

Haemolytic Transfusion Reactions (HTR)

FIGURES FROM THE ANNUAL SHOT REPORTS 2016-2024

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Age range in males and females experiencing a HTR in 2024

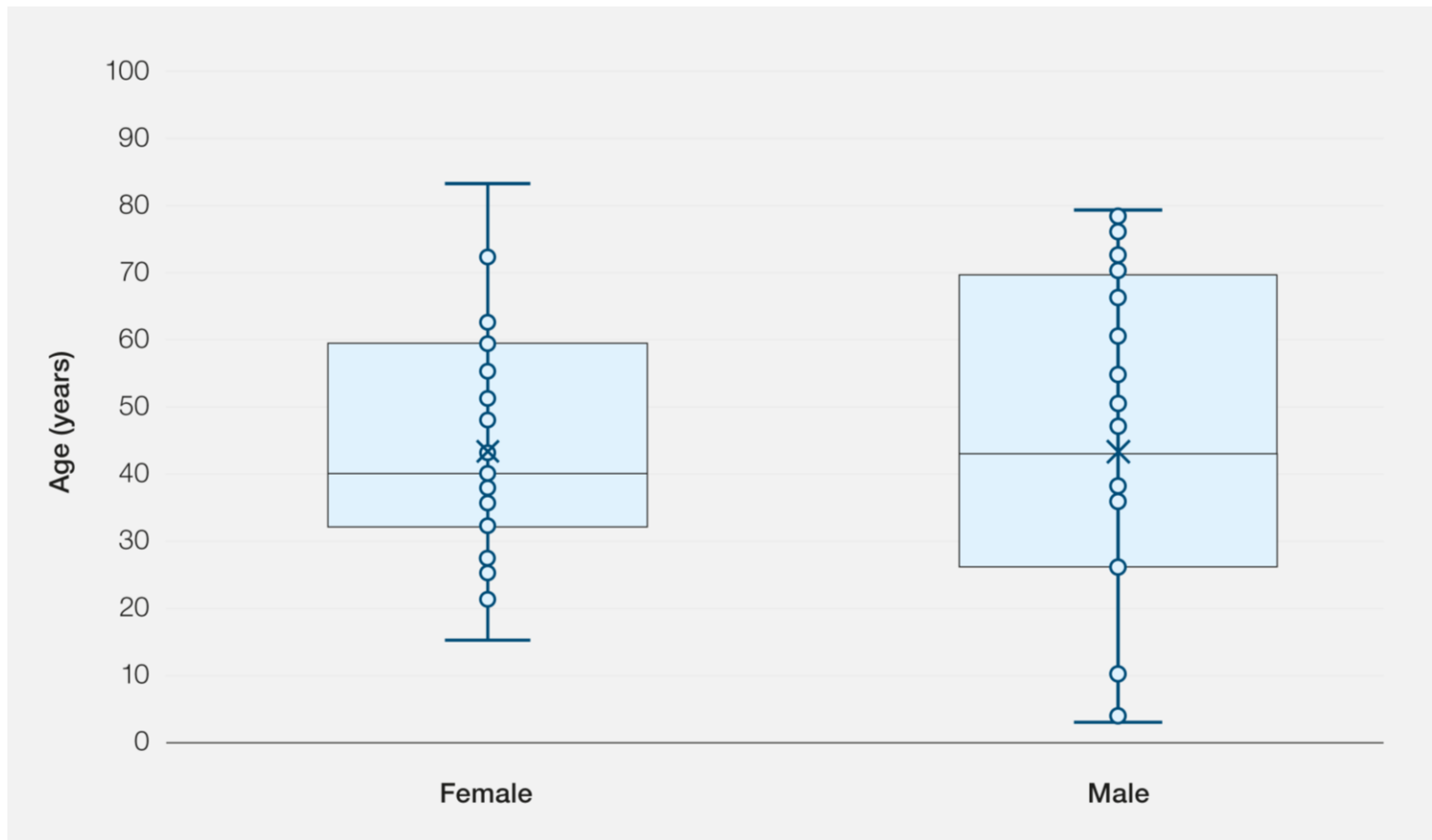
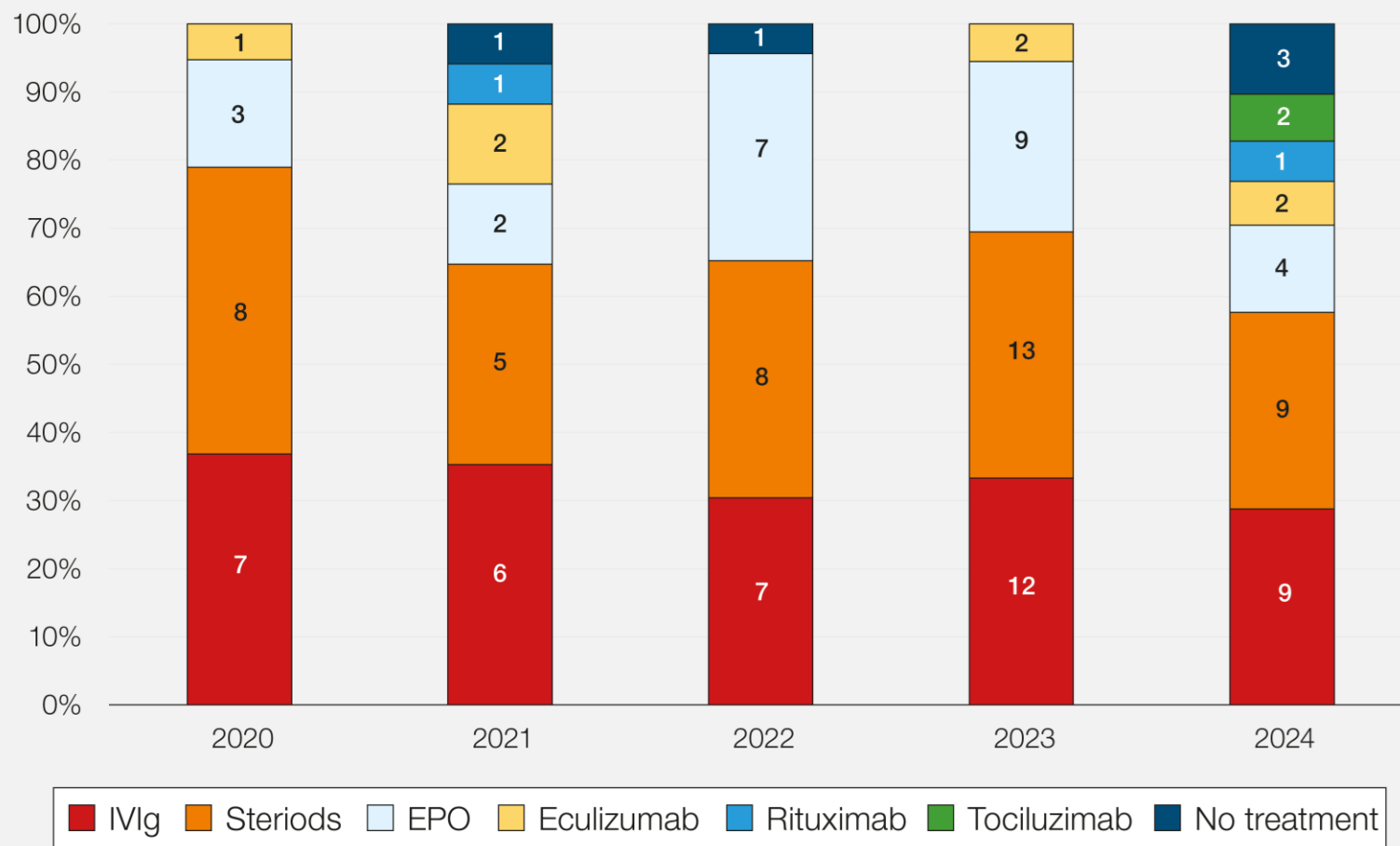
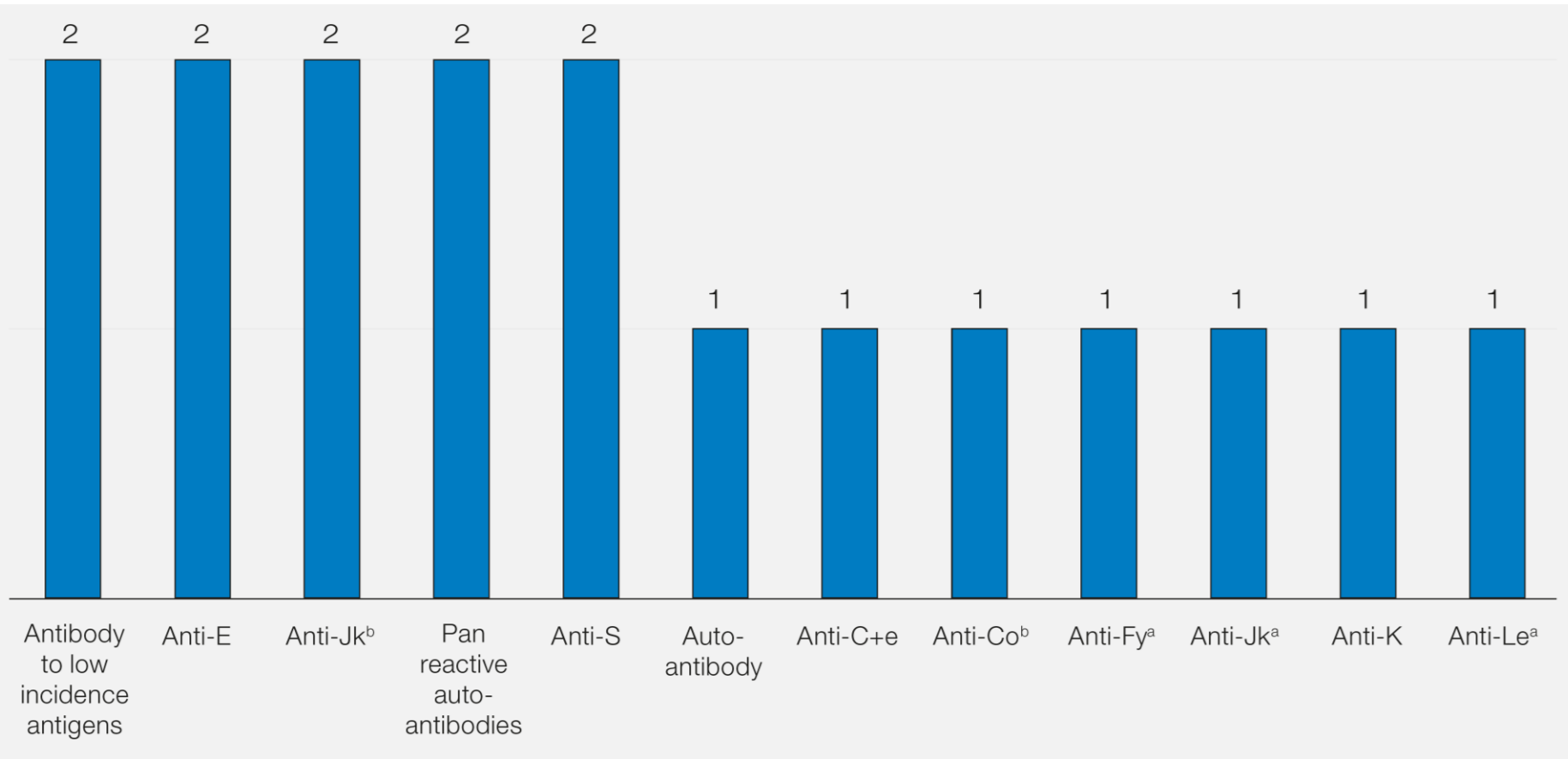


Figure 21.1 is a box and whisker diagram showing the median age and the age range of patients experiencing a HTR reported to SHOT separated by gender. The middle bar in the shaded box indicates the median age, the outer bars of the box represent the upper and lower quartiles. The lines extending from the boxes (whiskers) indicate the lowest and highest values.

