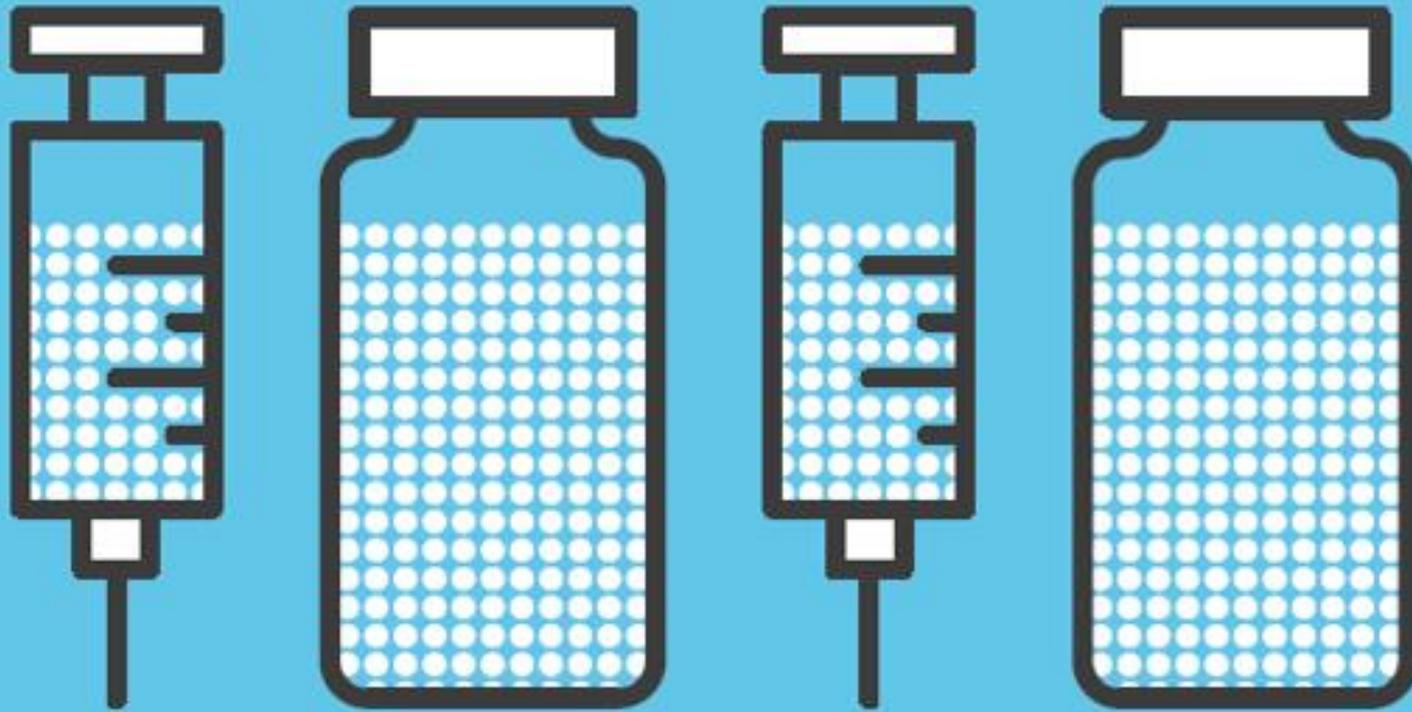


UK NEQAS

Blood Transfusion Laboratory Practice



Anti-D
EQA
samples
AGAIN?!

Katy Veale

What do?

- What do we send?
- Why all the anti-D?

