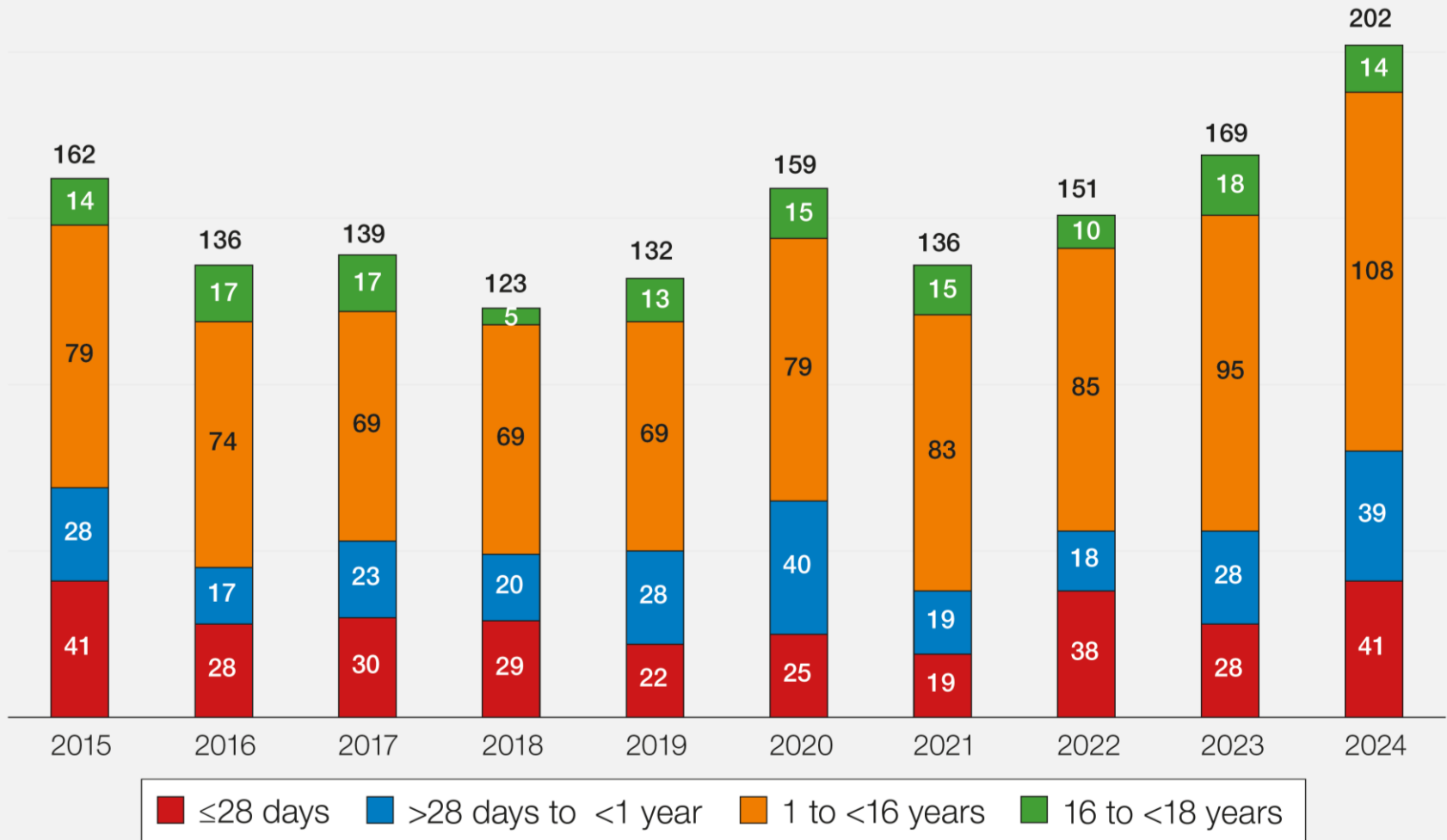


Paediatric Cases

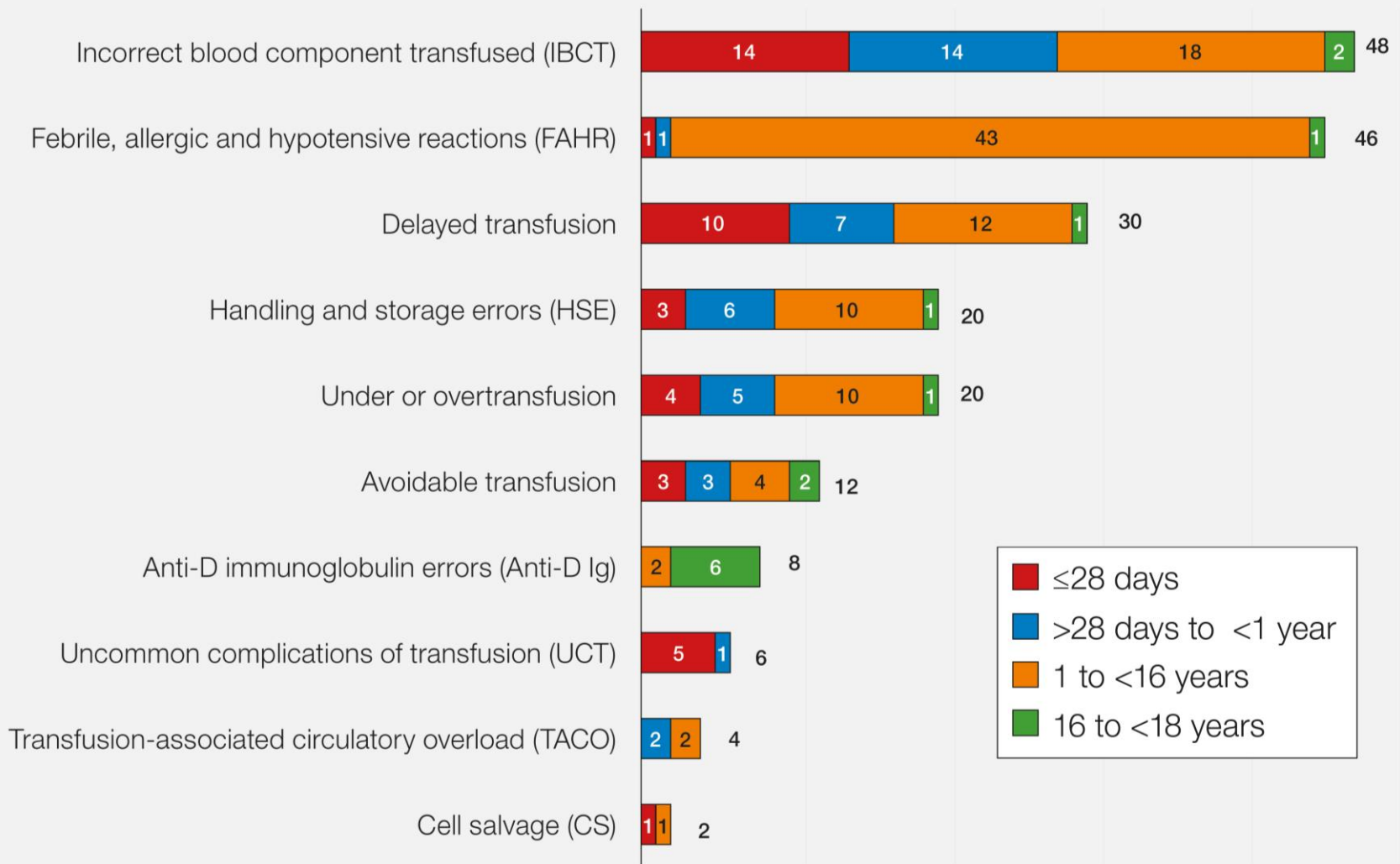
FIGURES FROM THE ANNUAL SHOT REPORTS 2020-2024

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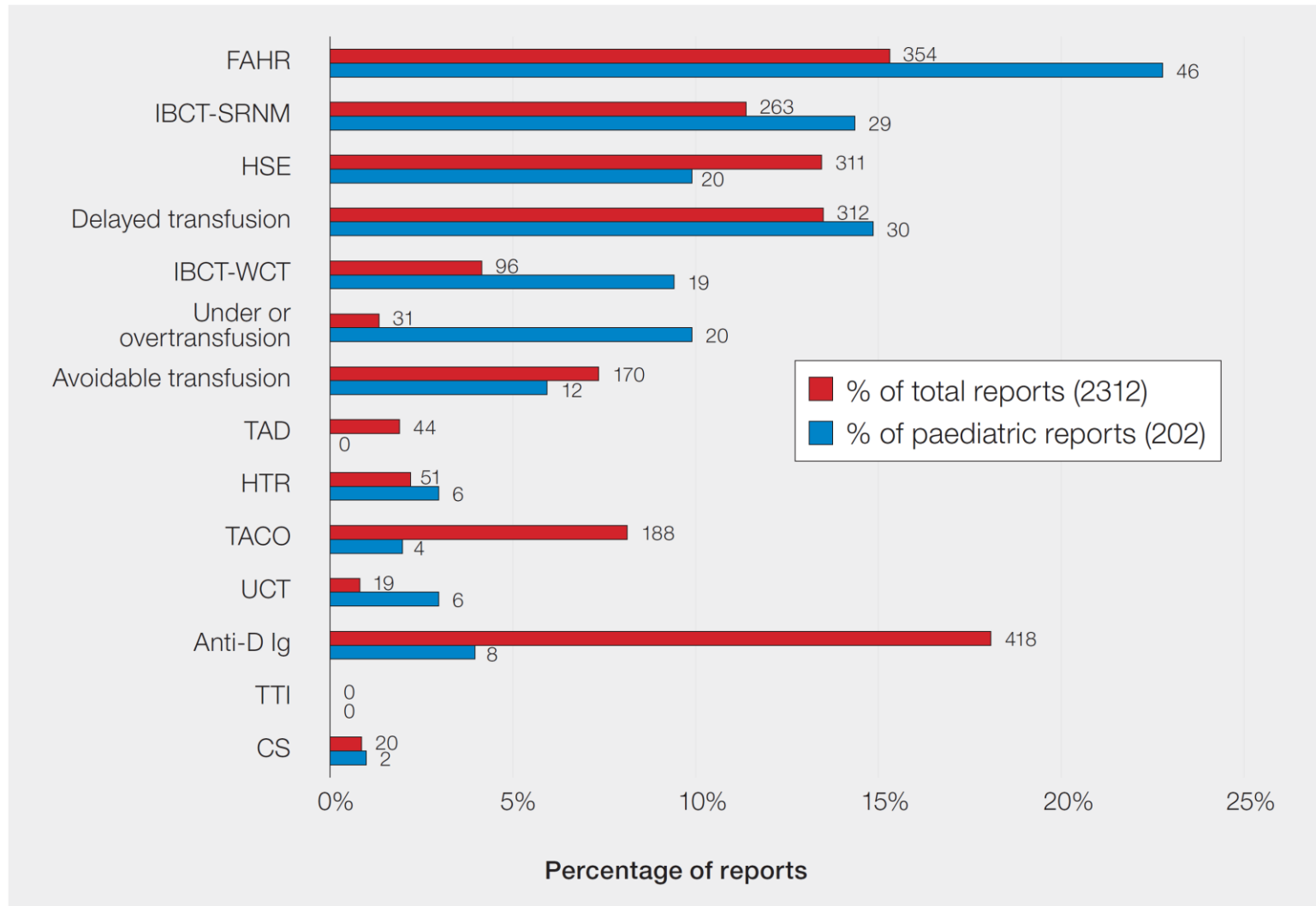
Trends in paediatric reports 2015-2024



Summary of paediatric cases by category and age in 2024 (n=202)

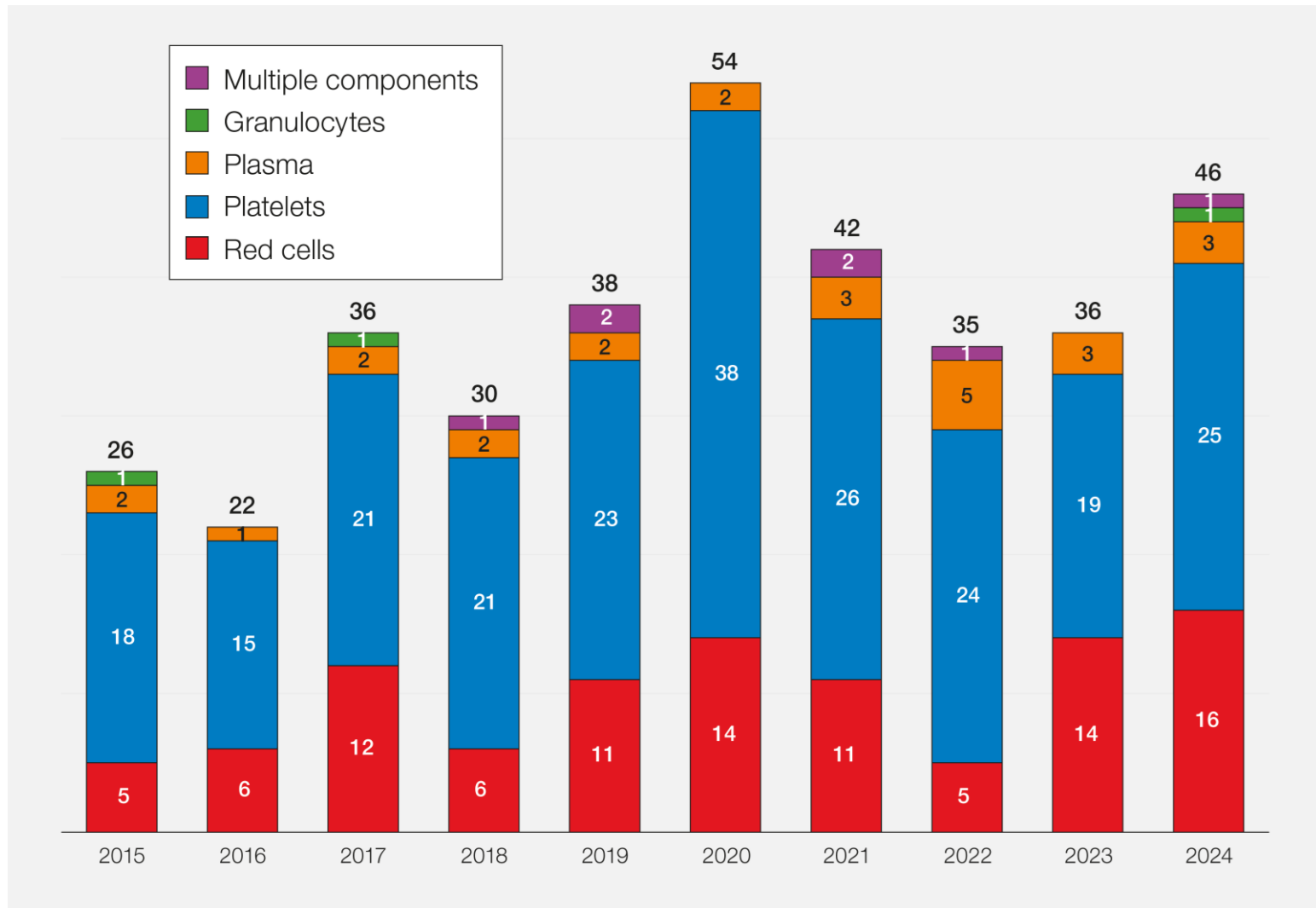


Percentages of paediatric and total reports in each category in 2024 (n=202)