Treatments used to manage hyperhaemolysis (2020-2024)



Antibodies implicated in AHTR in 2024



Age range in males and females experiencing a HTR in 2023

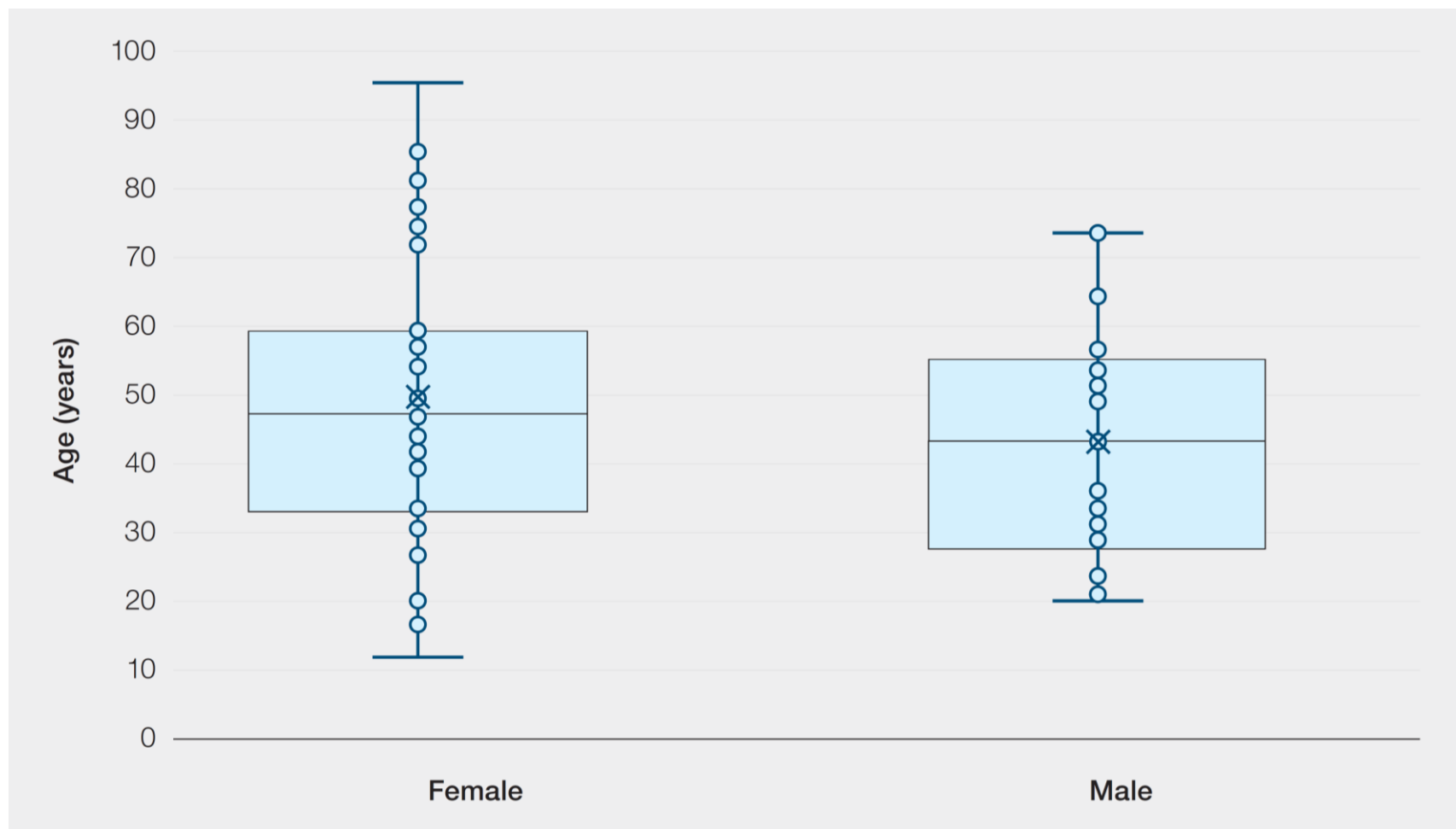
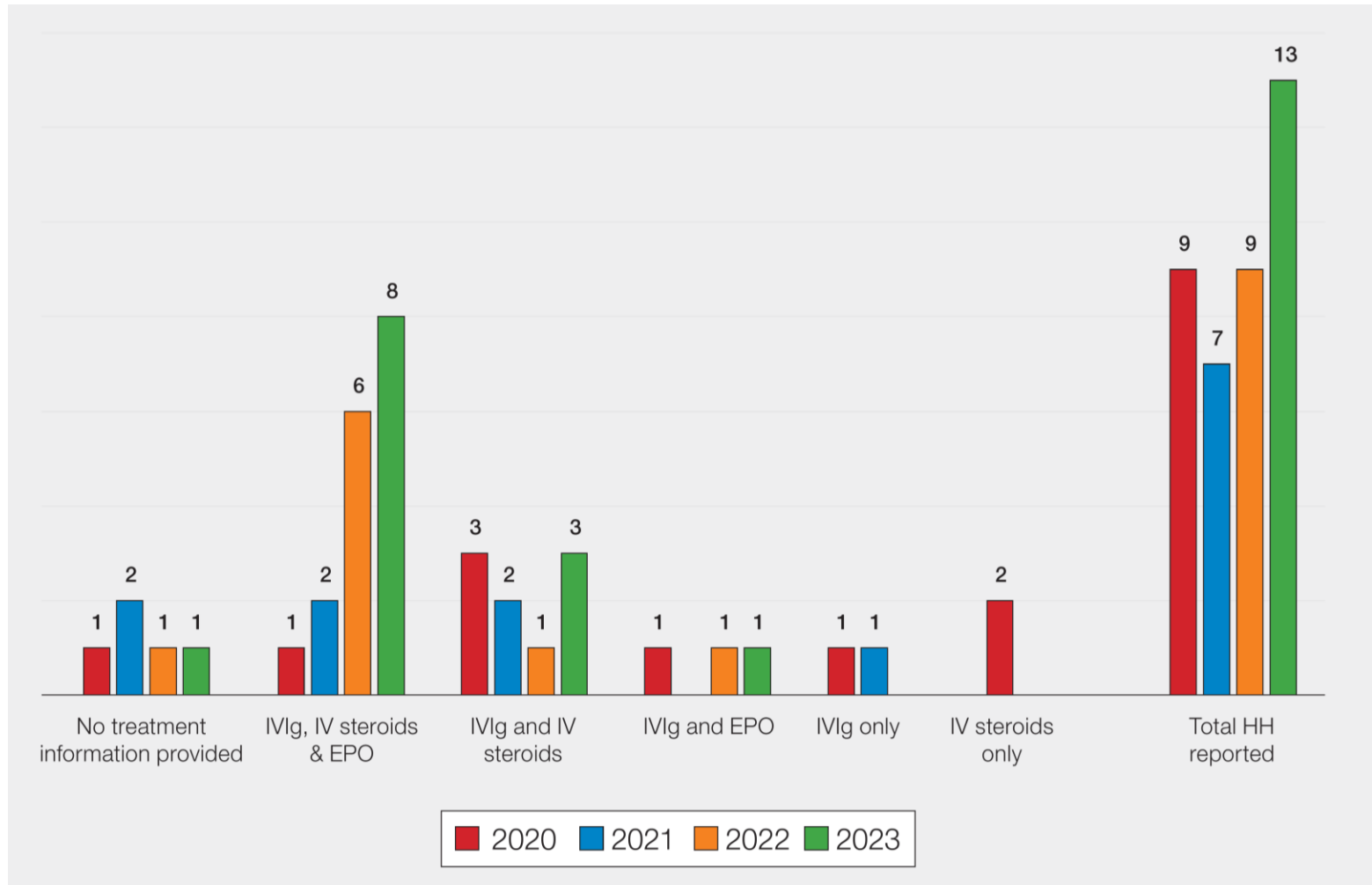


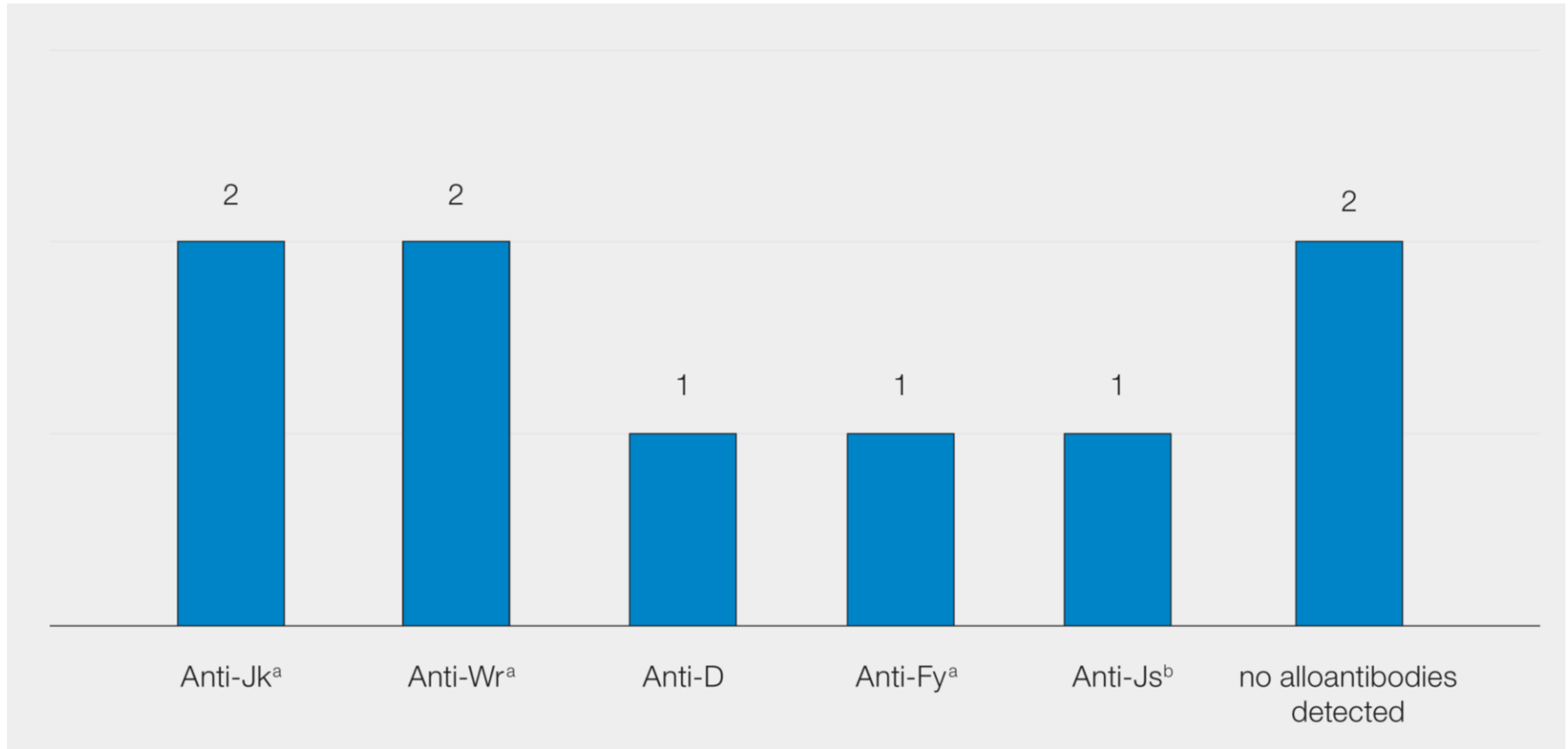
Figure 19.1 is a box and whisker diagram showing the median age and the age range of patients experiencing a HTR reported to SHOT separated by gender. The middle bar in the shaded box indicates the median age, the outer bars of the box represent the upper and lower quartiles. The lines extending from the boxes (whiskers) indicate the lowest and highest values.

