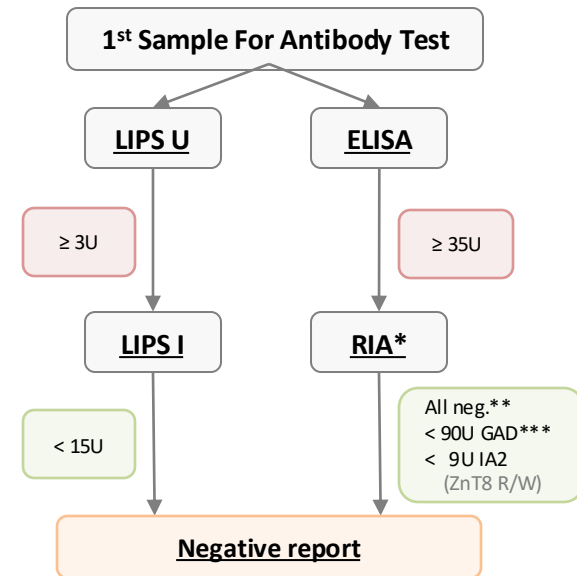
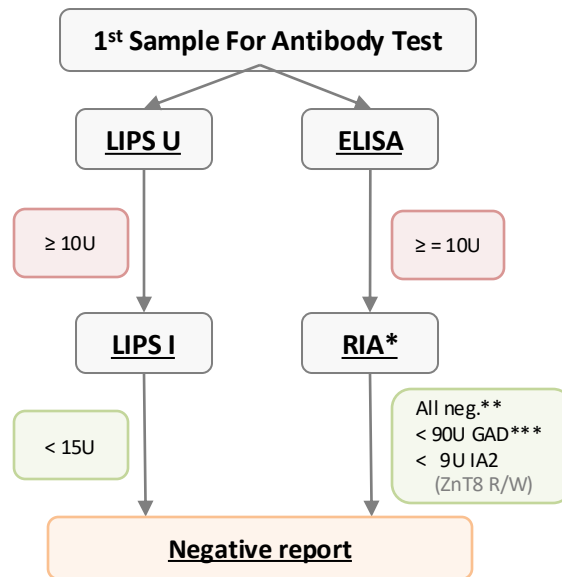
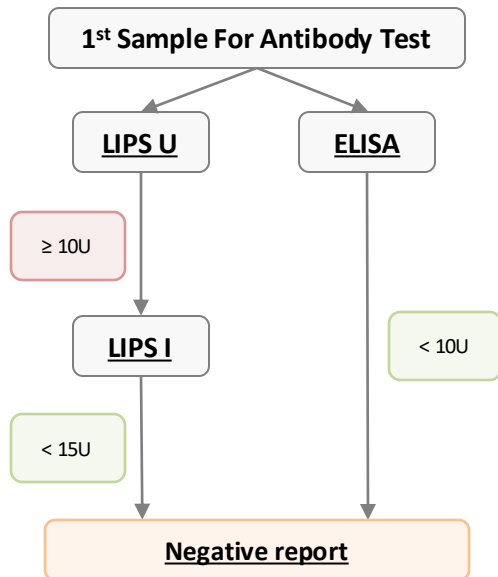
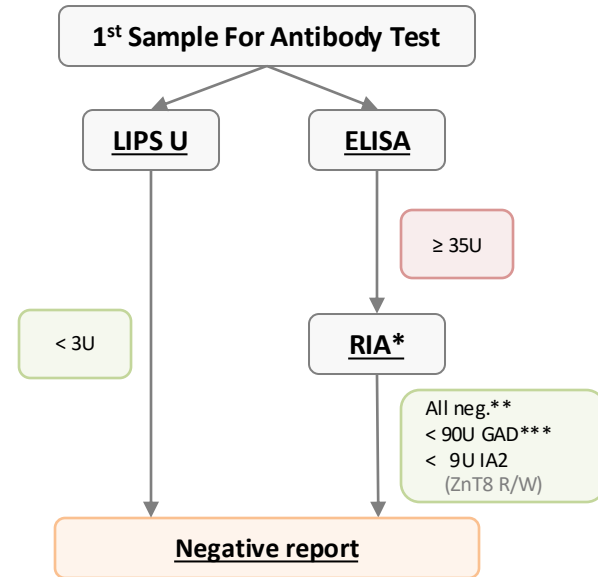
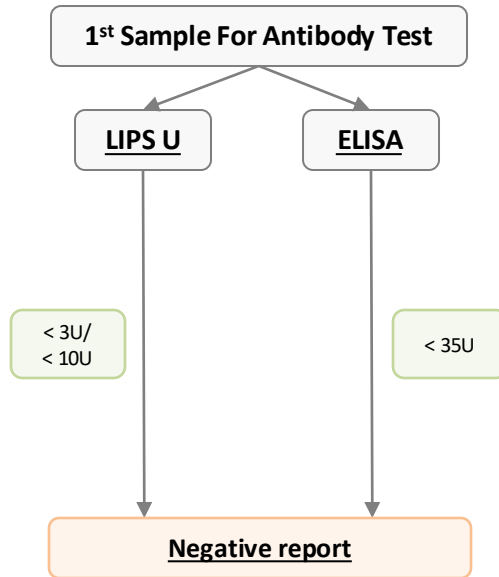


