

Background

- Hepatitis C virus (HCV) infection prevalence in the Netherlands is estimated at 0.16% (~23.000 ever infected individuals).¹
- Unfortunately, up to 30% of the diagnosed population has been lost to follow-up (LTFU).
- Retrieval of these patients is beneficial and was shown to be feasible in a pilot project.²

Aims

- Retrieve and re-evaluate LTFU chronic HCV patients.
- Contribute to HCV elimination in the Netherlands.

Methods

- CELINE is a nationwide retrieval project that aims to include all 47 Dutch hepatitis treatment centres.
- LTFU HCV patients are identified based on laboratory records and patient files.
- The Municipal Personal Records Database is consulted to obtain current addresses.
- Subsequently, patients eligible for retrieval are invited for a screening visit at their local hospital.

Primary endpoint

 Number of LTFU patients who have been successfully linked to care.

Secondary endpoints

- Number of patients already cured.
- Total number of LTFU patients.
- Reasons for being LTFU.
- HCV transmission route.
- Degree of liver fibrosis of the LTFU population, assessed with Fibroscan®.

Hepatitis C Elimination in the Netherlands (CELINE): a nationwide study retrieving lost to follow-up chronic hepatitis C patients



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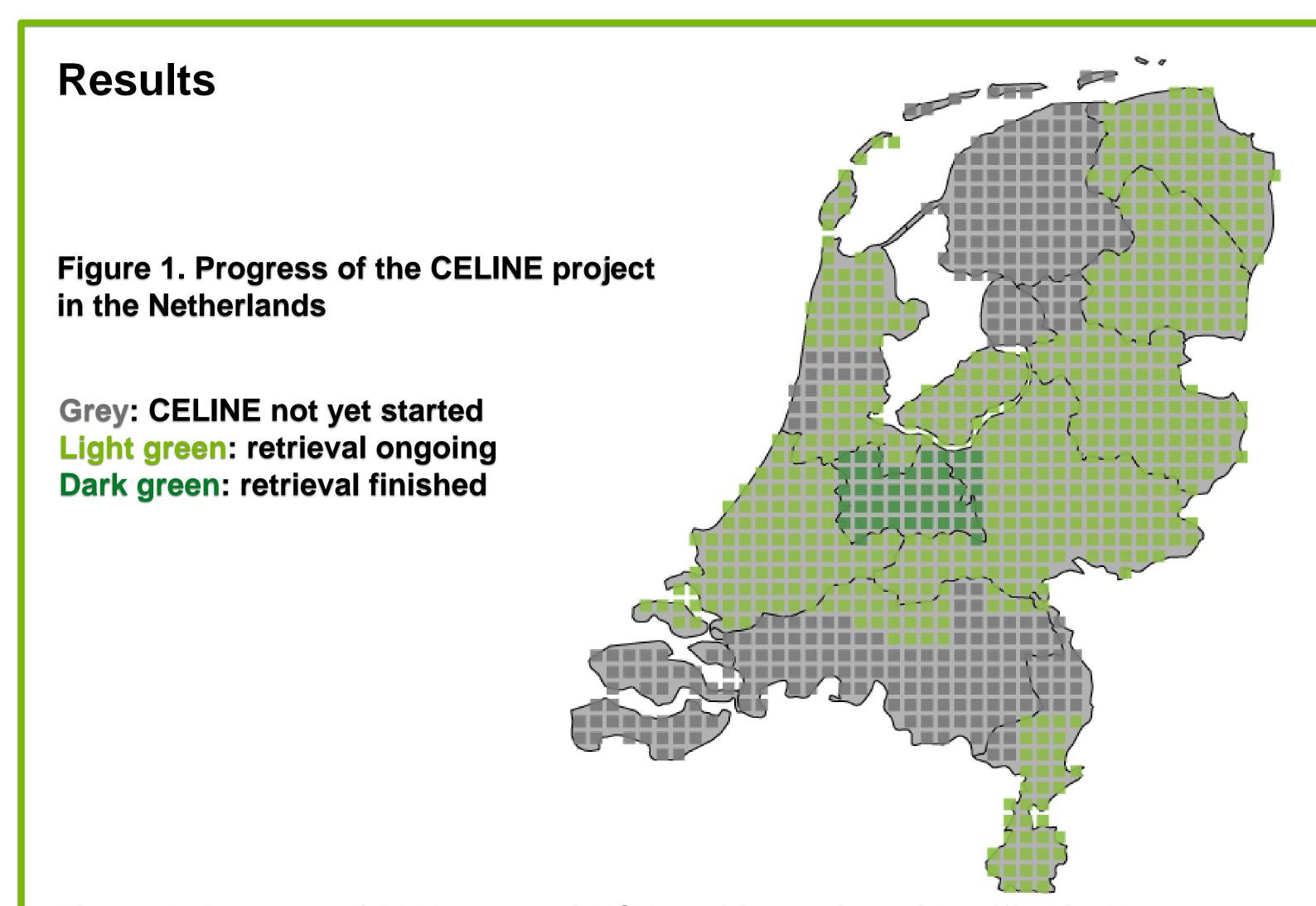
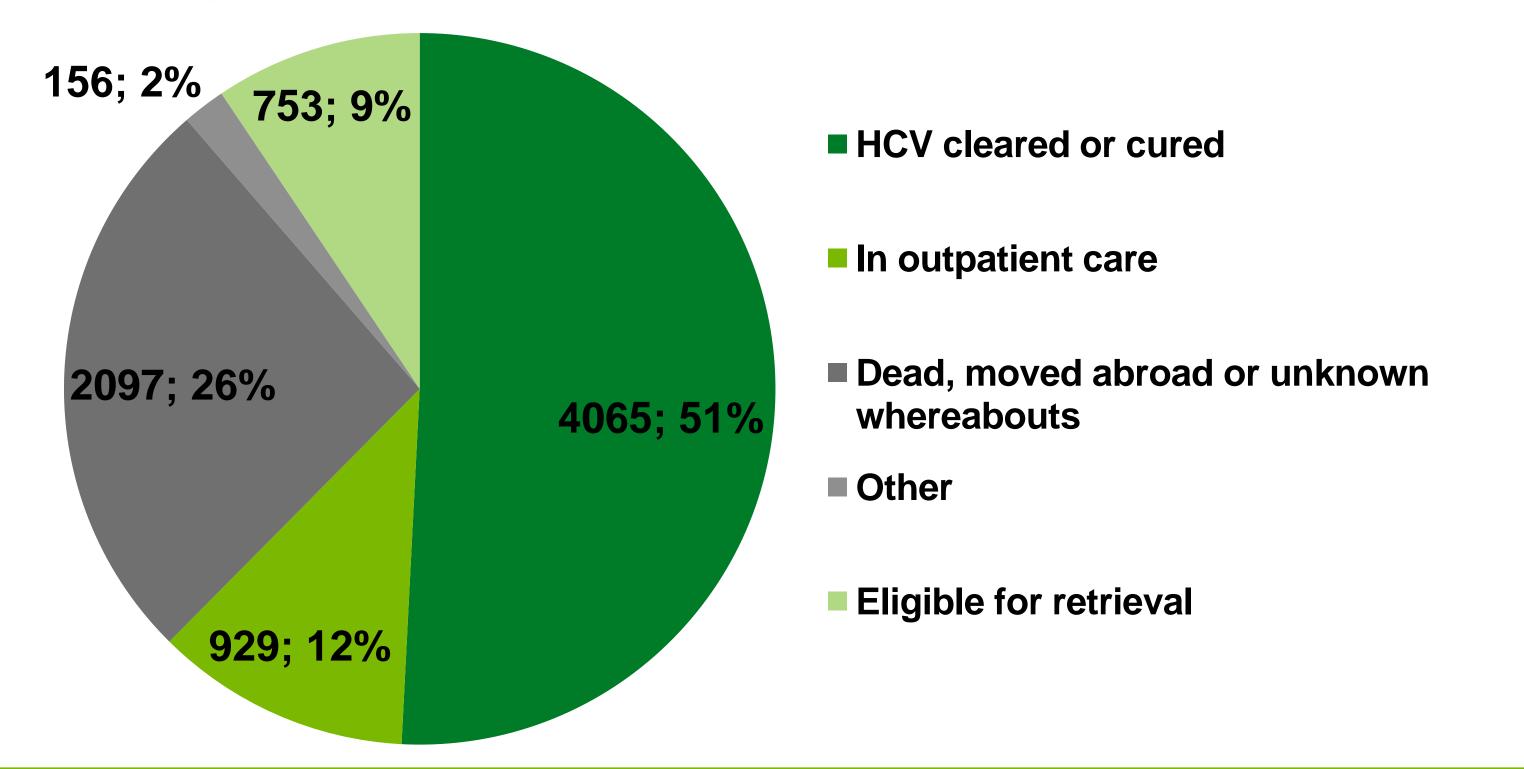


Figure 2. Outcome of 8000 ever anti-HCV positive patients identified in 13 treatment centres as of 08/10/2019