Treatments used to manage hyperhaemolysis

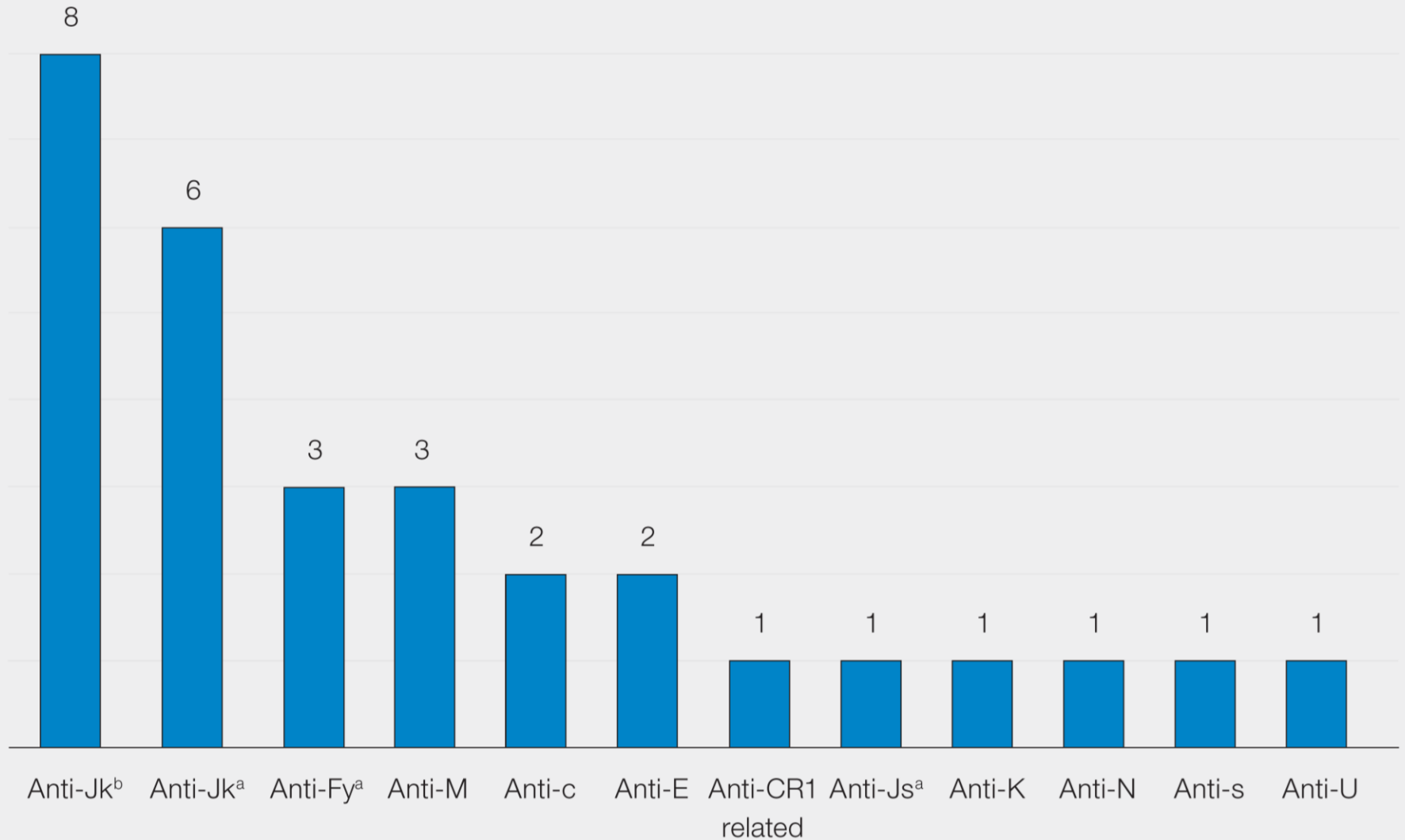


EPO=erythropoietin; HH=hyperhaemolysis; IV=intravenous; IVIg=intravenous immunoglobulin

Alloantibodies reported in AHTR in 2023



Alloantibodies reported in DHTR in 2023



Age range in males and females experiencing a HTR in 2022

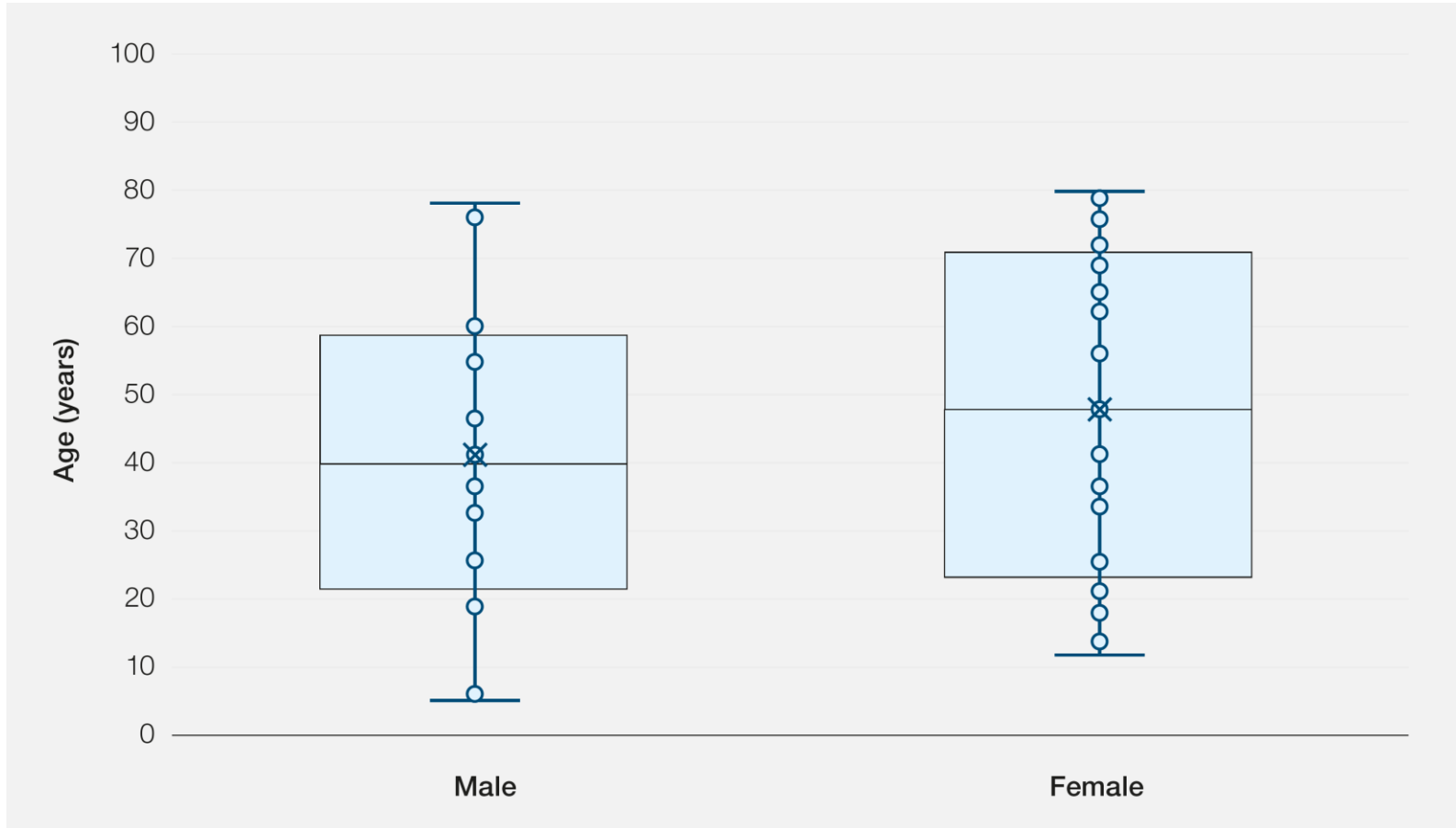
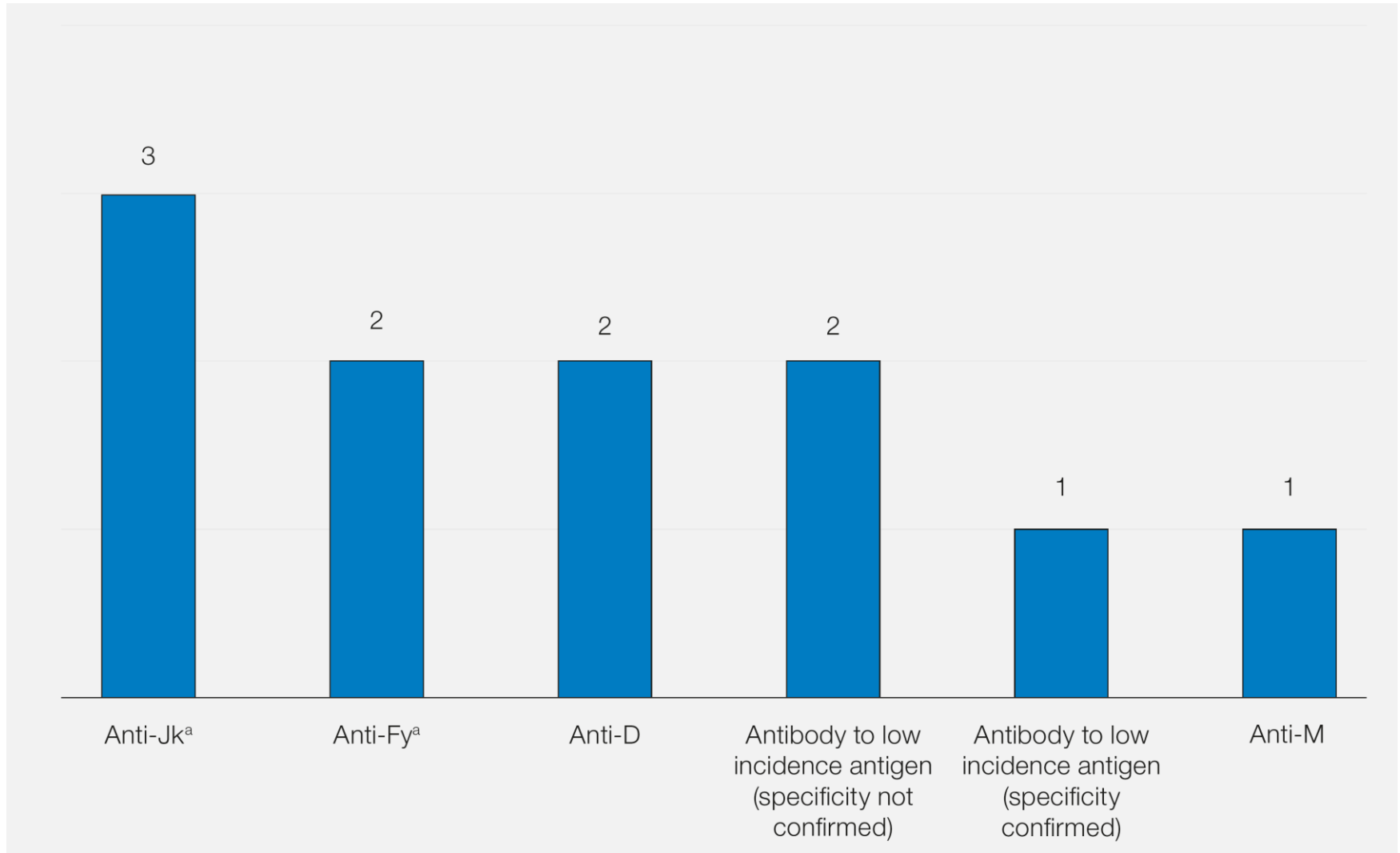
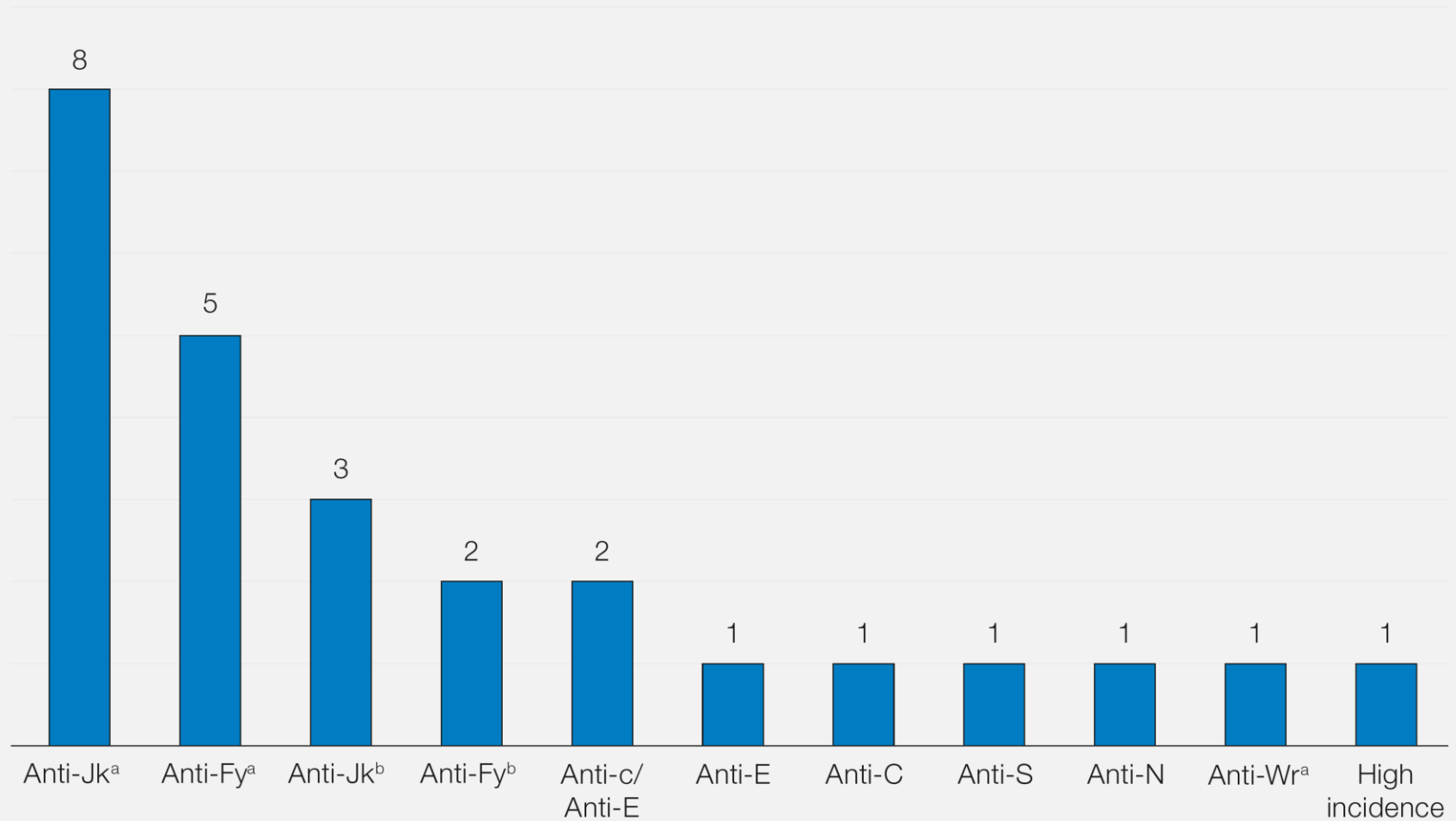