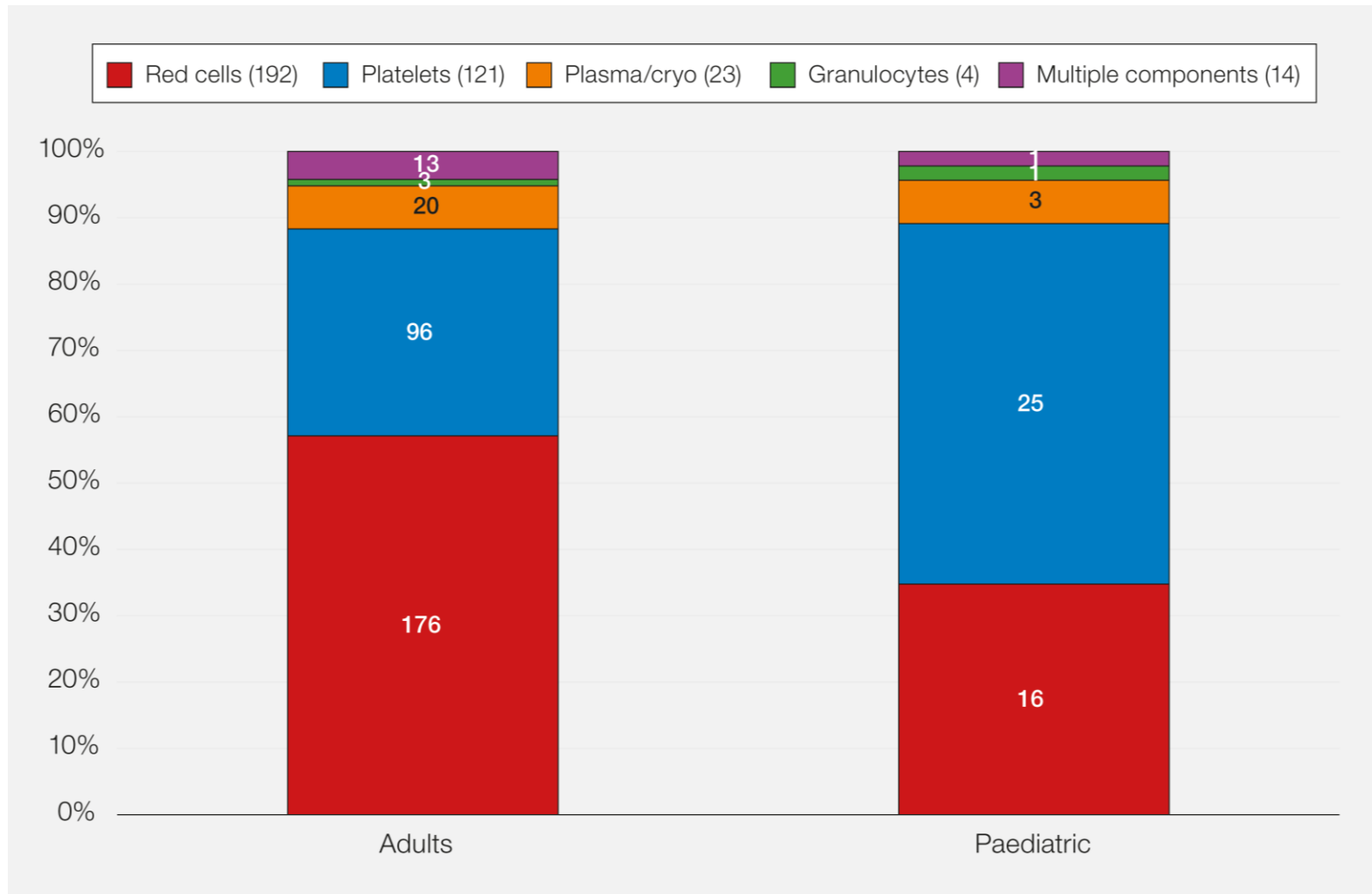
CS=cell salvage; FAHR=febrile allergic and hypotensive reactions; HSE=handling and storage errors; HTR=haemolytic transfusion reactions; IBCT-SRNM=incorrect blood component transfused-specific requirements not met; IBCT-WCT=IBCT-wrong component transfusion; Ig=immunoglobulin; TACO=transfusion-associated circulatory overload; TAD=transfusion-associated dyspnoea; TRALI=transfusion-related acute lung injury; TTI=transfusion-transmitted infection; UCT=uncommon complications of transfusion

Summary of paediatric FAHR reports by component from 2015-2024



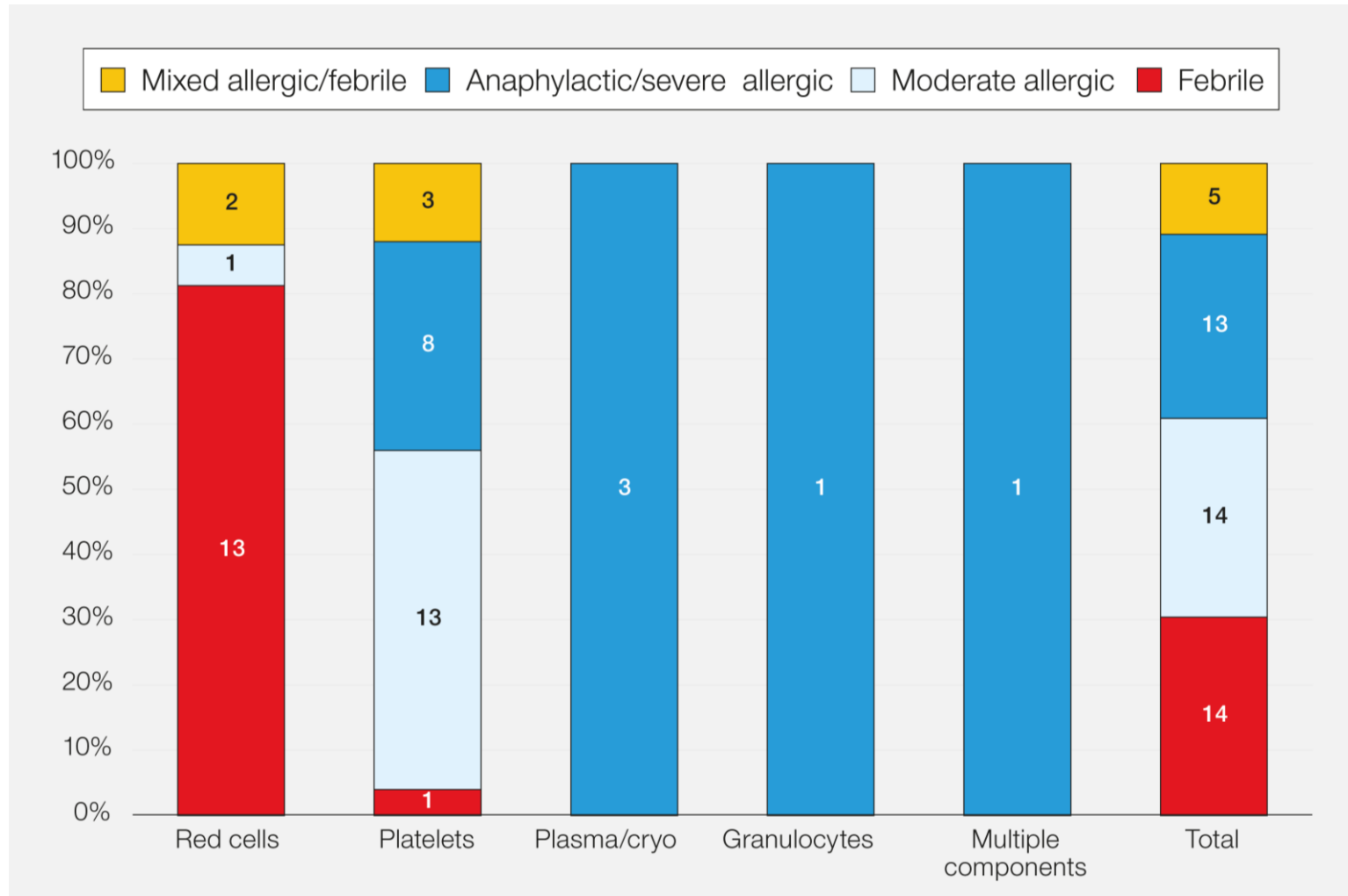
Paediatric FAHR reports in 2024 (n=46)

a: Comparison of proportions of adult and paediatric reports by component types

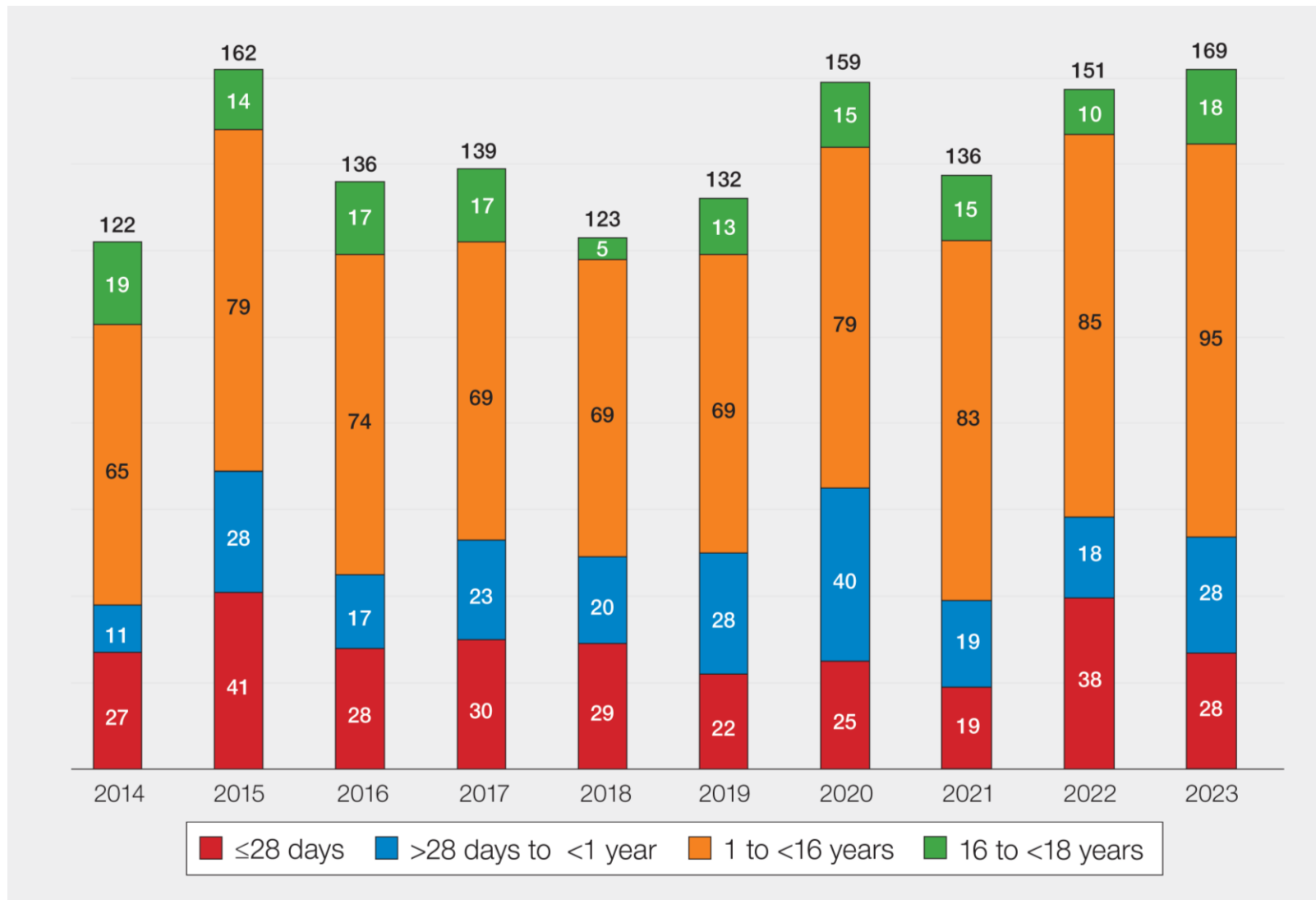


Paediatric FAHR reports in 2024 (n=46)

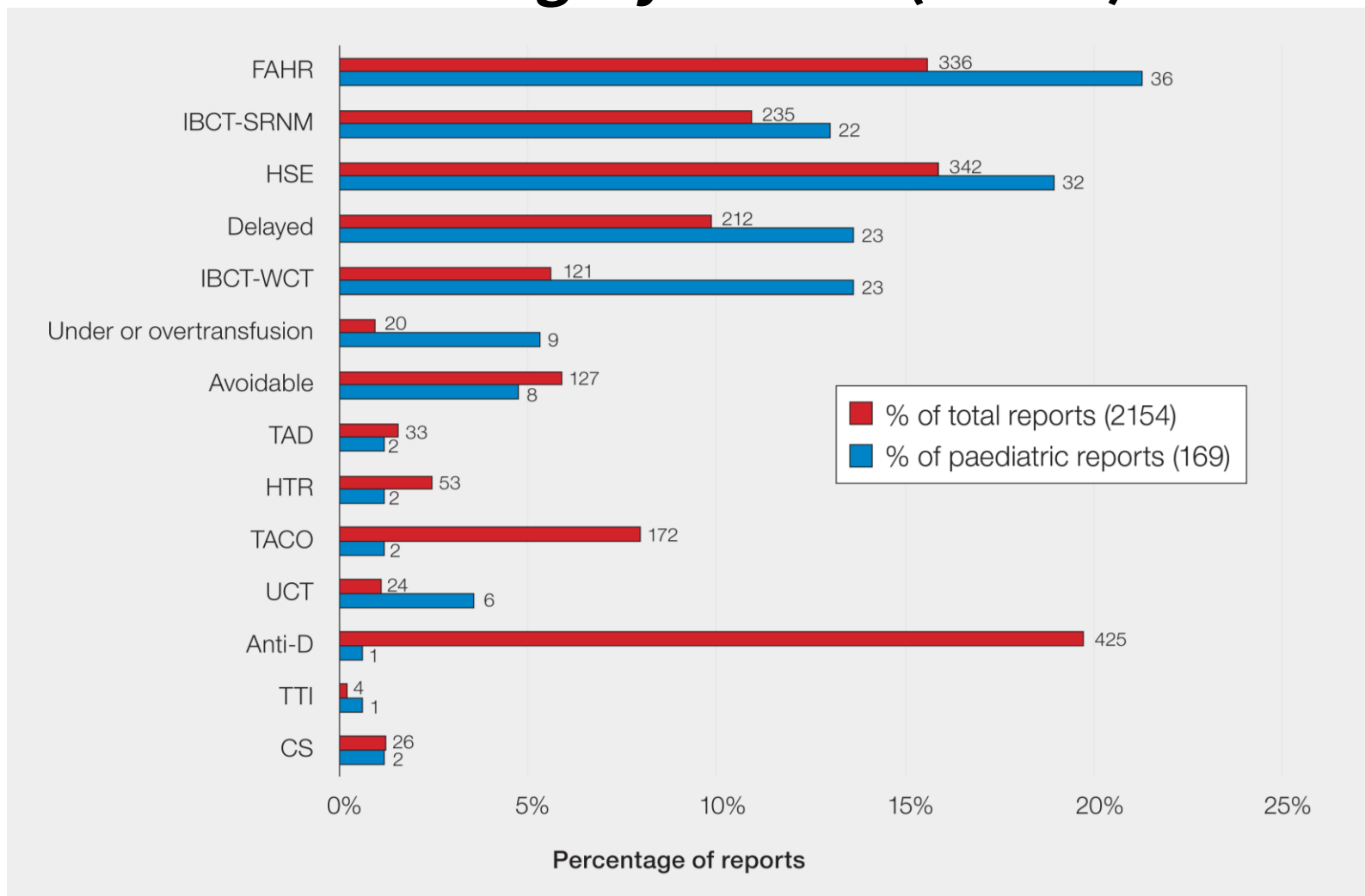
b: Percentages of reaction types in paediatric FAHR related to different component types



Trends in paediatric reports 2014-2023

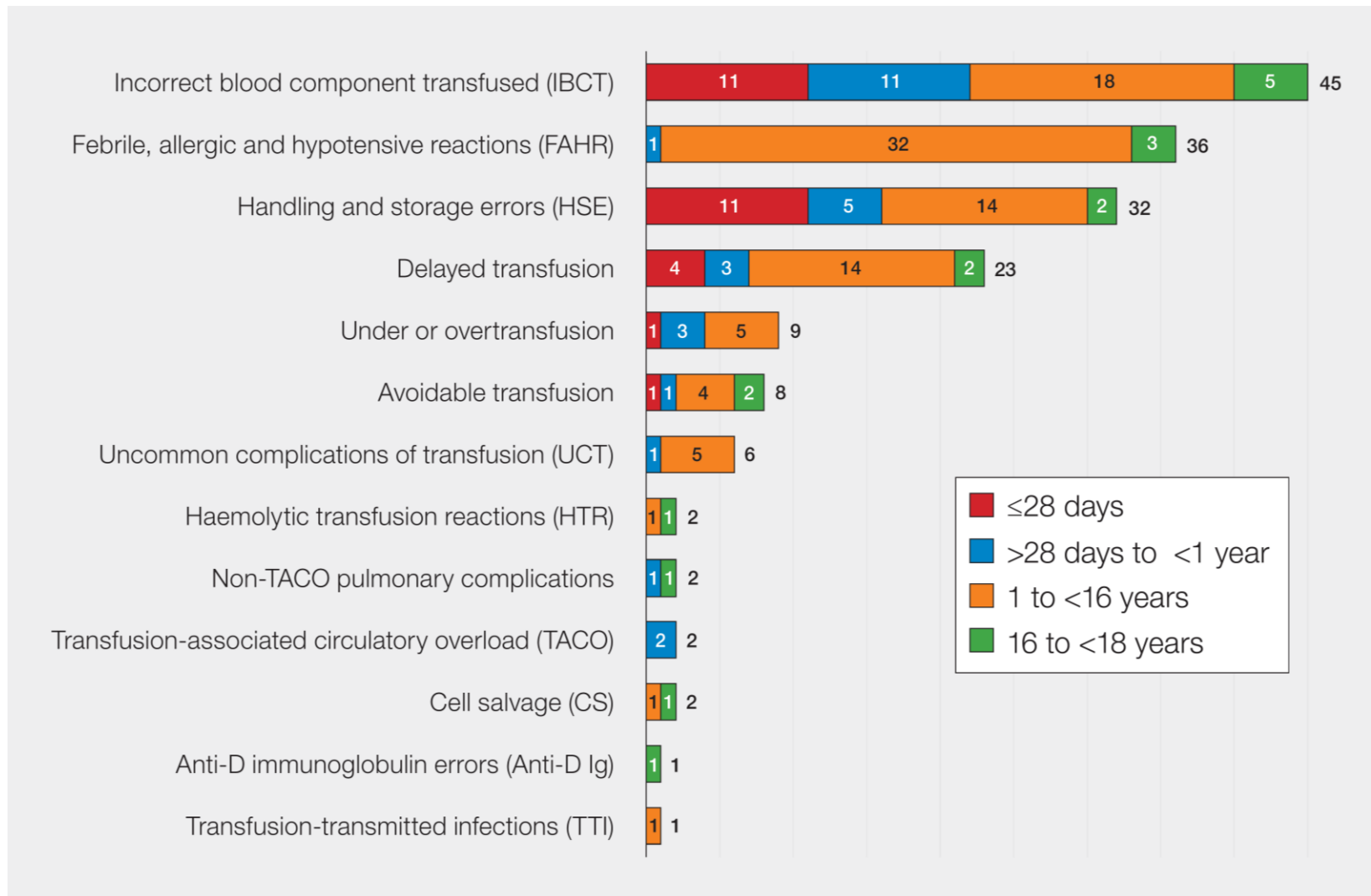


Percentages of paediatric and total reports in each category in 2023 (n=169)