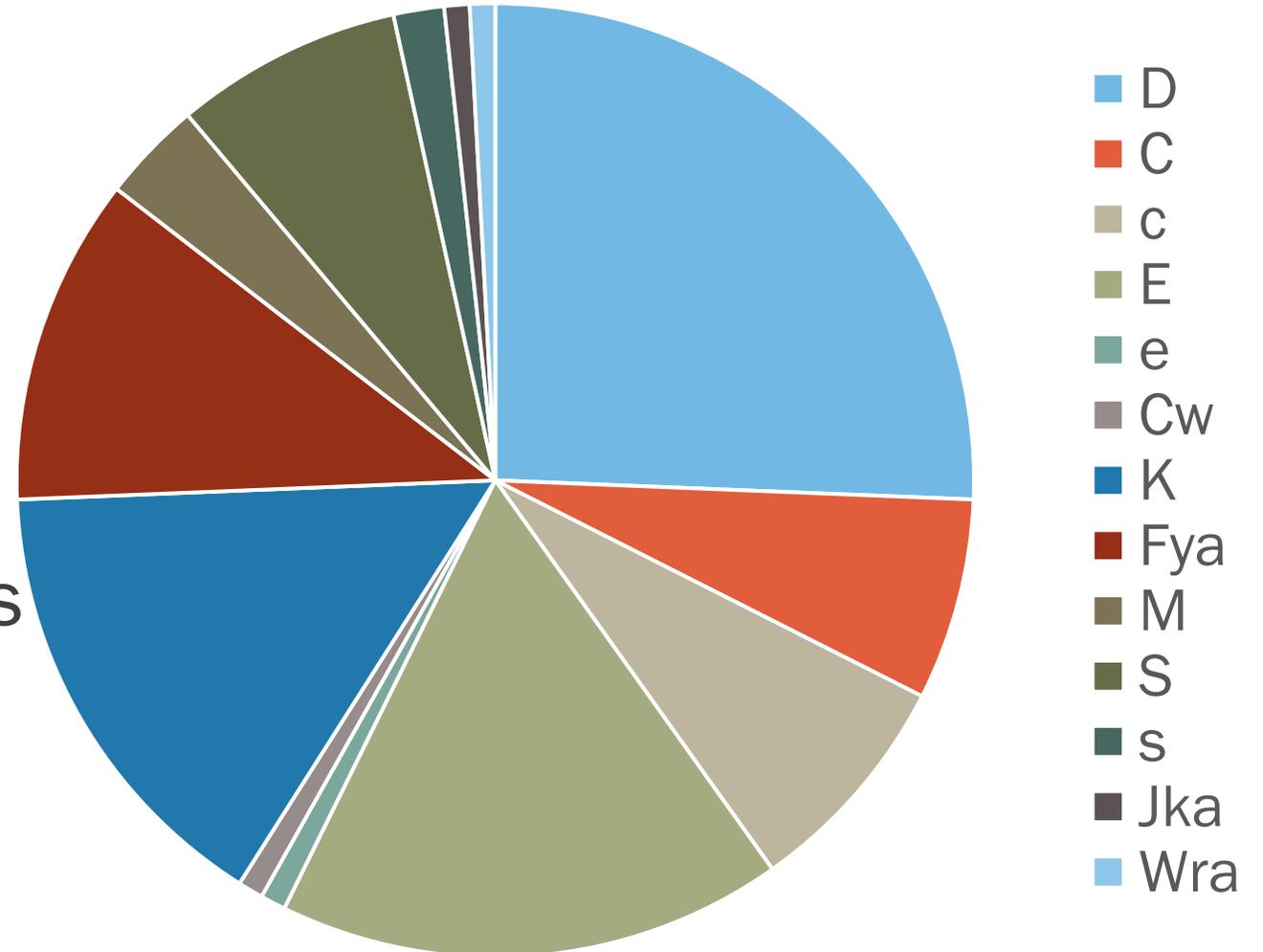
- Findings

Last 5 years

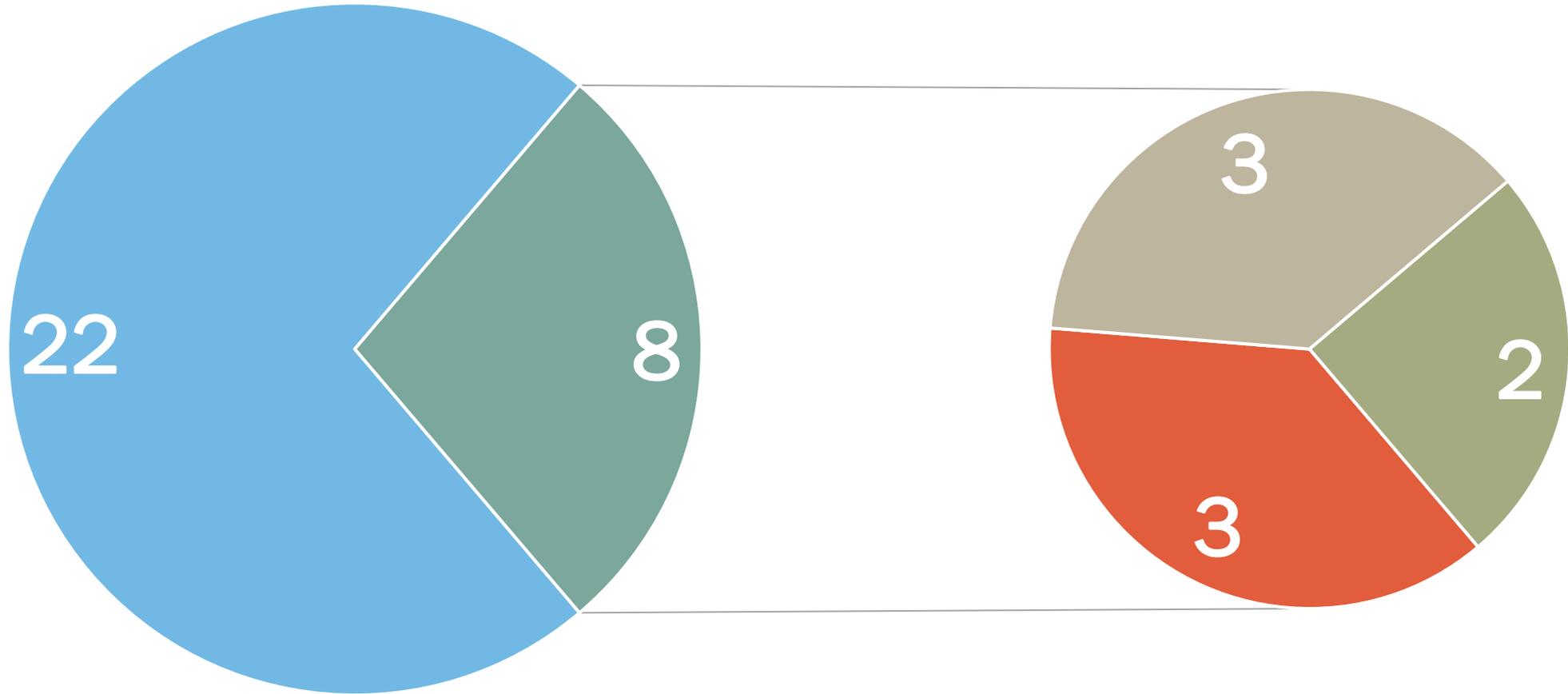
- 180 samples
 - 96 inert (53%)
 - 82 with antibodies
 - 33 with two antibodies
 - 117 antibodies

Last 5 years

- 180 samples
- 96 inert (53%)
- 82 with antibodies
 - 33 with two antibodies
 - 117 antibodies



Anti-D



■ D Boring ■ UK NEQAS anti-D "standard" ■ ? D Standard ■ D EQALM

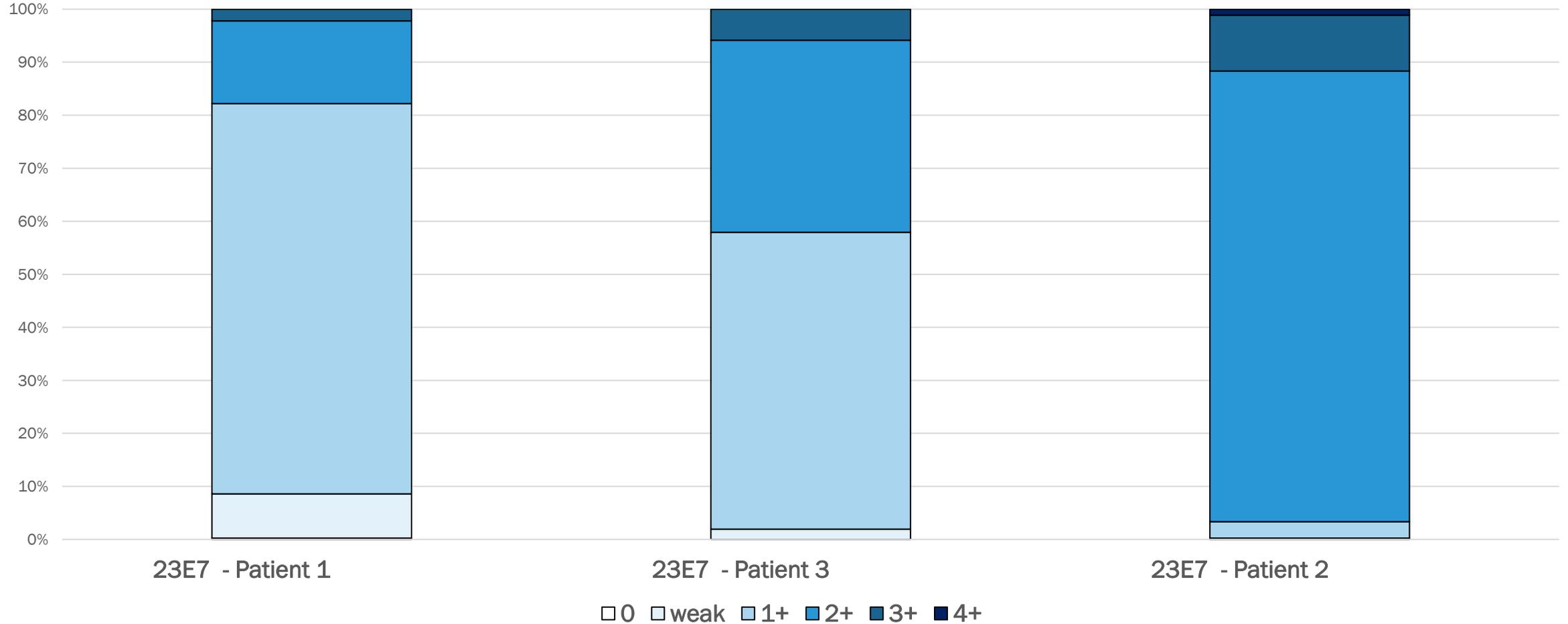
UK NEQAS anti-D “standard”

- Consistency of detection of a weakish anti-D
 - Since 2006
 - 2018 – reaction grades
 - 2023 – NEW!
- BSH Guideline 2012 – Compatibility testing
 - 5.4.3. A weak anti-D control (containing anti-D at a level of **less than 0.1 IU/mL**) should be used on a regular basis to assure the efficacy of the whole test procedure

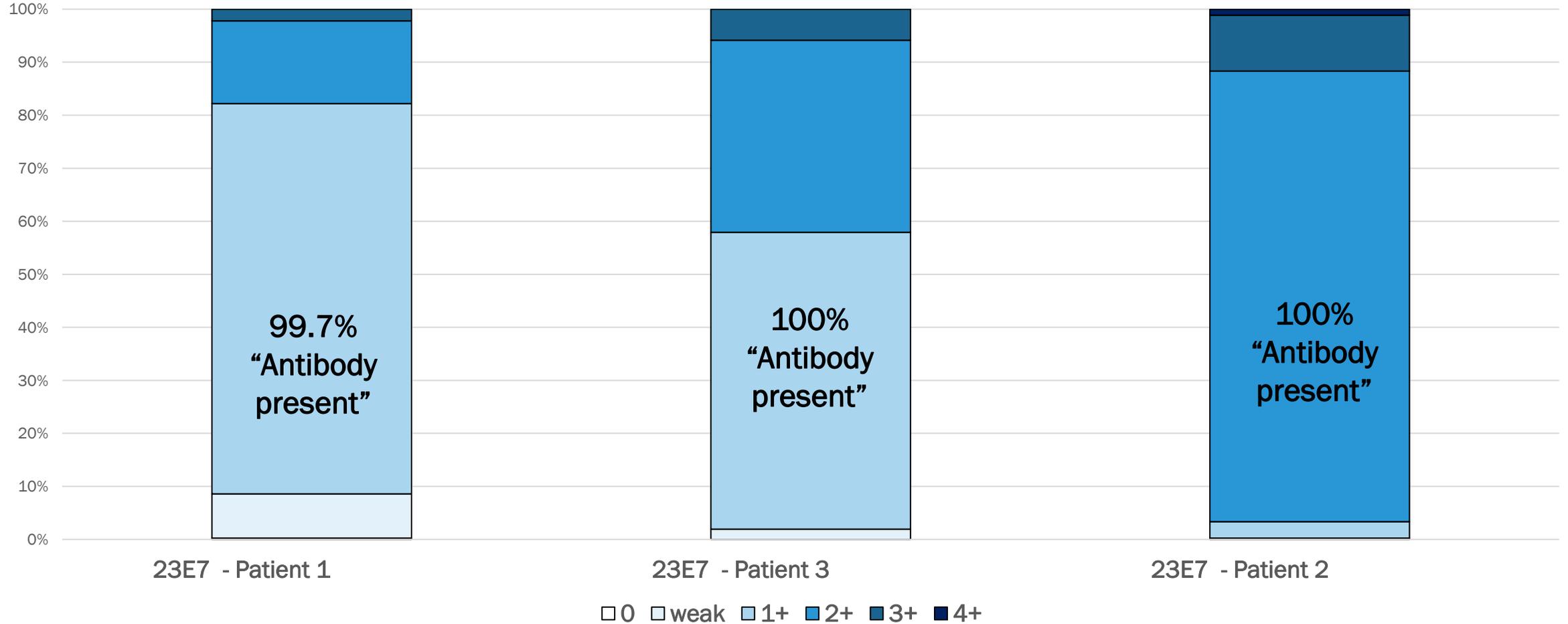
New UK NEQAS anti-D “standard”

