

**Moving Towards Hep C-Free BC: Models of Care
for Hepatitis in BC.**

Improved Linkage to Care by Targeting HCV RNA(+) Persons in the BC-HCV Network

Gastrointestinal Research Institute (GIRI)

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Disclosures (within Last 24 months)

Company Name	Relationship
Abbvie	Investigator, consultant, speaker, Grants
Allergen	Investigator
Arbutus	Investigator
Assembly Bio Sci.	Investigator
Celgene	Speaker
Gilead Sci. Inc	Investigator, Consultant, Speaker; Grants
Janssen (J. & J.)	Investigator, Speaker
Intercept	Consultant, investigator, speaker, Grants
Lupin	Consultant
Novartis	Investigator
Merck & Co.	Investigator, Consultant, Speaker; Grants
Springbanks	Investigator

Funding from SCALE Grant through Gilead.

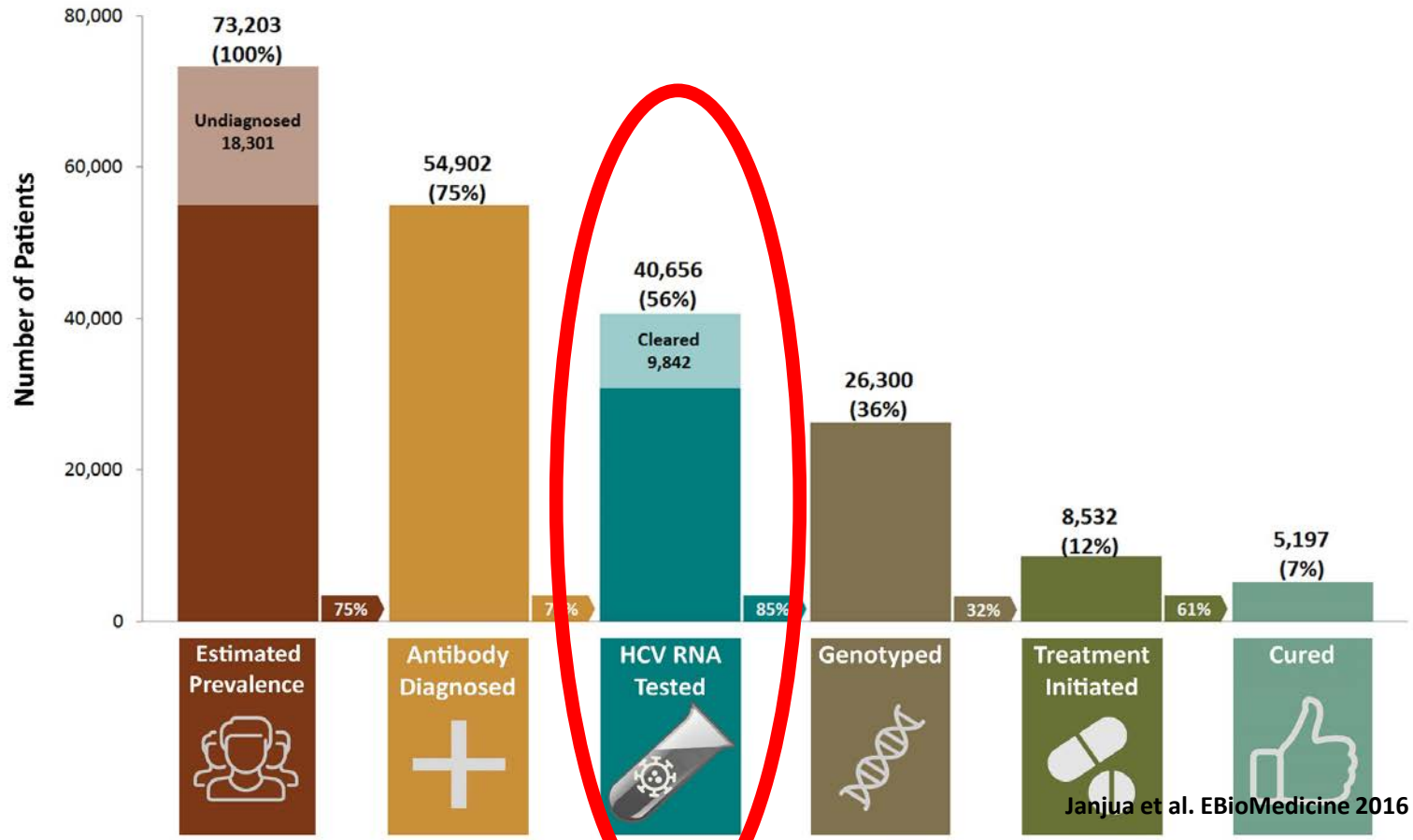
Background

- There is no national HCV screening program in Canada.
- Many persons with chronic HCV are not linked to care (LTC).
- In British Columbia (BC) the majority of HCV persons have been tested but are untreated.
- A major challenge in the cascade of care is the linkage of persons who are HCV RNA (+) but lost to follow-up (LTFU).