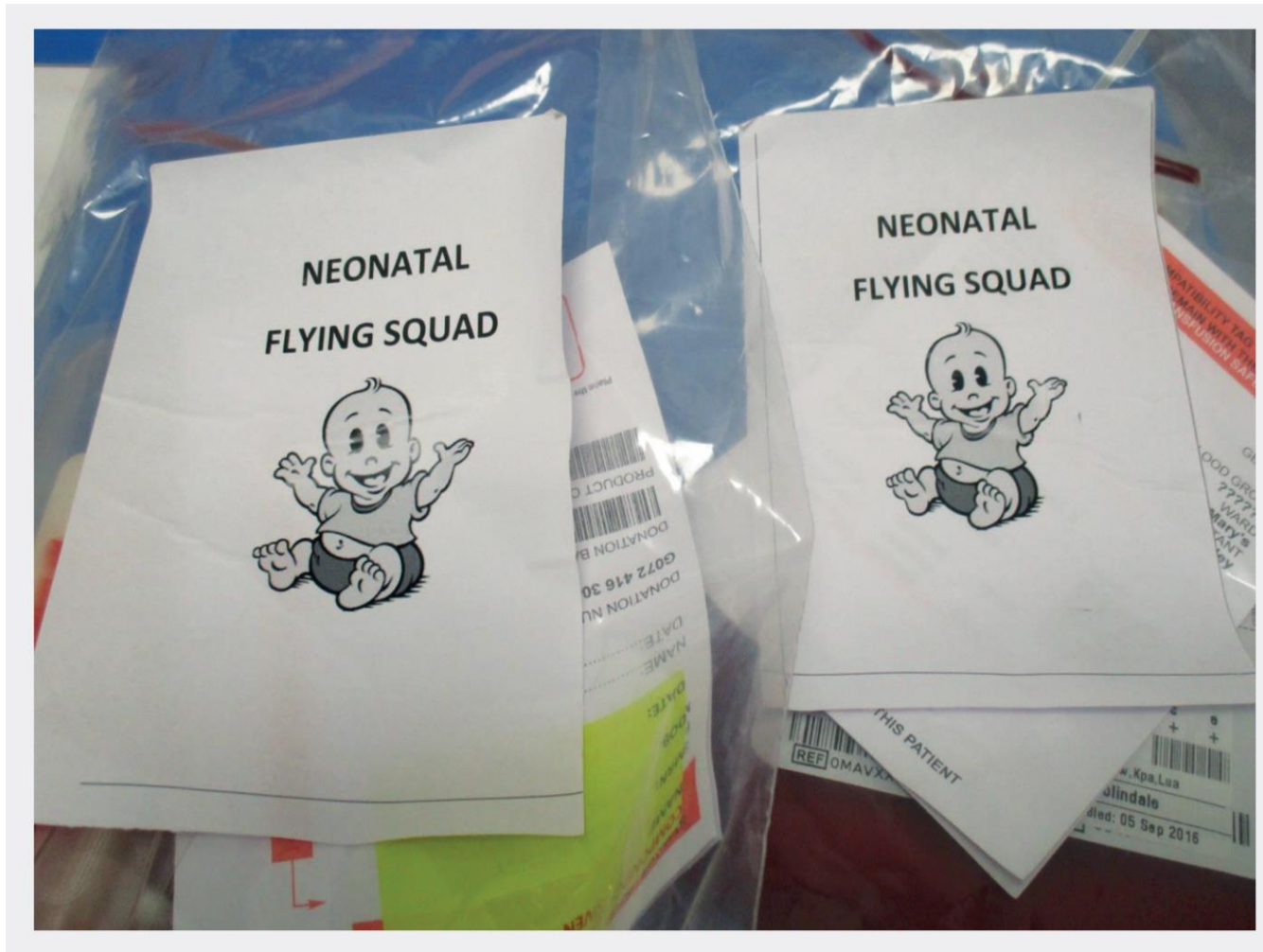


CS=cell salvage; FAHR=febrile, allergic and hypotensive reactions; HSE=handling and storage errors; HTR=haemolytic transfusion reactions; IBCT-SRNM=incorrect blood component transfused-specific requirements not met; IBCT-WCT=IBCT-wrong component transfused; TACO=transfusion-associated circulatory overload; TAD=transfusion-associated dyspnoea; TRALI=transfusion-related acute lung injury; TTI=transfusion-transmitted infection; UCT=uncommon complications of transfusion

Summary of paediatric cases by category and age in 2023 (n=169)

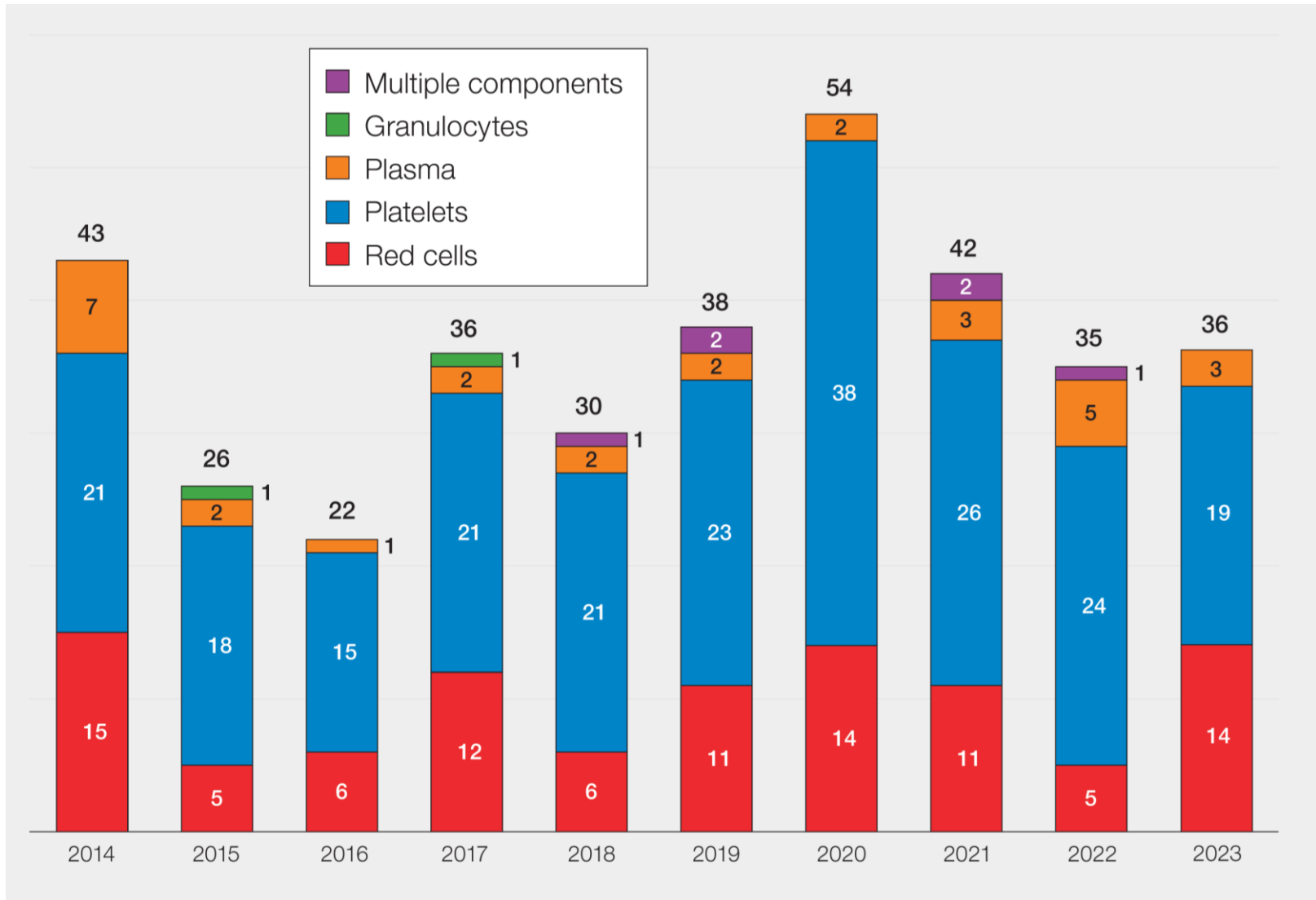


Example of how to distinguish neonatal from adult components in a satellite refrigerator



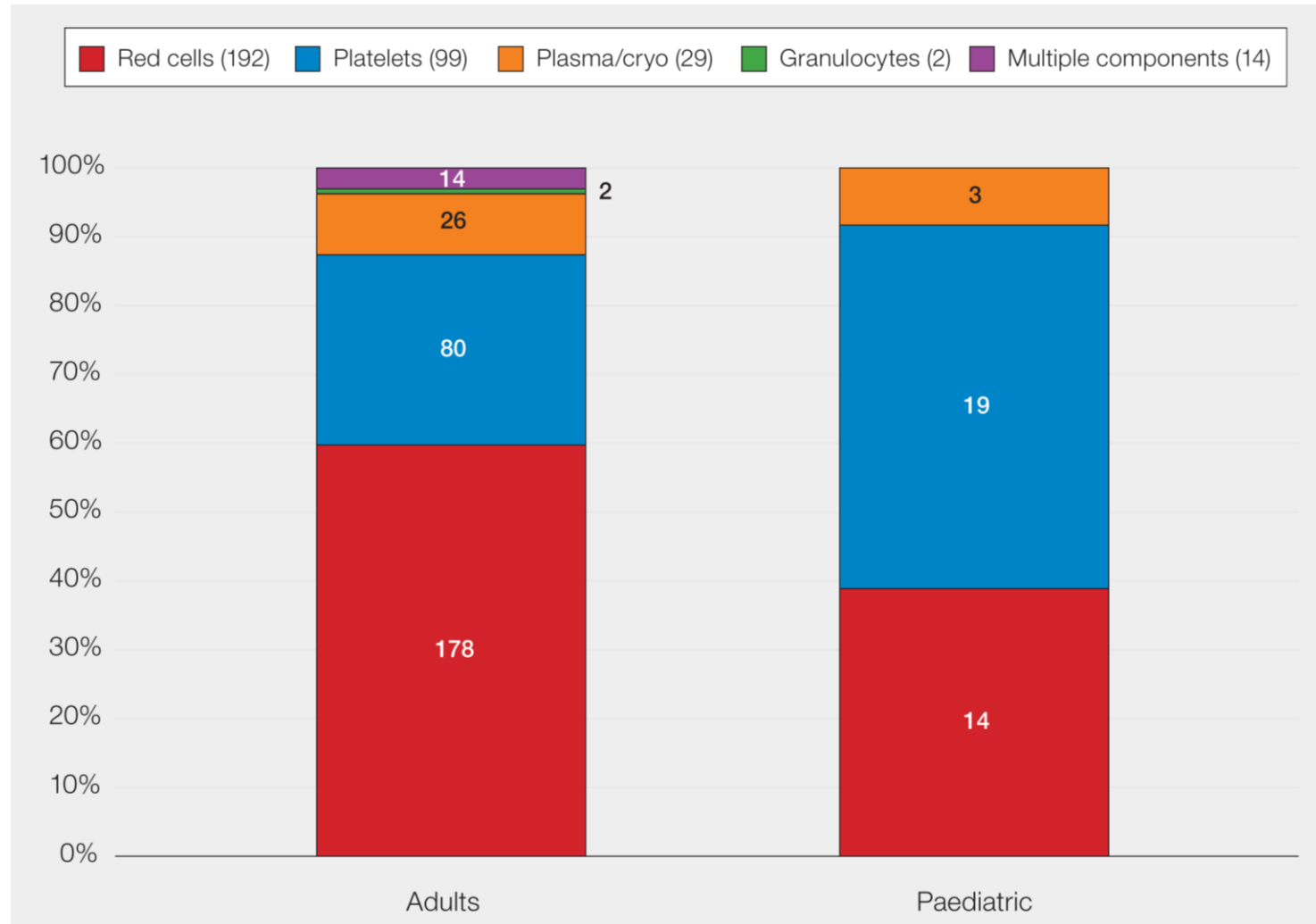
With permission from Rachel Moss, transfusion practitioner at Great Ormond Street Hospital

Summary of paediatric FAHR reports by component type from 2014-2023



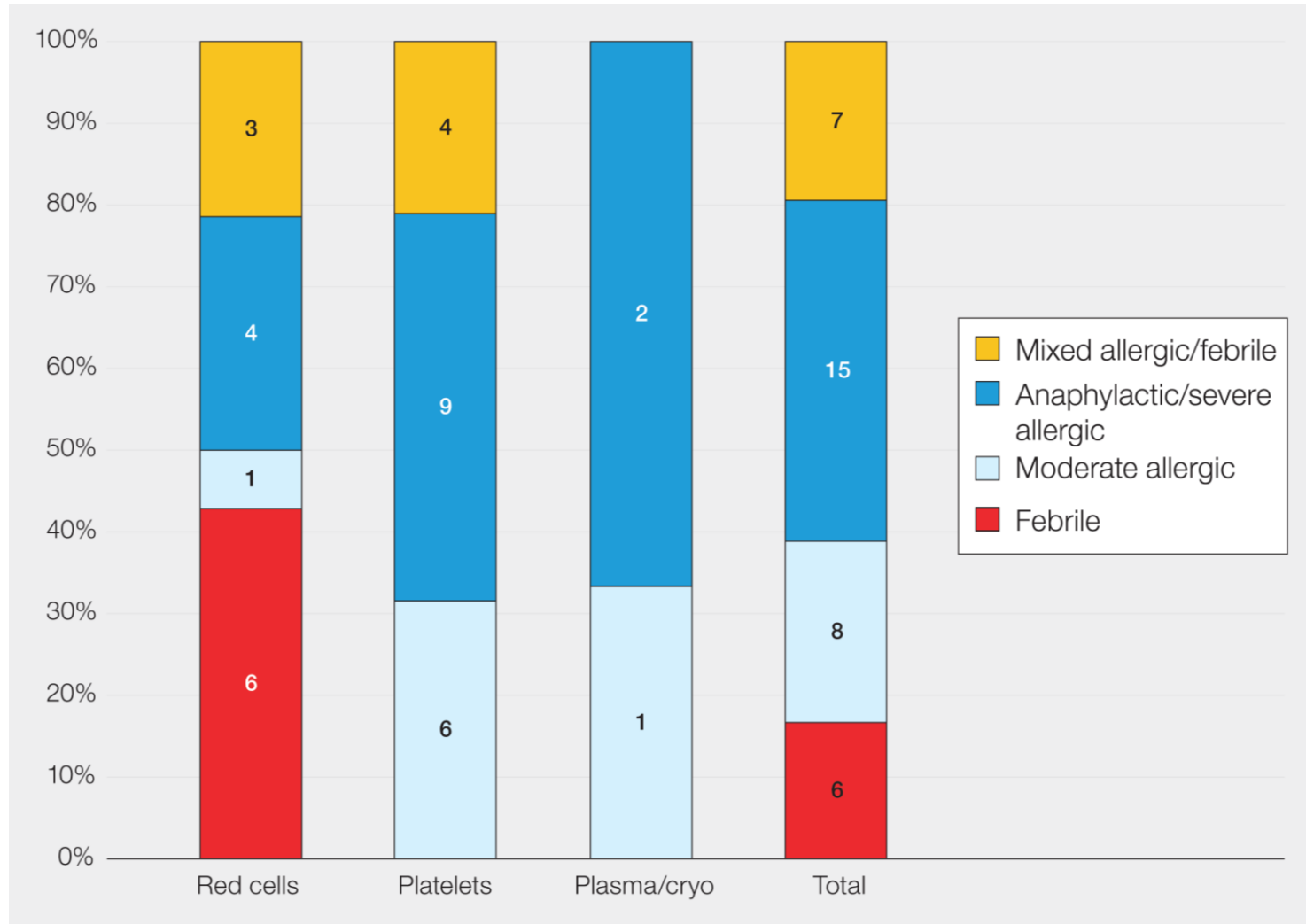
Paediatric febrile, allergic, and hypotensive reports (FAHR) in 2023 (n=36)