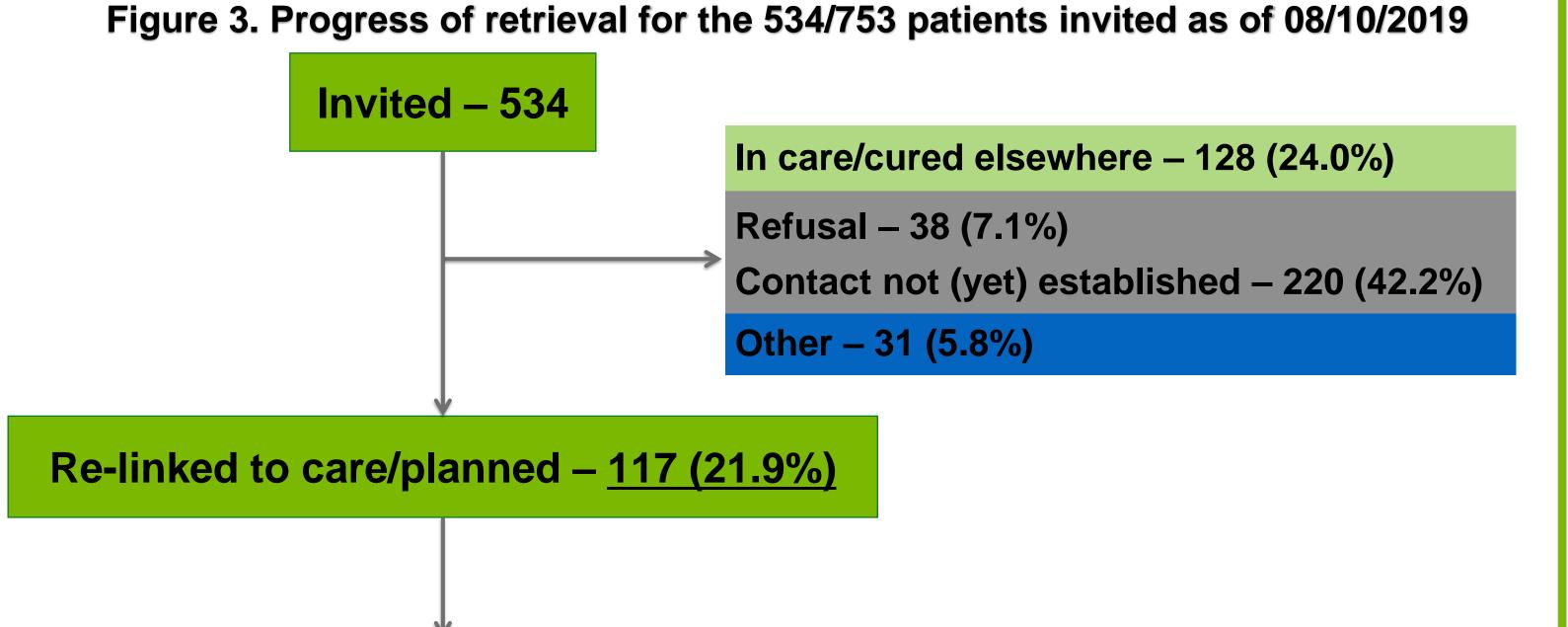


Table 1. Characteristics of 84/117 patients re-linked to care as of 08/10/2019

Patient characteristics (n=82*)	
Age at time of re-linkage to care (median, IQR)	60 (54–64)
Gender (male)	55 (67)
 Probable mode of transmission Intravenous drug use Blood transfusion Other Unknown 	53 (64) 13 (16) 8 (10) 8 (10)
Years since last contact (median, range)	8 (1–20)
 Reasons for LTFU Patient-related (therapy refusal, contra-indication or no show) Therapy-related (no indication or options for therapy) Care-related (no adequate follow-up) Other/unknown 	28 (34) 28 (34) 17 (21) 9 (11)
Treatment experienced	26 (32)
RNA-positive at re-evaluation	64 (81)
RNA-positive patients with LSM ≥9.5 kPa	20 (31)
DAA treatment initiated	44 (69)
Data are presented as number (percentage), unless otherwise noted. IQR: interquartile range, LTFU: lost to follow-up, DAA: direct-acting antiviral, LSM: liver stiffness measurement. * Two patients did not sign informed consent for data collection.	

Conclusion

- These interim results show the first step in reaching HCV elimination in the Netherlands.
- Many LTFU patients are either already cured (51%) or linked to care (12%). Only 9% is eligible for retrieval.
- Of 534 invited LTFU patients, 24% is already cured/in care elsewhere and 22% is successfully linked to care again.
- Of 82 patients re-linked to care, 81% was RNA-positive, of whom 31% had evidence of advanced fibrosis/cirrhosis.

CELINE can serve as a blueprint for retrieval projects in other countries.