5<sup>th</sup> HEPATITIS C
TECHNICAL ADVISORY
GROUP
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# LONG-TERM HEALTH OUTCOME AMONG HCV PATIENTS WITH ADVANCED LIVER FIBROSIS TREATED THROUGH THE HCV ELIMINATION PROGRAM

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### Goal

 Evaluation of long-term treatment outcome among patients with advanced liver fibrosis treated with DAAs after achieving sustained viral response (SVR)

# **Objectives**

- Follow a cohort of HCV-infected persons with advanced liver fibrosis enrolled in HCV Elimination Program to estimate:
  - Changes in liver fibrosis level
  - Changes in liver enzymes and PLT
  - The risk of decompensated liver cirrhosis

# **Participating clinics**

- Neolab
- Infectious diseases clinic

- Hepa
- Mrcheveli









### **Methods**

- Study cohort included patients who:
  - Completed full course of the DAA treatment through HCV elimination program in Georgia
  - Had advanced liver fibrosis level by elastography (≥F3) or FIB4 score (≥3.25)
  - Achieved SVR (measured at week 12-24 post treatment)

### **Methods**

- Study cohort selected form patients enrolled in HCV elimination program in May-December, 2015
- First follow-up visits performed from Nov 2017 June 2018 (~2 years after SVR achieved)
- Second follow-up visits started from May 2019 (~4 years after SVR achieved)
- Baseline data: extracted from medical records
- Follow-up data: prospectively collected

### Methods

- Baseline and post treatment changes were evaluated:
  - Liver fibrosis level (in kpa or FIB4 score)
  - ALT
  - AST
  - PLTs
  - Spleen size
  - Presence of ascites

Totally 600 patients had the first follow-up visit (2 years after achieving SVR)

### Demographic characteristics of the sample

Characteristic	N	%
Age		
18 – 49	250	41.7
≥ 50	350	58.3
Gender		
Female	85	14.2
Male	515	85.8

- Up to date 227 patients had second follow-up visit (4 years after achieving SVR)
- Mean age 51.9 (range 27-77 years)
- Males 84.6%

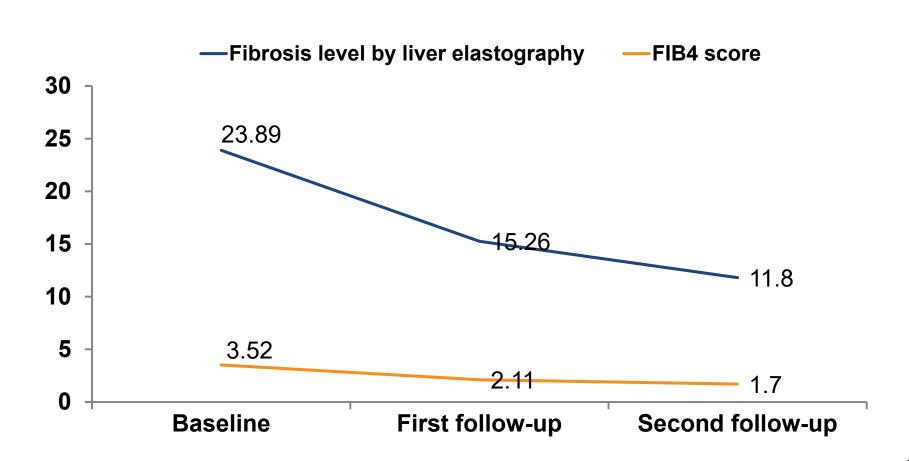
### Baseline clinical characteristics of the sample

Characteristic	N	%
Liver fibrosis		
F3	80	13.3
F4	450	75.0
Ascites		
Present	17	2.8
Not present	583	97.2

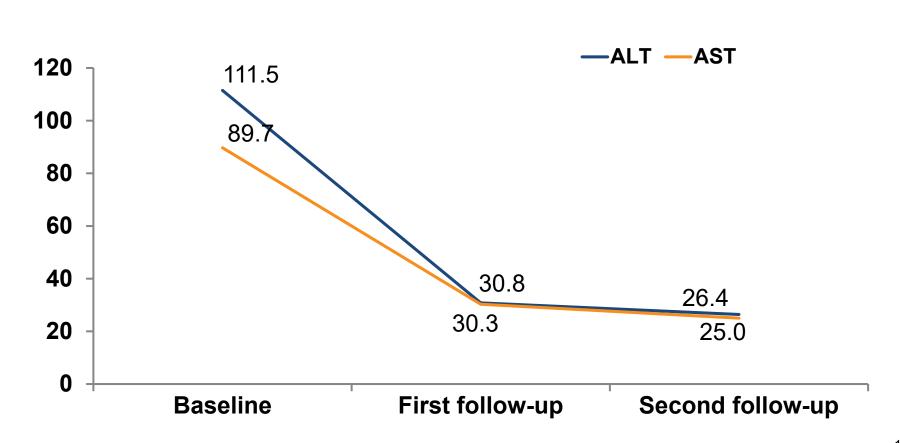
# Baseline clinical characteristics of the sample