- 23E7
 - Patient 1 = 1/66
 - Patient 3 = 1/44
 - Patient 2 = 1/22

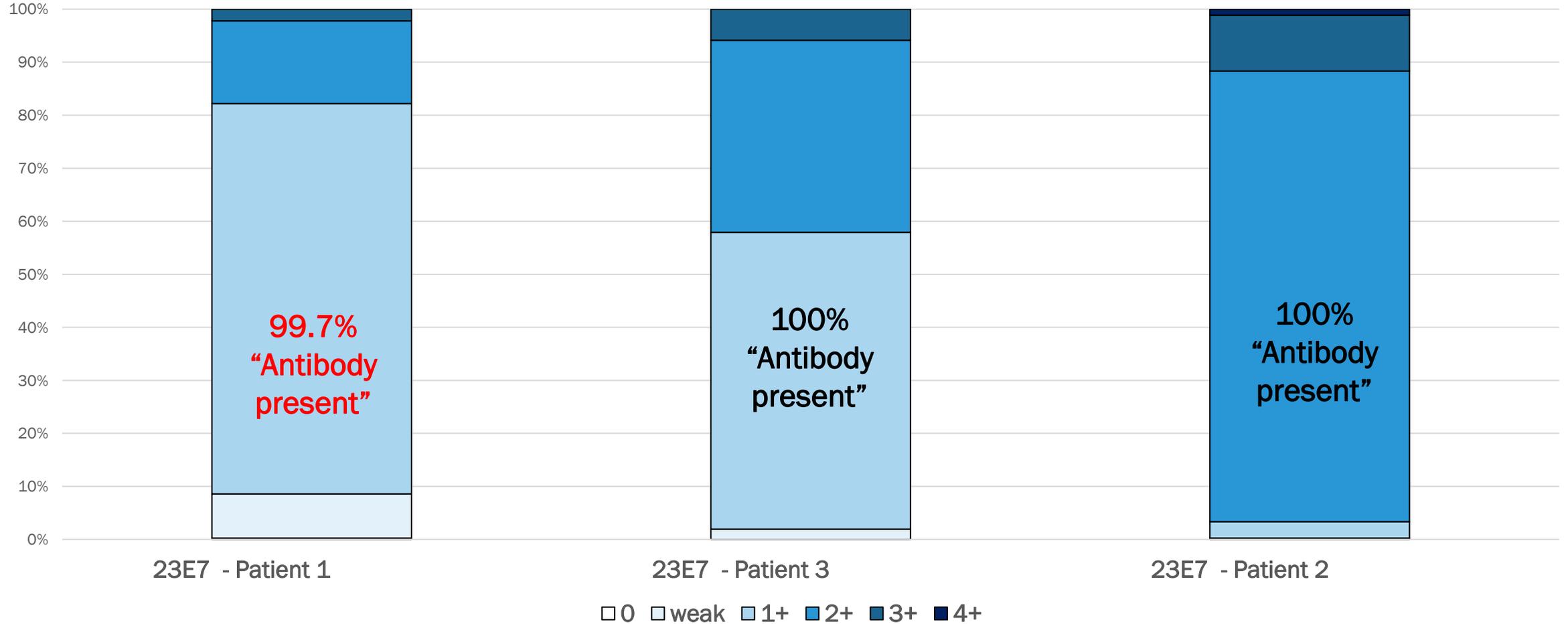
New UK NEQAS anti-D “standard”



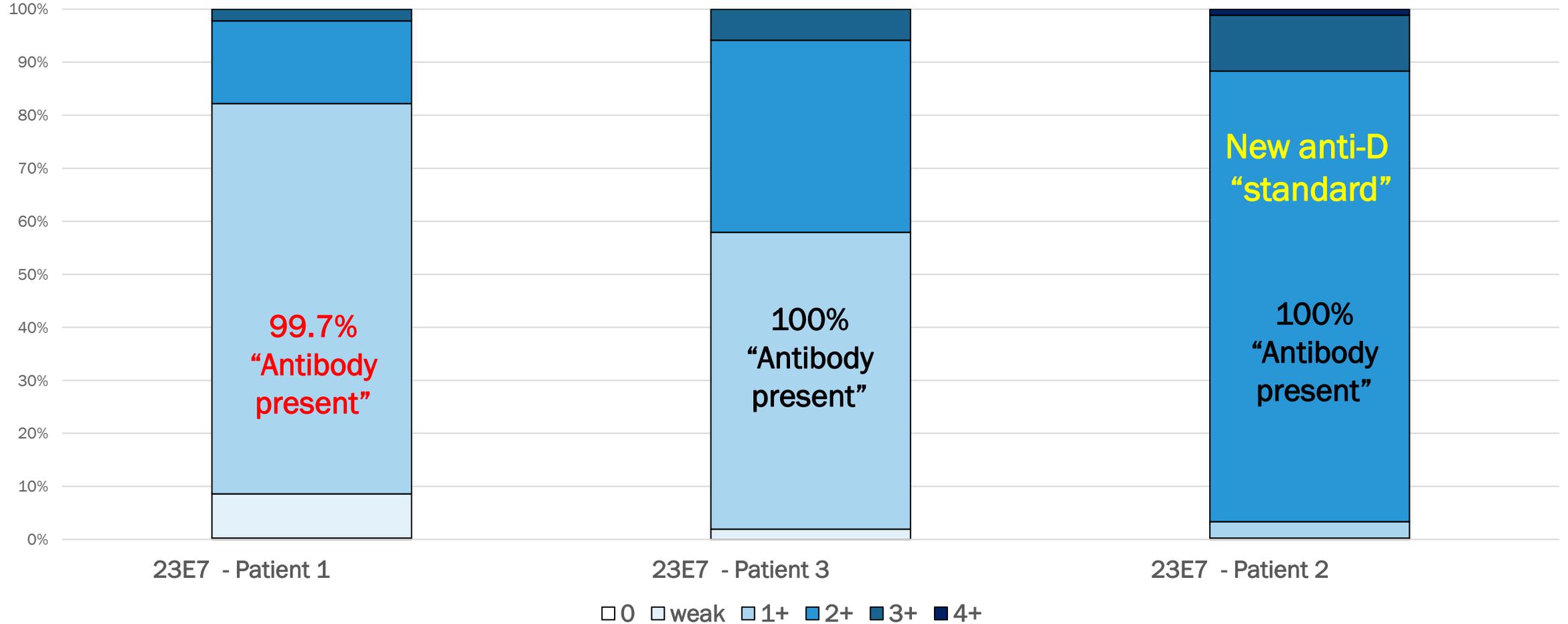
New UK NEQAS anti-D “standard”