a: Comparison of proportions of adult and paediatric

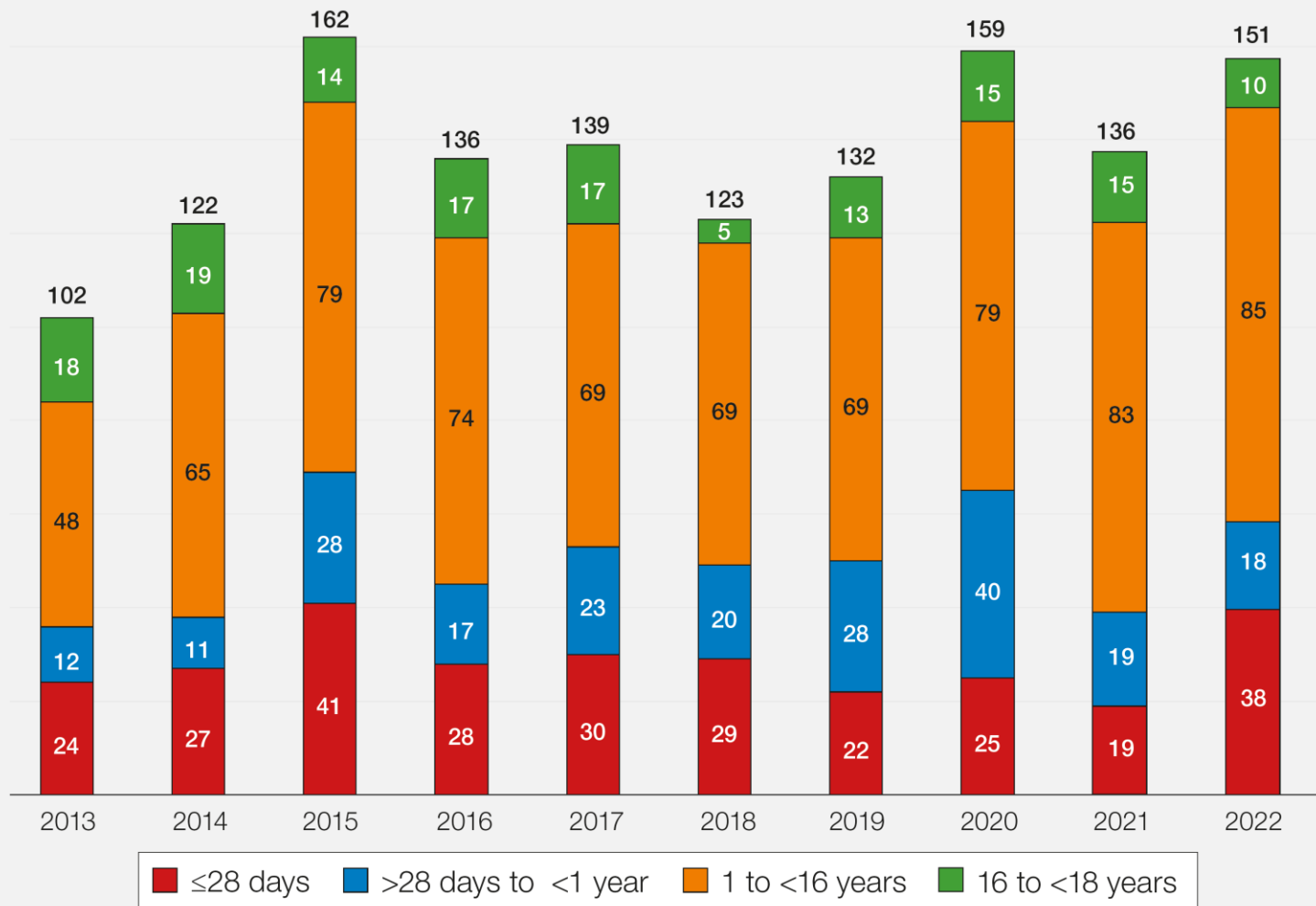


Paediatric FAHR in 2023 (n=36)

b: Percentages of reaction types by paediatric FAHR related to different component types for paediatric reports