Characteristic	Mean
FIB4 score	3.52
ALT	111.55 u/ml
AST	89.75 u/ml
НВ	14.79 g/dL
PLTs	159 10 <sup>9</sup> /L
Spleen size	136X56 mm

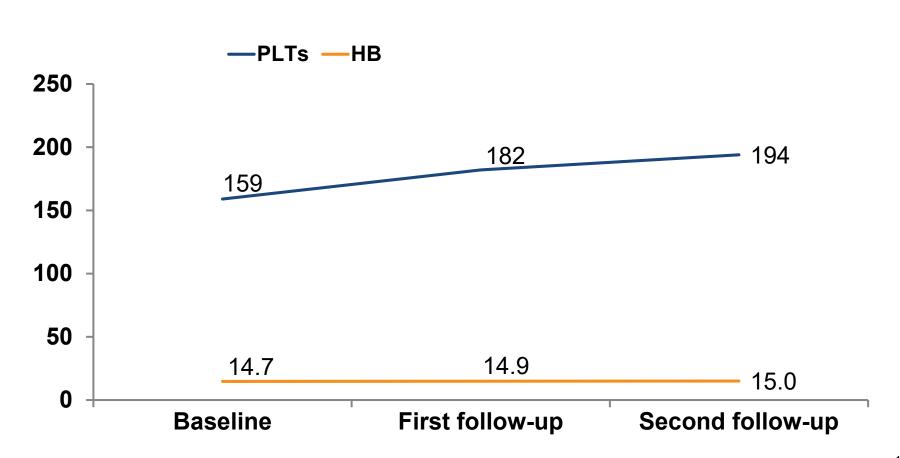
### Changes in mean liver fibrosis level



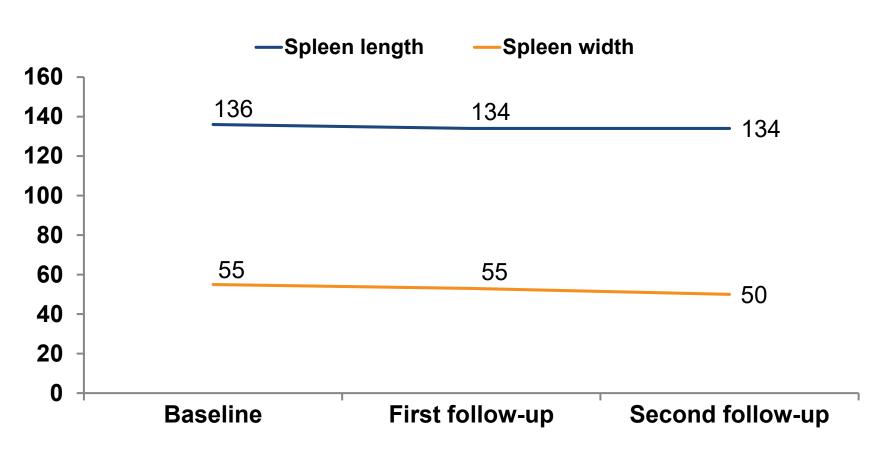
### Changes in mean serum ALT and AST levels



### Changes in mean PLT count and HB level



### Changes in mean spleen size



### First follow-up

(out of 600 patients)

Patients with ascites N=17

10 (58.8%) resolved

Patients
without
ascites N=583

9 (1.5%) developed ascites

### Second follow-up

(out of 227 patients)

Patients with ascites N=5

3 (60%) resolved

Patients without ascites N=222

2 (0.9%) developed ascites

 Out of 588 patients without focal liver lesions (FLL) at baseline 15 individuals (2.5%) developed unspecified FLLs suspected for HCC at first follow-up visit

 6 (0.9%) deaths were reported at first follow-up visit by patients' families (not validated from death registry)

### Conclusion

 Significant improvement in liver fibrosis level and different clinical and laboratory measures was observed 4 years after achieving SVR among patients with advanced liver fibrosis treated with DAAs through HCV elimination program. 5<sup>th</sup> HEPATITIS C
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# **THANK YOU!!!!**