Figure 18.1 is a box and whisker diagram showing the median age and the age range of patients experiencing a HTR reported to SHOT separated by gender. The middle bar in the shaded box indicates the median age, the outer bars of the box represent the upper and lower quartiles. The lines extending from the boxes (whiskers) indicate the lowest and highest values.

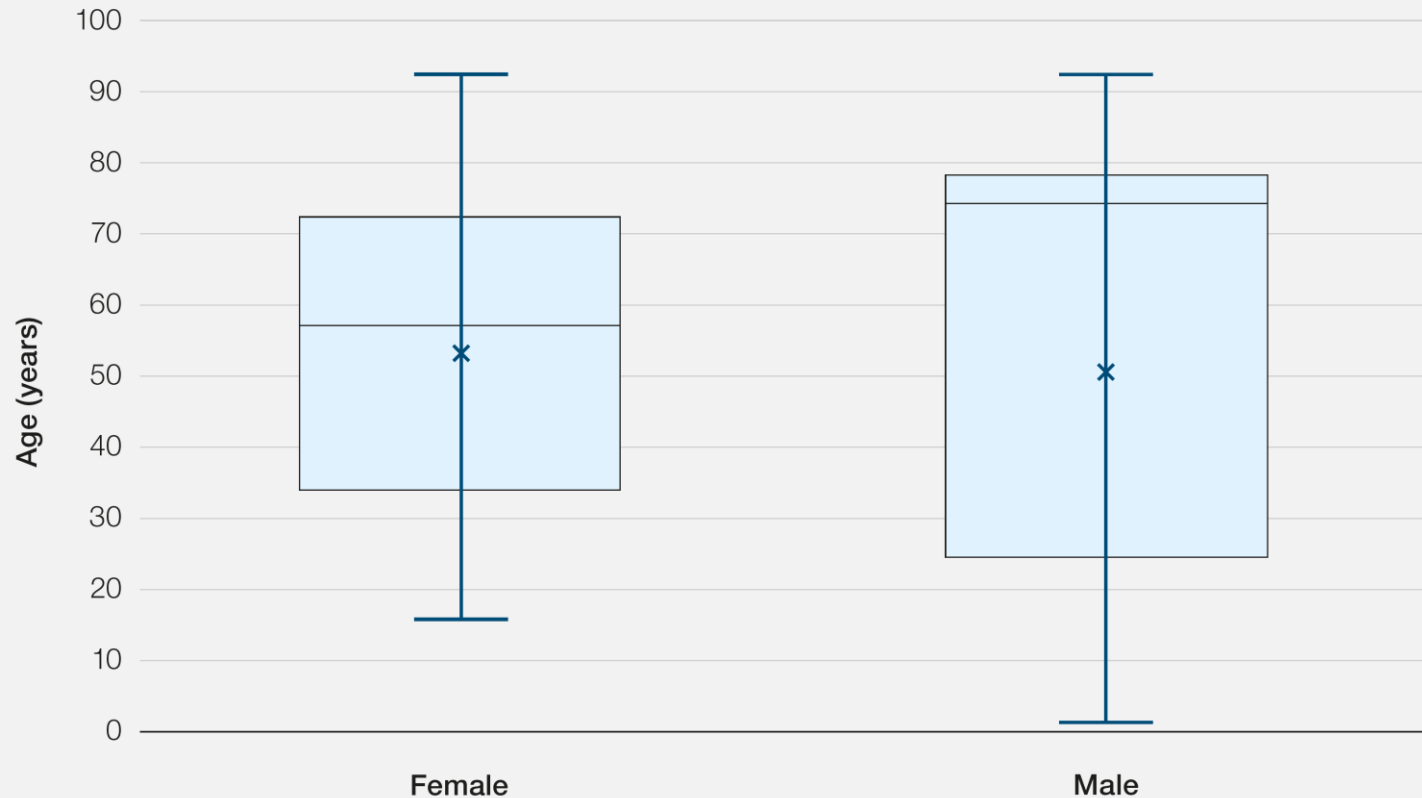
Alloantibodies reported in AHTR in 2022



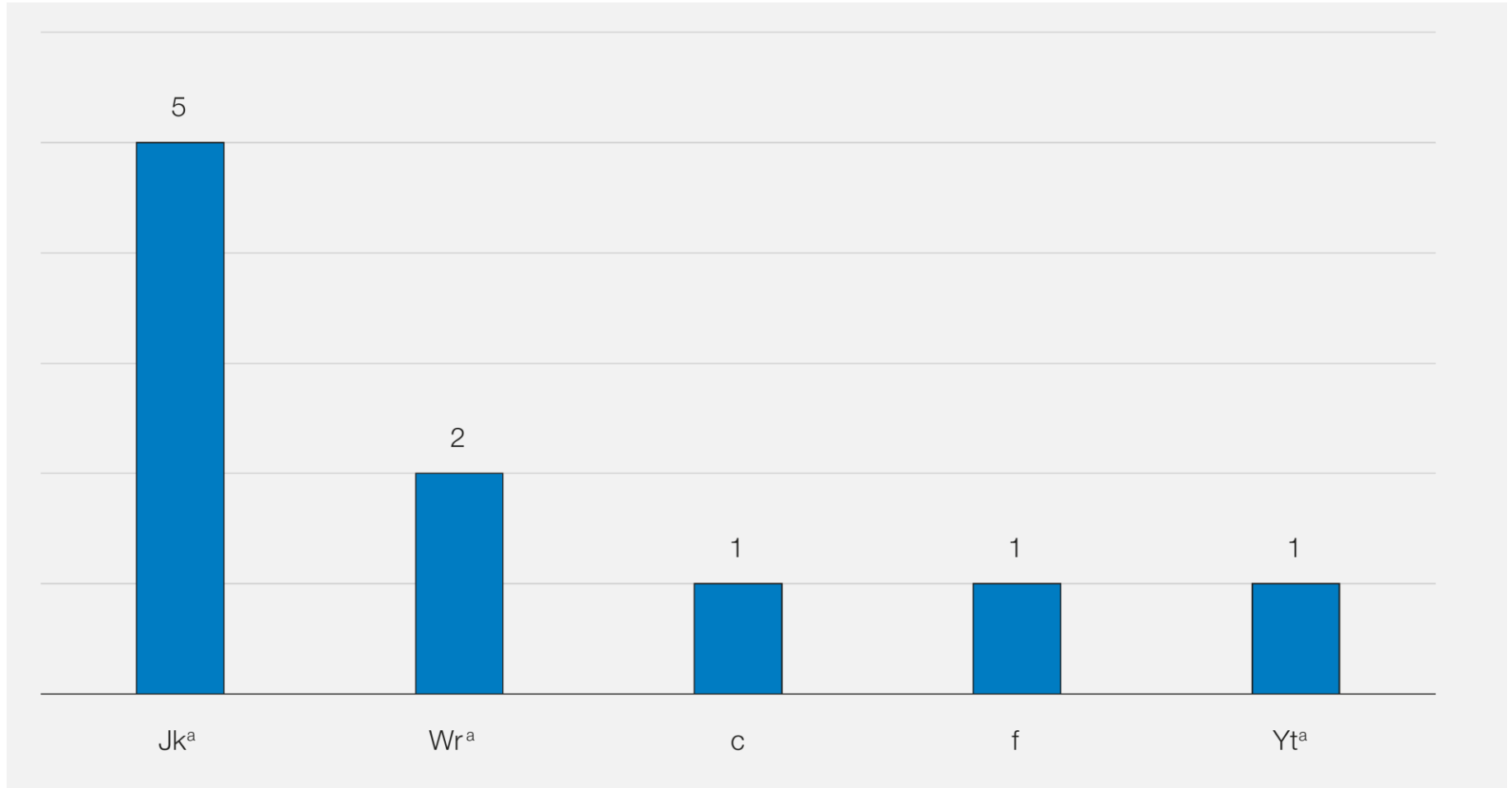
Antibody specificities implicated in DHTR in 2022