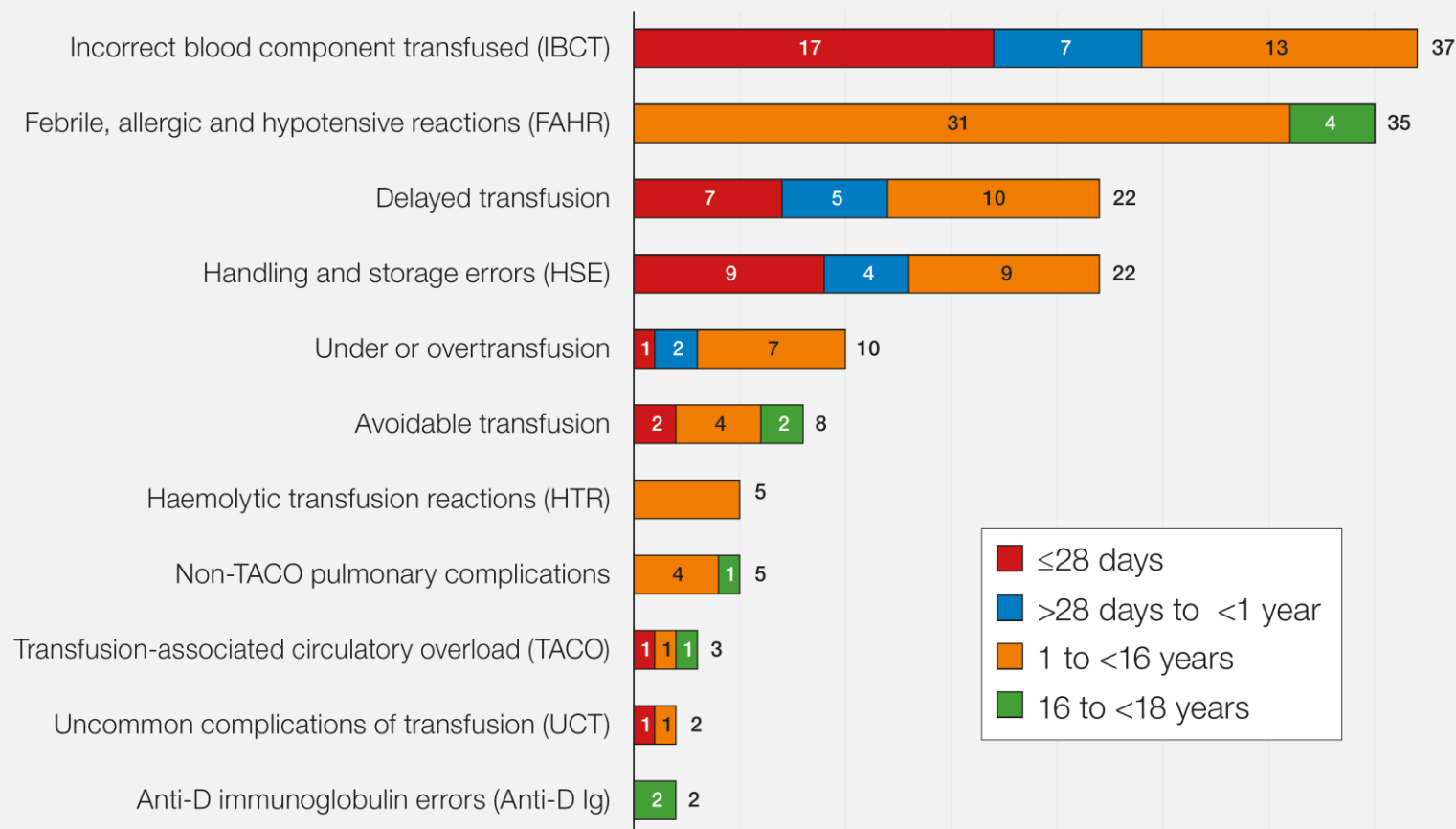


Trends in paediatric reports 2013-2022

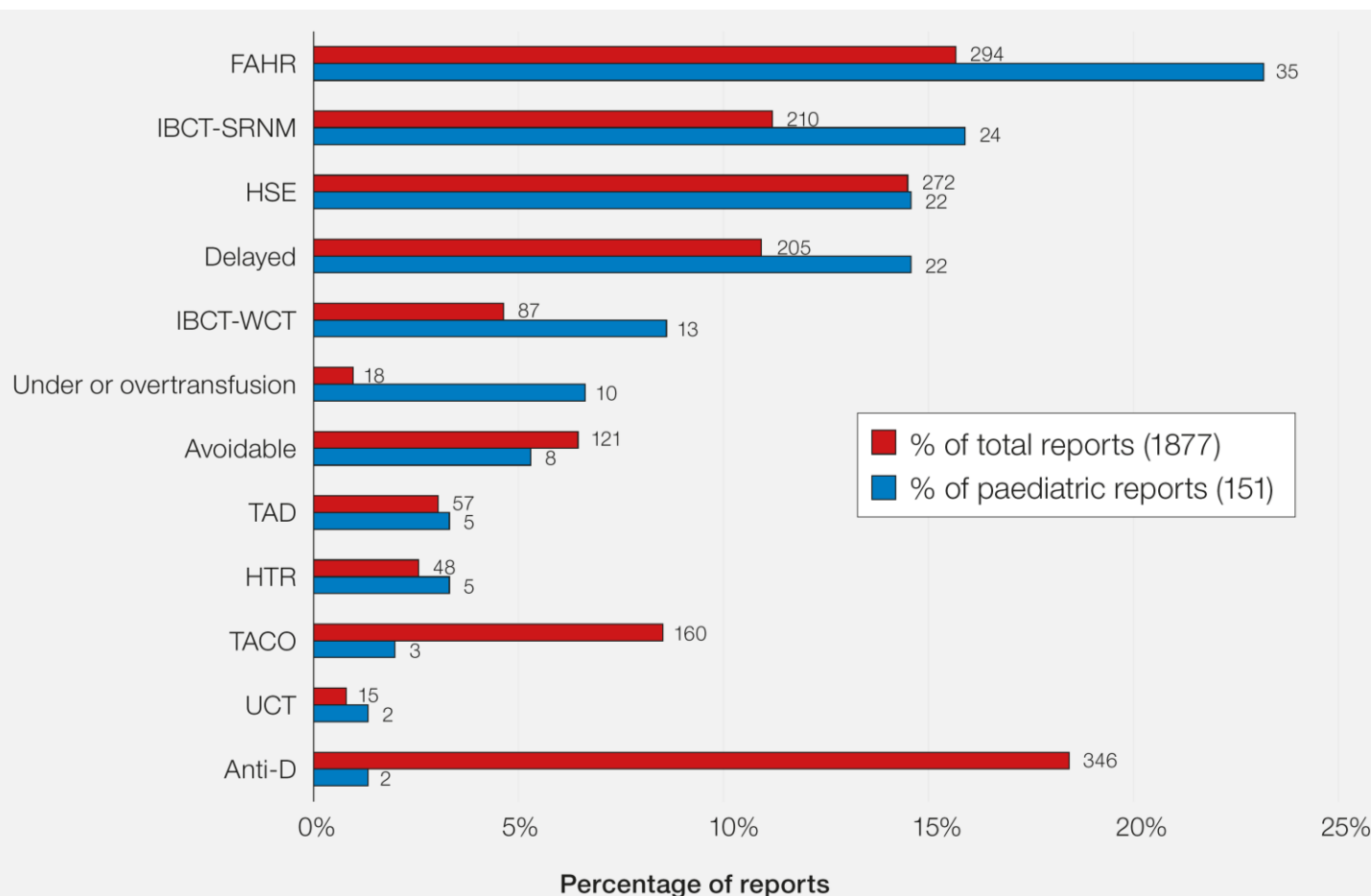


Summary of paediatric cases by category and age

2022

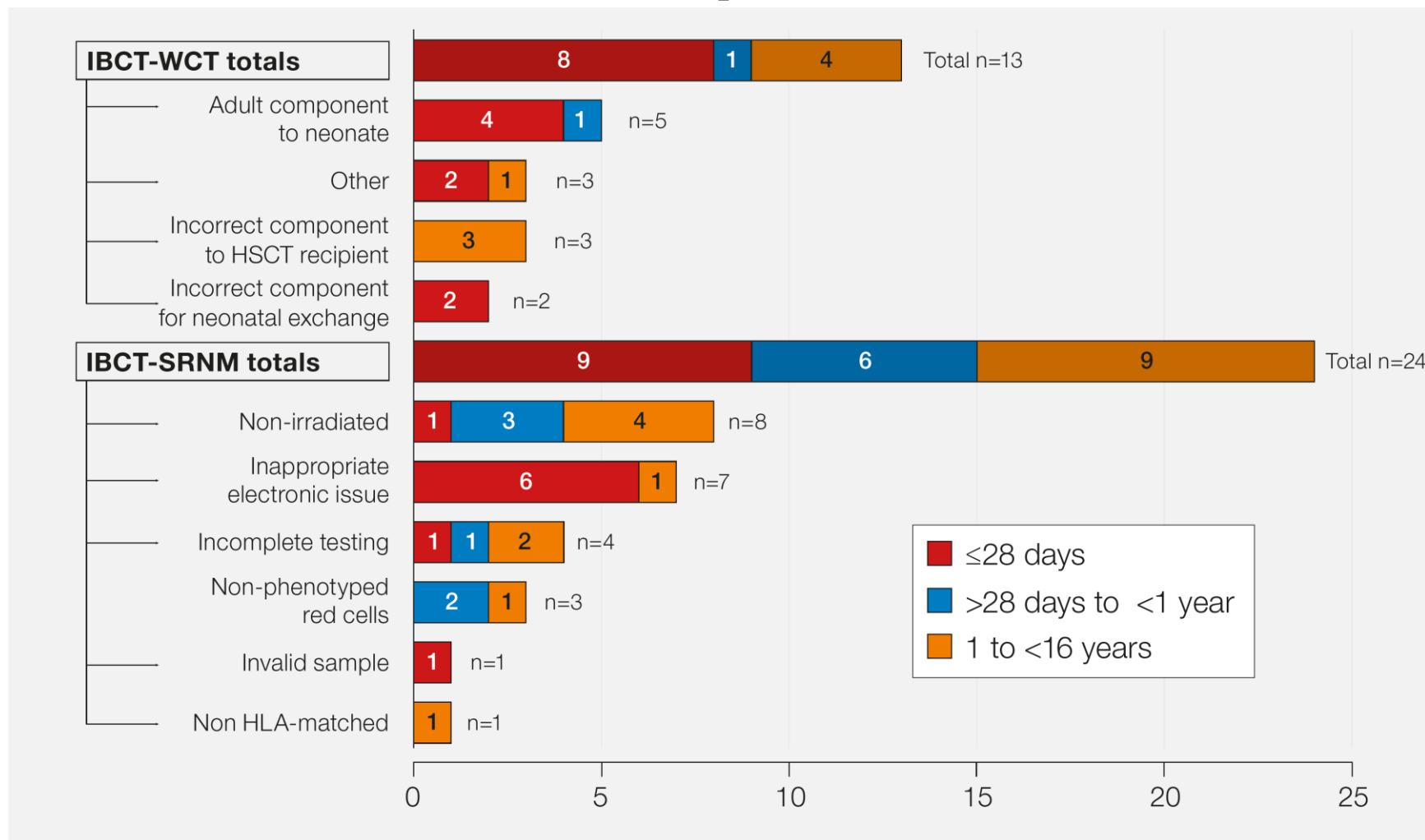


Percentages of paediatric and total reports in each category in 2022



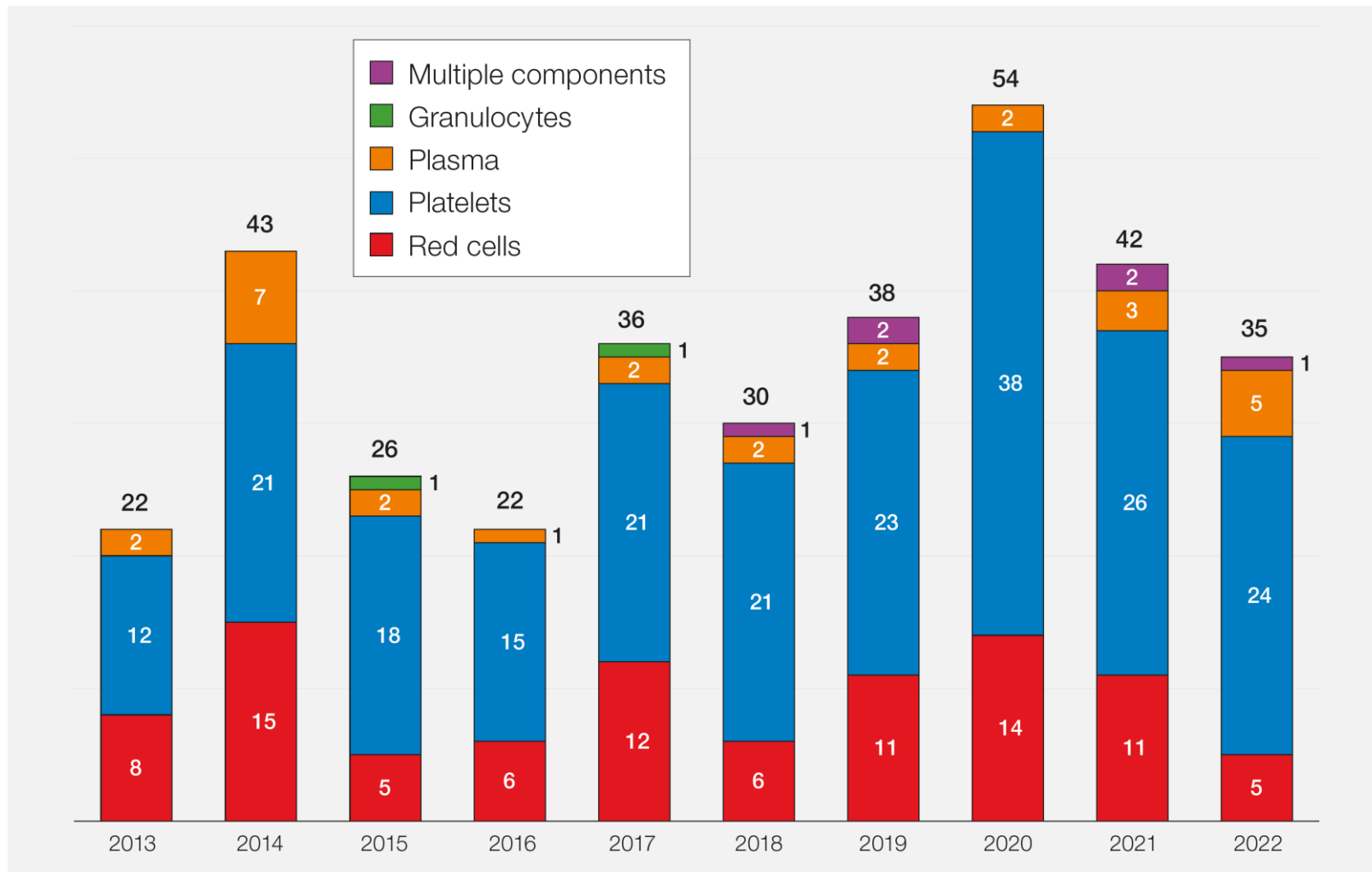
UCT=uncommon complications of transfusion; TRALI=transfusion-related acute lung injury; TAD=transfusion-associated dyspnoea; TACO=transfusion-associated circulatory overload; HTR=haemolytic transfusion reactions; FAHR=febrile, allergic and hypotensive reactions; HSE=handling and storage errors; IBCT-SRNM=incorrect blood component transfused-specific requirements not met; IBCT-WCT=IBCT-wrong component transfused

Breakdown of incorrect blood component transfused reports in 2022

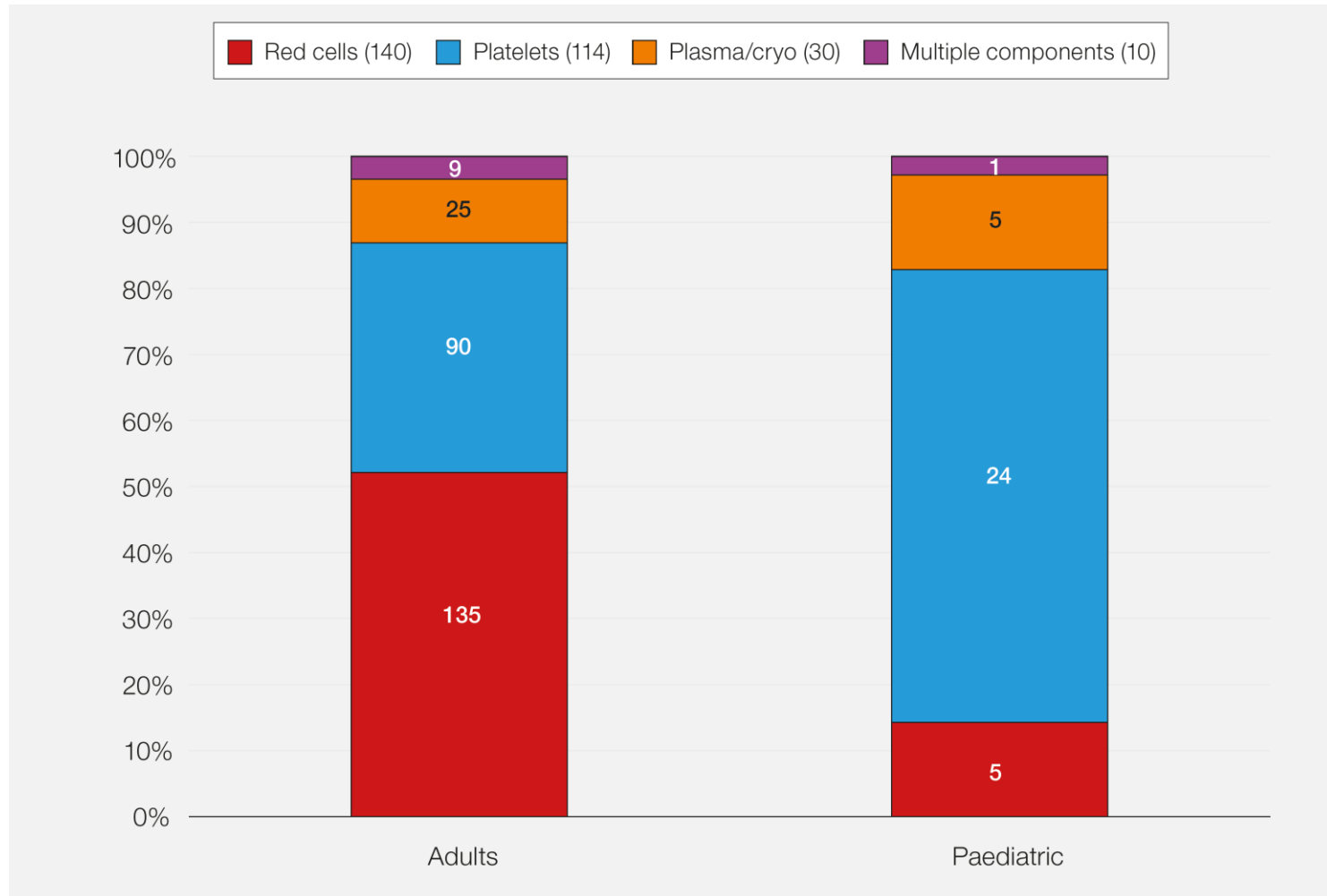


IBCT-WCT=incorrect blood component transfused-wrong component transfused; IBCT-SRNM=IBCT-specific requirements not met; HSCT=haemopoietic stem cell transplant; HLA=human leucocyte antigen

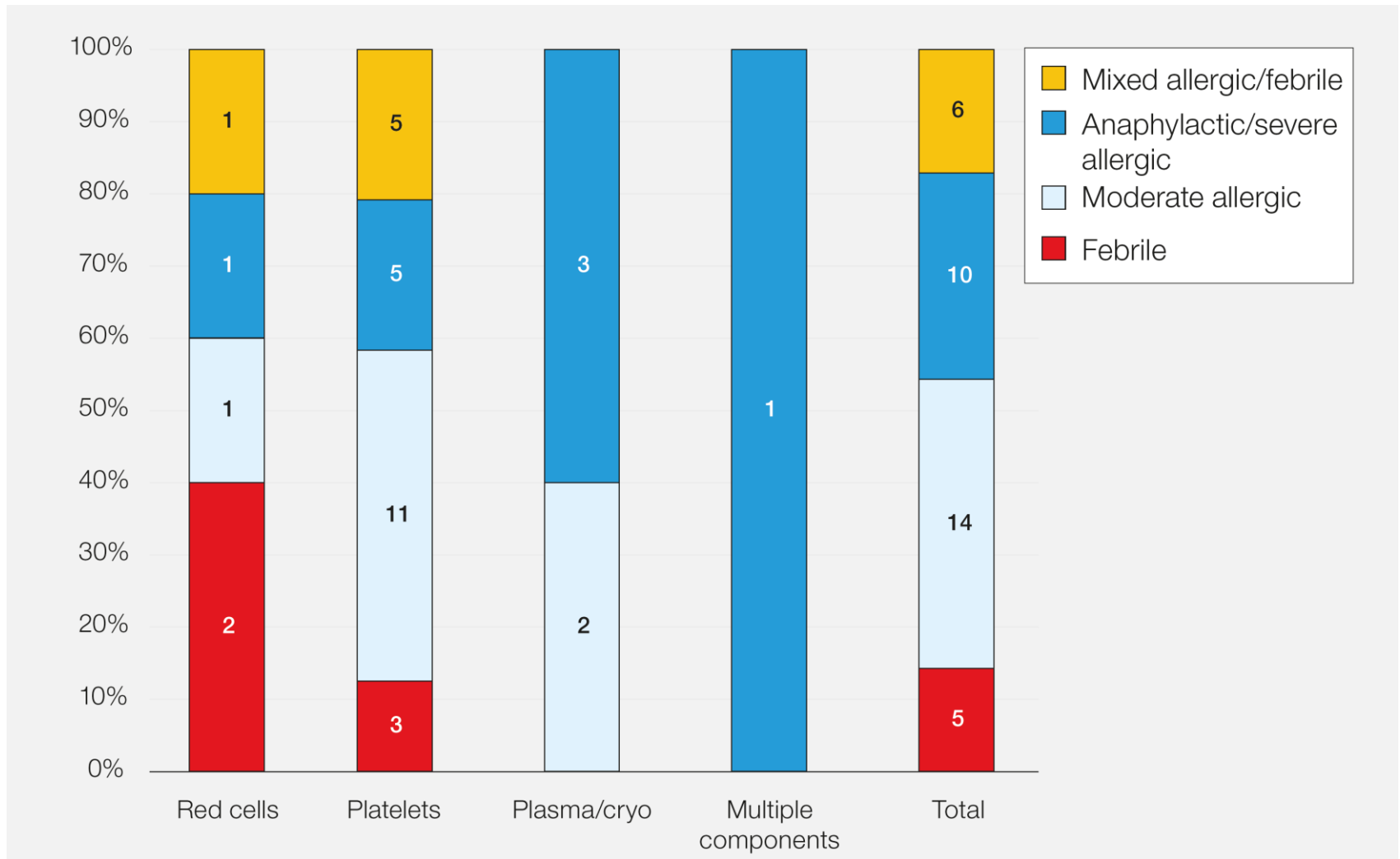
Summary of FAHR reports by component type from 2013 to 2022



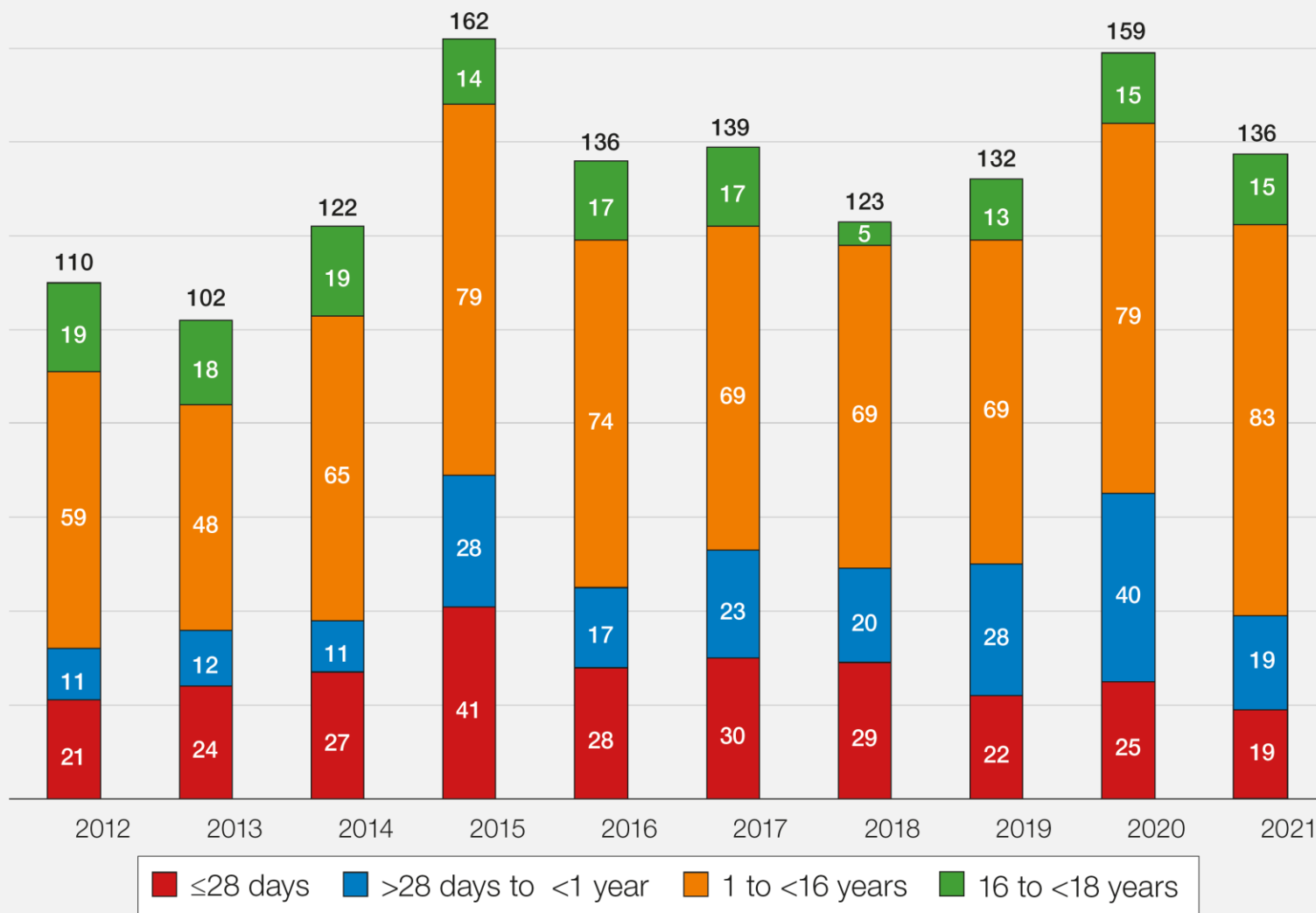
Comparison of proportions of adult and paediatric FAHR related to different components in 2022