# Negative



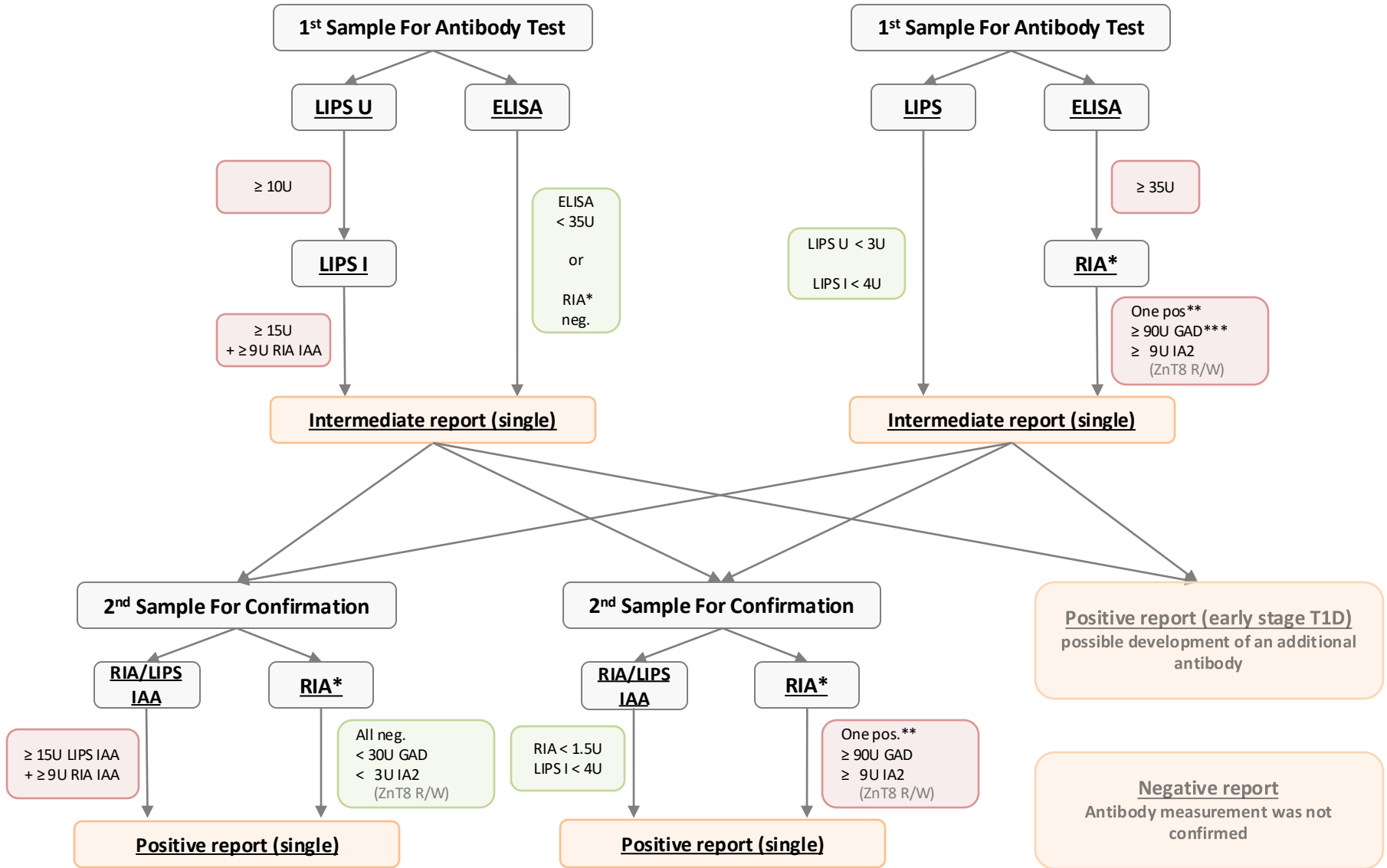
LIPS U = IAA LIPS non-inhibited  
 LIPS I = IAA LIPS inhibited  
 ELISA = 3 - Screen ELISA  
 (GAD, IA2, ZnT8)  
 RIA\* = GAD, IA2, ZnT8 R, ZnT8 W

