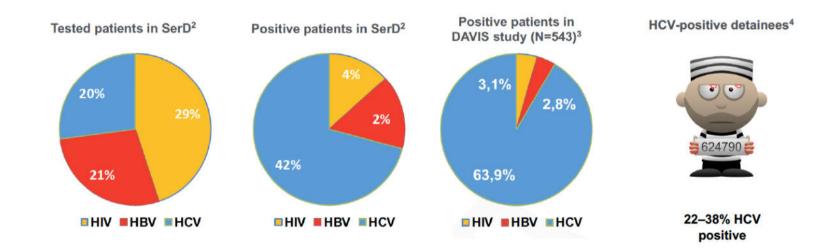
### I Piani di Eliminazione di HCV: Il ruolo dei Ser.D. nel sistema delle reti

Felice Alfonso Nava, MD, PhD

## **Epidemiology in key population**

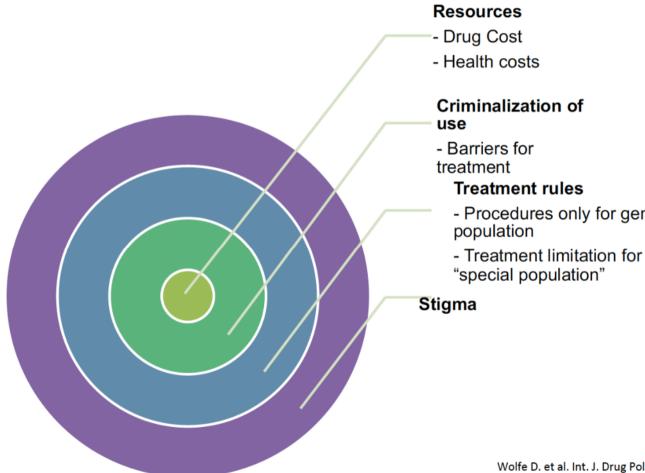




1. Nava FA, et al. Italian Quarterly Journal of Addiction 2018: Mission 49:56–61; 2. Annual report to the Parliament 2019 on the status of drugs in Italy. Available at: http://www.politicheantidroga.gov.it/media/2596/rap\_2019-dati-2018.pdf; 3. Stroffolini T, et al. J Med Virol 2012;84:1608–12; 4. Zampino R, et al. World J Hepatol 2015;7:2323– 30

.

### **Structural Barriers**



- Procedures only for general

Wolfe D. et al. Int. J. Drug Policy, 2015; 26: 1072-80

### **Operational Barriers**



- Anawareness
- Behavioural disorders
- Social and aconomic difficuties
- Weak relationship with doctors
- Stigma
- No motivation to change



- Concern on adherence and reinfection
- Lack of a clinical network
- Lack of communication between spcialists



### System's correlated

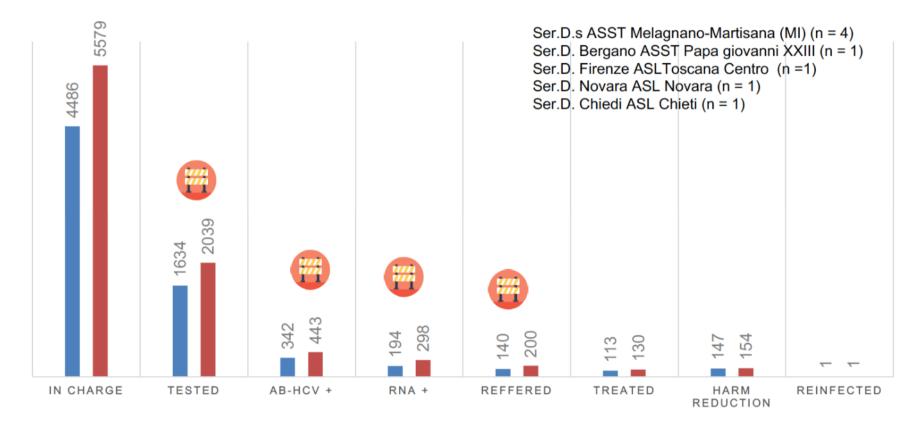
- Lack of resources
- Lack of specialist collaboration
- Distannce between clinical centers
- No blood collection centers
- No procedures or guidelines

