

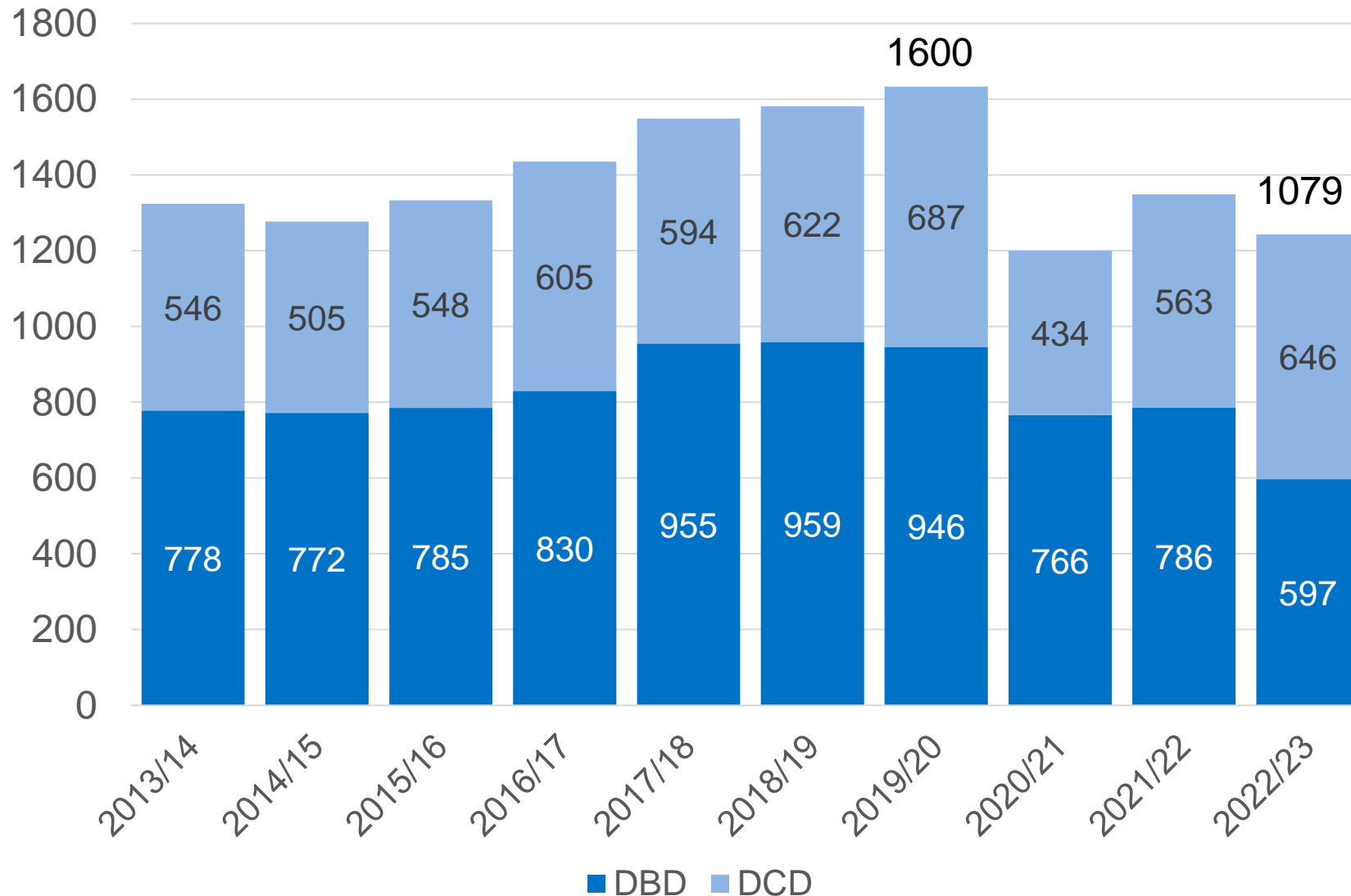
A thick, blue, wavy line that spans the width of the slide, positioned above the main title.

