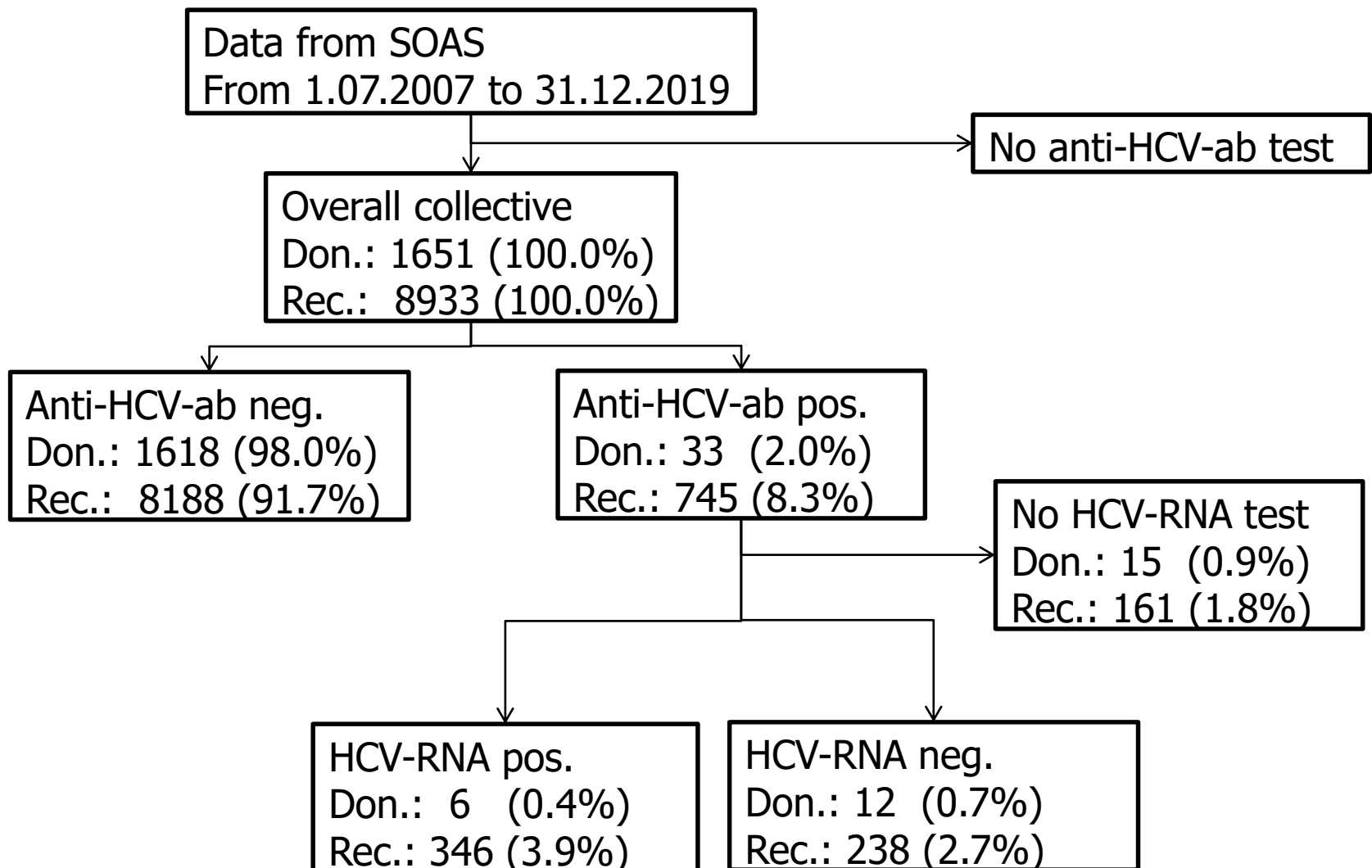


# Hepatitis C in Organ Donation and Transplantation: Data Analysis of the Swiss Organ Allocation System (SOAS) 2007-2019

Simone Temperli	Medical Thesis
Philip Bruggmann	Hepatitis Schweiz
Franz Immer	Swisstransplant