F.A. Nava, Personal Communication

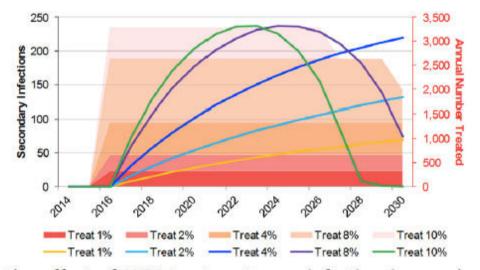
### **Italian Barriers**

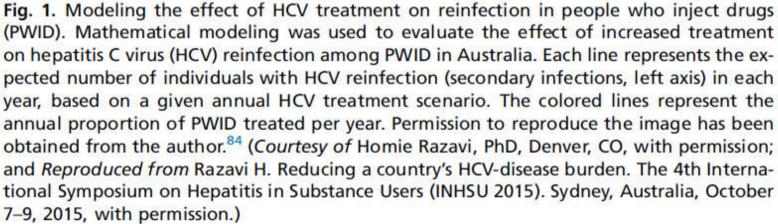
### CASCADE OF HCV CARE IN SER.D.S (SCUDO STUDY)

■2017 ■2018

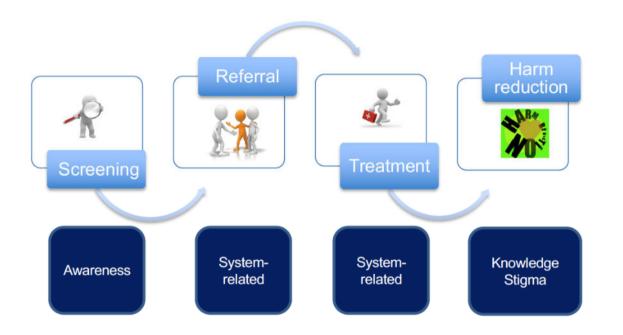


F. Nava – Unpublished data from SCUDO Study





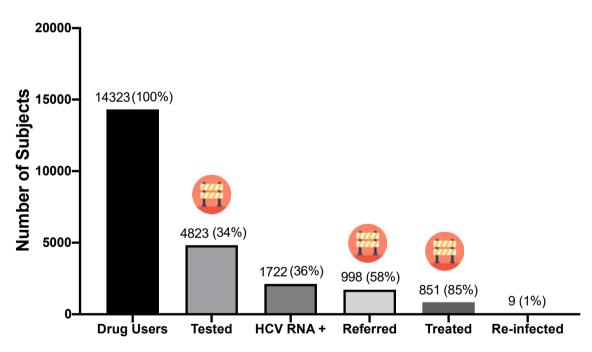
### Treatment of PWID with HCV infection: Essential Step



Nava FA, et al. Italian Quarterly Journal of Addiction 2018: Mission 49:56-61

## Epidemiology of Special Population in Veneto Region (31 Dec. 2018)



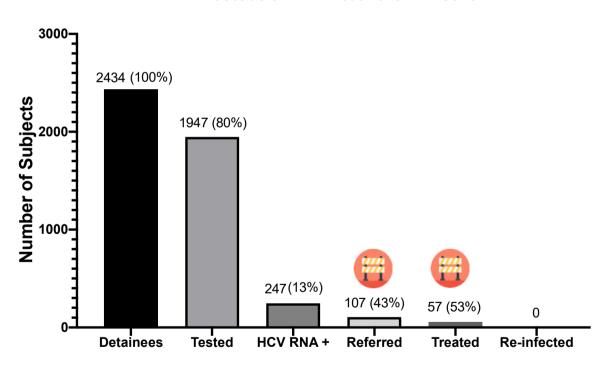


Cascade of HCV Treatment in Ser.D.s

Unpublished data

## Epidemiology of Special Population in Veneto Region (31 Dec. 2018)





Cascade of HCV Treatment in Prisons

Unpublished data

### **The Point of Care**

The **«Point of Care»** is a *fast track* clinical pathways, a sort of diagnostic therapeutic pathways with the aim to make on site (where is the patient) screening, diagnosis, and treatment

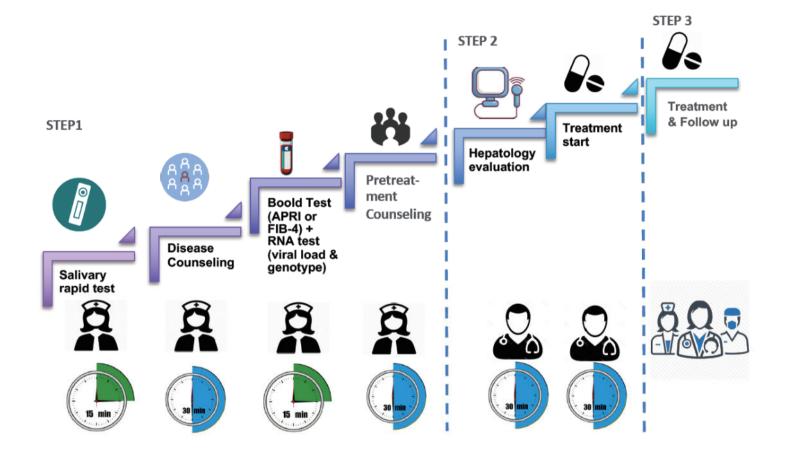
Vold et al., 2019, BMC Infect. Dis., 19:306

