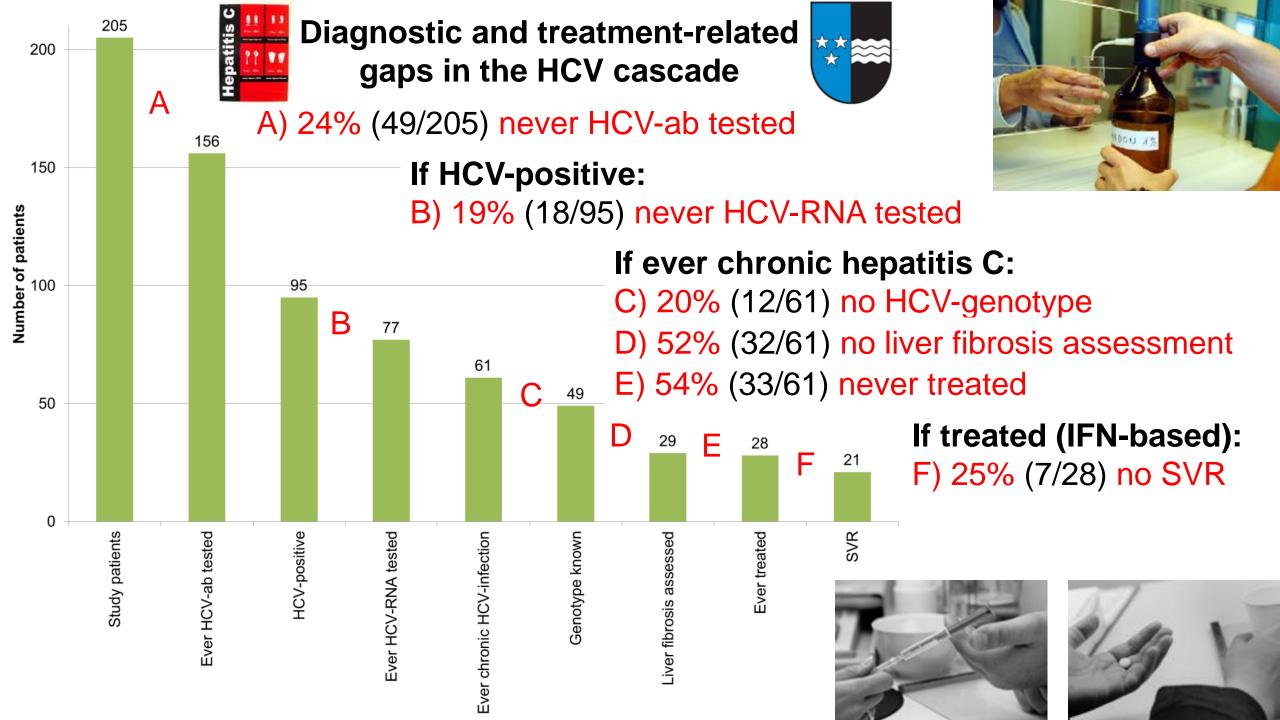


People who inject drugs gaps in the care system of a high-risk group

Andrea Bregenzer

Claude Scheidegger







Further gaps beyond the HCV cascade





- G) 26% (53/205) never HIV-ab tested
- H) Yearly HIV-ab screening in HIV-negatives: In only 20% (37/187), last test ≤1 year old
- I) Yearly HCV-ab screening in HCV-negatives: In only 23% (22/94), last test ≤1 year old
- J) Yearly HCV-RNA screening in HCV-ab-positive-HCV-RNA-negatives: In only 40% (16/40), last test ≤1 year old
- K) In >50% HAV/HBV-serostatus unknown
- L) If HAV/HBV-serostatus known: 46% (36/79) not immune against HAV 33% (33/100) not immune against HBV







Potential reasons for these gaps





Diagnostic gaps:

- Difficult venous access after long-term intravenous drug use
- Fear of liver biopsy
- OST programmes often exclusively led by psychiatrists
 - → somatic diseases, especially chronic infections, frequently unaddressed
- Lack of a yearly reminder regarding screening