# Introduction

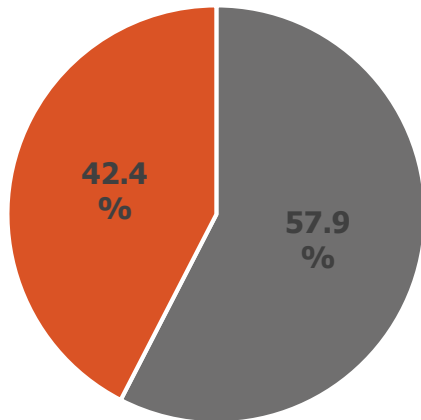
- Hepatitis C is one of the most common reasons for a liver transplantation, as well as a limitation to organ donation
- All potential organ donors are tested for anti-HCV-antibodies and HCV-RNA:
  - If anti-HCV-antibodies are positive, HCV-RNA is analysed:
    - If HCV-RNA is negative, organs can be allocated to all recipients on the waiting list (consent of the recipient required)
    - If HCV-RNA is positive, organs can be allocated to recipients of vital organs (liver, heart and lungs) and to HCV-RNA positive recipients (consent of the recipient required)
  - The modalities are described in the by-laws of the transplantation law
- New medications allow a well-tolerated and efficient therapy



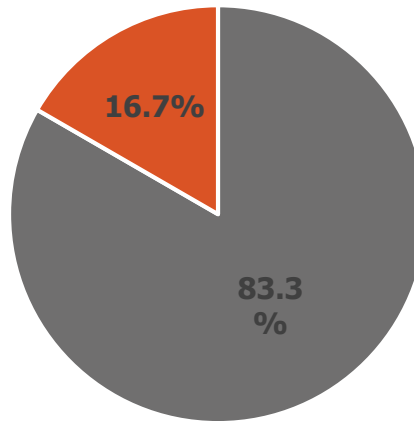
SOAS: Swiss Organ Allocation System, Don.: Donors, Rec.: Recipient

# Donors: Known vs. Unknown HCV Infection

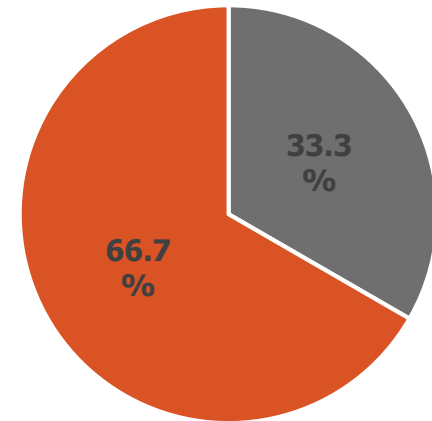
Anti-HCV-ab positive  
(n=33; 0.2%)



HCV-RNA negative  
(n=12; 0.7%)



HCV-RNA positive  
(n=6; 0.4%)