1st sample is a capillary sample

\*\* only for Single positive status : at least 3 times higher than regular cut off; ZnT8 AB are not found to be single positive

\*\*\* GAD (highest priority); For negative report: Results from IA2 and ZnT8 not necessary if GAD was tested

# Single positive



1st sample is a capillary sample, 2nd Sample for confirmation is a venous sample (comment in FrontEnd)

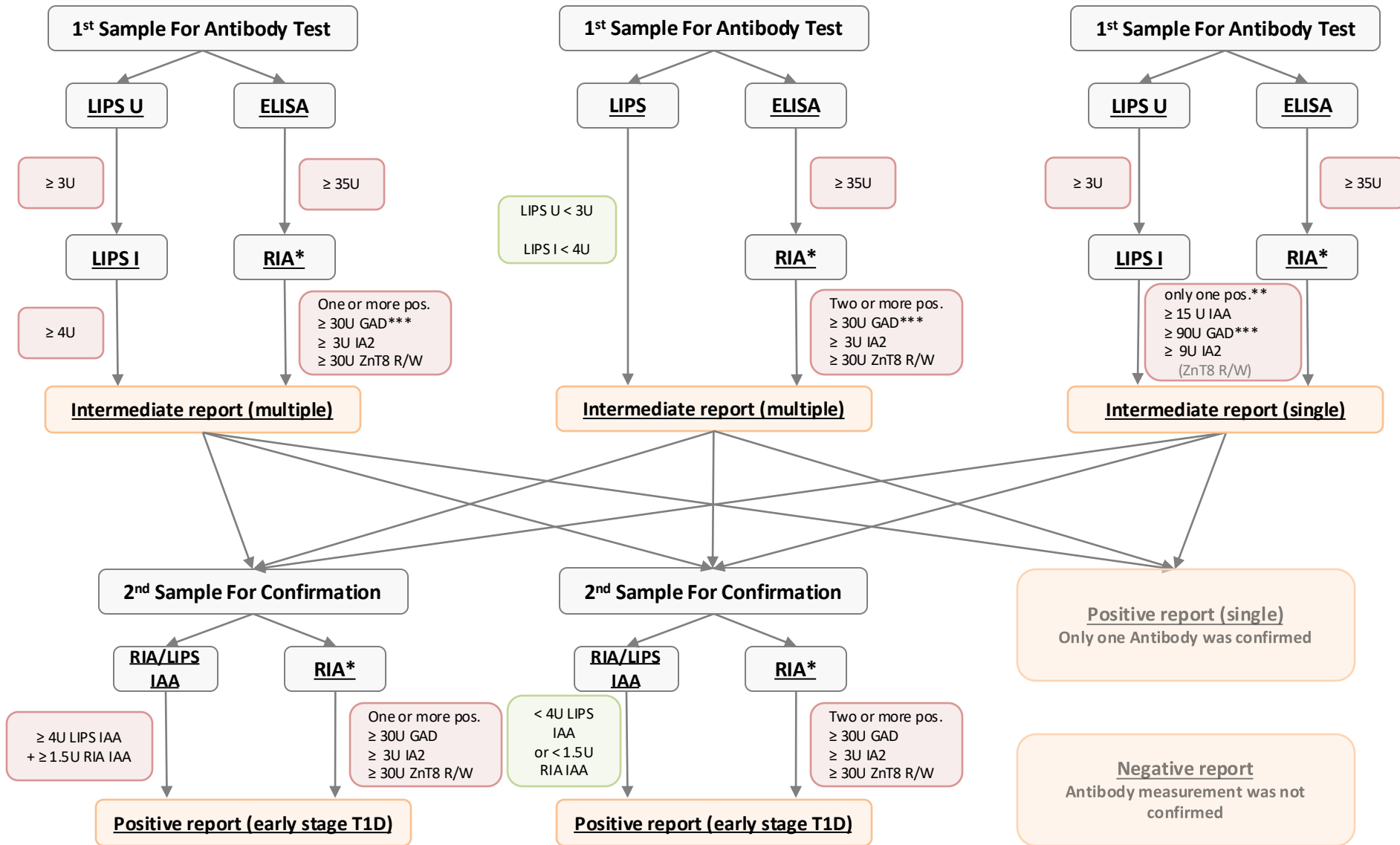
LIPS U = IAA LIPS non-inhibited  
LIPS I = IAA LIPS inhibited  
ELISA = 3 - Screen ELISA (GAD, IA2, ZnT8)  
RIA\* = GAD, IA2, ZnT8 R, ZnT8 W