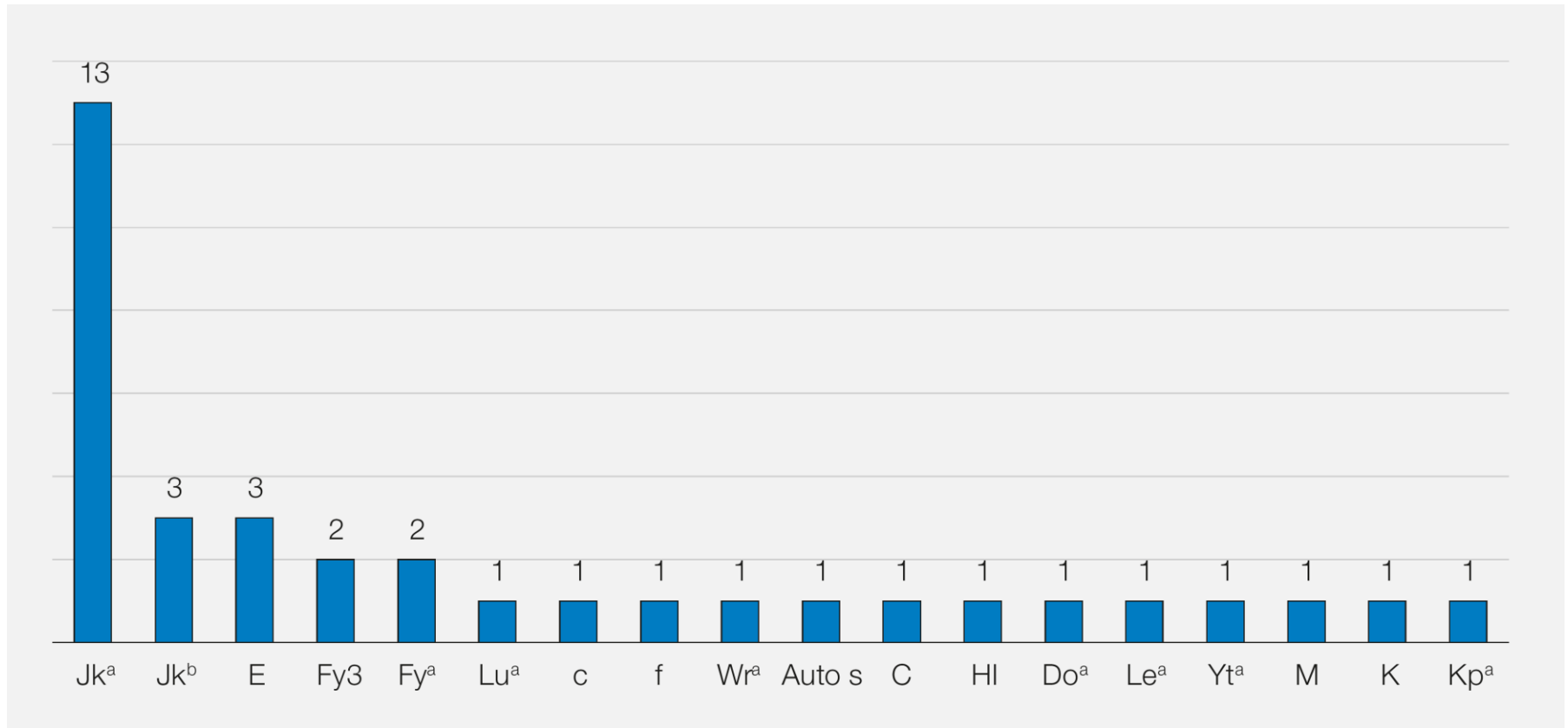
Age range in males and females experiencing a HTR in 2021



Alloantibodies reported in AHTR in 2021



Antibody specificities implicated in HTR in 2021



Age range in males and females experiencing a HTR in 2020

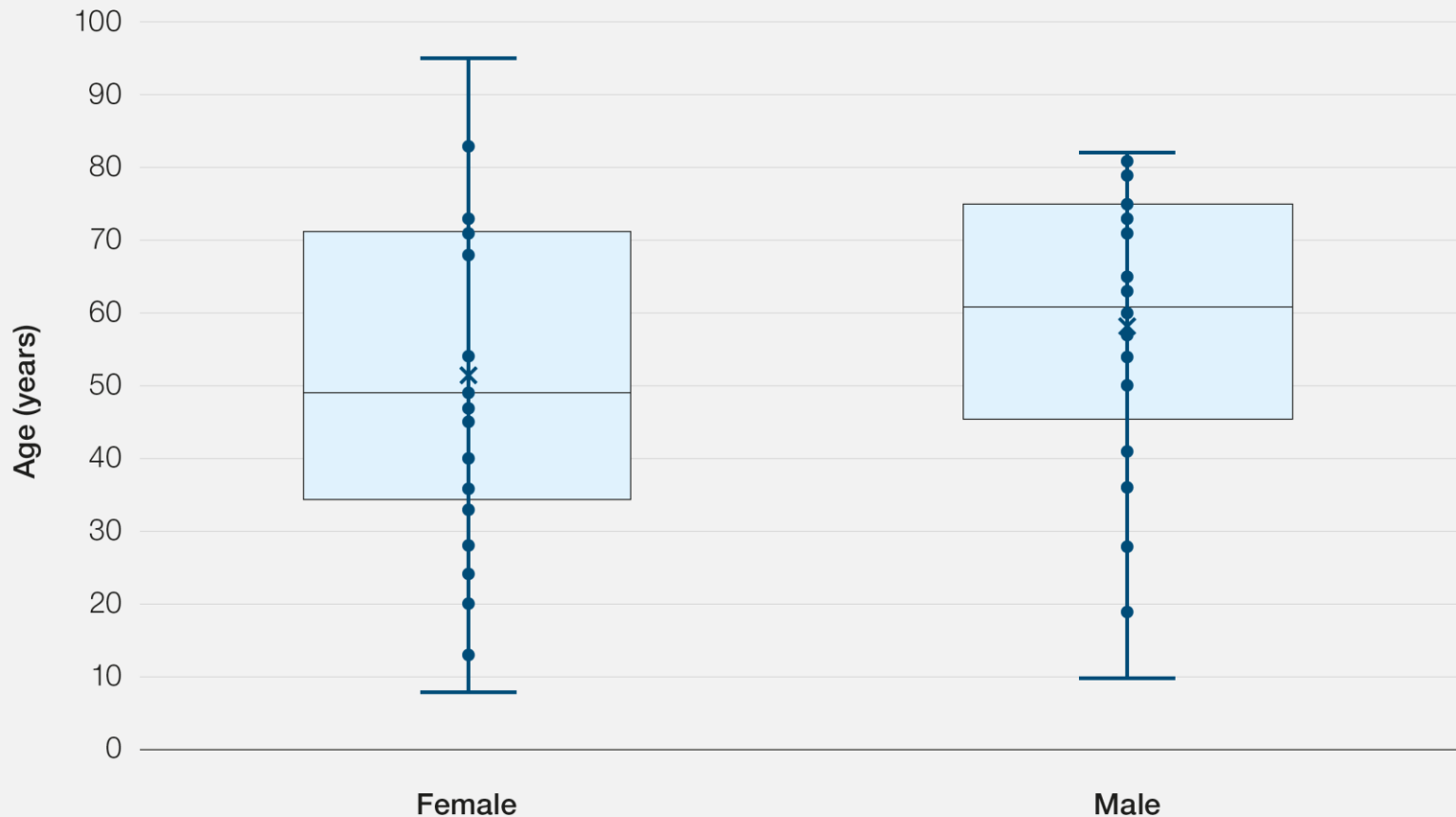
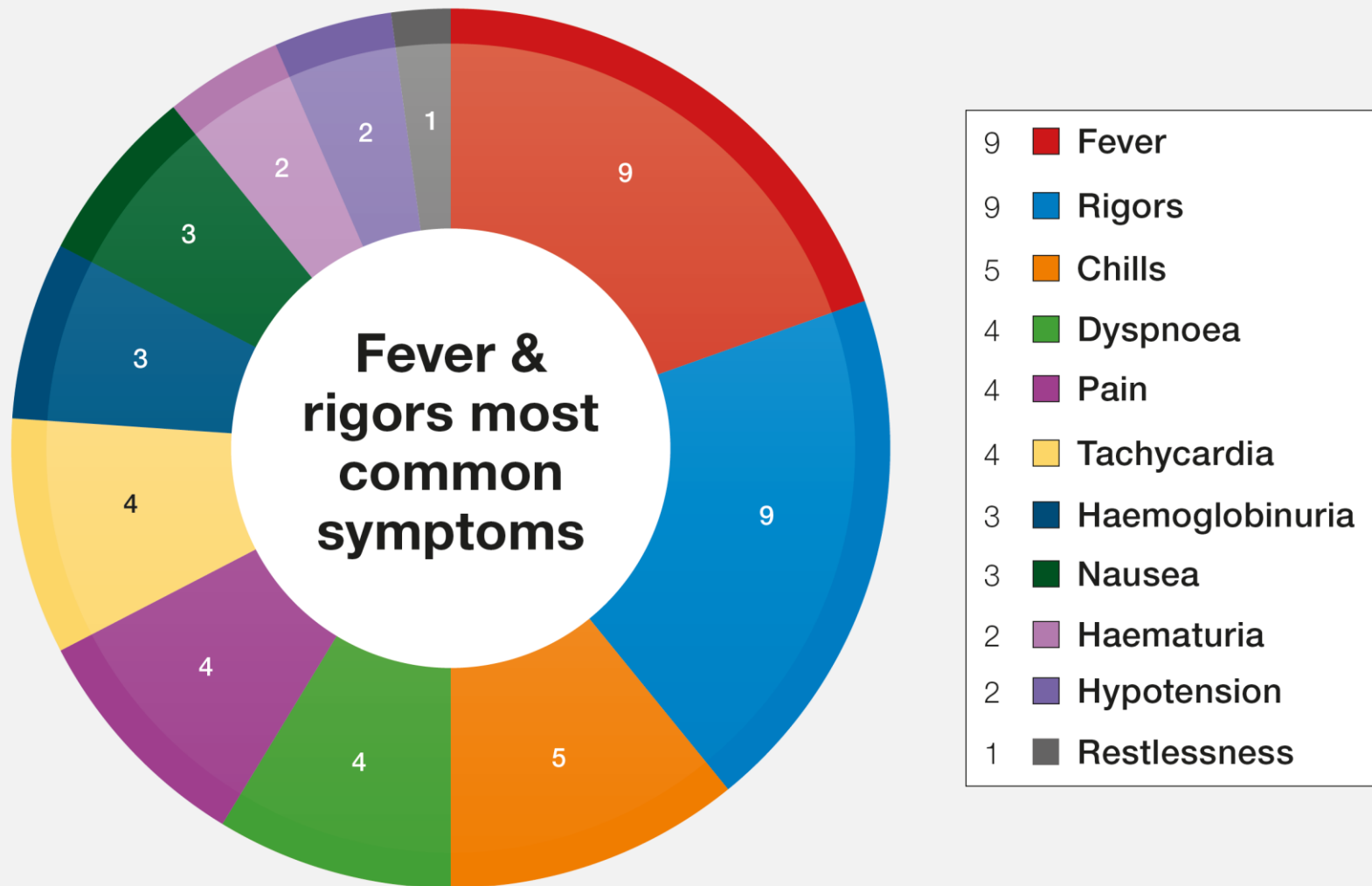
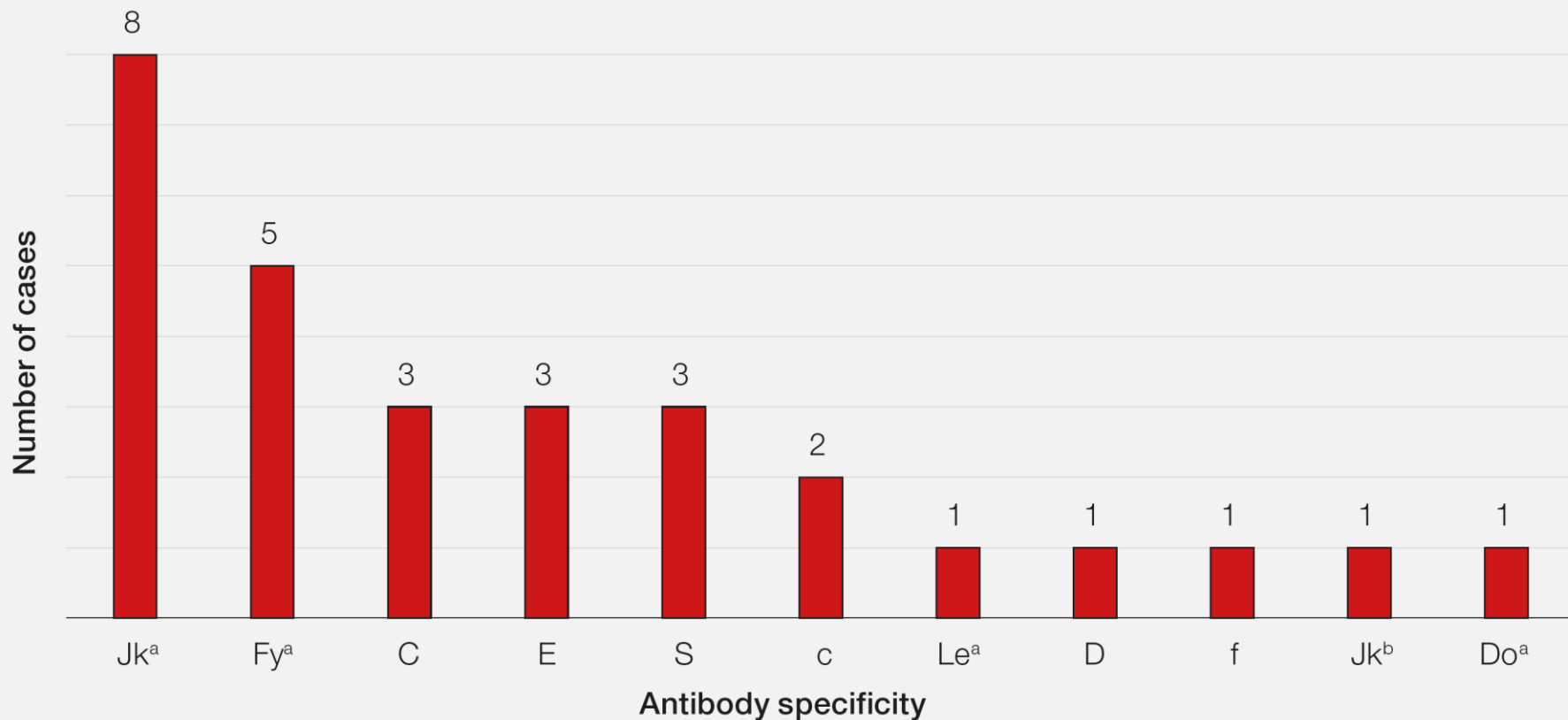