Treatment-related gaps:

- Toxicity and low efficacy (40-80% SVR) of IFN-based treatment
- Referral to outpatient clinics of tertiary care hospitals often problematic (difficulty keeping appointments)
- Reimbursement restrictions
- Prescription only by gastroenterologists/ infectious disease specialists

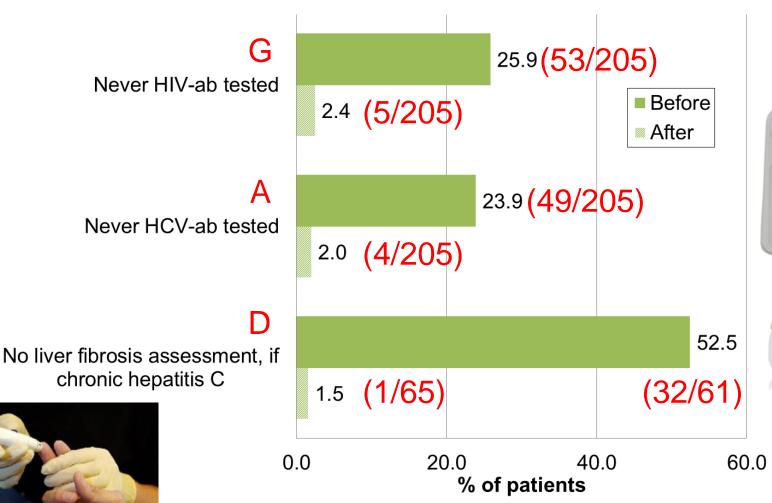






Effect of free HIV/HCV-rapid testing and mobile Fibroscan®





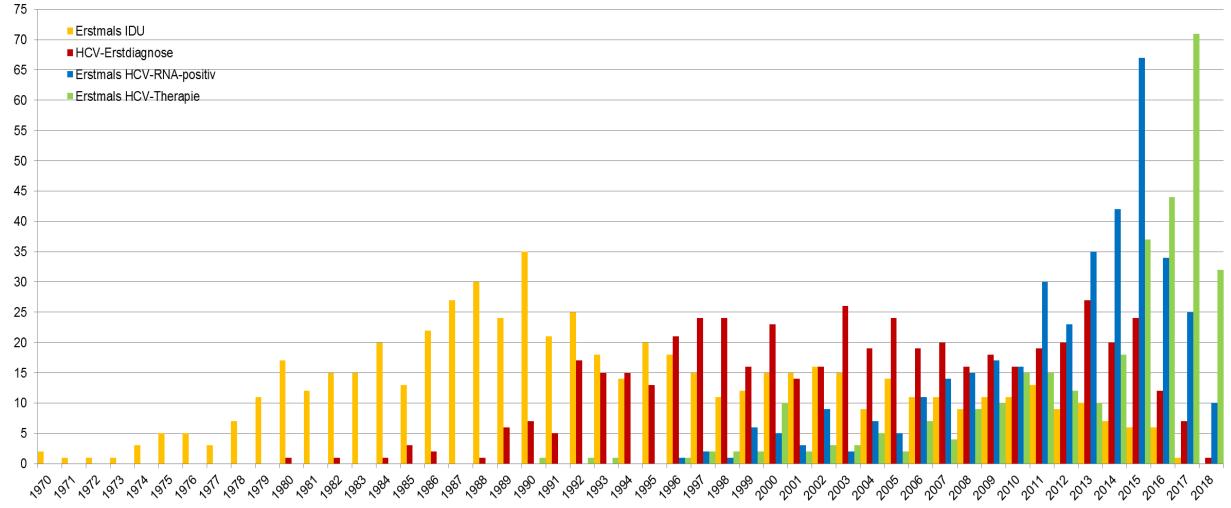
No new
HIV diagnoses
(last first diagnosis: 2008)

14 new HCV diagnoses
10 false-negative results
(all HCV-RNA negative)