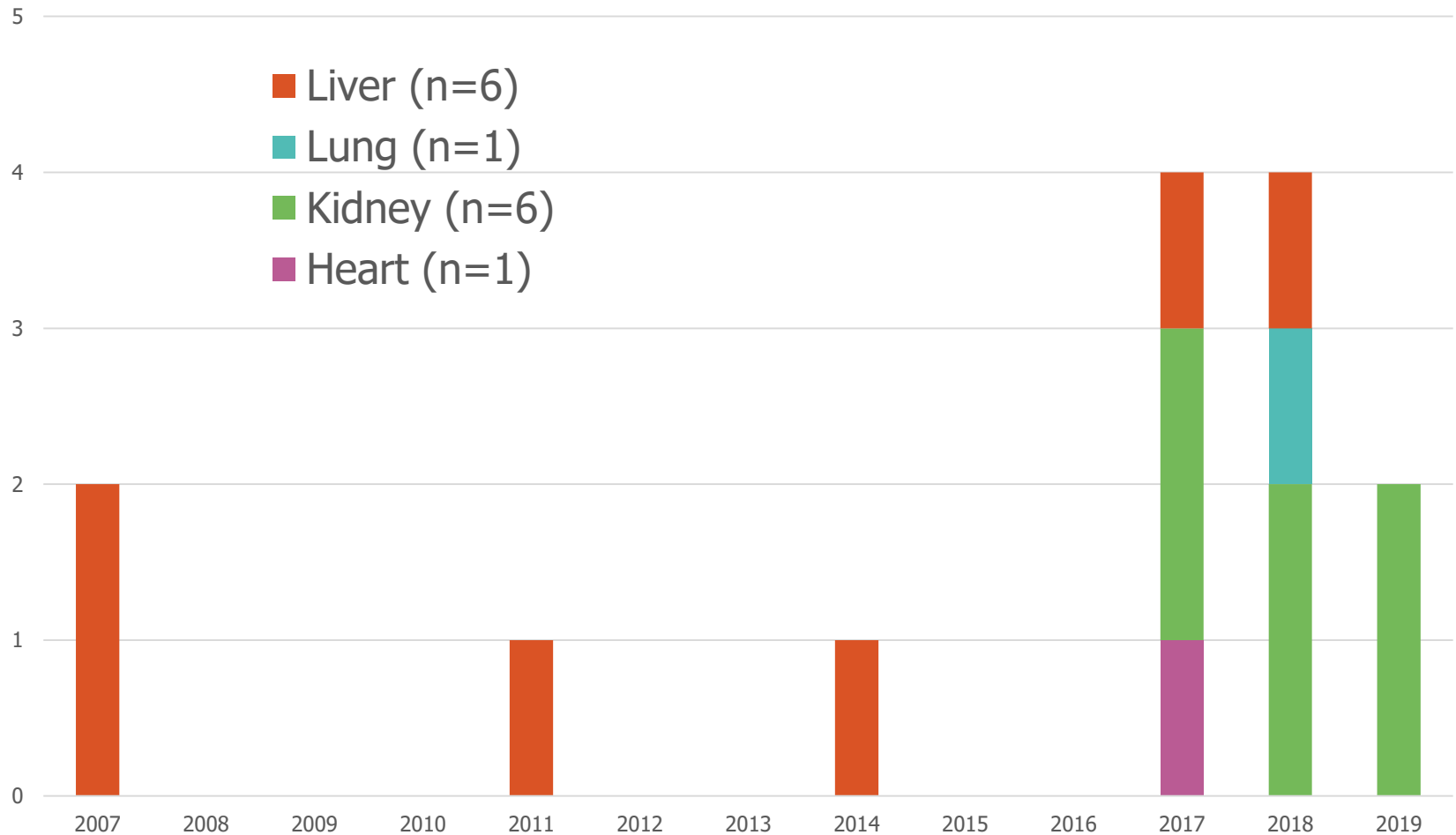
Known infections

Unknown infections