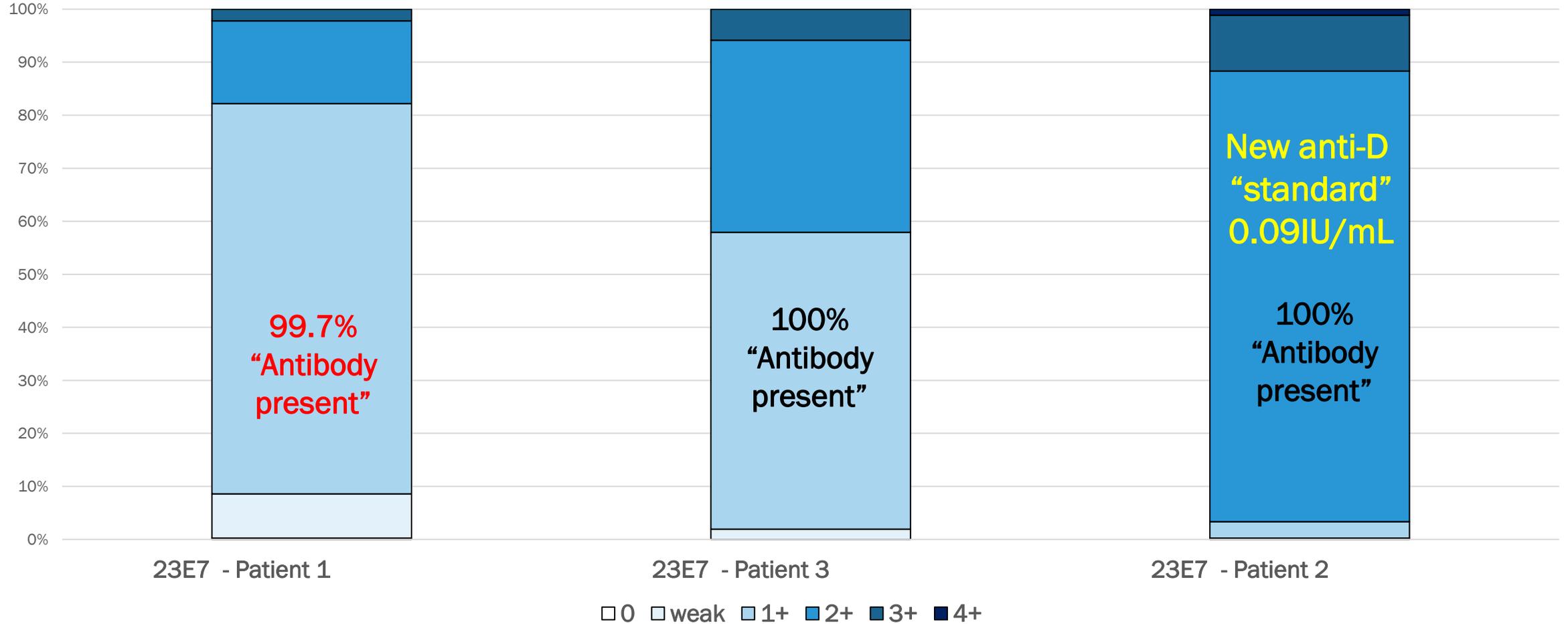
New UK NEQAS anti-D “standard”



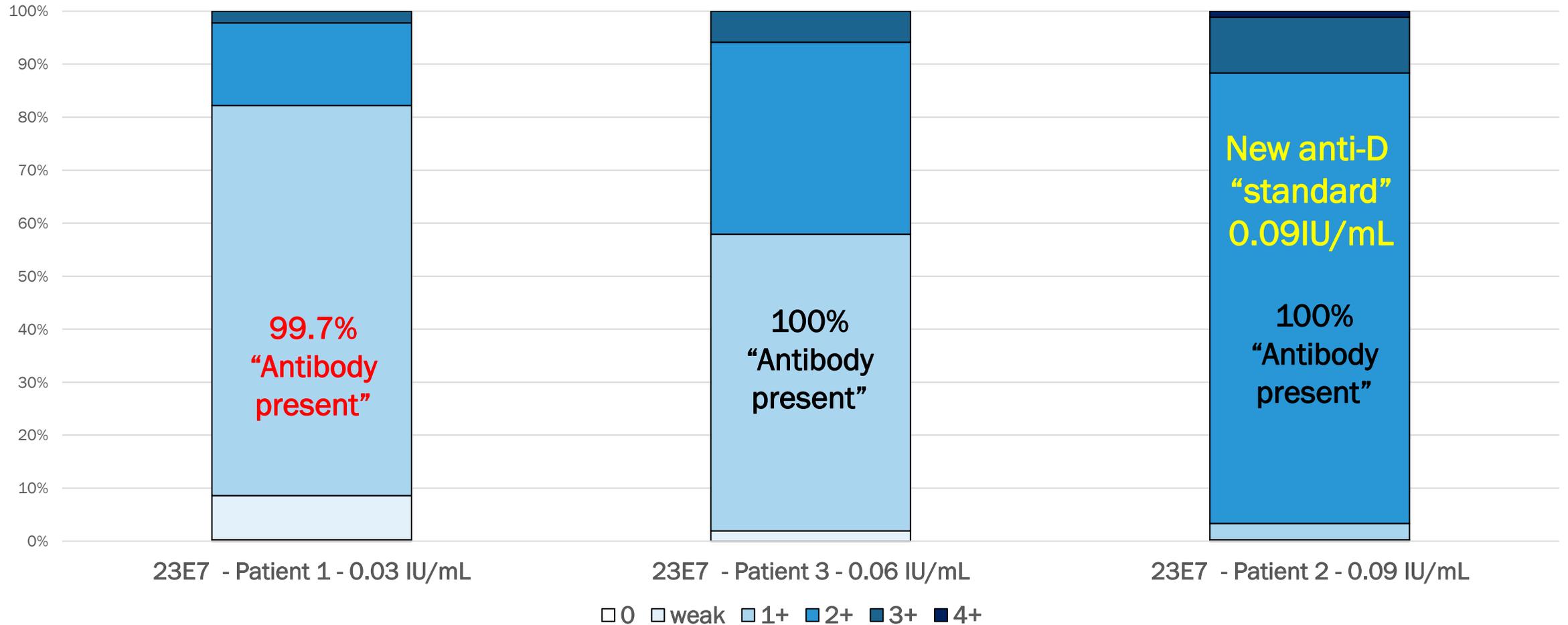
New UK NEQAS anti-D “standard”



New UK NEQAS anti-D “standard”



New UK NEQAS anti-D “standard”



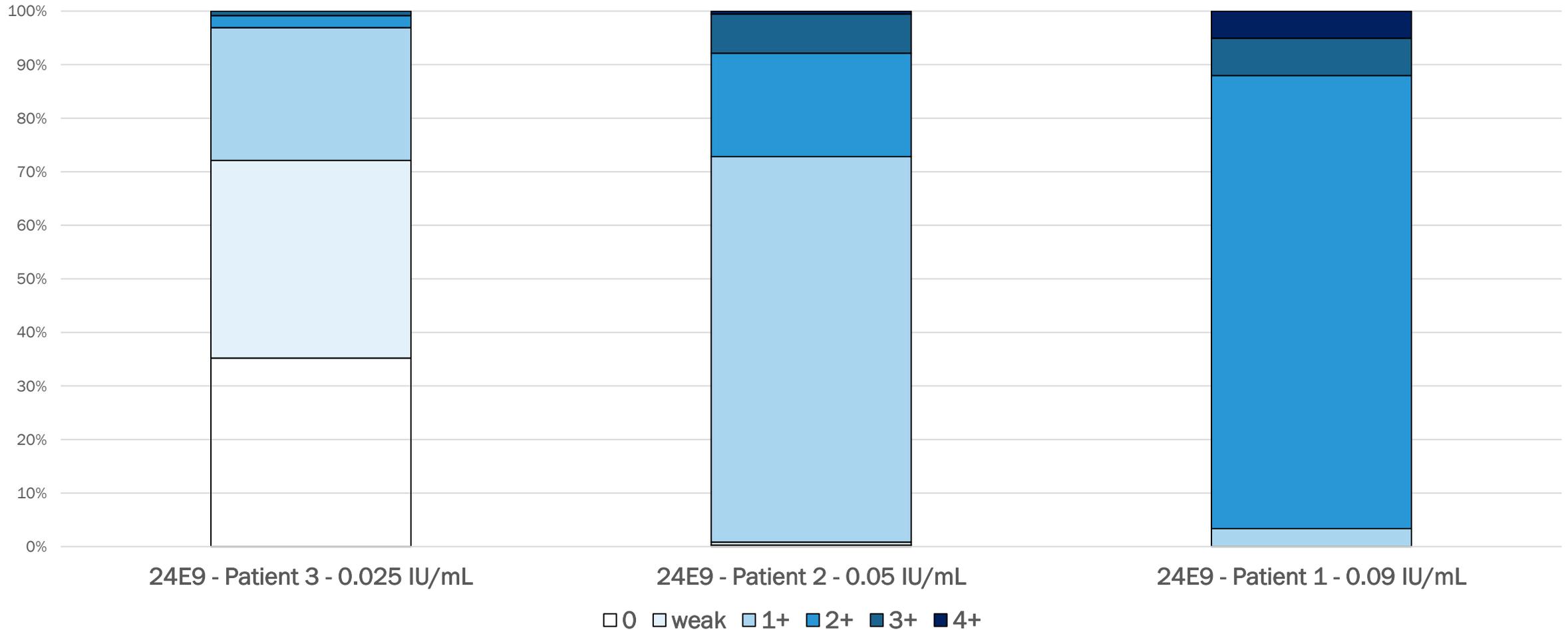
EQALM anti-D limit of detectability trial