Figure 19.1 is a box and whisker diagram showing the median age and the age range of patients experiencing a HTR reported to SHOT separated by gender. The middle bar in the shaded box indicates the median age, the outer bars of the box represent the upper and lower quartiles. The lines extending from the boxes (whiskers) indicate the lowest and highest values.

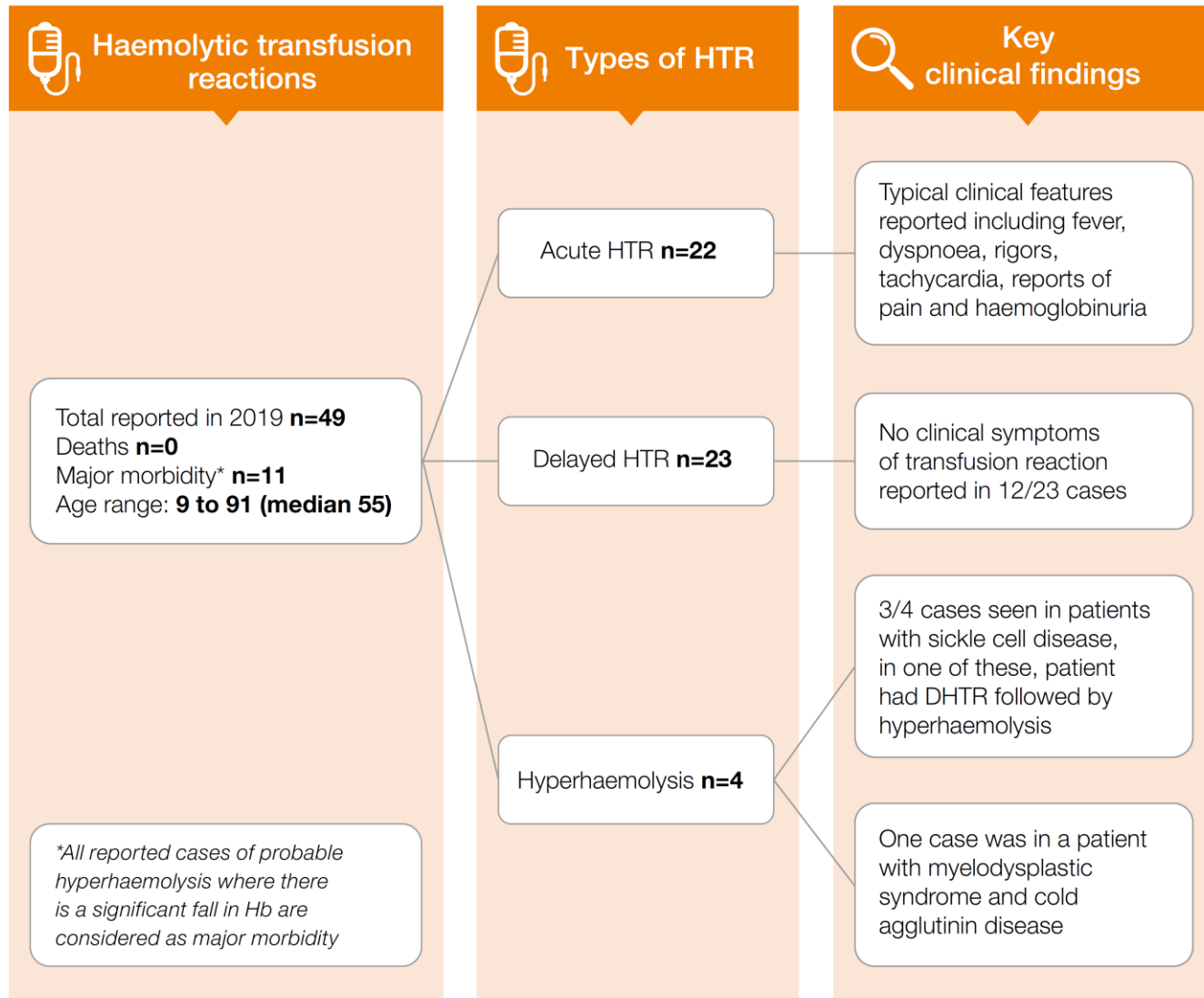
Clinical symptoms reported in AHTR in 2020