# **Lung utilisation in DBD and DCD donors**

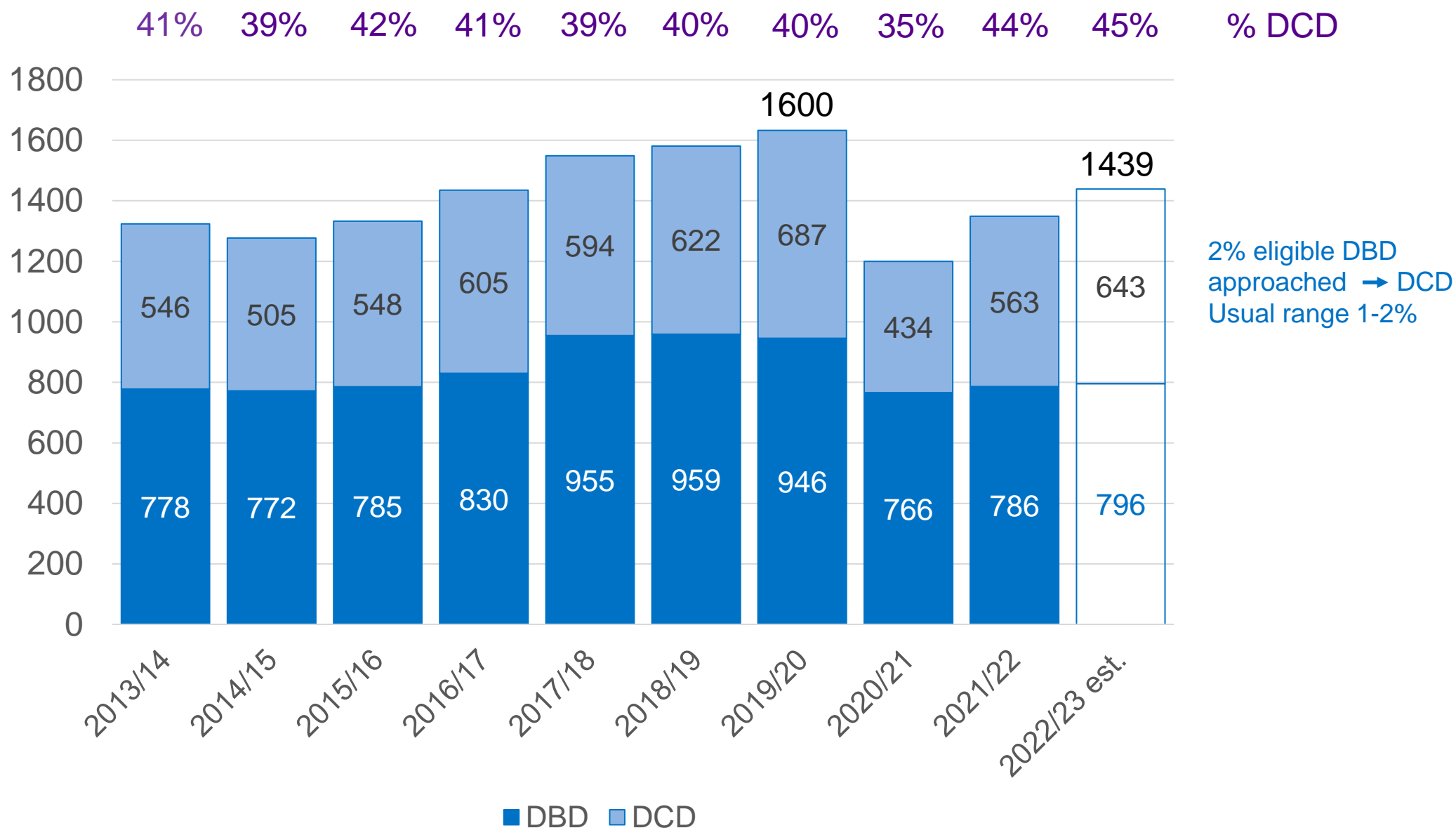
Sue Madden

# Trends in deceased donation

April 2013 – December 2022