\*\* only for Single positive status : at least 3 times higher (GAD,IA2) and 6 times higher (RIA IAA) than regular cut off; ZnT8 AB are not found to be single positive

\*\*\* GAD (highest priority); For negative / single report: Results from IA2 and ZnT8 not necessary if GAD was tested

The final diagnosis will be decided individually in a findings meeting depending on the case

# Early stage T1D



1st sample is a capillary sample, 2nd Sample for confirmation is a venous sample (comment in FrontEnd)

LIPS U = IAA LIPS non-inhibited  
LIPS I = IAA LIPS inhibited  
ELISA = 3 - Screen ELISA  
(GAD, IA2, ZnT8)  
RIA\* = GAD, IA2, ZnT8 R, ZnT8 W

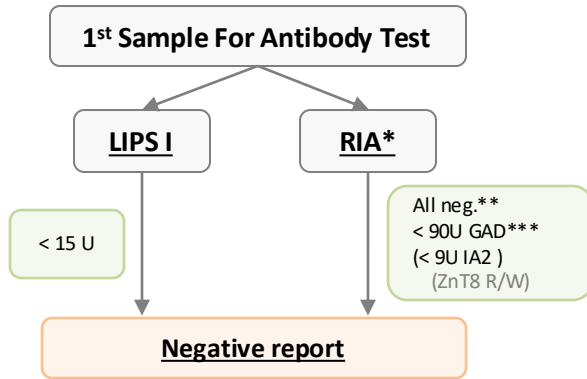
\*\* only for Single positive status : at least 3 times higher (GAD,IA2) and 6 times higher (RIA IAA) than regular cut off; ZnT8 AB are not found to be single positive

\*\*\* GAD (highest priority); For negative / single report: Results from IA2 and ZnT8 not necessary if GAD was tested

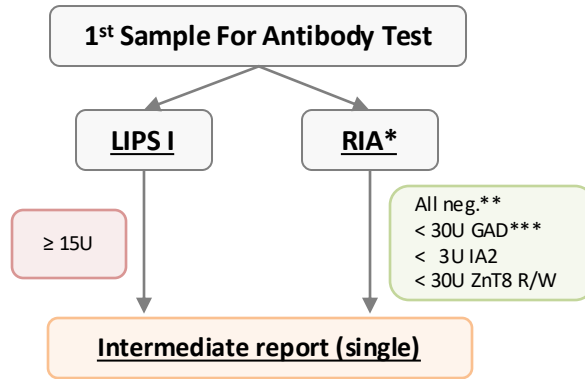
The final diagnosis will be decided individually in a findings meeting depending on the case