### The Point of Care for PWIDs

The **Point of Care** inside Ser.D.s and Prisons consists of a pre-ordinated sequence of actions able to make diagnosis and to make easy the beginning of treatment (removing referral barrier)

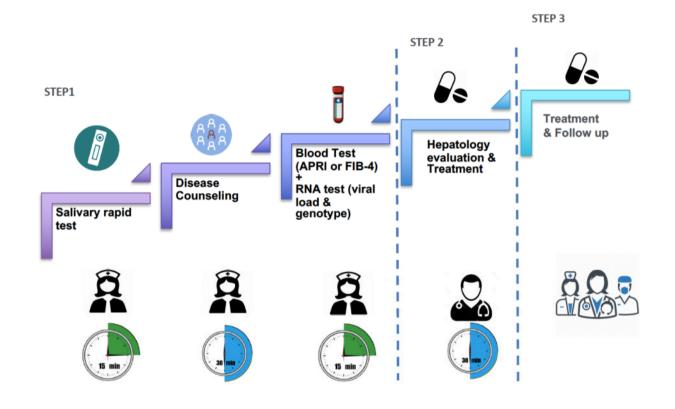
Bajis et al., 2017, Int. J. Drug Policy, 47: 34-46 Remy et al., 2016, AASLD 2016, Poster#775

### **Test & Treat: Point of Care**



F.A. Nava, 2019; Quaderno ReAdfiles, Suppl. N. 1, n.1, 10-15

### Test & Treat: Point of Care (12 Criteria AIFA Removed)

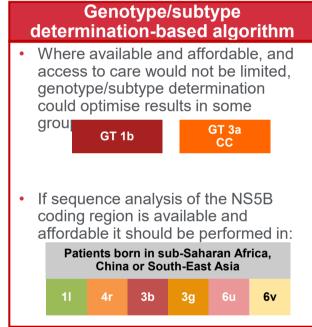


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### **EASL HCV treatment recommendations 2020**



Simplified treatment algorithm						
<ul> <li>Improving access to HCV therapy has become a worldwide priority</li> <li>When genotype/subtype determination is not available, not affordable and/or limits access, simplified treatment should be used to facilitate the cascade of care</li> <li>Groups who will benefit from a streamlined care pathway:</li> </ul>						
PWID	Prisoners	Homeless individuals	Migrants	Rural communities with poor access to care		
People with mental health disorders	People with substance use disordersMSMSex workersIndigenous populations					
"Pangenotypic HCV drug regimens can be used to treat individuals without identifying the HCV genotype and subtype"						



- EASL CPG HCV. J Hepatol 2020; https://doi.org/10.1016/j.jhep.2020.08.018
- CC, compensated cirrhosis; GT, genotype; MSM, men who have sex with men; PWID, people who inject drugs

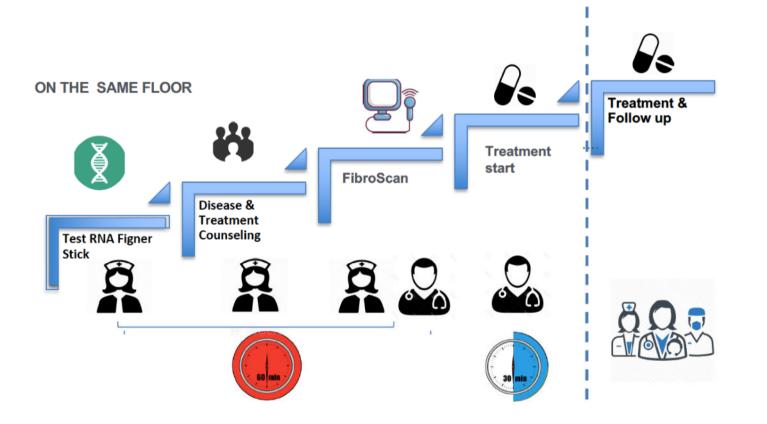
# Simplified, genotyping-/subtyping-free treatment with pangenotypic regimens