- EQALM = The **E**uropean Organisation for External **Q**uality **A**ssurance Providers in **L**aboratory **M**edicine
- Frenemies of NEQAS
- Not for profit

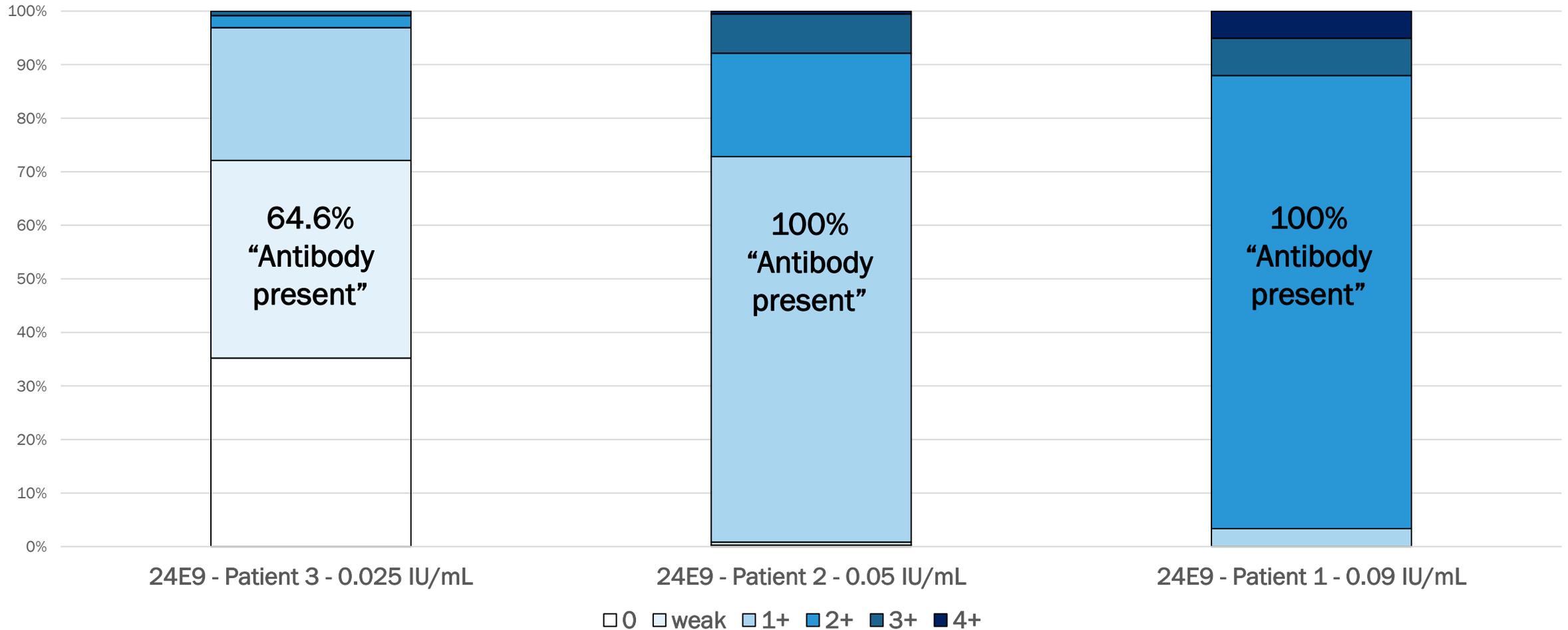
EQALM anti-D limit of detectability trial

- 24E9
 - Patient 3 = EQALM 3
 - 0.025IU/mL
 - Patient 2 = EQALM 2
 - 0.05IU/mL
 - Patient 1 = UK NEQAS BTLP anti-D standard
 - 0.09IU/mL ish

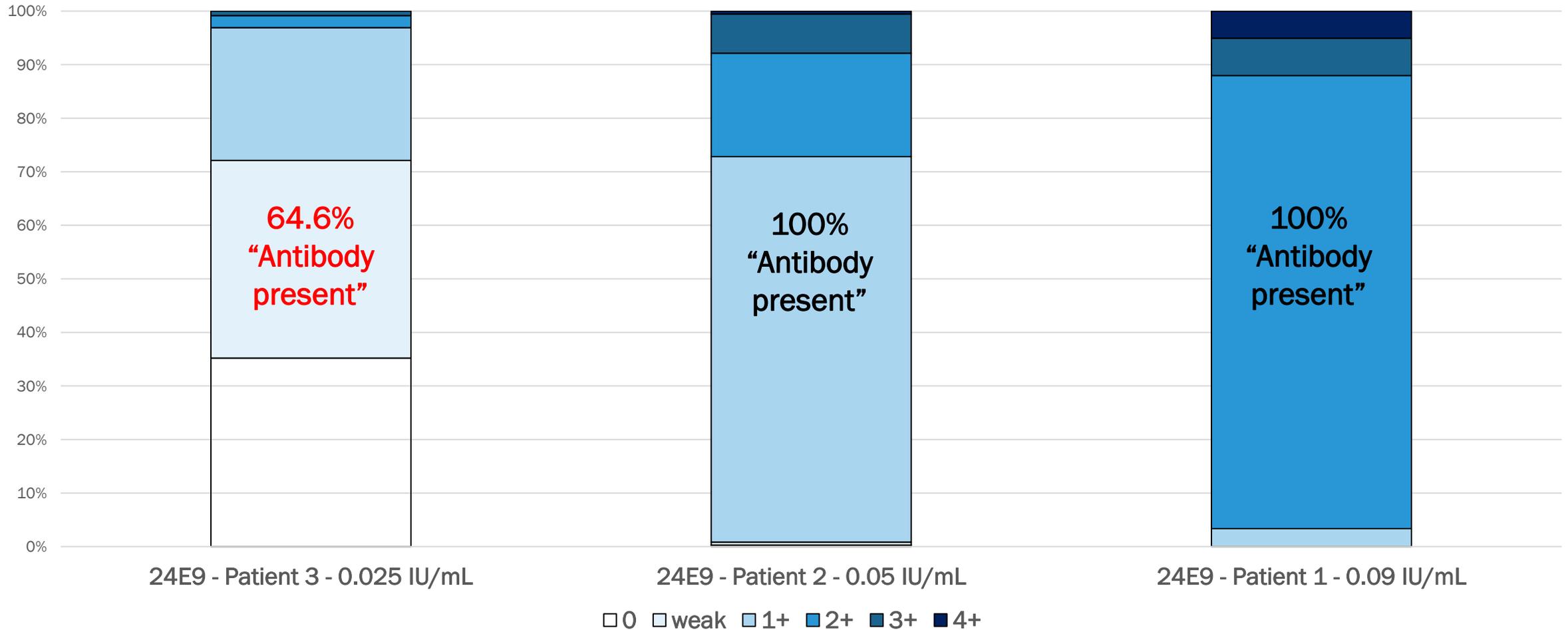
EQALM anti-D limit of detectability trial