# Special cases (not all in use anymore)

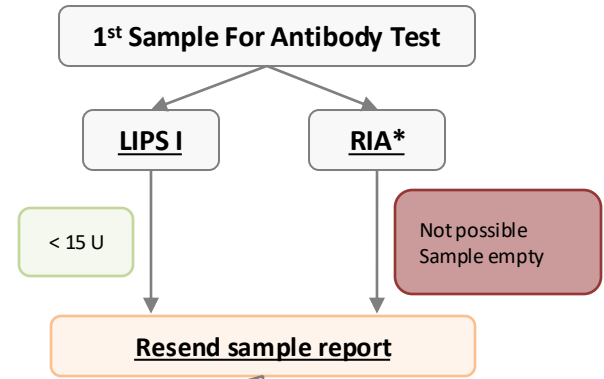
Low volume



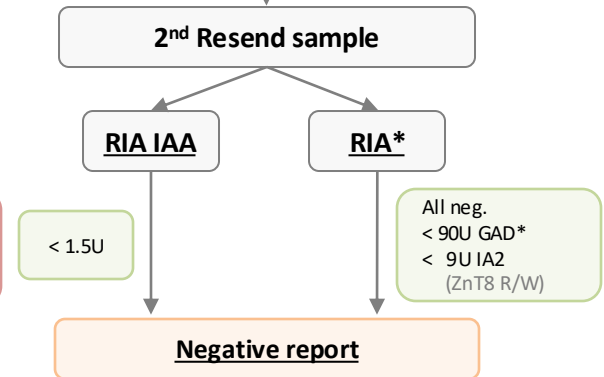
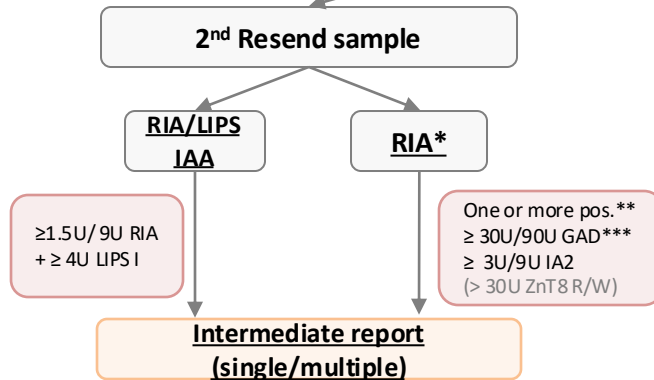
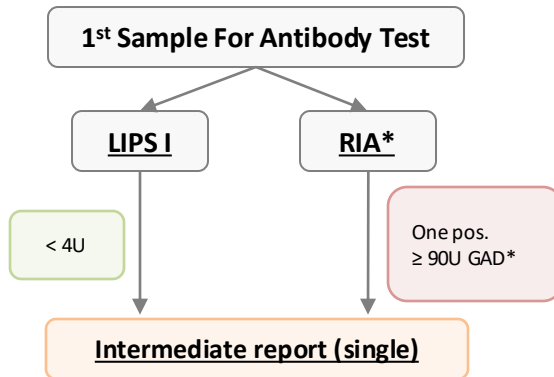
Low volume



Low volume



Low volume



1st sample is a capillary sample, 2nd Sample for confirmation is a venous sample (comment in FrontEnd)

LIPS U = IAA LIPS non-inhibited  
LIPS I = IAA LIPS inhibited  
ELISA = 3 - Screen ELISA  
(GAD, IA2, ZnT8)  
RIA\* = GAD, IA2, ZnT8 R, ZnT8 W

\*\* only for Single positive status : at least 3 times higher (GAD,IA2) and 6 times higher (RIA IAA) than regular cut off; ZnT8 AB are not found to be single positive

\*\*\* GAD (highest priority); For negative / single report: Results from IA2 and ZnT8 not necessary if GAD was tested

The final diagnosis will be decided individually in a findings meeting depending on the case

# Cutoffs

- Screening-Cutoffs (Screening and Confirmation samples)
  - **elisa**
    - sample\_date <= '2022-01-31' & elisa >= 25 → further testing
    - sample\_date > '2022-01-31' & sample\_date <= '2024-12-31' & elisa >= 40 → further testing
    - sample\_date > '2024-12-31' & elisa >= 35 → further testing
    - further testing: gada\_trunc, ia2, znt8\_c\_arg, znt8\_c\_tryp
  - **lips\_unin\_iaa (uninhibited)**
    - if elisa above cutoff and lips\_unin\_iaa >= 3 → further testing
    - if elisa below cutoff and lips\_unin\_iaa >= 10 → further testing
    - further testing: lips\_in\_iaa
  - **lips\_in\_iaa (inhibited)**
    - in screening sample only if lips\_in\_iaa >= 15 and other antibodies negative → further testing
    - in confirmation sample always tested; lips\_in\_iaa >= 4 & m\_iaa >= 1.5 → positive
    - further testing: m\_iaa
- Screening-Single-Testing- and Follow-Up-Cutoffs: **RIA**-Antibody-Measurements
  - **m\_iaa**
    - m\_iaa >= 1.5 → positive
  - **gada\_trunc**
    - sample\_date <= '2016-12-12' & gada\_trunc >= 22 → positive
    - sample\_date > '2016-12-12' & gada\_trunc >= 30 → positive
  - **ia2**
    - sample\_date <= '2016-12-12' & ia2 >= 5 → positive
    - sample\_date > '2016-12-12' & ia2 >= 3 → positive
  - **znt8(znt8\_c\_arg & znt8\_c\_tryp)**
    - sample\_date <= '2016-12-12' & znt8\_c\_arg >= 16 → positive
    - sample\_date > '2016-12-12' & znt8\_c\_arg >= 30 → positive
    - znt8\_c\_tryp >= 30 → positive
    - negative only if both znt8\_c\_arg and znt8\_c\_tryp are negative; positive if only one or both are positive