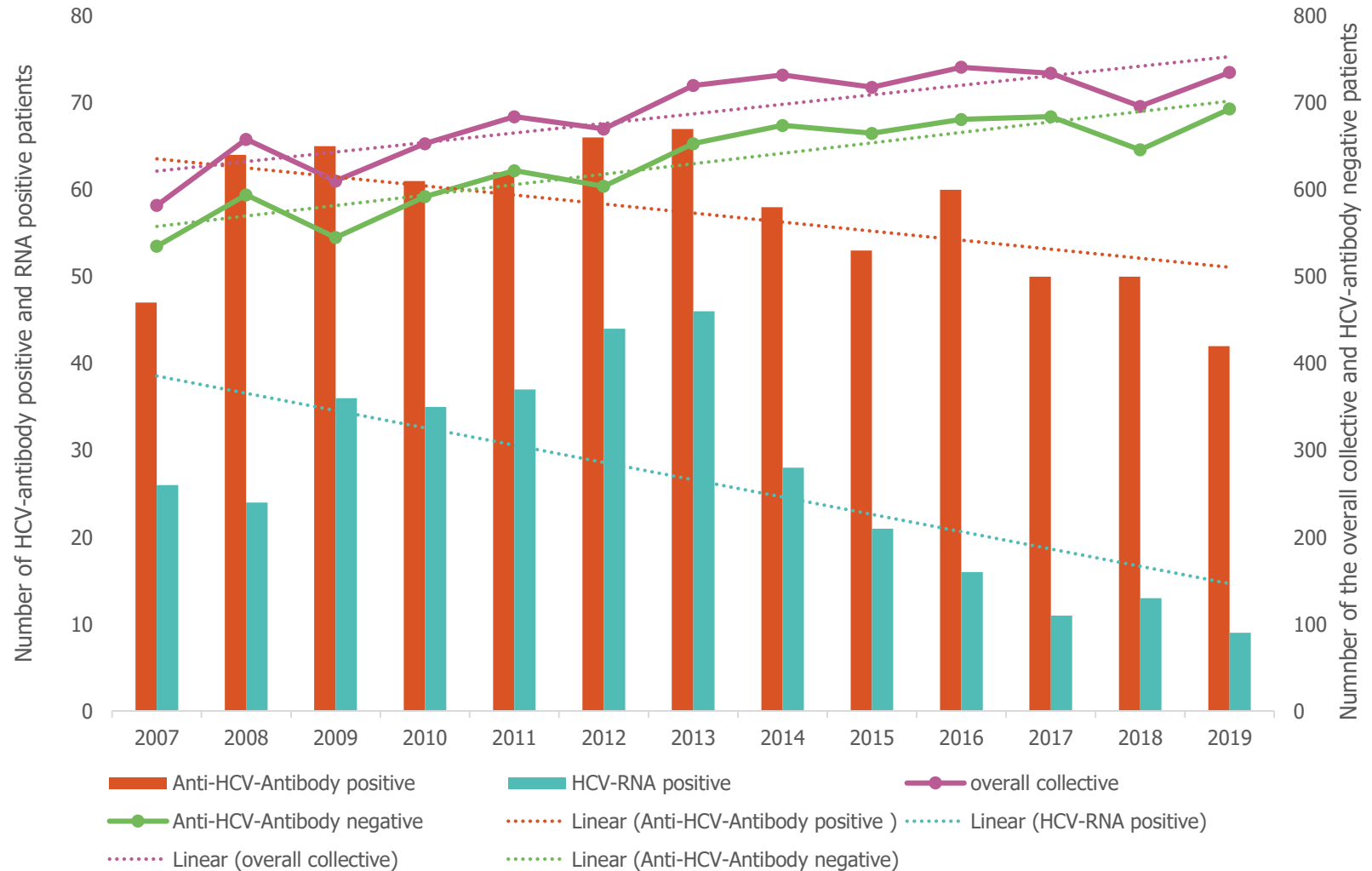
# Donors: Trend from 2007 to 2019