Antibody specificities implicated in HTR in 2020



Overview of HTR cases in 2019 n=49



Laboratory investigation of haemolytic transfusion reactions in 2019

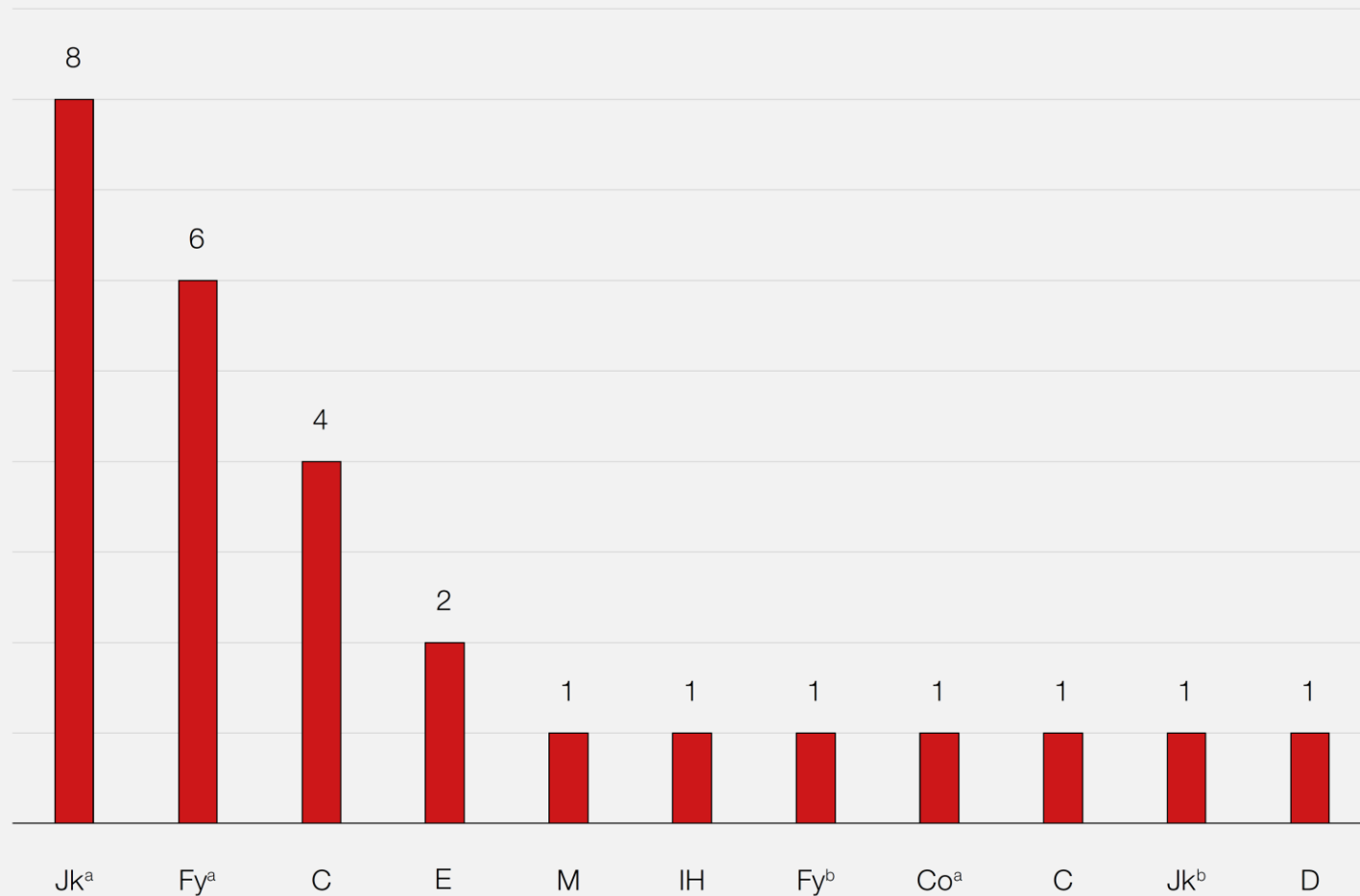


Key findings from laboratory investigations reported in HTR

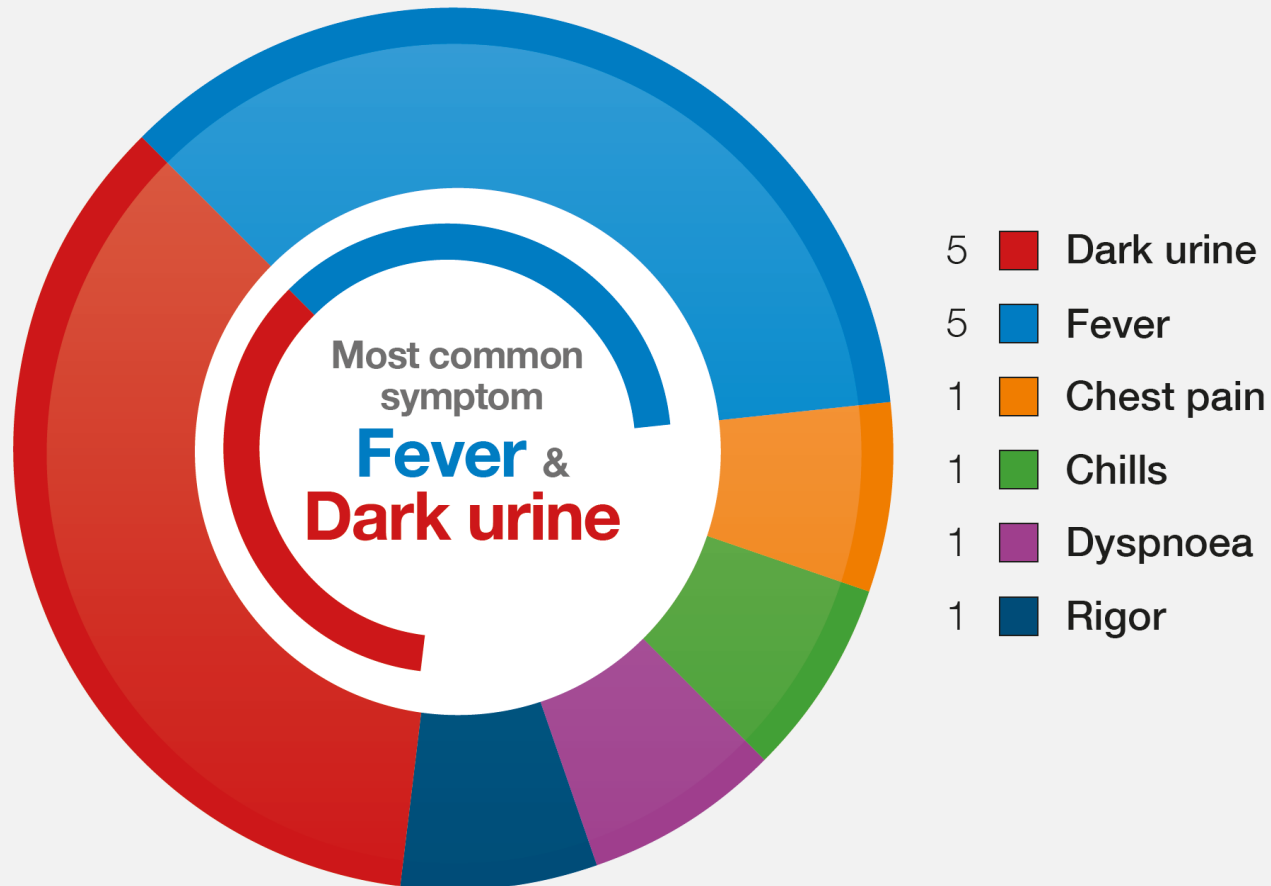
- DAT post transfusion was not available in 4 cases
- In 25 cases the DAT was not repeated on the pre-transfusion sample. 16/25 of these cases were due to the sample being no longer available in DHTR however in 6 cases of AHTR no pre-transfusion DAT was tested
- In 8/49 haemolytic reactions reported no eluate had been tested despite the patient developing a positive DAT post transfusion, and in 5 of these cases the patient also had a new antibody detectable in the post-transfusion sample