- Simplified, genotyping-/subtyping-free pangenotypic treatment must be used to improve access to HCV treatment and increase the global infection cure rates in any setting where genotype and subtype determination is not available, affordable and/or would limit access to therapy (A1)
- Pre-treatment assessment can be limited to the presence of HCV viraemia and the presence or absence of cirrhosis by a non-invasive method (A1)
- Possible DDIs should be carefully checked and dose modifications implemented when necessary (A1)
- Testing for SVR12 can be omitted in all adherent patients except those with high-risk behaviours and risk of reinfection (B1)

<sup>•</sup> EASL CPG HCV. J Hepatol 2020; <u>https://doi.org/10.1016/j.jhep.2020.08.018</u>

DDI, drug-drug interaction; SVR12, sustained virological response 12 weeks after the end of treatment

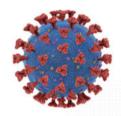
## Test & Treat: Point of Care (Fast-Track) (Genotype Removed)



Nava FA. Personal communication (model modified from Grebely et al., 2017, Expert Rev. Mol. Diagn., 17(12: 1109-1115

### Test & Treat Project: SerD e Carceri (DG 791/2018): Progetto Coris

Proposta di rimodulazione del progetto Coris per ravorire l'inizio del trattamento: <u>i presupposti</u>



Il continuare dell'emergenza COVID-19

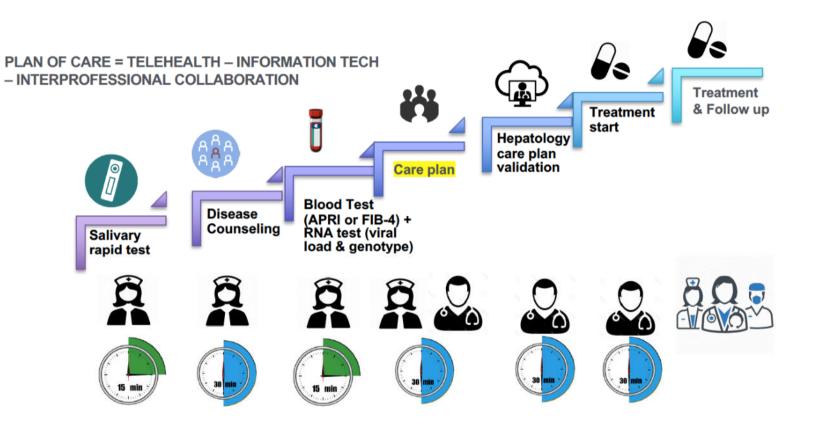


DIREZIONE GENERALE DELLA PREVENZIONE SANITARIA UFFICIO 5 Prevenzione delle malattie trasmissibili e profilassi internazionale

Gruppo di Lavoro per la redazione del decreto interministeriale ai sensi dell'art. 25 sexies del D.L. 30 dicembre 2019 n. 162

L'offerta di test rapidi (capillari e RNA finger stick) per tutta la popolazione in carico ai SerD per il 2020-21

## **Test & Treat: Plan of Care**



F.A. Nava, Personal Communication

### Test & Treat Project: SerD e Carceri (DG 791/2018): Progetto Coris

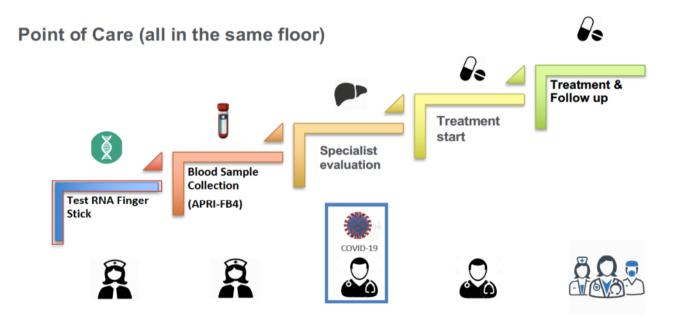
Proposta di rimodulazione del progetto per l'inizio del trattamento: il Piano di cura

medici infettivologi/epatologi attraverso il piano di cura redatto
 dai medici dei SerD e delle carceri all'interno del percorso per i pazienti
 HCV + predispongono l'inizio del trattamento:

- scegliendo il farmaco da somministrare;
- stabilendo le modalità di monitoraggio e di follow-up

I medici dei SerD e presso le carceri, come predisposto dai medici infetivologi/epatologi, eseguiranno il monitoraggio e il follow-up

### Point of Care at COVID-19 Era



F.A. Nava, Personal Communication

### **EASL HCV treatment recommendations 2020**

Treatment-naïve/treatment-experienced patients with or without compensated cirrhosis