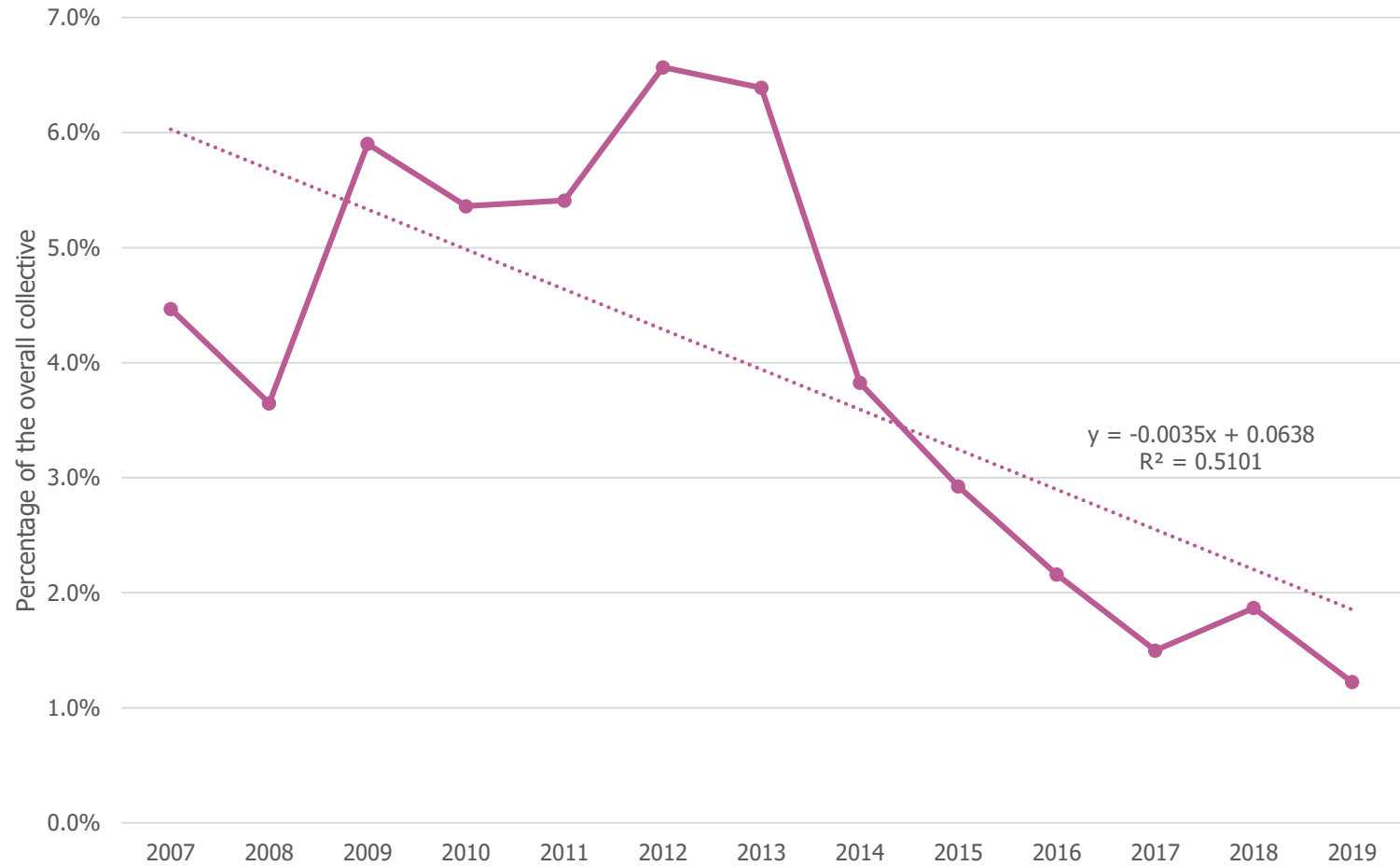
# Donors: Organs donated by anti-HCV-ab positive donors



