	
SRO or hotel	17%	
With friend or family	3%	
Treatment or transitional	10%	
Rent or own	17%	
Income below the national poverty line	97%	
Any injection drug use in past 3 months	80%	

	N=87		
Insured at time of enrollment	94%		
Type of insurance			
Medi-Cal/SFHP	95%		
VA	1%		
Blue Cross	3%		
Kaiser	1%		
Primary care provider	48%		
Time it took to get to study location			
Less than 15 min	52%		
15 min - 30 min	29%		
More than 30 minutes	17%		

No One Waits (NOW) Study: Community-Based Point-of-Diagnosis Hepatitis C Treatment



*excludes 3 people with incomplete blood draws at end of treatment **includes 2 people with presumed reinfection post-treatment •ITT SVR12: 67%

- •PP SVR12: 84%
- •Lower SVR12 in people experiencing homelessness over past 12 months (55% vs 85%)

Study

- •No adverse events causing premature tx discontinuation
- •No alterations in treatment based on pre-treatment labs drawn day of SOF/VEL start

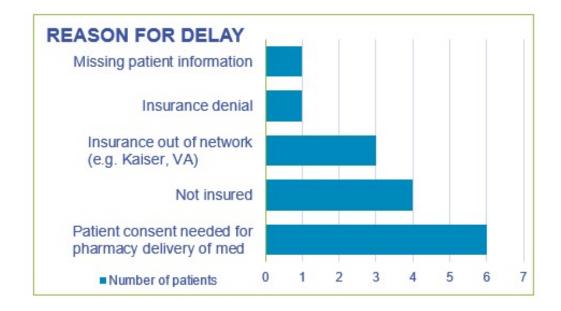
Transition from Study-Provided to Insurance-Provided DAA*



Transition to Insurance-covered Medication

91% transitioned to insurance-covered DAAs during the 12-week course.

- •77% transitioned after the 2-week starter pack
- •9% remained on study drug throughout treatment



*Among first 64 participants July 2020 to July 2021

Ung D et al. AASLD 2022. Abstract 984.

Role of the Pharmacy Team in Point-of-Diagnosis HCV Treatment



Colli	aboratory Steps	1. Patient intake	2. Prescription sent to pharmacy team	3. Benefits investigation	4. Prior authorization submission	5. Insurance approval	6. Medication dispensed/delivered
Details		 Gather baseline participant information cldentification card Health insurance Bloodwork Income/ household size 	SOF/VEL • CL notifies PH/PT via	PT verifies participant's insurance coverage PT and RT communicate to troubleshoot hurdles	*Prior authorization for prescription approval is required by insurance plans except Medi-cal. • PT compiles information needed for PA (Step 1) • PT submits Prior Authorization request to IC • PT/RT respond to appeals as needed	IC approves prescription authorization request PT/PH receives notification of approval PT/RT enrolls participant in **Copay Assistance as needed OR study pays copay	 RT and PT coordinate medication pick-up from pharmacy RT picks up medication from pharmacy RT dispenses medication to patient at community research site visit
Time		30 min	10 min	5 min – 7 days	30 min	24 -72 hrs.	15 min -1 hr.
-	Research Team (RT)						
å	Clinician (CL)						
ÊĘ	Pharmacist (PH)						
woh	Pharmacy technician (PT)						
	Insurance Company (IC)						

*Prior authorization requirements

- Clinical notes to support HCV diagnosis
- Cirrhosis status, genotype, previous treatment history

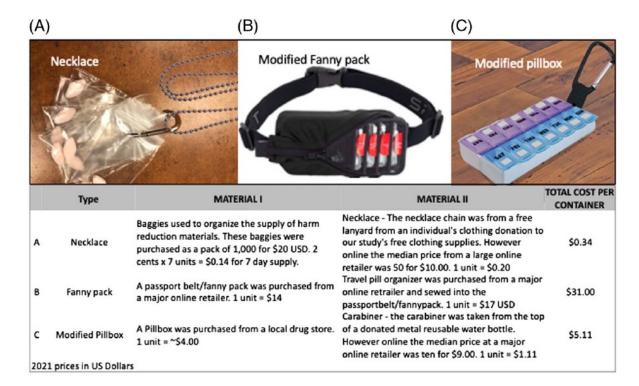
**Copay Assistance Program requirements

- -Program-specific eligibility
- -Proof of income
- -Household size

HCV Medication Security Strategies for People Experiencing Homelessness



- •63% of surveyed participants reported concerns about safely storing their DAAs
- •33% reported missed doses due to **medication loss/theft**
 - •70% reported multiple instances of medication loss over 12 week treatment course





Key Themes for Success





Shorten the steps from HCV diagnosis to treatment

• Minimize obstacles, blood draws, insurance barriers



Community-based

- Meet people where they are
- Close to where participants live/congregate, public transit



Staff-assisted collaboration with medical/pharmacy team

- Utilize technology in way to address needs of population
- Maximize specialty resources



Provide support through treatment

- Regular check-ins
- Safe medication storage

Thank you!

UCSF

Lisa Catalli, NP Jeff McKinney, NP Diana Ung, PharmD Mackenzie Clark, PharmD Vivian Lian, PharmD Philip Kong, PharmD Martha Delos Reyes, Pharm Tech Claire Mcdonell Rebecca Kim, MD Annie Luetkemeyer, MD Meghan Morris, PhD USC Norah Terrault, MD

NOW Study participants

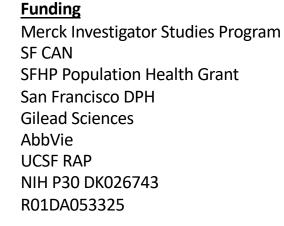
DeLIVER Care Van



NOW Study



End Hep C SF







Yesenia Laguardia

UCSF DeLIVER Care Project Manager



Pauli Grey

UCSF DeLIVER Navigation Coordinator and Harm Reduction Specialist



Jordan Ackerley

End Hep C SF Strategic Director