#### Simplified treatment (no genotype/subtype determination)\*

Genotype	Cirrhosis status	Treatment history	SOF/VEL	GLE/PIB	SOF/VEL/VOX	GZR/EBR
All genotypes	No cirrhosis	Treatment-naïve	12 weeks	8 weeks	No	No
		Treatment- experienced				
	Compensated cirrhosis (CTP A)	Treatment-naïve				
		Treatment- experienced		12 weeks		

- Treatment-experienced defined as previously treated with PEG-IFN + RBV; SOF + PEG-IFN + RBV; or SOF + RBV.
- \* Whenever HCV genotype and subtype determination is not available, not affordable and/or limits access to care.
- CTP, Child–Turcotte–Pugh; EBR, elbasvir; GLE, glecaprevir; GZR, grazoprevir; PEG-IFN, pegylated interferon; PIB, pibrentasvir; RBV, ribavirin; SOF, sofosbuvir; VEL, velpatasvir; VOX, voxilaprevir
- EASL CPG HCV. J Hepatol 2020; https://doi.org/10.1016/j.jhep.2020.08.018

## Drug-drug interactions between HCV DAAs and illicit/recreational drugs or drug of abuse

	SOF	SOF/VEL	SOF/VEL/VOX	GLE/PIB	GZR/EBR
Amphetamine	•	•	•	•	•
Cannabis	٠	•	◆	•	•
Cocaine	٠	•	◆	•	•
Diamorphine	•	•	◆	•	•
Diazepam	٠	•	◆	•	•
Fentanyl	•	•	◆		
Gamma -hydroxybutyrate	•	•	◆		
Ketamine	٠	•	◆	•	•
MDMA (ecstasy)	٠	•	◆	•	•
Mephedrone	•	•	◆	•	•
Methadone	٠	•	♦	•	•
Methamphetamine	•	•	<ul> <li>Image: A set of the set of the</li></ul>	•	•
Oxycodone	•	•	•		
Phencyclidine (PCP)	•	•	•	•	•
Temazepam	٠	•	<b>•</b>	•	•

DAAs, direct-acting antivirals; EBR, elbasvir; GLE, glecaprevir; GZR, grazoprevir; PIB, pibrentasvir; SOF, sofosbuvir; VEL, velpatasvir; VOX, voxilaprevir.

EASL CPG HCV. J Hepatol 2020; https://doi.org/10.1016/j.jhep.2020.08.018

## **COVID-19 Era: The Active Ingredients**

#### Points to consider:



- To know the - COVID-19 number of emergency patients to be - Lack of HCV treated specialists - Point of care as - No time for HCV effective model specialist to go of treatment for inside SerDs and HCV + PWIDs Weakness Prisons - Case manager - Waiting list for (nurse based) treatment - Limits in the access to care

#### Points to consider:

- Care plan managed by HCV specialist in telehealth
- Clinical evaluation and treatment by addiction specialist
- Operational management made by addiction
   nurse

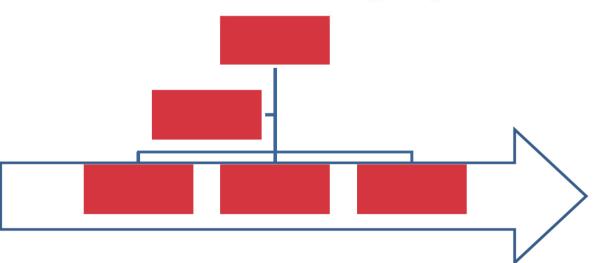


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The organization should not preserve the "internal order" that can be a "barrier" for client's need....

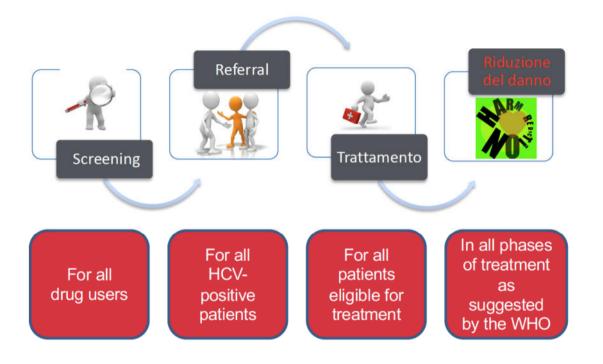


The organization is vertical while the client's service is horizontal



George Fisher former Motorola CEO

### **Patient's Journey**



Nava FA, et al. Italian Quarterly Journal of Addiction 2018:Mission 49:56-61



## Harm Reduction Kit



Information provided by Dr Felice Alfonso Nava

### Go Beyond: Plan of Care as New Paradigma

- Effective
- Simplify
- Access to care
- Team work & Clinical Network
- Cost-effectiveness ("health return")



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