# Recipients: Trend from 2007 to 2019

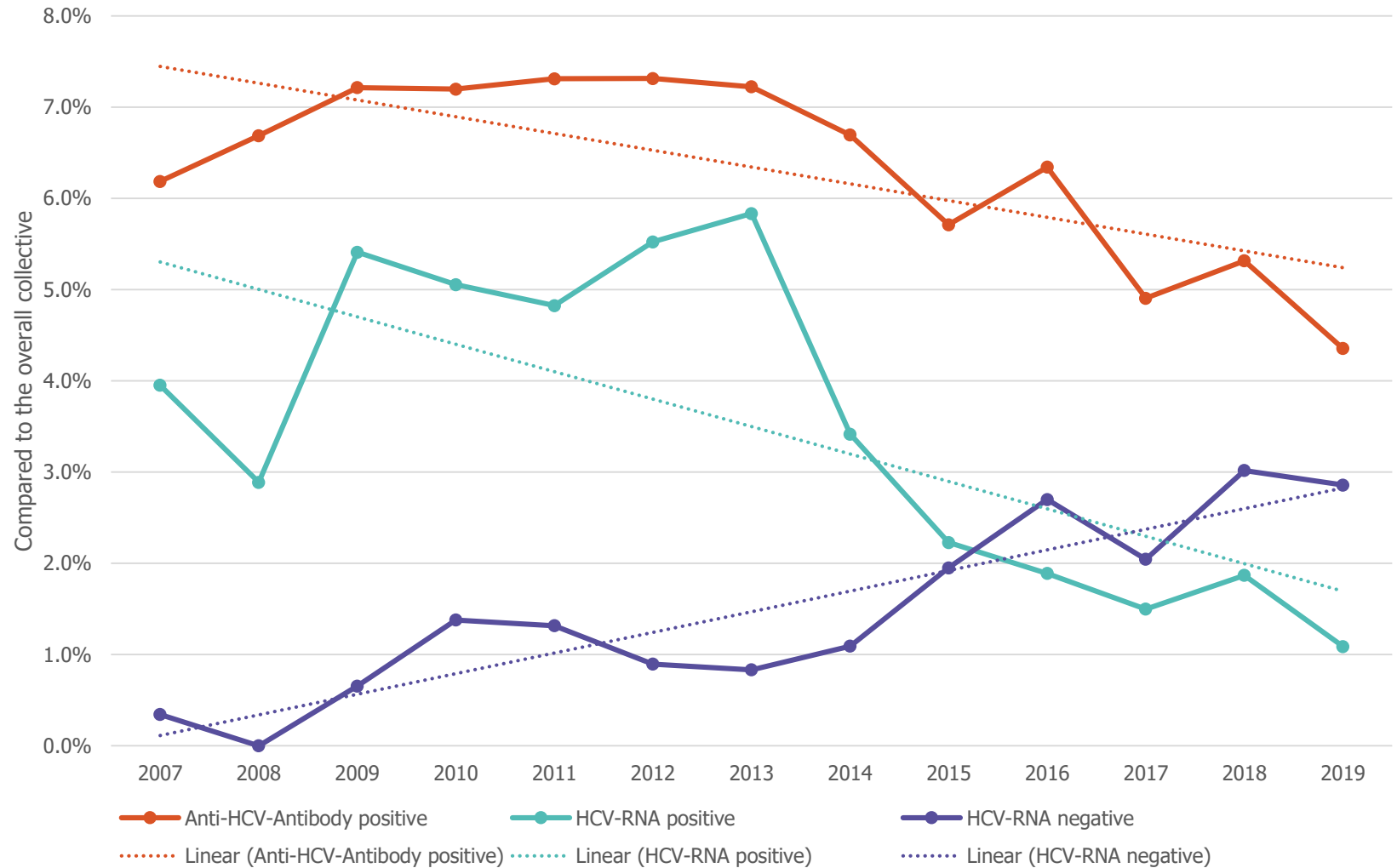


# Recipients: HCV-RNA positive 2007 to 2019





# Recipients: HCV Liver waiting list 2007 to 2019



# Conclusions: Donors

## Donors:

- Over a third of the anti-HCV-antibody positive people and two third of the HCV-RNA positive people were unaware of their infection (very low numbers)
- Since the change of the law, the organ donations of anti-HCV-antibody positive donors doubled (very low numbers)
- No confirmed HCV-RNA positive organ was transplanted in the observed time period

# Conclusions: Recipients

## Recipients

- The number of anti-HCV-antibody and HCV-RNA positive recipients is decreasing
- Since the introduction of medical therapy, HCV-RNA positive recipients show a marked decrease
- HCV-RNA positive recipients can still be found in the actual waiting list (no medical treatment/therapy failure)

Thank you for your  
attention!