Objective

To evaluate the linkage to care by directly and indirectly contacting those persons who are HCV RNA (+) and previously seen but untreated as yet in the BC HCV Network.

HCV Cascade of Care in BC



Model Of Care

- Established HCV Clinics:
 - Seen patients for > 5 –years
- Population served?
 - All persons seen in these clinics: aim for diverse clinic types:
 - Public Health, persons who use drugs, immigrant populations, First Nations

Model Of Care

- Program:
 - Retrospective review of persons seen in the clinic prior to capture disease and treatment state.
 - On-line portal to provide each clinic with individual clinic information.
 - Individual clinics then can 'recall' persons who are not yet cured.

Model Of Care

The screenshot displays the BCHcN (British Columbia Hepatitis C Network) dashboard. The browser address bar shows the URL <https://bchepc.com>. The user is logged in as Jeanette Feizi, with a 'Log out' button in the top right corner.

Navigation Menu (Left):

- Dashboard
- Patient list
- New patient
- Reports
- Settings
- Help desk
- Feedback

Summary Cards (Top Middle):

Welcome Jeanette Feizi	
Total patients registered	1944
Total patients on therapy	32
Total patients that completed therapy	1146
Total patients awaiting therapy	501

Patients Section (Top Right):

Search by Last Name or ID

Enter your search criteria above

Reports Section (Bottom Right):

From Date: 23/04/2019 To Date: 23/07/2019

Quick reports (Bottom Middle):

- Patients by genotype
- Patients on therapy
- Patients by gender

Bar Chart (Bottom Right):

The bar chart displays data for the period from 23/04/2019 to 23/07/2019. The Y-axis represents a count from 6 to 13. The X-axis shows four data points with the following values: 7, 12, 7, and 10.

Period	Count
1	7
2	12
3	7
4	10

Challenges In Establishing Model Of Care?

- Infra-structure to include personnel support
- 'HCV Diagnosis': relies on clinic having a list of HCV persons seen prior
- Contact information for the patient: Thru GP, other if needed

Successes: Results:

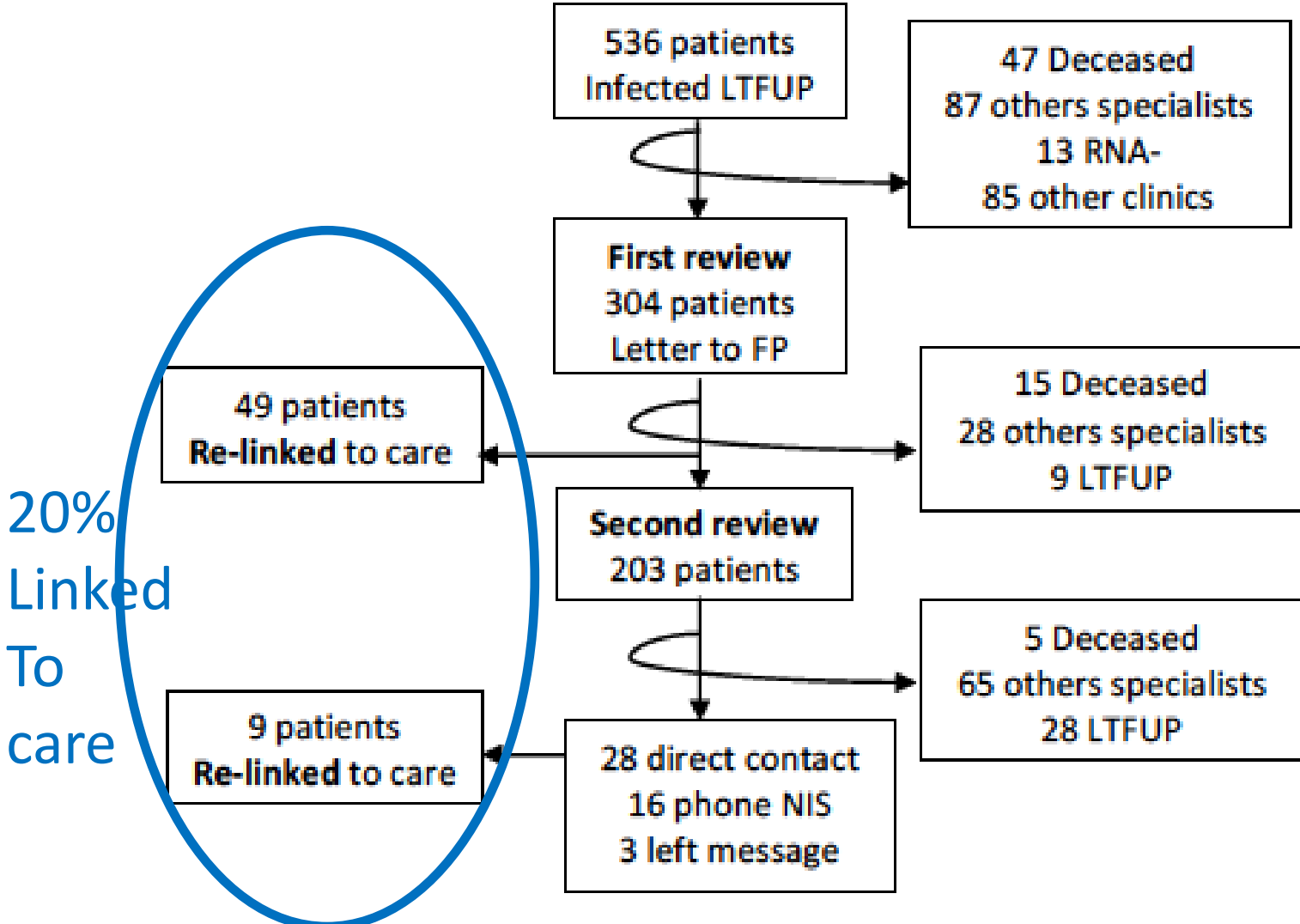
- 1900 HCV infected persons' charts were reviewed from 2008 to 2019.
- Mean age was 59.2 ± 12.3 years