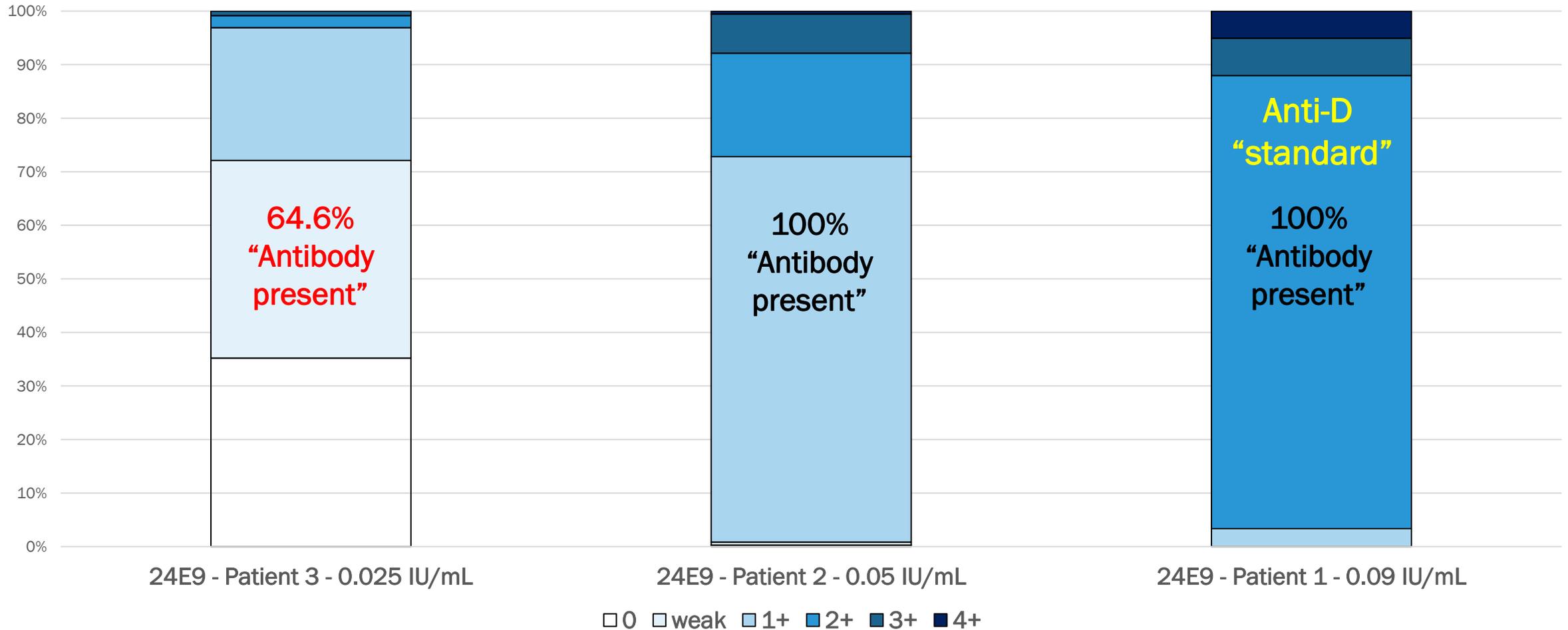
EQALM anti-D limit of detectability trial



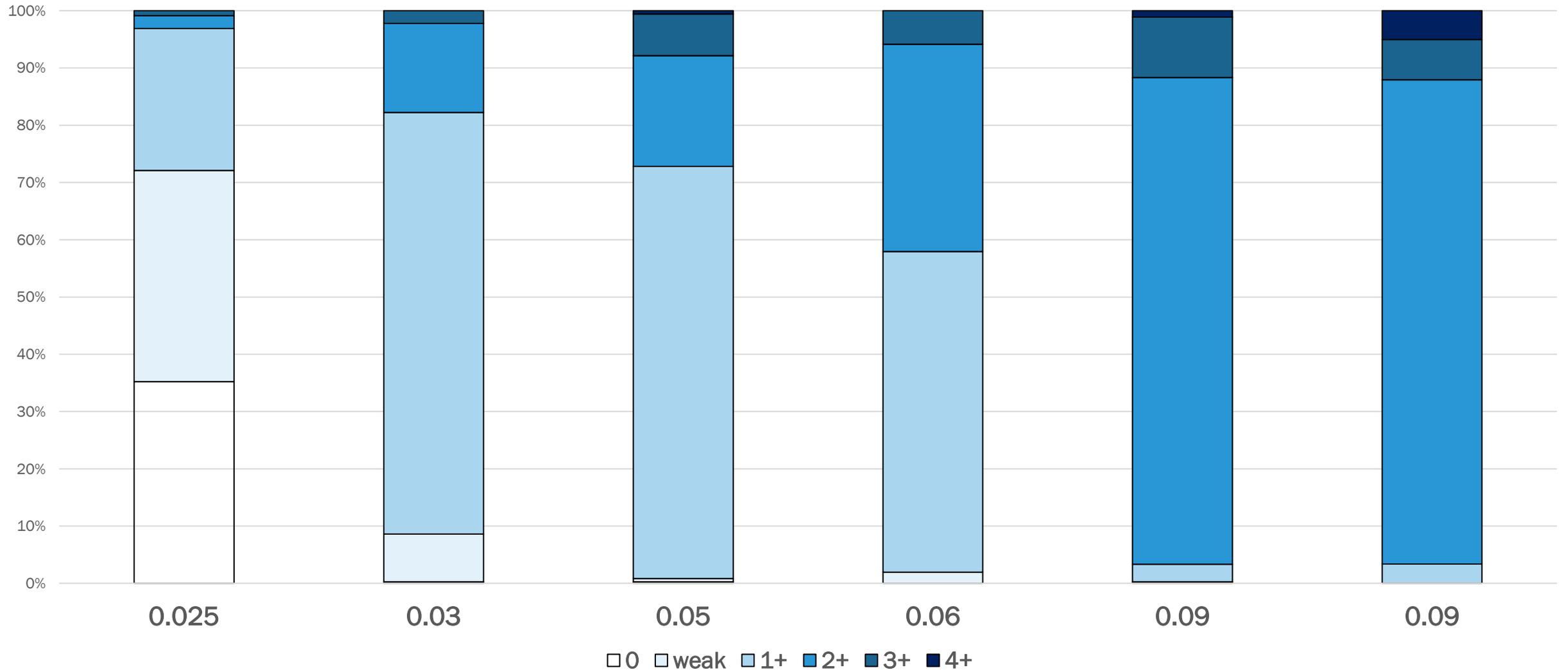
EQALM anti-D limit of detectability trial