Higher acceptance, if in the same session (94% vs. 69%)

"Hepatitis C waves" in the SAMMSU* Cohort





- > Awareness
- > Availability
- > Access
- > Affordability
- > Allocation
- > Attractiveness



- Awareness
- ➤ Availability
- ➤ Access
- ➤ Affordability
- > Allocation \(\sqrt{1} \)
- > Attractiveness v



Awareness

> Availability

> Access

> Affordability

> Allocation

Attractiveness







- Awareness
- Availability
- > Access
- Affordability
- Allocation
- Attractiveness

Diagnosis

- not considered
- wrong hypotheses



- Awareness
- Availability
- > Access
- Affordability
- > Allocation
- Attractiveness

Misconceptions about treatment

- "not necessary"
- abstinence requested
- needs liver biopsy
- needs many blood tests
- long treatment duration
- with interferons
- with limitations (patients)
- high risk for reinfection



- Awareness
- Availability
- > Access
- > Affordability
- > Allocation
- Attractiveness

unsolved for

- people who use drugs
- prison inmates
- people with migration background
- uninsured people
- sans-papiers





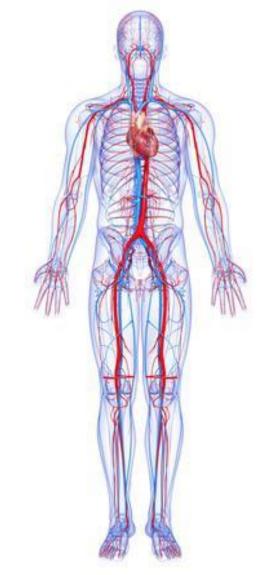
- Awareness
- Availability
- > Access
- Affordability
- Allocation
- Attractiveness

limitations for prescribers

treatment obstacles

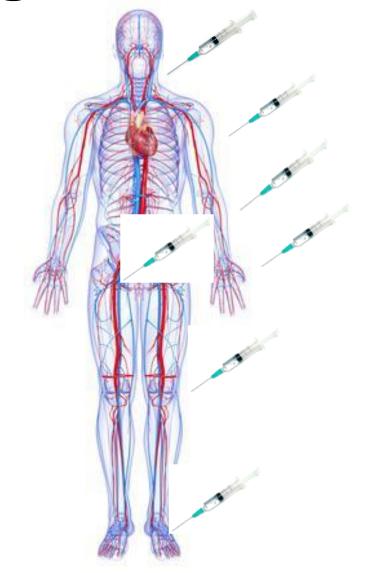
Blood sampling ...





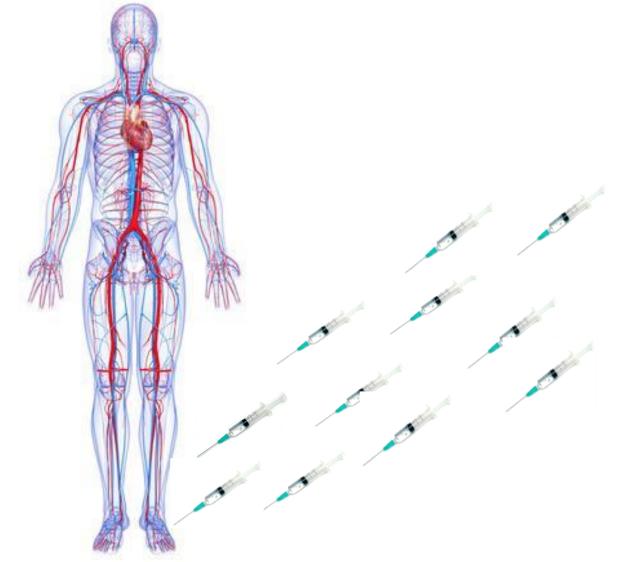
Blood sampling ...

