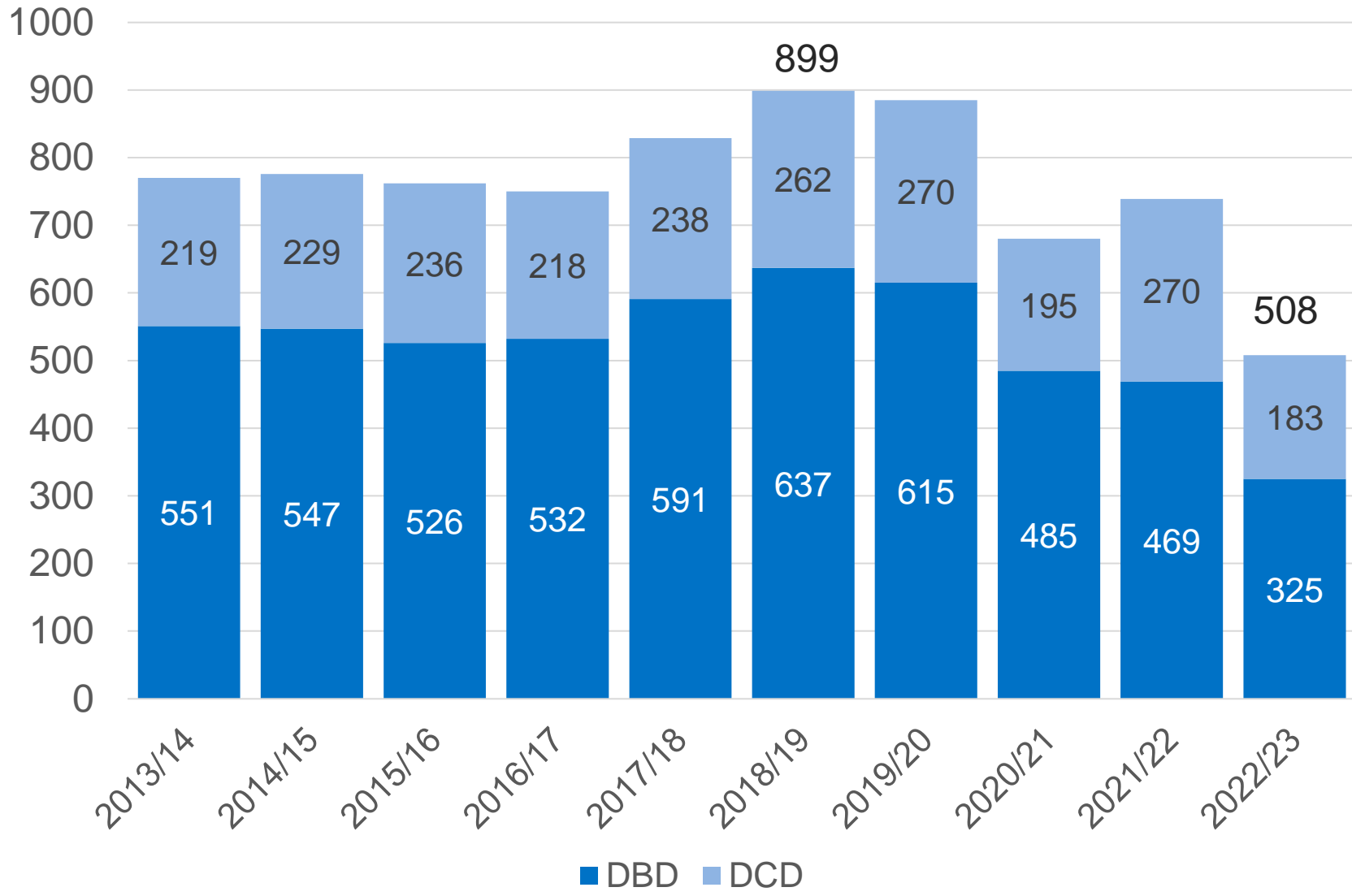


# Trends in deceased donation

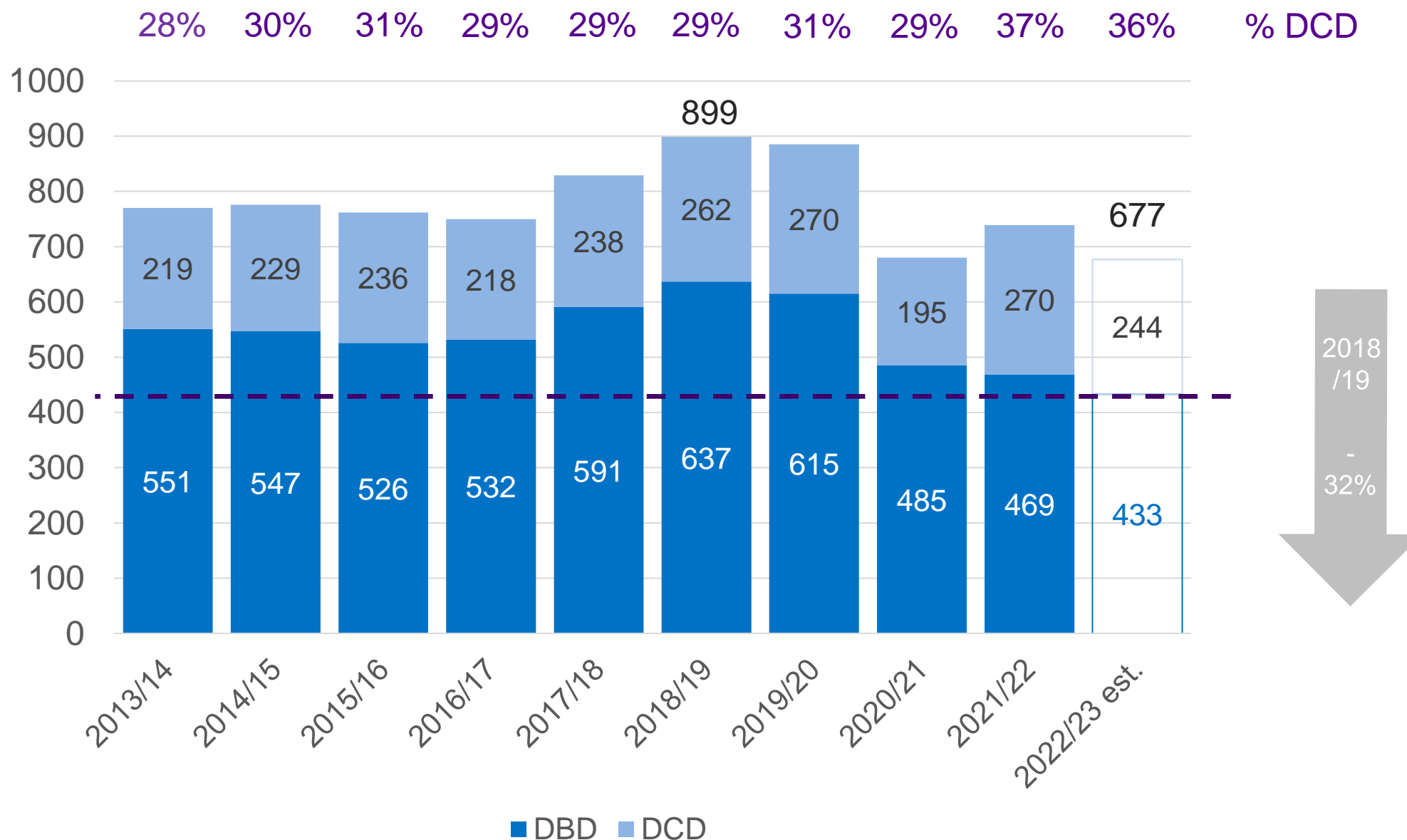