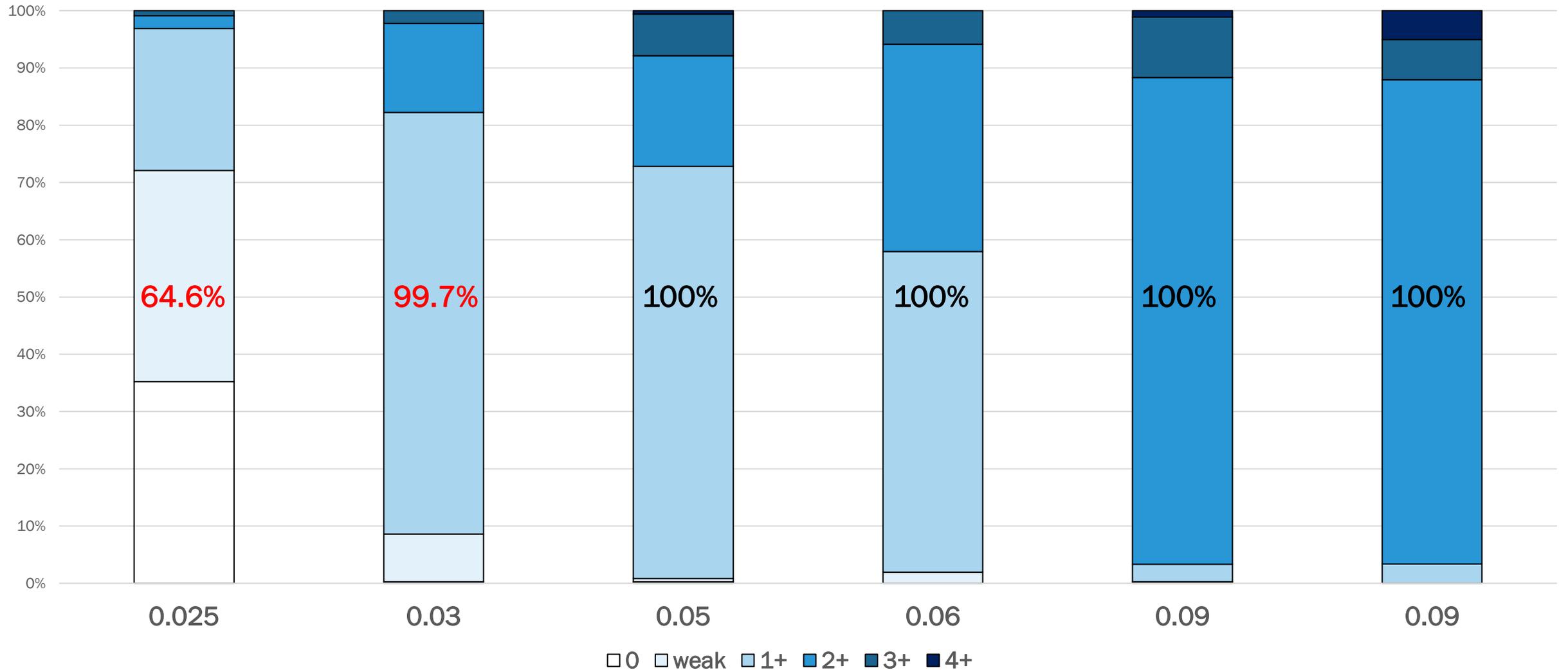
EQALM anti-D limit of detectability trial