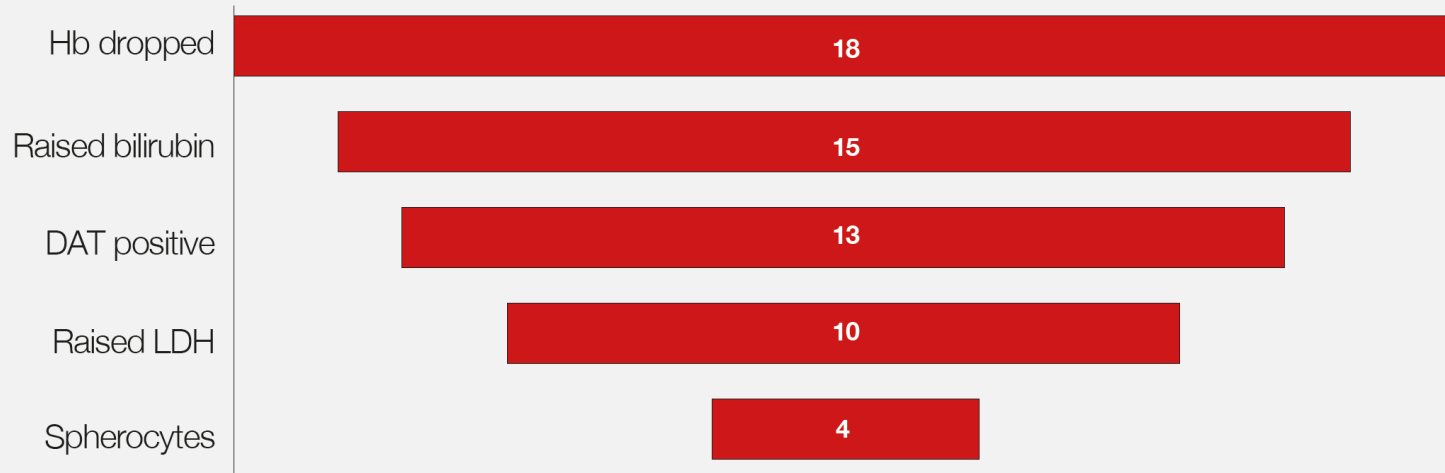
Antibodies implicated in DHTR in 2019



Clinical symptoms associated with DHTR in 2018

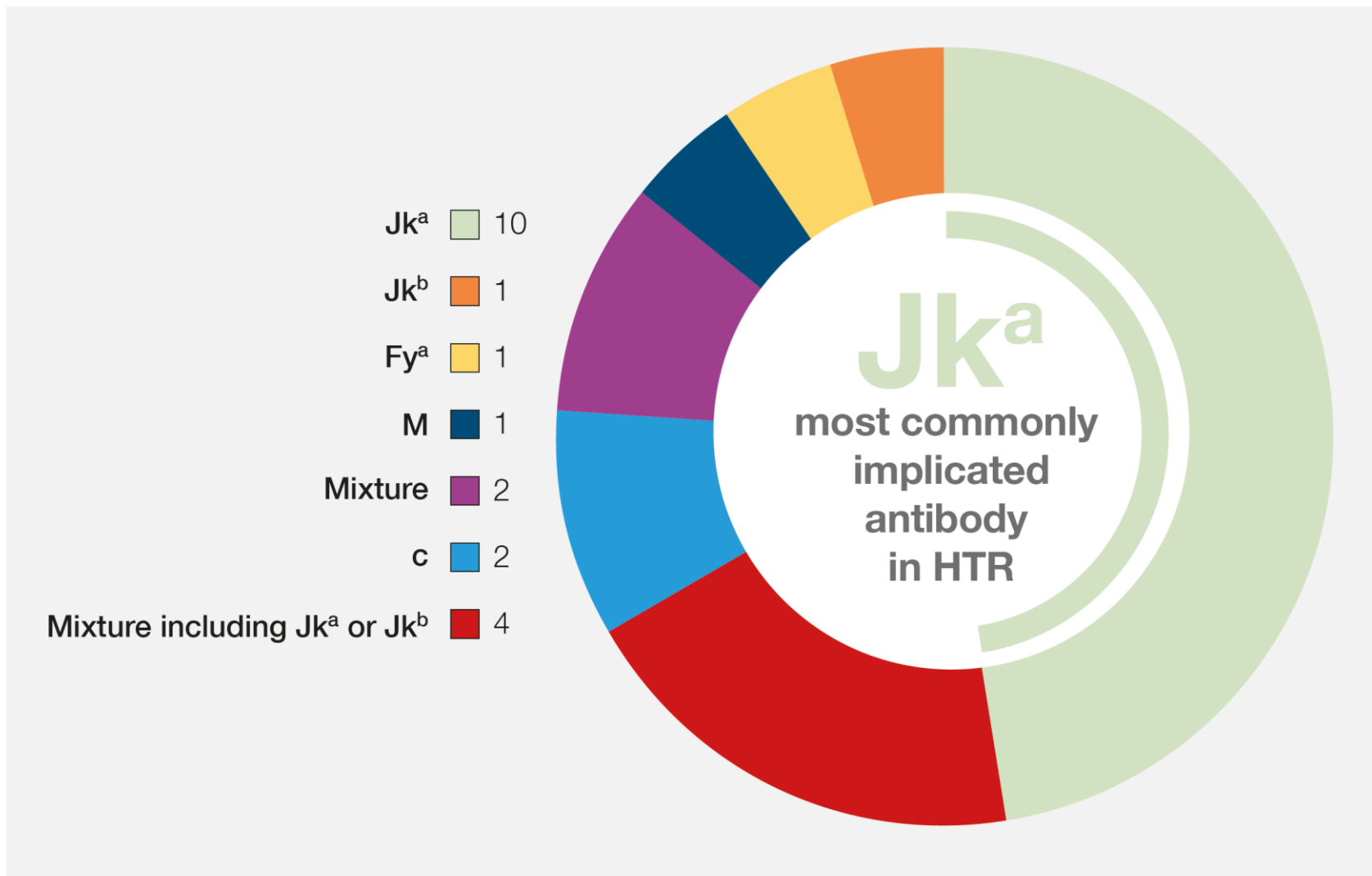


Laboratory indications detected in DHTR in 2018

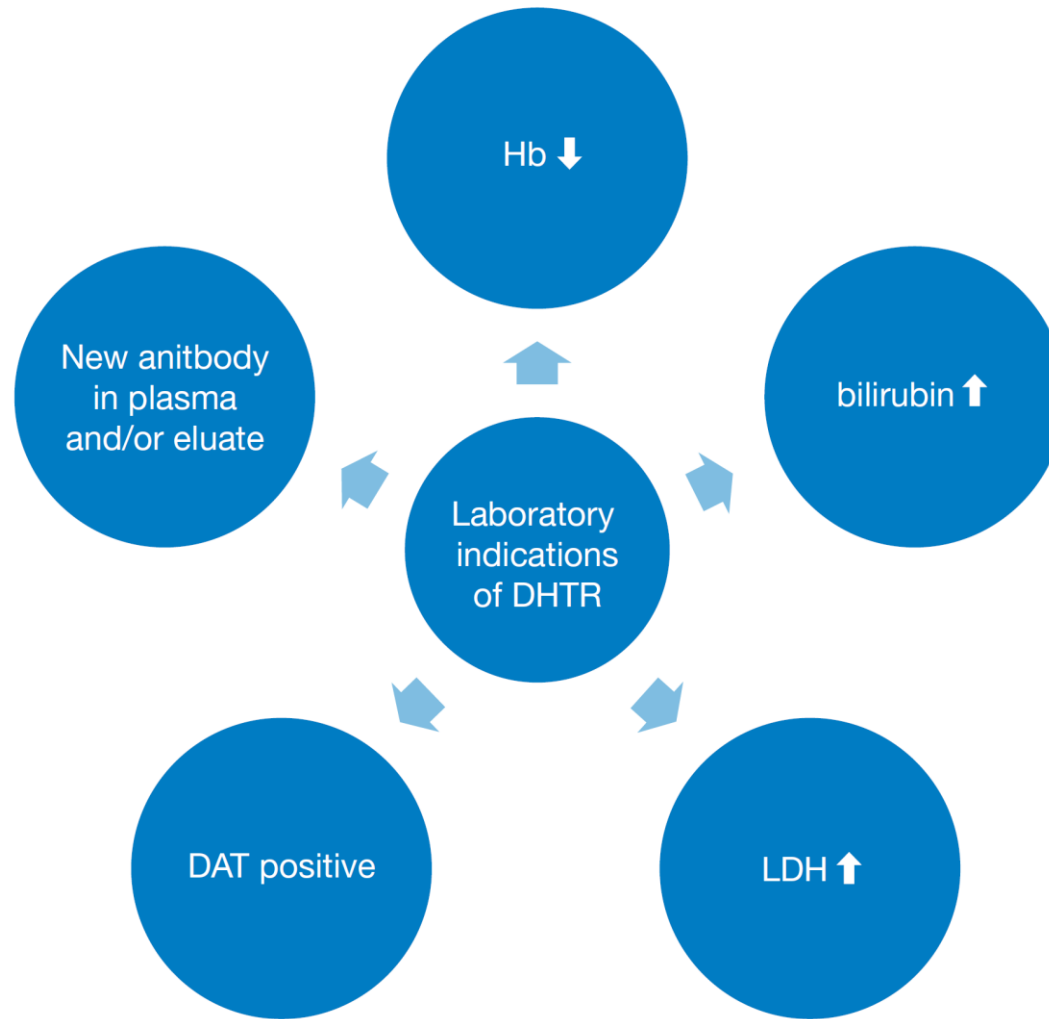


DAT=direct antiglobulin test; Hb=haemoglobin; LDH=lactate dehydrogenase

Antibodies implicated in DHTR in 2018

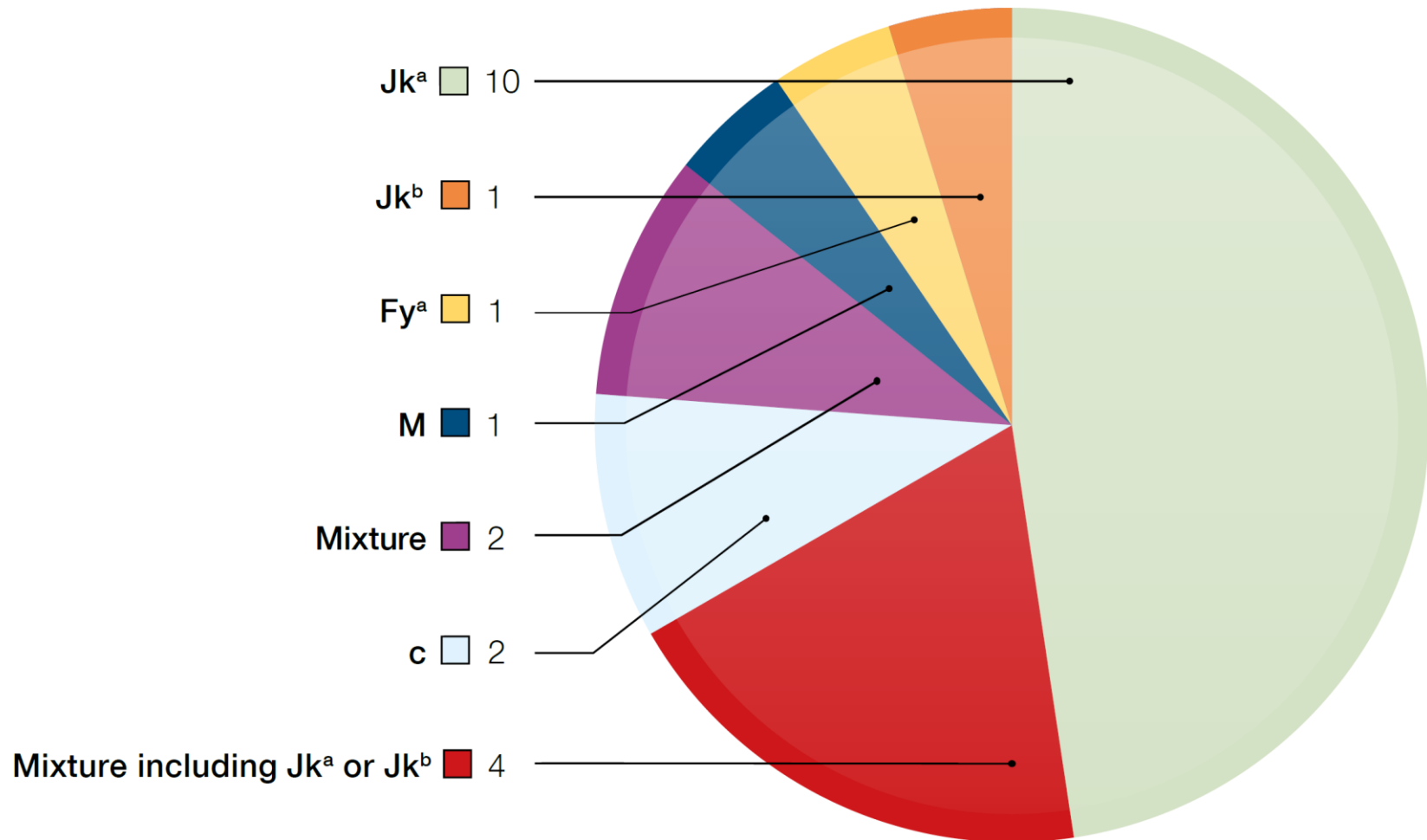


Laboratory indications of DHTR

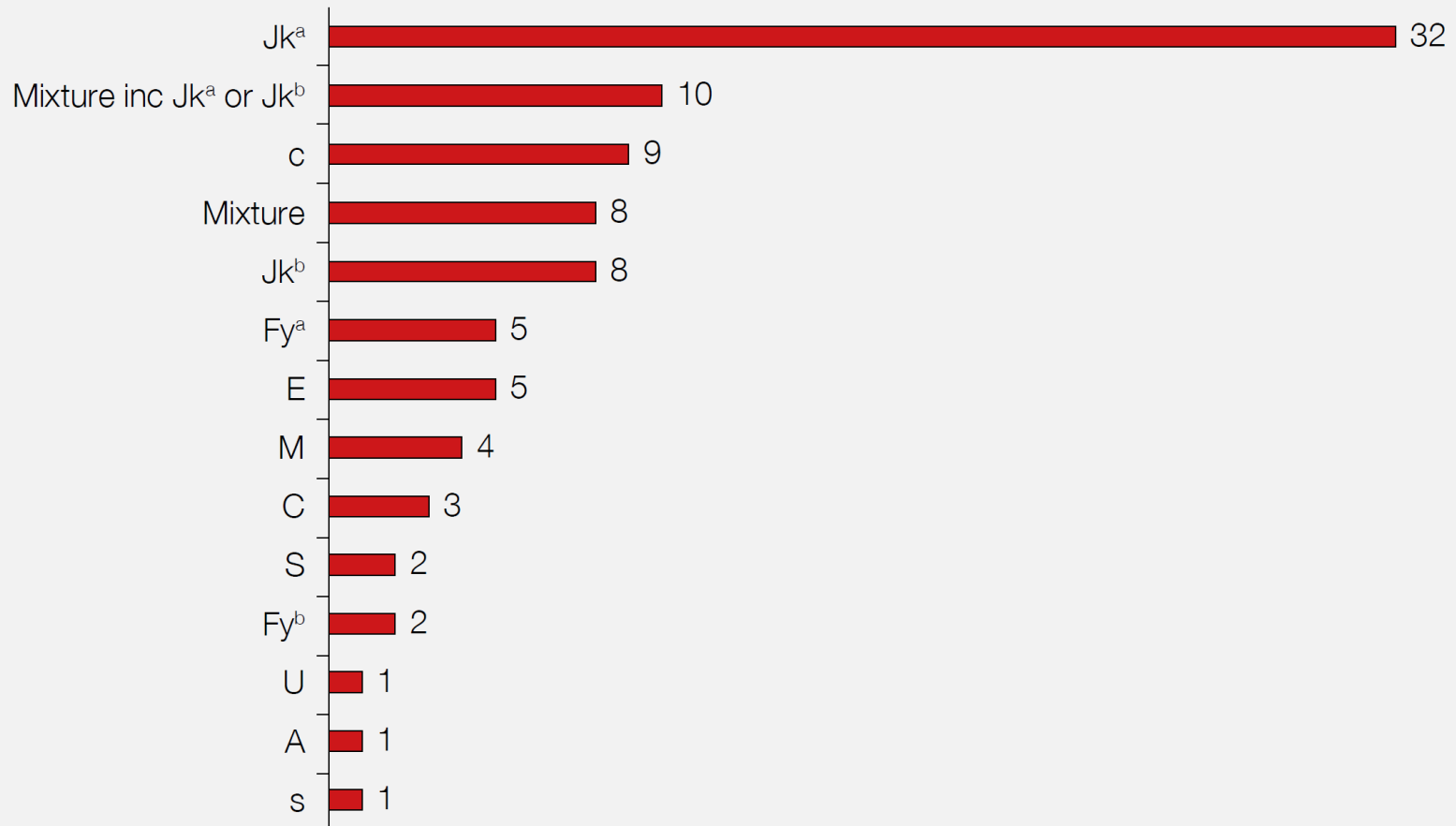


DHTR=delayed haemolytic transfusion reaction; Hb=haemoglobin; DAT=direct antiglobulin test; LDH=lactate dehydrogenase

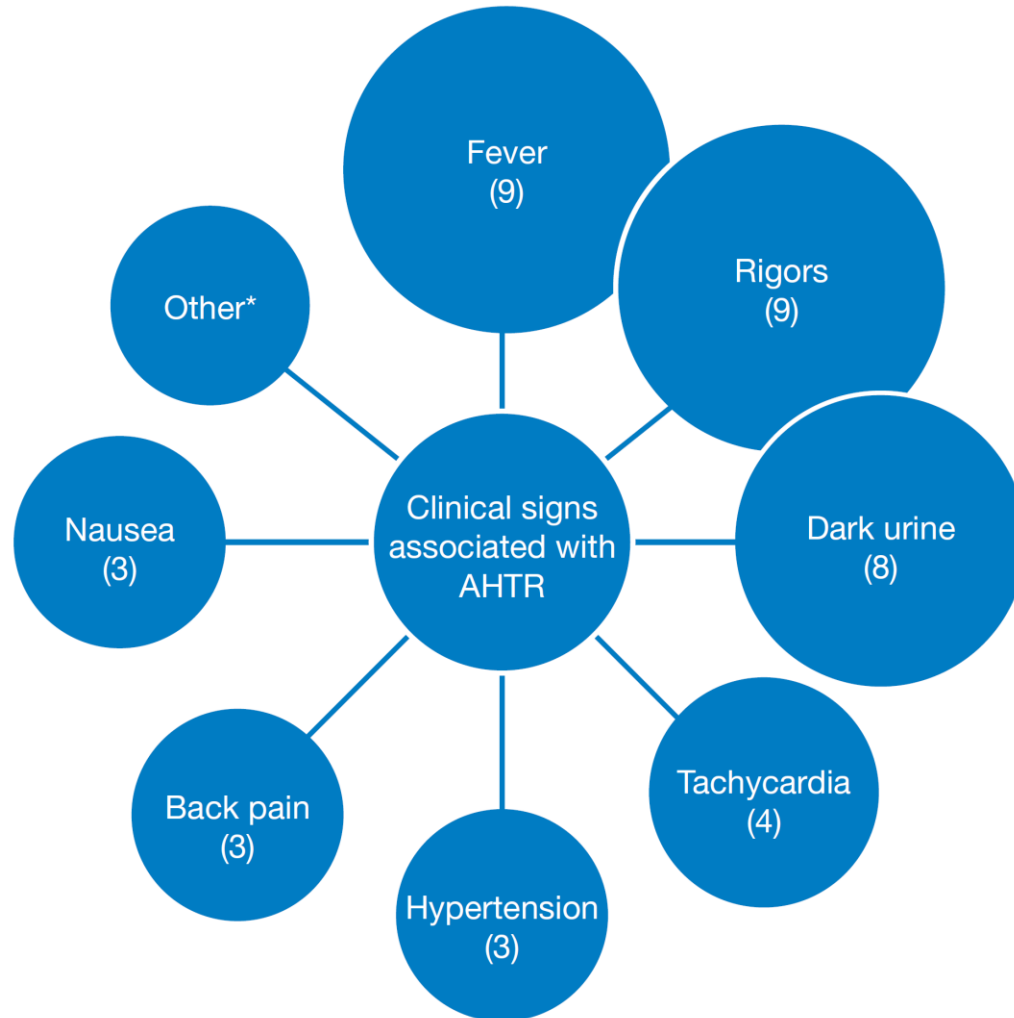
Antibodies implicated in DHTR in 2017



Antibodies implicated in DHTR 2013-2017



Clinical signs associated with AHTR in 2016



**Other=jaundice; dyspnoea; hypotension; chest pain; elevated respirations; chills (<3 each)*