# Trends in donation where lungs offered

April 2013 – December 2022

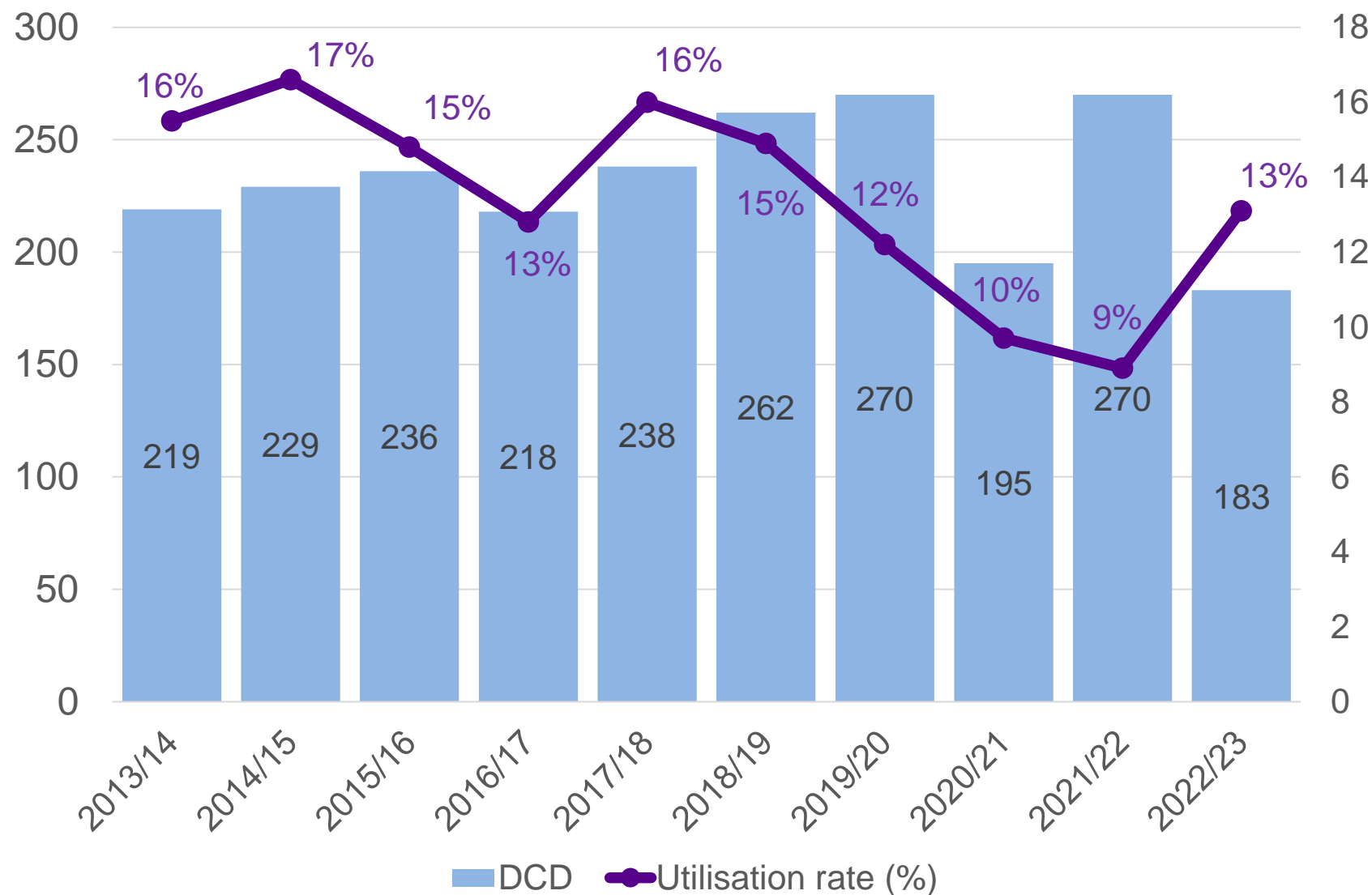


# Trends in donation where