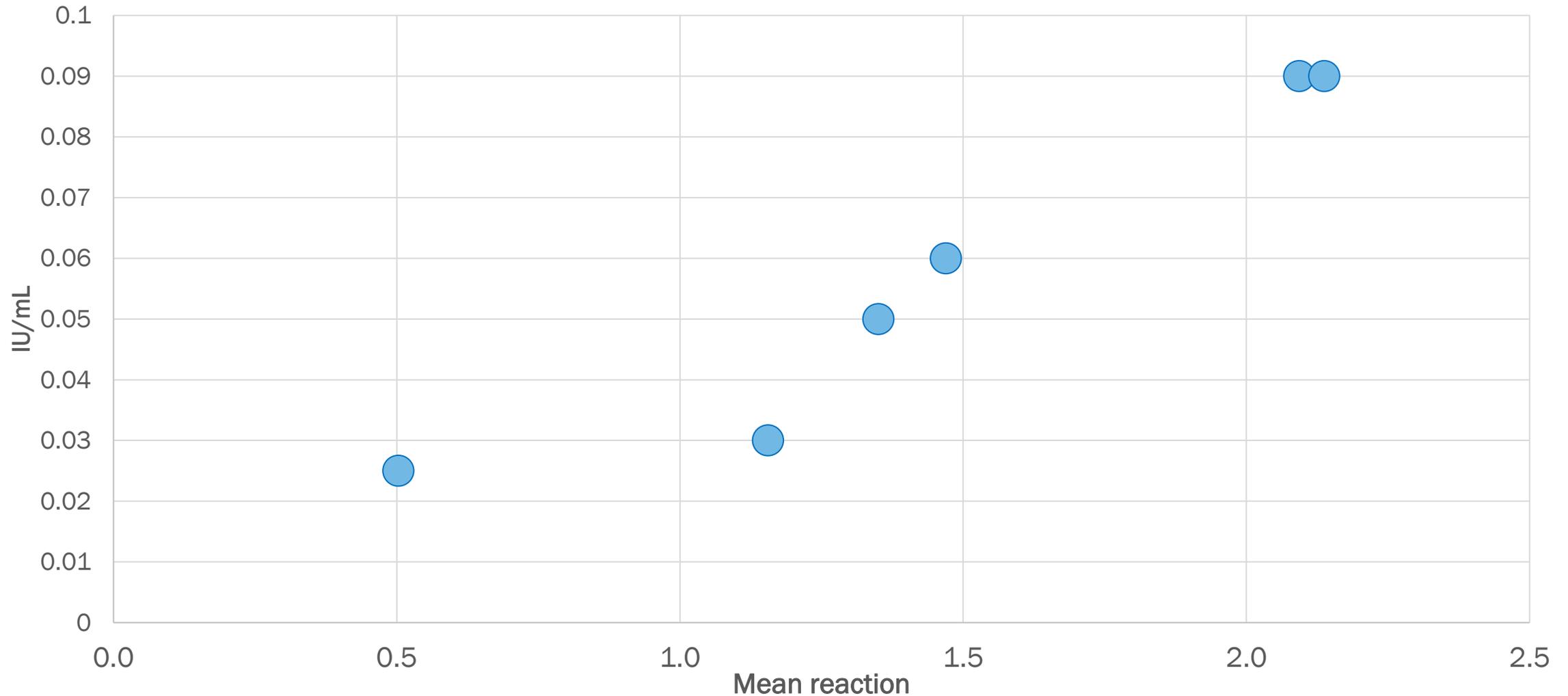
NEQAS samples with known IU/mL



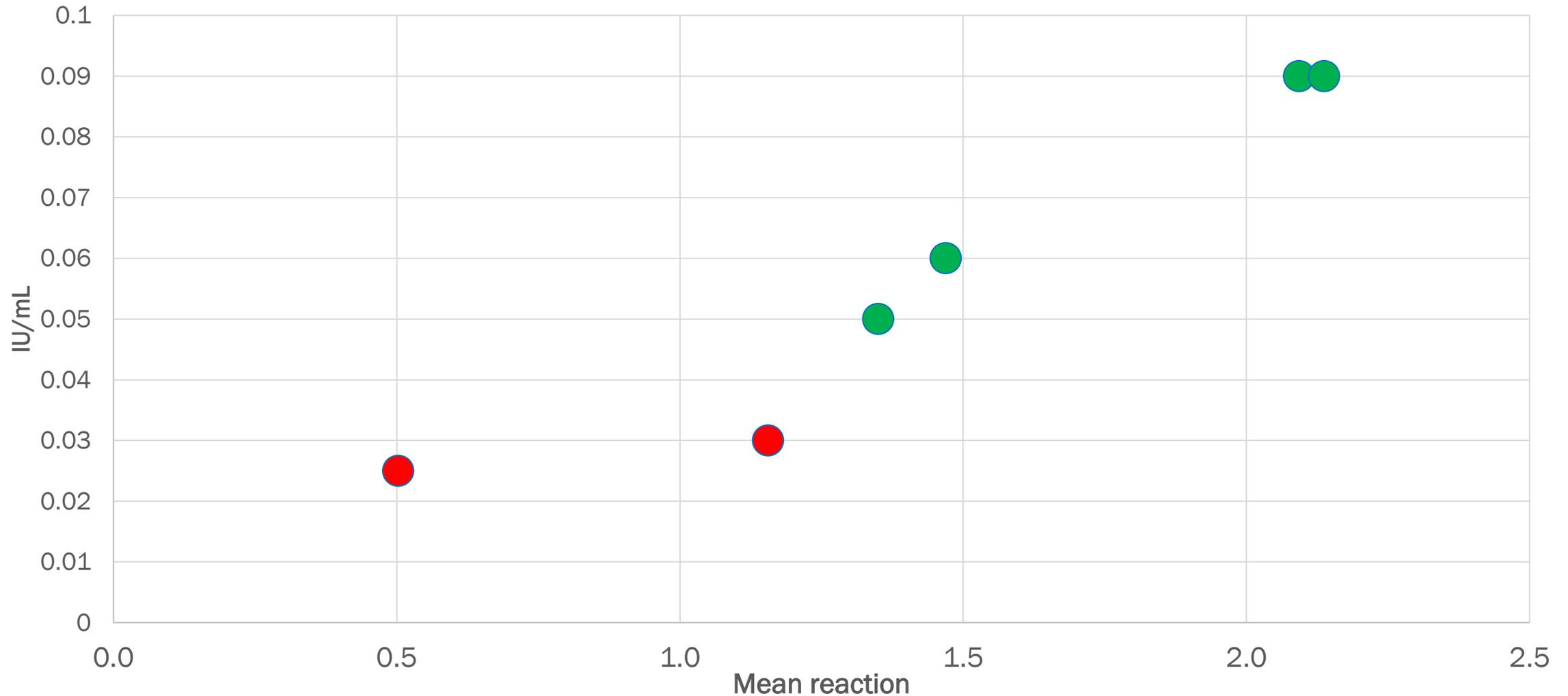
NEQAS samples with known IU/mL



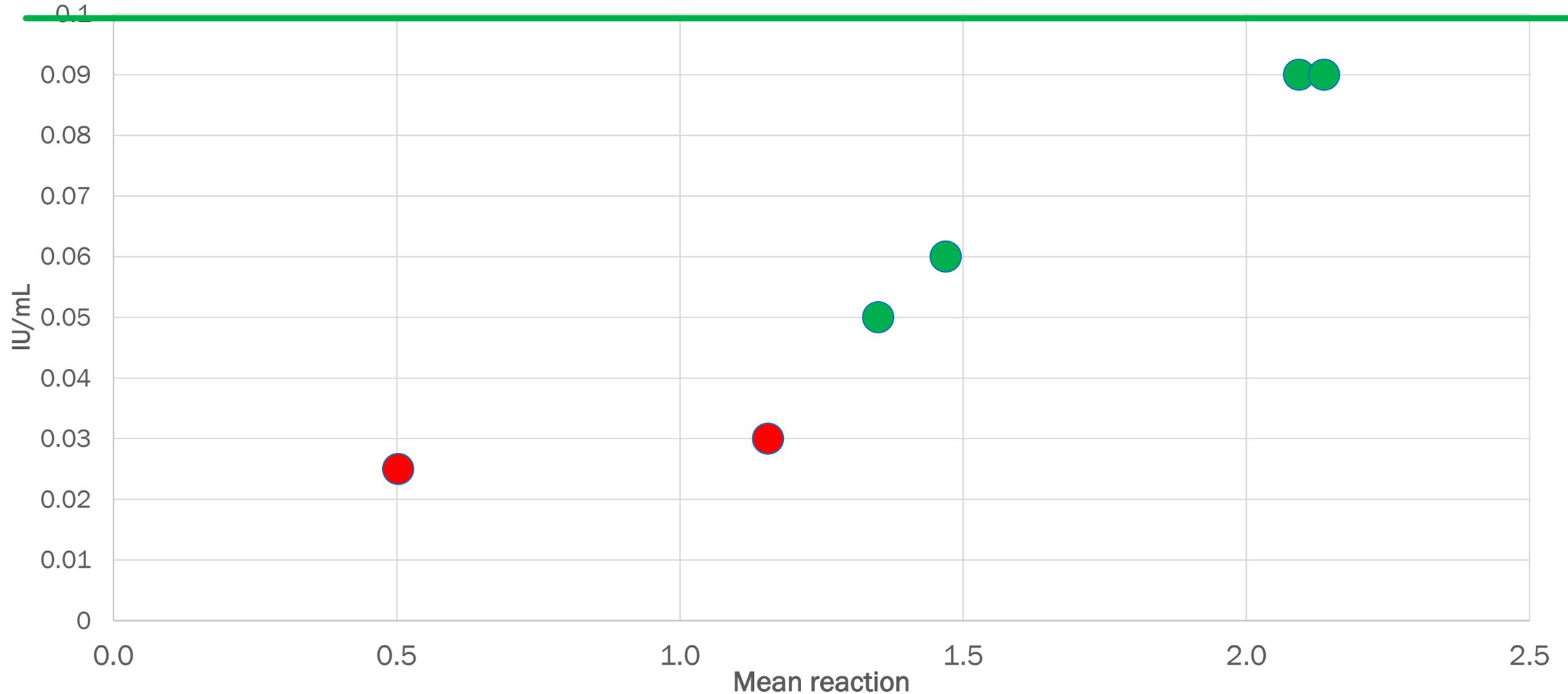
NEQAS samples with known IU/mL



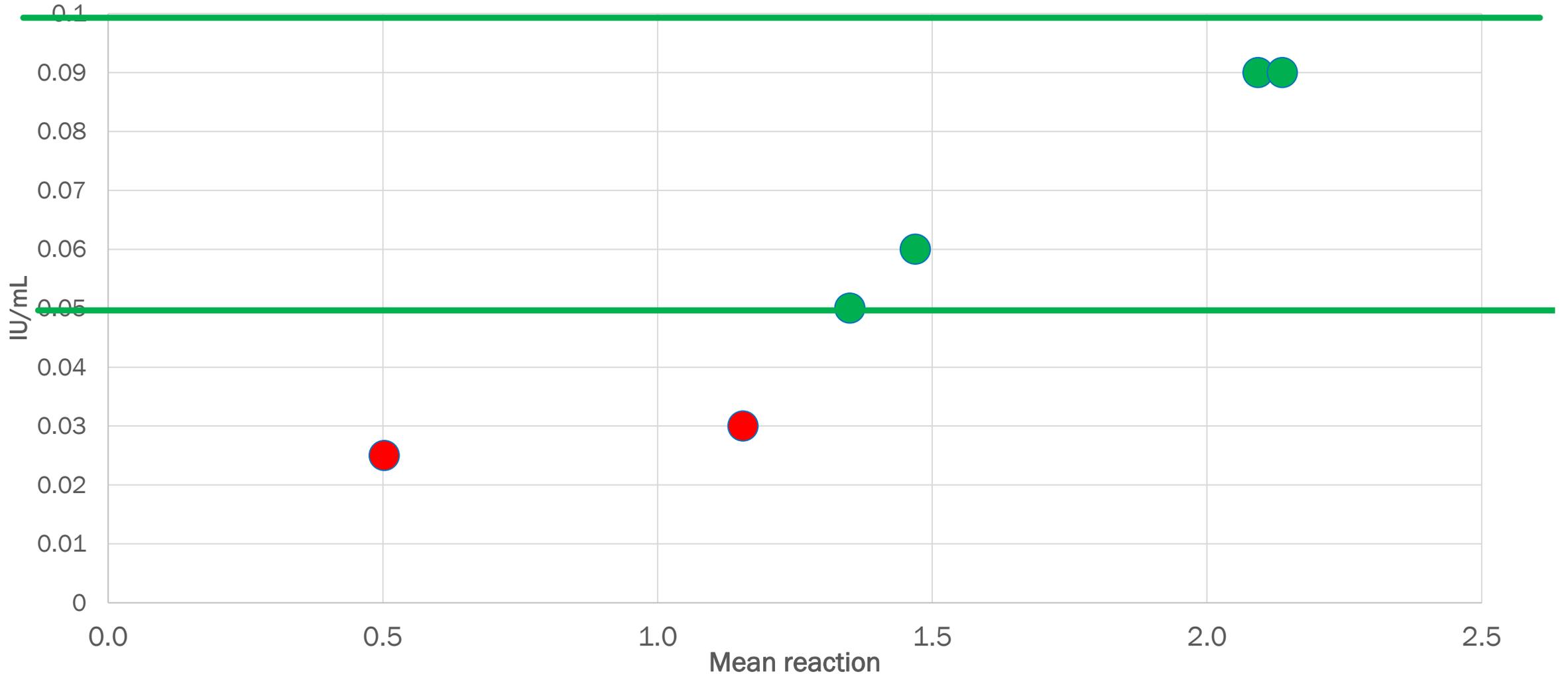
NEQAS samples with known IU/mL



NEQAS samples with known IU/mL



NEQAS samples with known IU/mL



Discussion

- Should we expect to detect very low levels?
- Should <0.1 IU/mL be changed?

Conclusions

- All UK and RoI labs able to detect the NEQAS D standard
 - 0.09IU/mL
 - In line with BSH guidance
- All also able to detect at 0.05UI/mL
 - Many able to detect a lot lower
- Technology surpassing expectations
 - Nothing wrong with it not detecting very low levels