- 1060 (65%) were males
- 494 (26%) had cirrhosis

- 779 persons were cured before Jan 2017

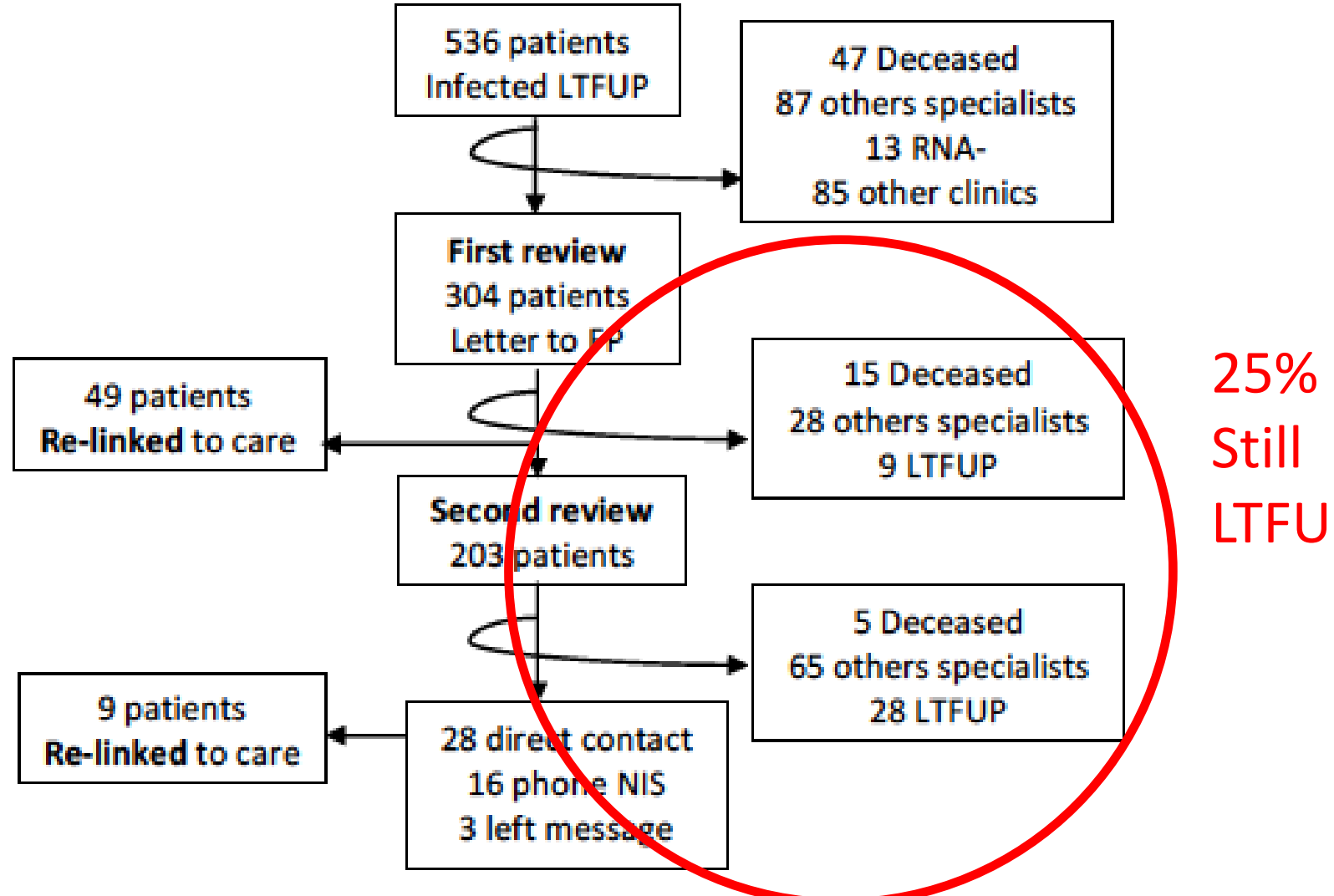
Results:

	Dec 2017	Dec 2018	May 2019	Total
Untreated	163 (35%)	108 (36%)	51(34%)	322 (35%)
Cured	296 (65%)	189 (64%)	100 (66%)	585 (65%)
Total	459	297	151	907

Results: Patients LTFU

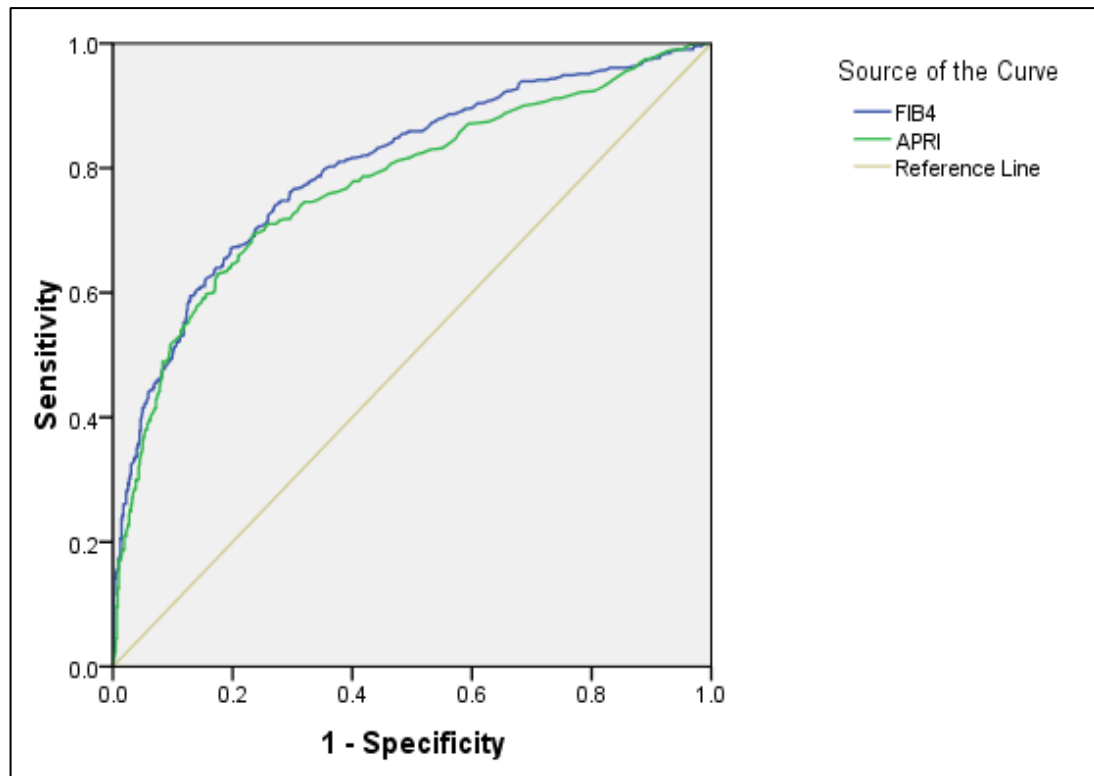


Results: Patients LTFU

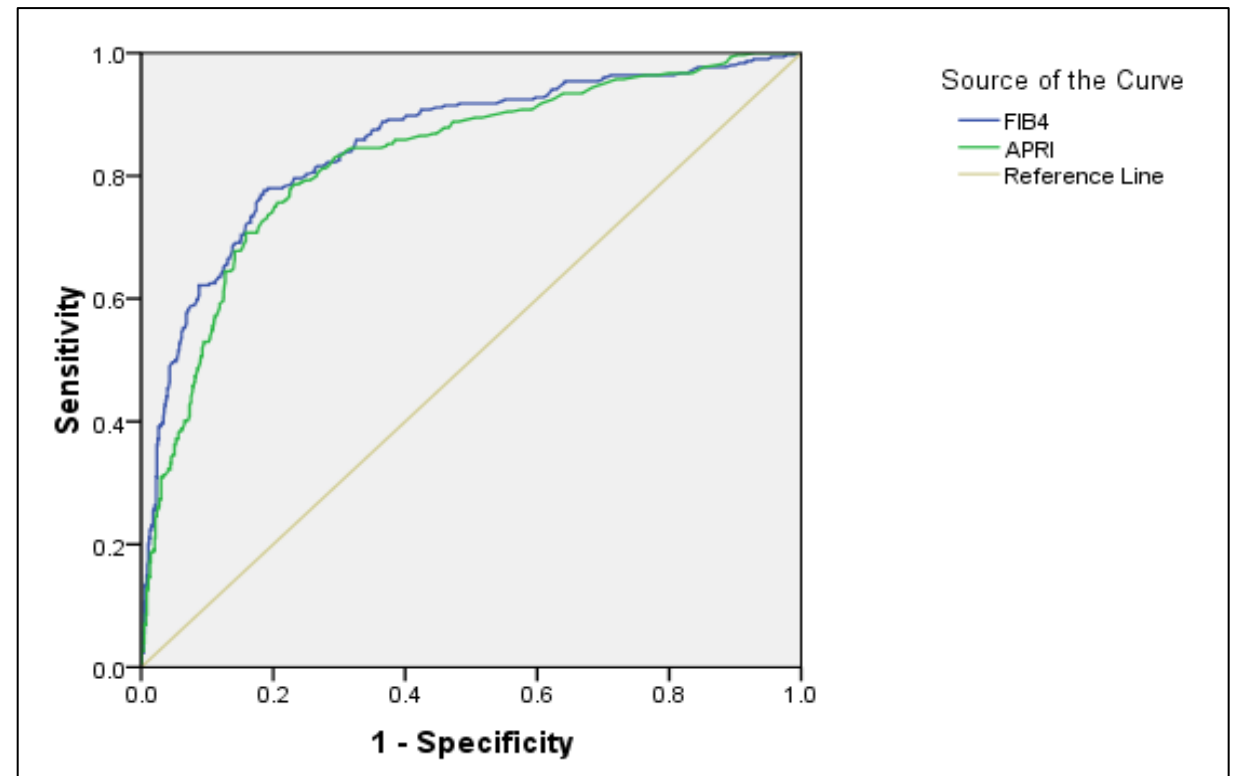


Validation for APRI and FIB 4 with Fibroscan from BC HCV Network Patients

ROC Curve for FIB4 and APRI for <8.5 kPa



ROC Curve for FIB4 and APRI for >12.5kPa



AUC of For FIB4<1.45 is 0.80, APRI<0.7 AUC – 0.77 (p <0.001) for F0-1 (kPa<8.5)

AUC of FIB4>3.25 is 0.85; APRI>2 AUC = 0.82 (P <0.001) for F4 (>12.5 kPa)

Future Directions

- More clinics: Increase 'patient pool' : short-waiting lists.... 'we need more patients!'
- Diversity: Geographic and patient and clinic type
- Convince Ministry Of Health that the HCV RNA step in the Cascade of care is a relevant to help eliminate HCV.

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