lungs offered



# Trends in DCD utilisation rates

April 2013 – December 2022

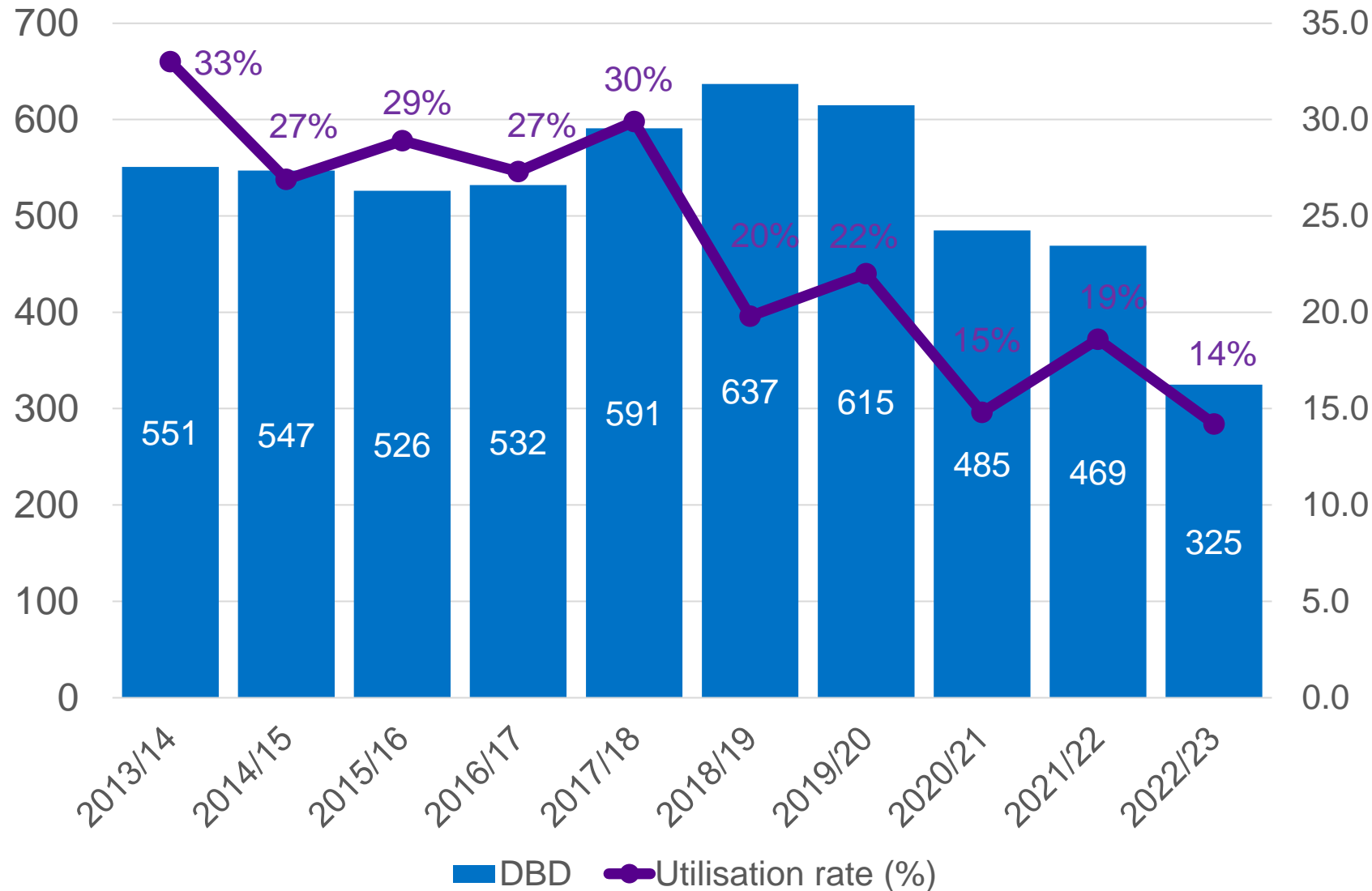


*Utilisation rate =*