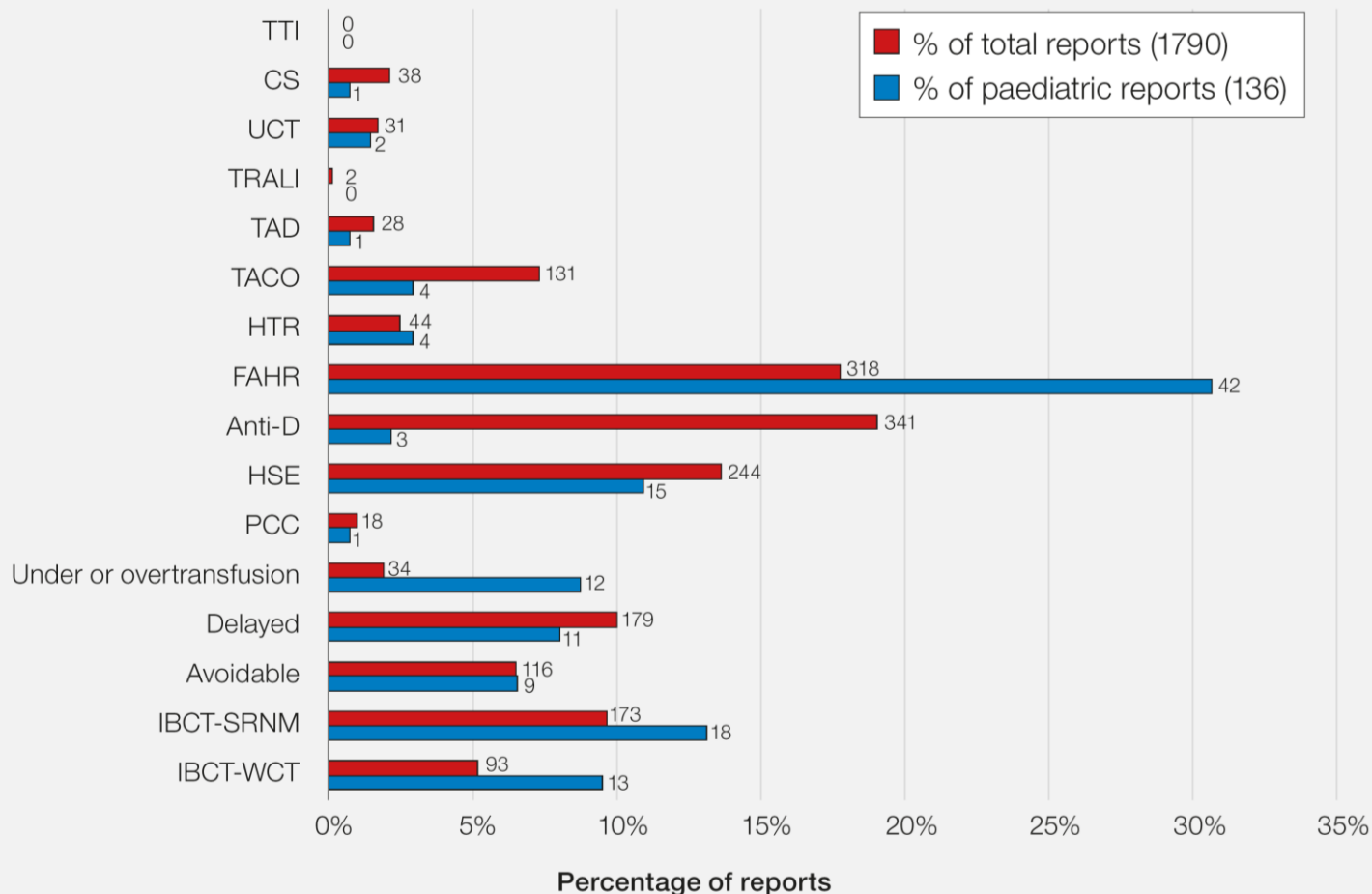
Percentages of reaction types of each component for paediatric reports in 2022



Trends in paediatric reports 2012-2021

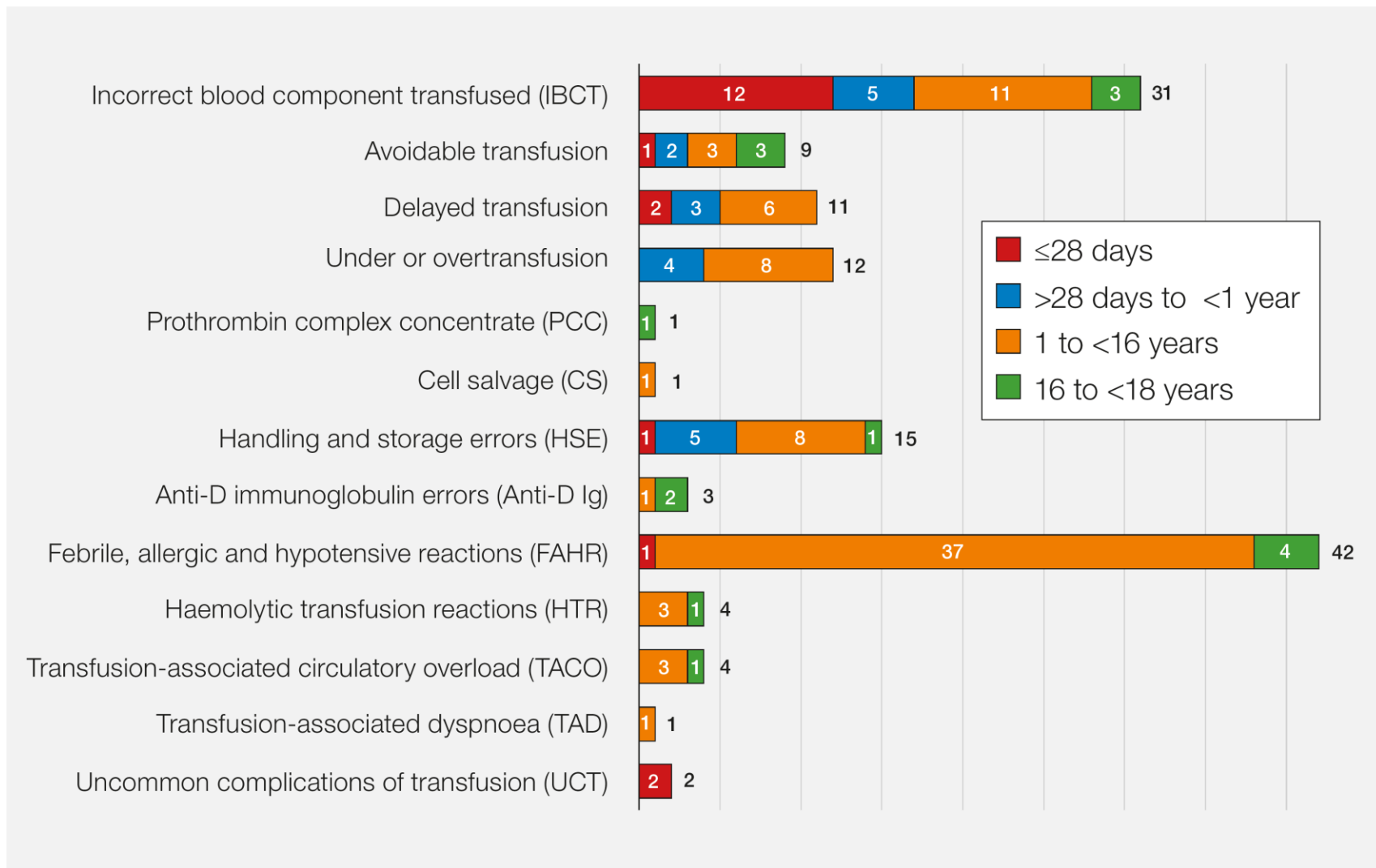


Percentages of paediatric and total reports in each category in 2021

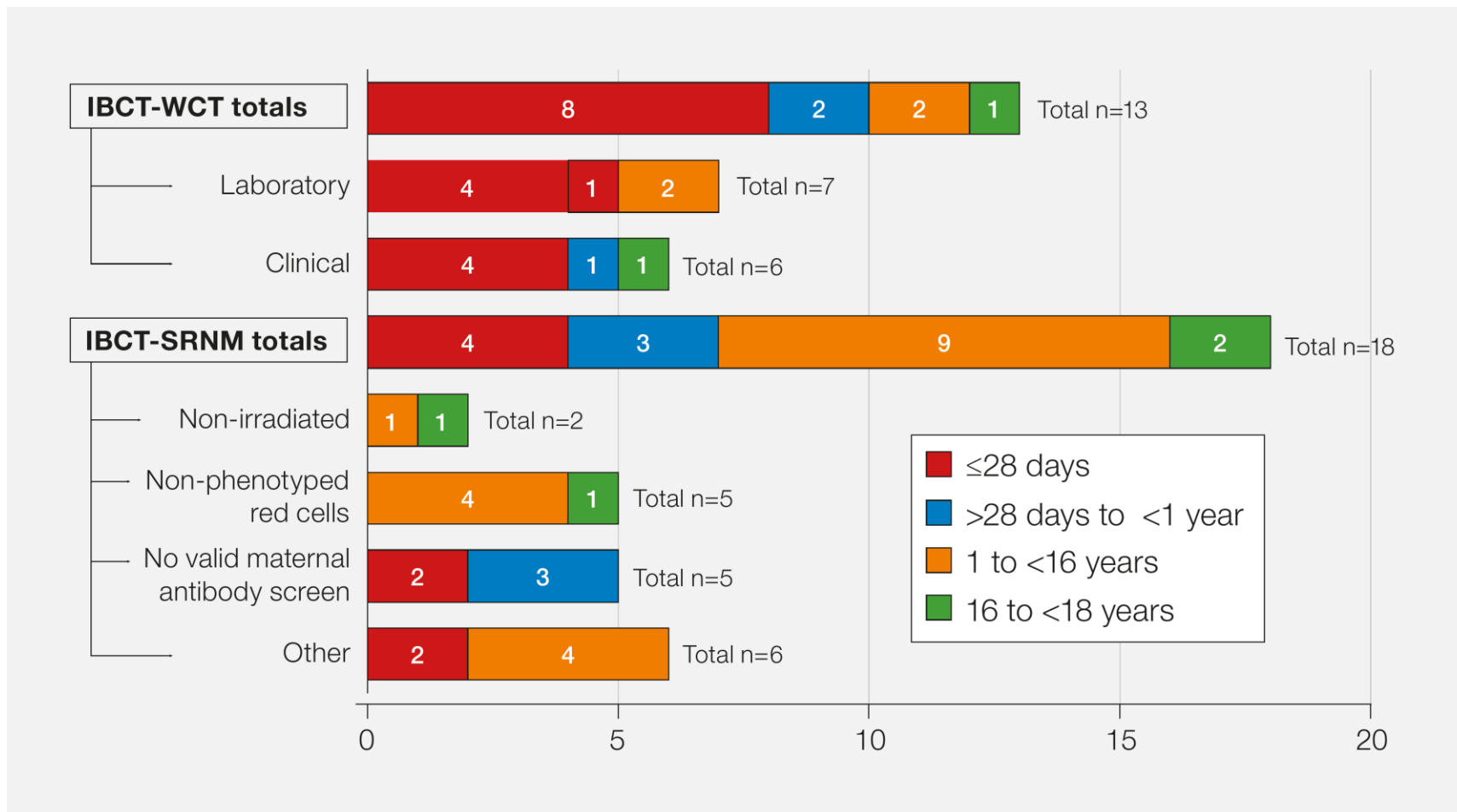


TTI=transfusion-transmitted infection; CS=cell salvage; UCT=uncommon complications of transfusion; TRALI=transfusion-related acute lung injury; TAD=transfusion-associated dyspnoea; TACO=transfusion-associated circulatory overload; HTR=haemolytic transfusion reactions; FAHR=febrile, allergic and hypotensive reactions; HSE=handling and storage errors; PCC=prothrombin complex concentrates; IBCT-SRNM=incorrect blood component transfused-specific requirements not met; IBCT-WCT=IBCT-wrong component transfused

Summary of paediatric cases by category and age 2021

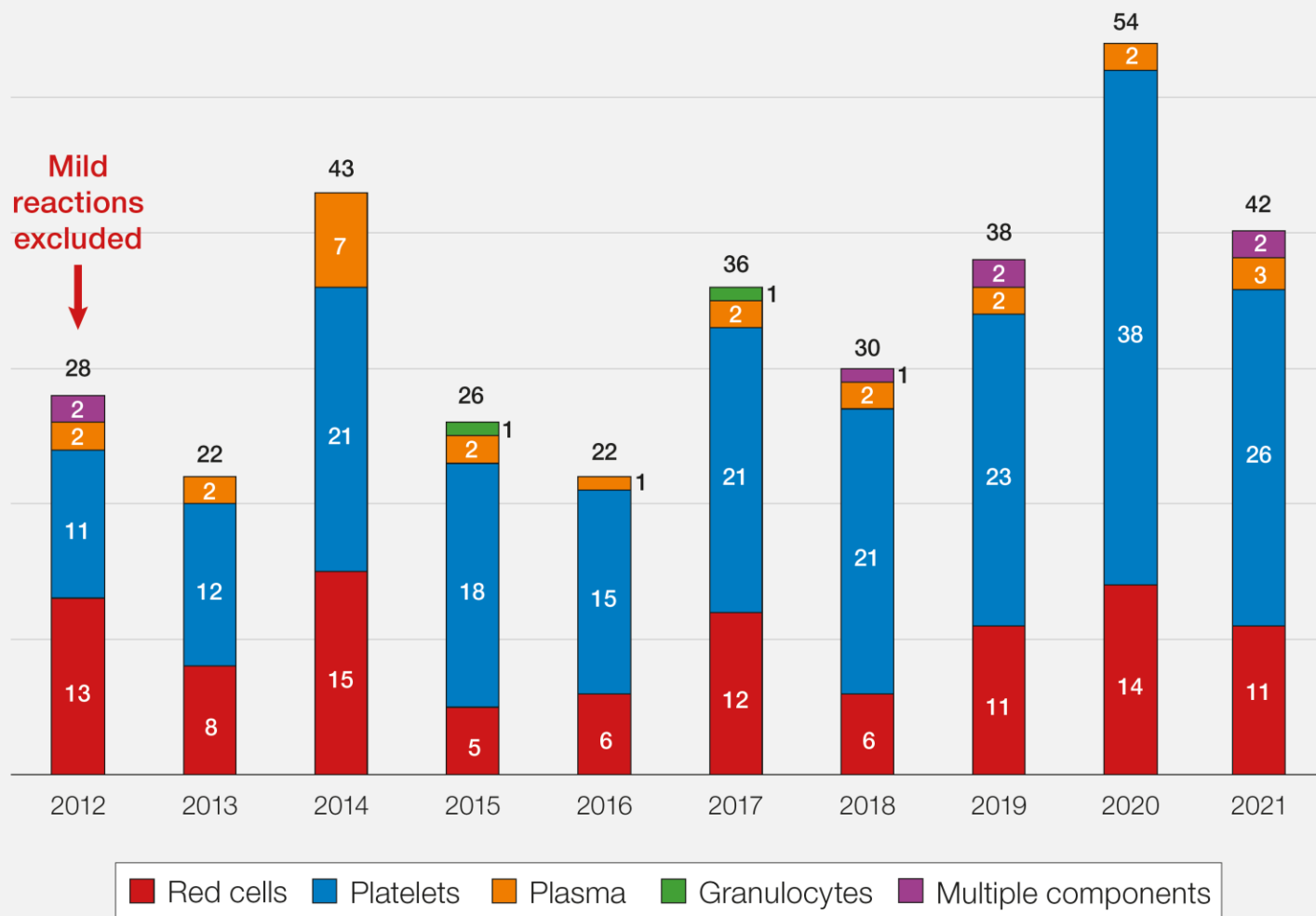


Breakdown of incorrect blood component transfused reports in 2021

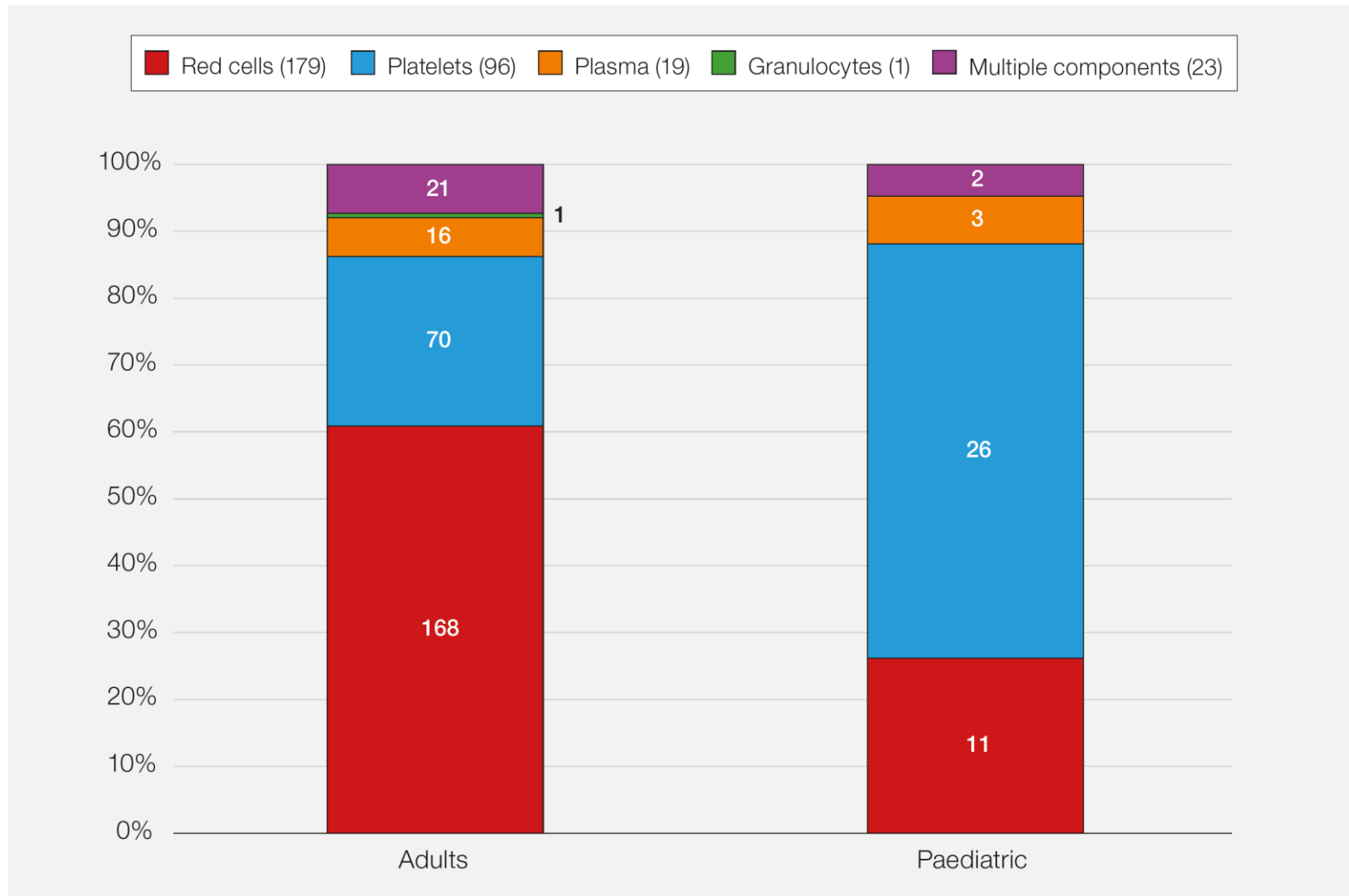


*Other includes incomplete testing (n=3), invalid time-expired sample (n=1), failure to provide CMV-negative (n=1) and inappropriate D-positive component (n=1)
 IBCT-WCT=incorrect blood component transfused-wrong component transfused; IBCT-SRNM=IBCT-specific requirements not met; CMV=cytomegalovirus*