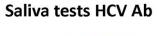
Alternatives to

whole blood sampling



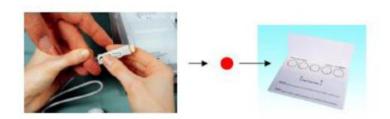






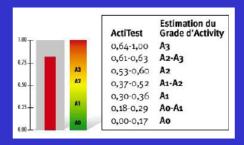






Improve assessment Access to non invasive fibrosis assessment

Fibrotest



Fibroscan











What do you really need to cure HCV

What does the patient want from HCV therapy
The Cure





> Awareness

> Availability

> Access

Affordability

> Allocation

> Attractiveness (*

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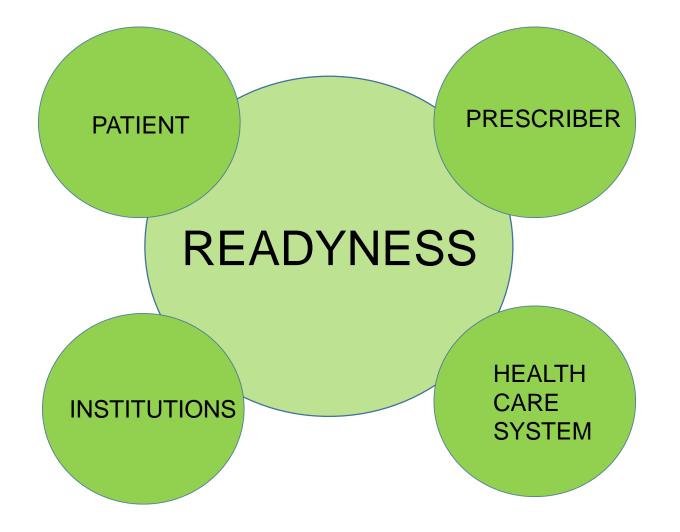
















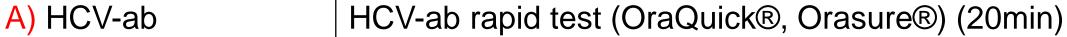
Minimally invasive point-of-care tests and other measures to close the gaps







Gap	Measure(s) to close it

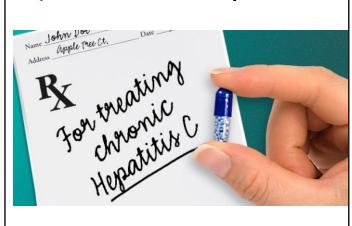


B) HCV-RNA Xpert® HCV VL Fingerstick (60min)

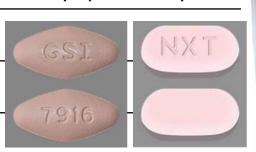
C) HCV-genotype Dispensible with pangenotypic DAA

D) Liver fibrosis stage | Mobile Fibroscan® (5-10min)

E) Treatment-uptake



- IFN-free treatment: simpler, shorter, better tolerable
- Since 2017, no reimbursement restrictions regarding liver fibrosis stage
- Reimbursement in prisons and during the stay in a psychiatric/addiction clinic?
- «Test-and-treat» on site (OST-programme)
- Prescription by general practitioners?







Minimally invasive point-of-care tests and other measures to close the gaps







Gap	

Measure(s) to close it

F) Treatmentsuccess

>95% SVR with pangenotypic DAA



G) HIV-ab

H-J) Yearly screening

Linkage to the yearly renewal of OST prescription

K) HAV/HBVserology

Linkage to the yearly renewal of OST prescription OnSite® HAV IgG/IgM Rapid Test (CTK Biotech) (15min) HBV-panel (anti-HBs, HBs-Ag, anti-HBc) rapid test (developed by MagIA Diagnostics) (15min)

HIV-ab rapid test (Determine® HIV-1/2, Alere®) (15min)

L) HAV/HBVvaccination

- «Test-and-vaccinate» on site (OST programme)
- Linkage to HCV-therapy: 1st(start), 2nd(week 4), 3rd(SVR)

Point-of-care tests using capillary blood and a "test-and-treat/vaccinate" approach on site can remove crucial barriers to diagnosis and treatment.