$$\frac{\text{Donors where lungs tx'd}}{\text{Donors where lungs offered}}$$

# Trends in DBD utilisation rates

April 2013 – December 2022

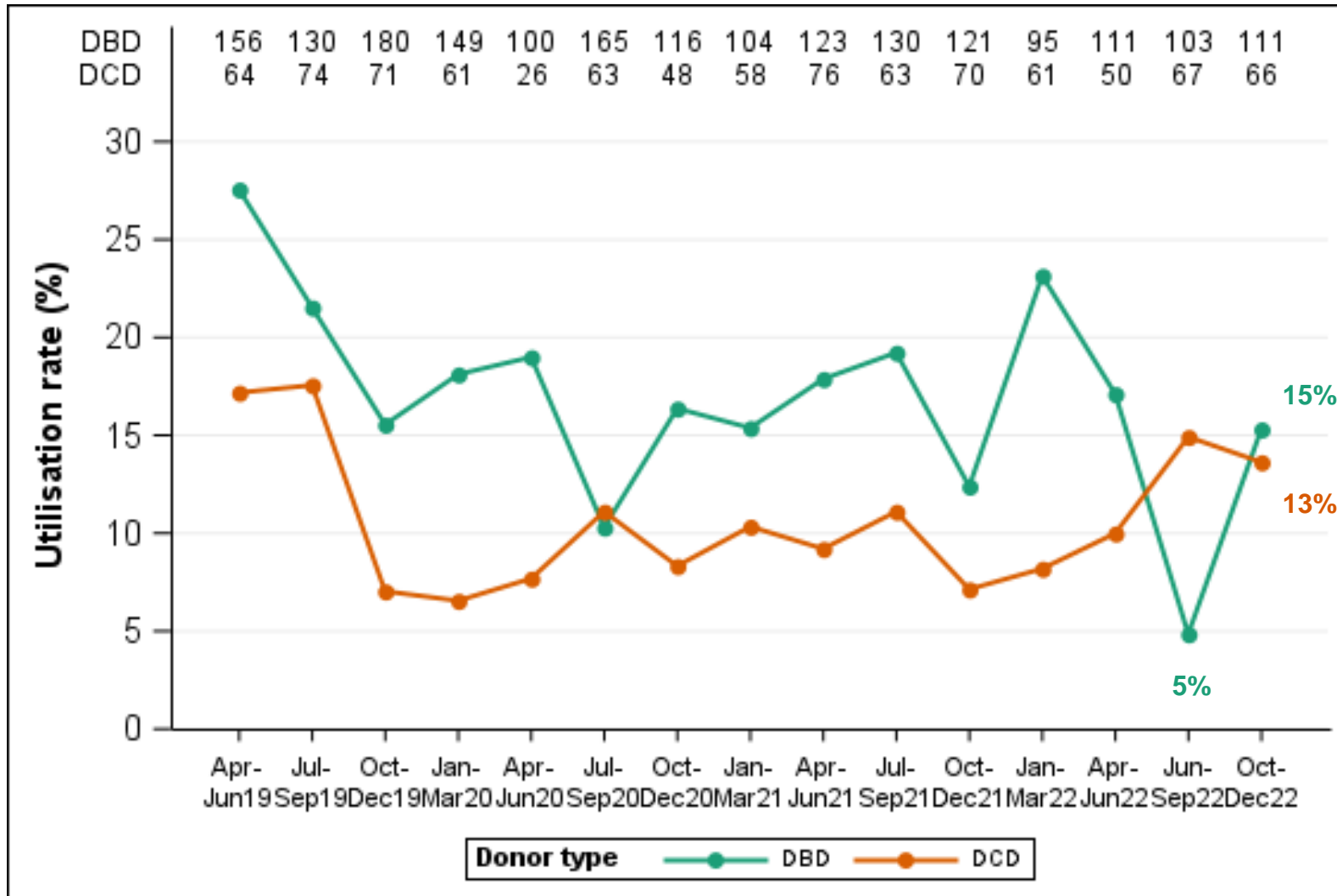


*Utilisation rate =*

$$\frac{\text{Donors where lungs tx'd}}{\text{Donors where lungs offered}}$$