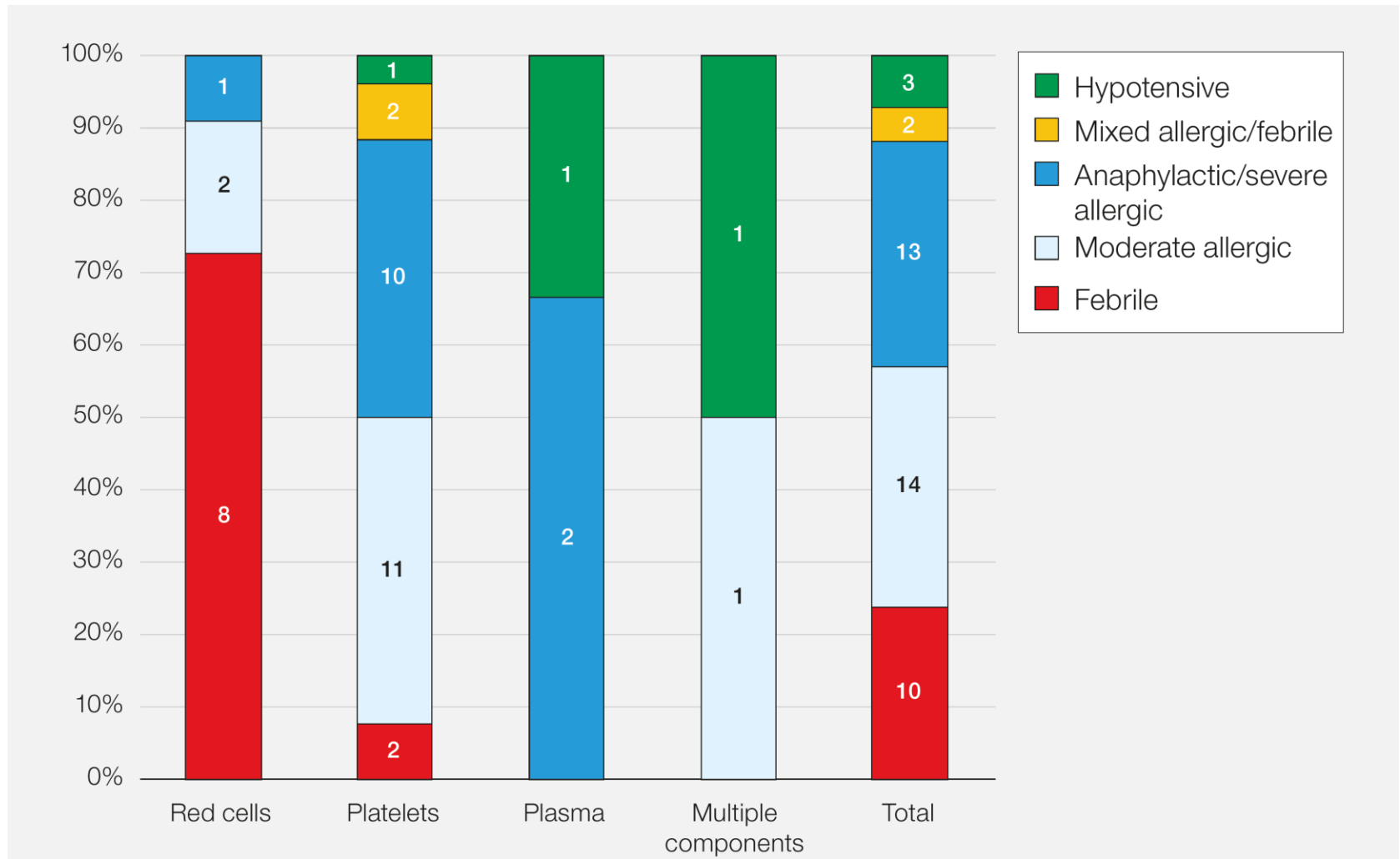
Summary of FAHR reports by component type from 2012 to 2021



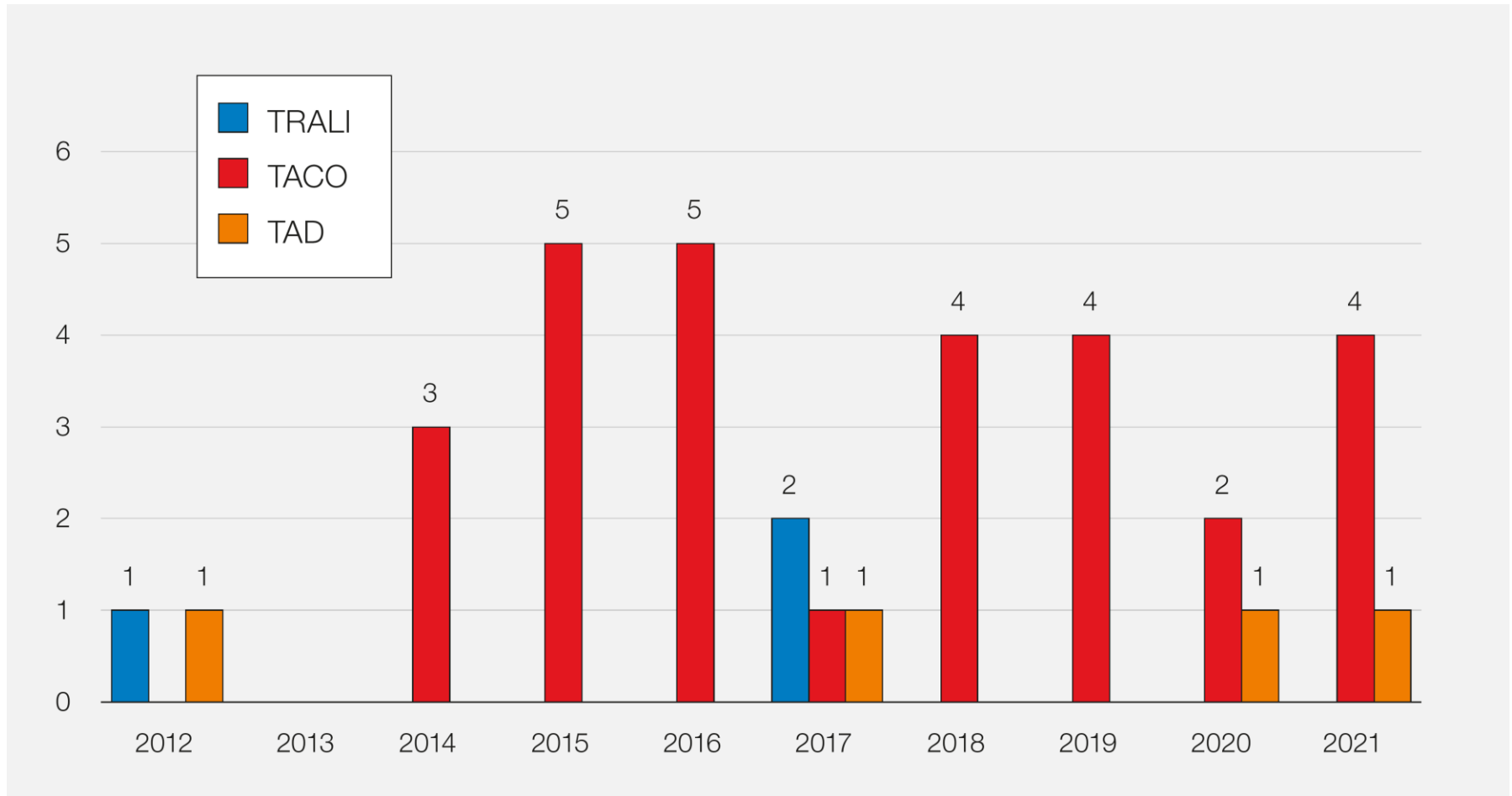
Comparison of proportions of adult and paediatric FAHR related to different components in 2021



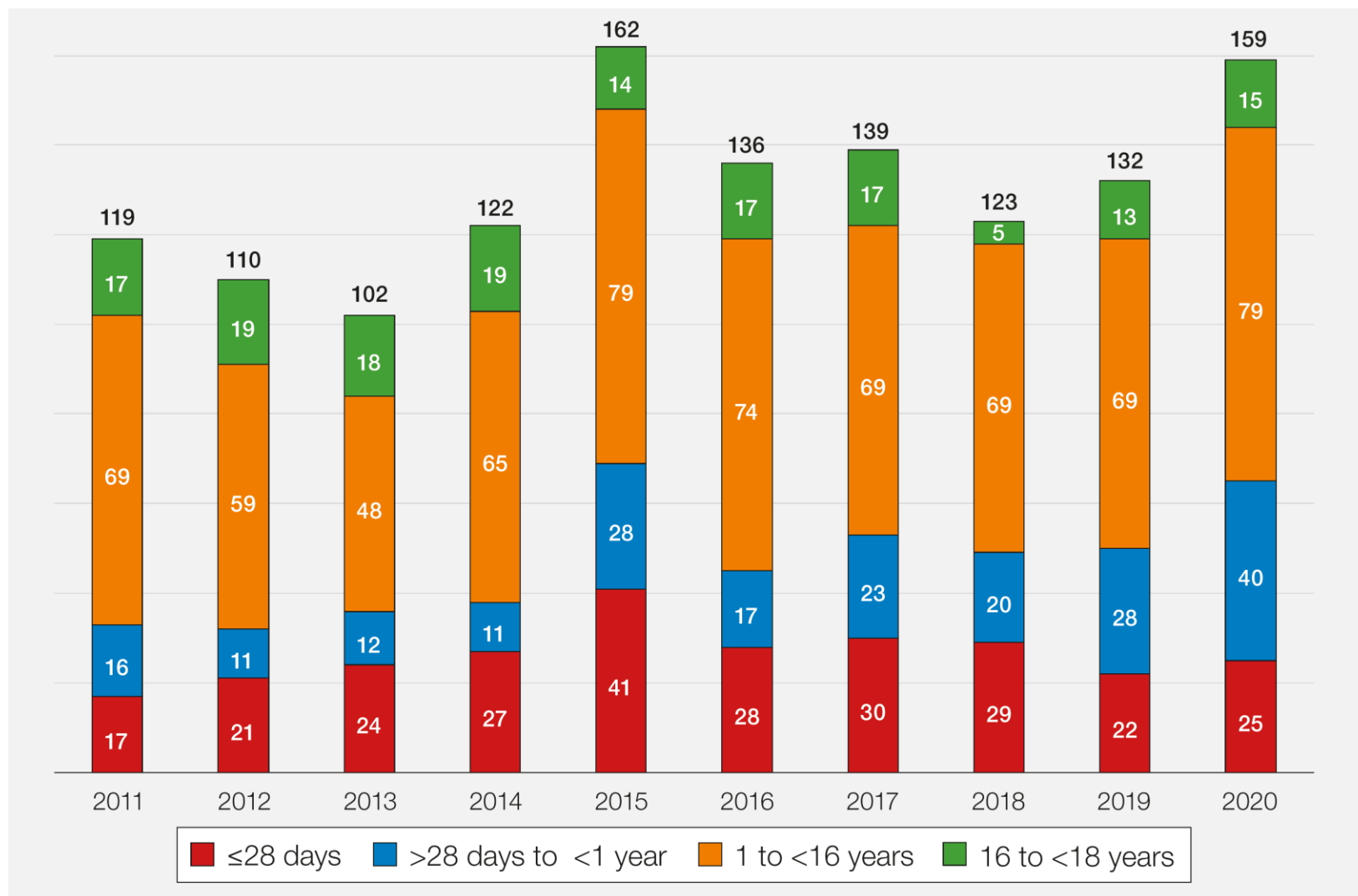
Percentages of reaction types of each component for paediatric reports in 2021



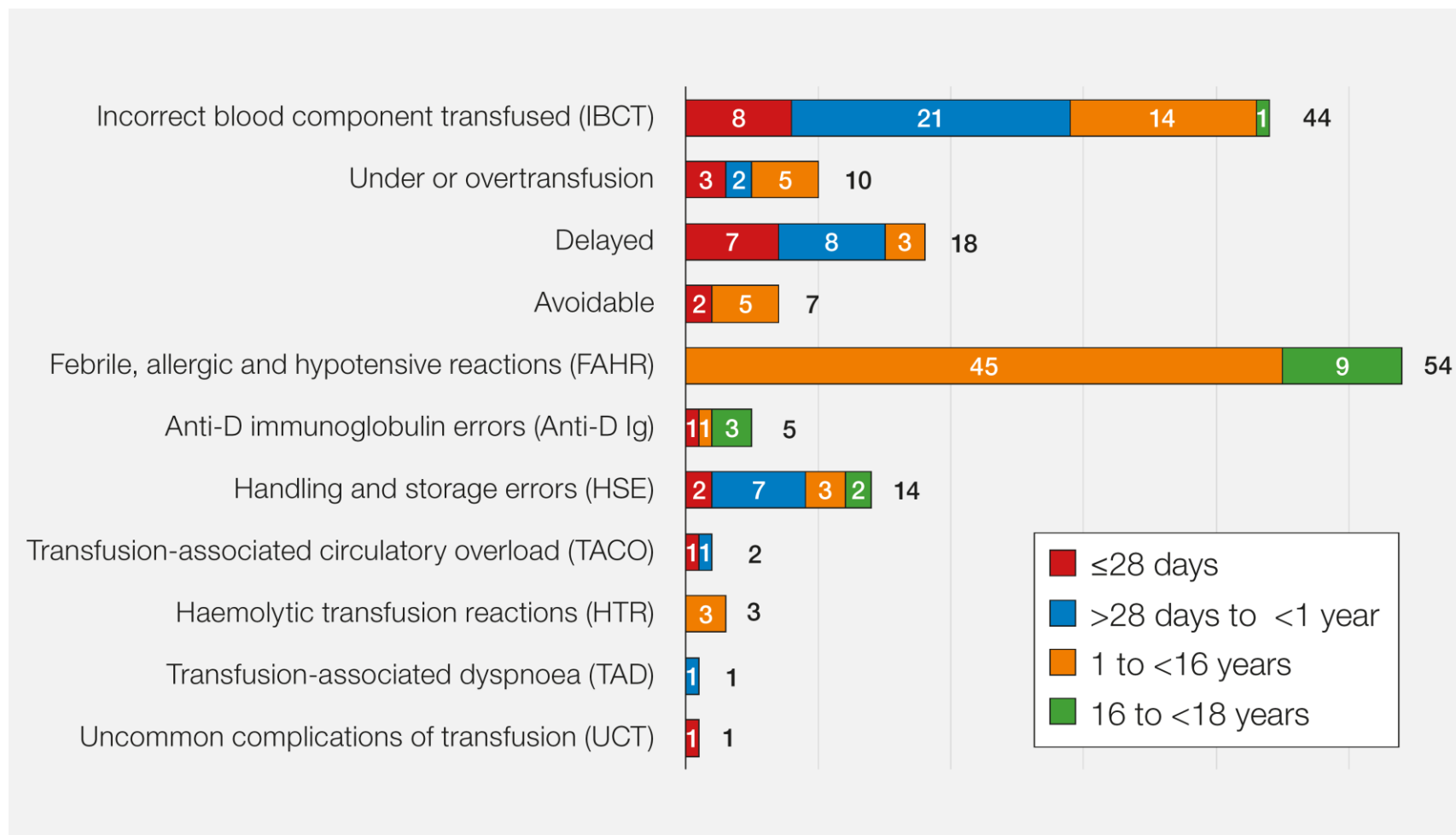
Pulmonary complications in children and neonates 2012-2021



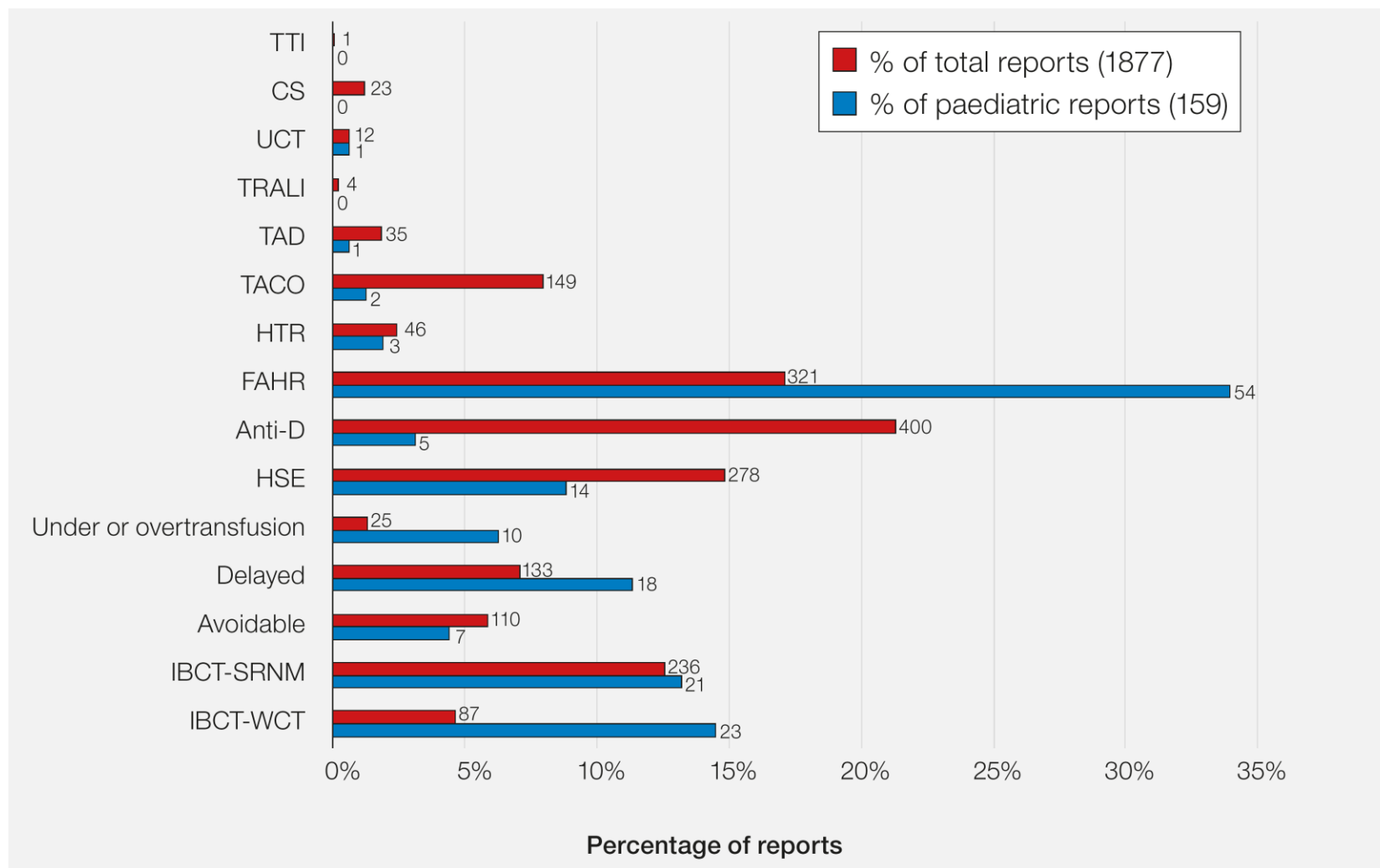
Trends in paediatric reports from 2011-2020



Summary of paediatric cases by category and age in 2020 (n=159)

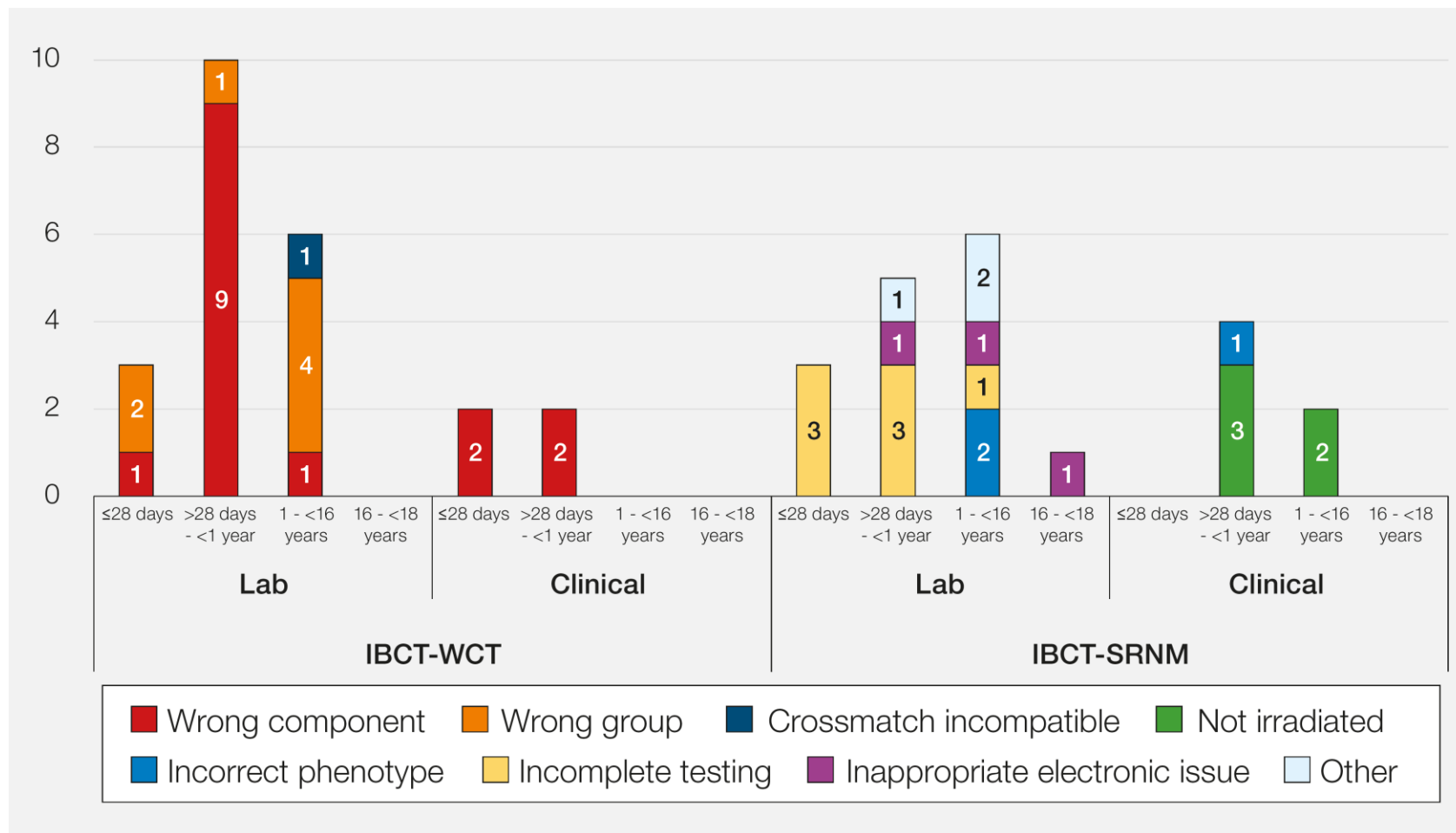


Percentages of paediatric and total reports in each category in 2020



TTI=transfusion-transmitted infection; UCT=uncommon complications of transfusion; TRALI=transfusion-related acute lung injury; TAD=transfusion-associated dyspnoea; TACO=transfusion-associated circulatory overload; HTR=haemolytic transfusion reactions; FAHR=febrile, allergic and hypotensive reactions; HSE=handling and storage errors; IBCT-SRNM=incorrect blood component transfused-specific requirements not met; IBCT-WCT=IBCT-wrong component transfused

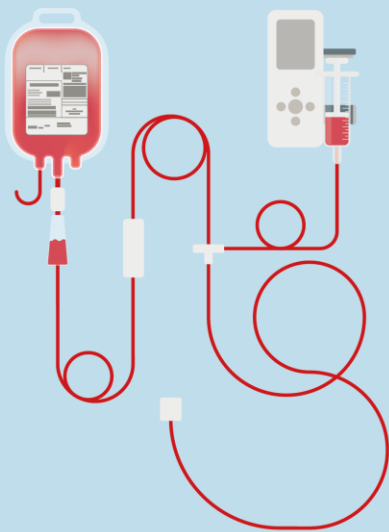
Breakdown of incorrect blood component transfused reports in 2020 (n=44)



IBCT-WCT=incorrect blood component transfused-wrong component transfused; IBCT-SRNM=IBCT-specific requirements not met; MB=methylene blue-treated; SD=solvent-detergent treated

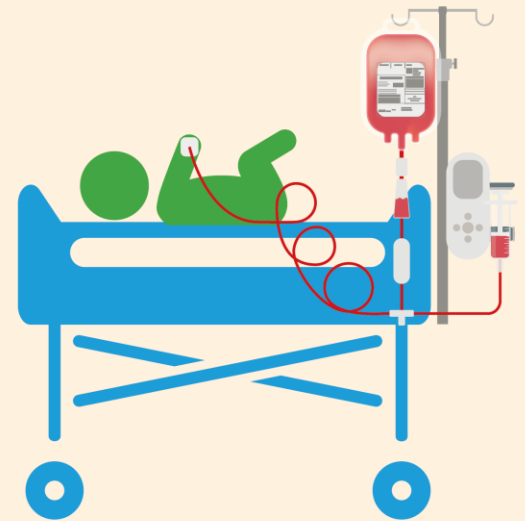
Note: Category 'other' includes invalid sample (n=1), K positive red cells to individual with childbearing potential (n=1), failure to provide washed platelets (n=1)

Transfusion set up for neonates and infants

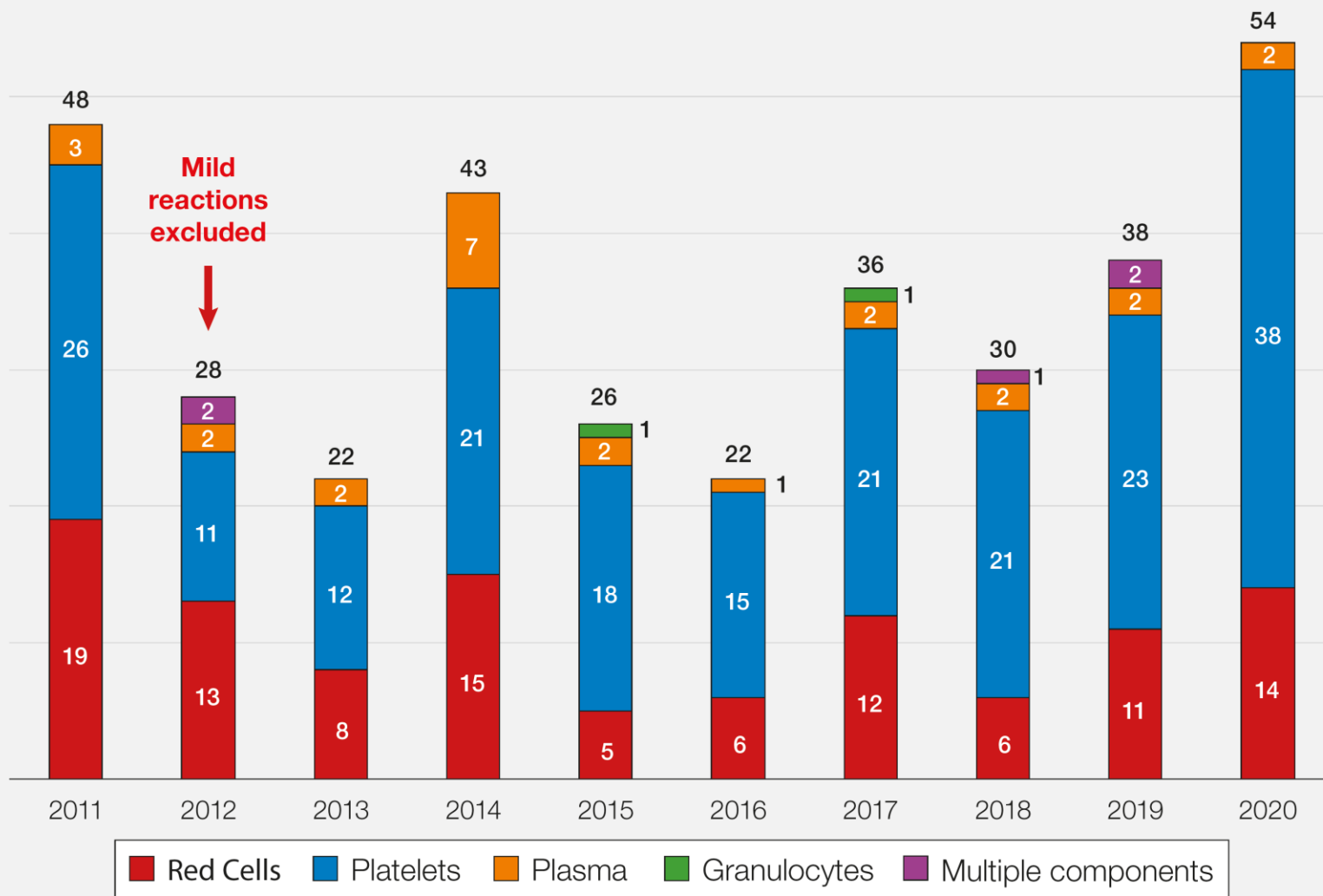


a: Neonatal transfusion giving set with syringe driver and 3-way tap

b: Infant receiving a red cell transfusion

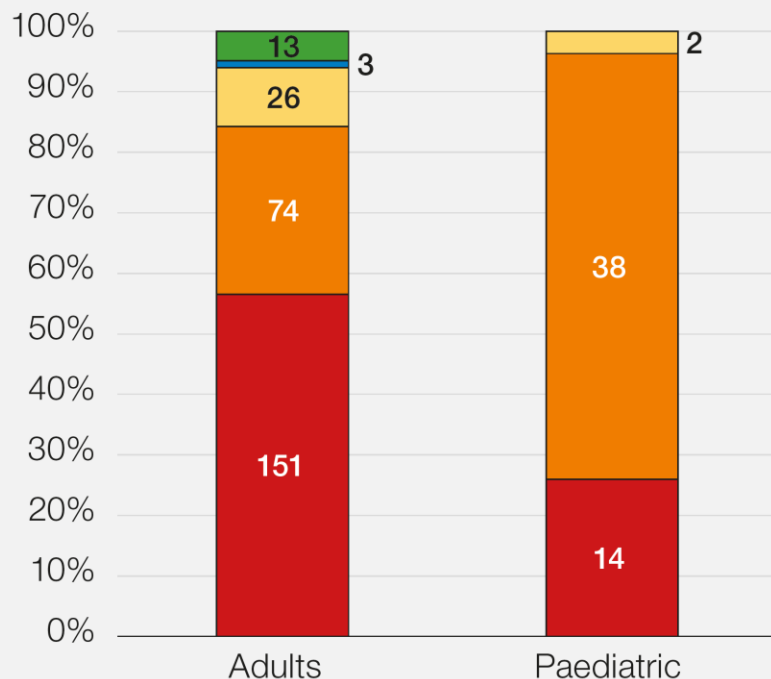
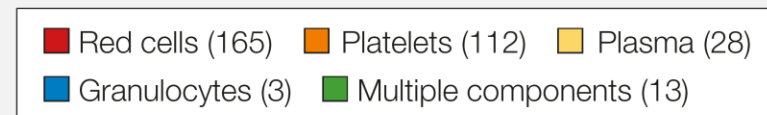


Trend in paediatric FAHR reports 2011-2020



Paediatric FAHR reports in 2020 (n=54)

a. Proportions of adult and paediatric FAHR



b. Paediatric FAHR reports by reaction and component