# Quarterly utilisation rates by donor type

April 2019 – December 2022

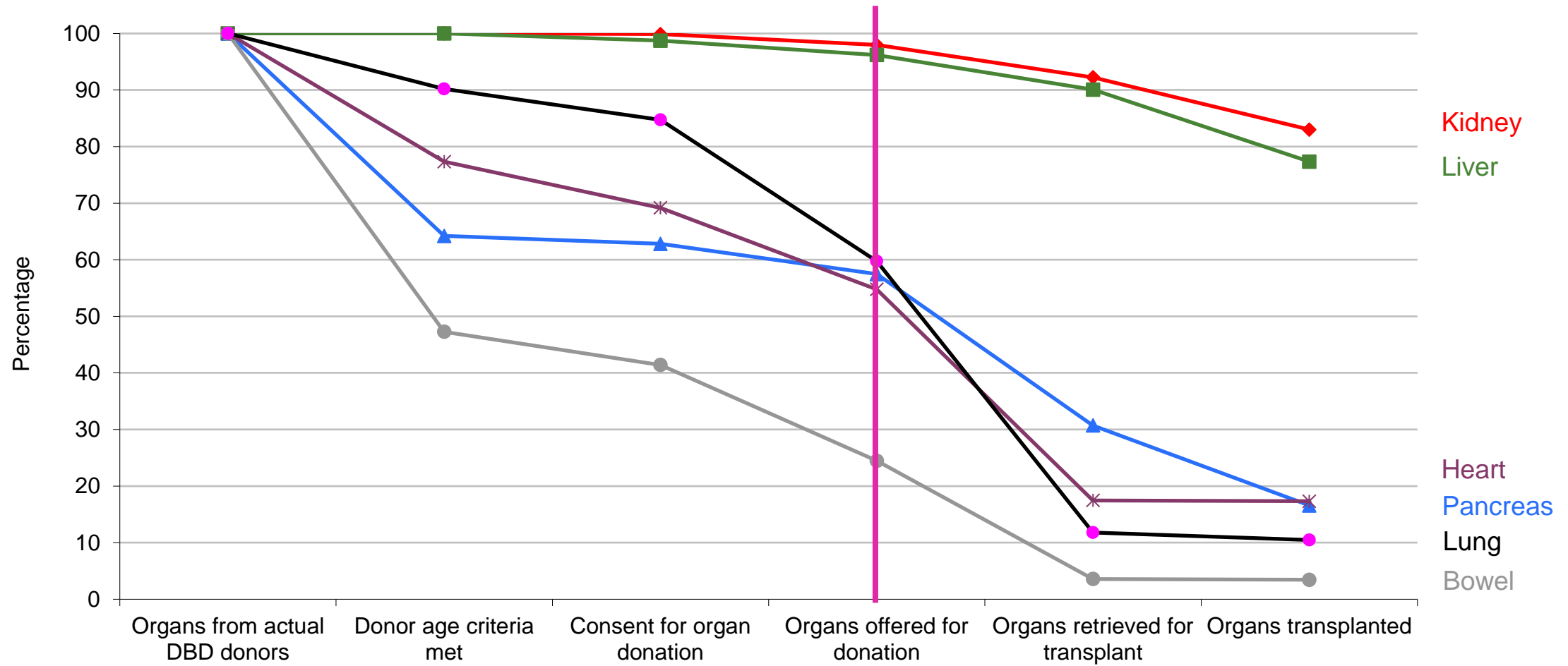


DBD  
DCD

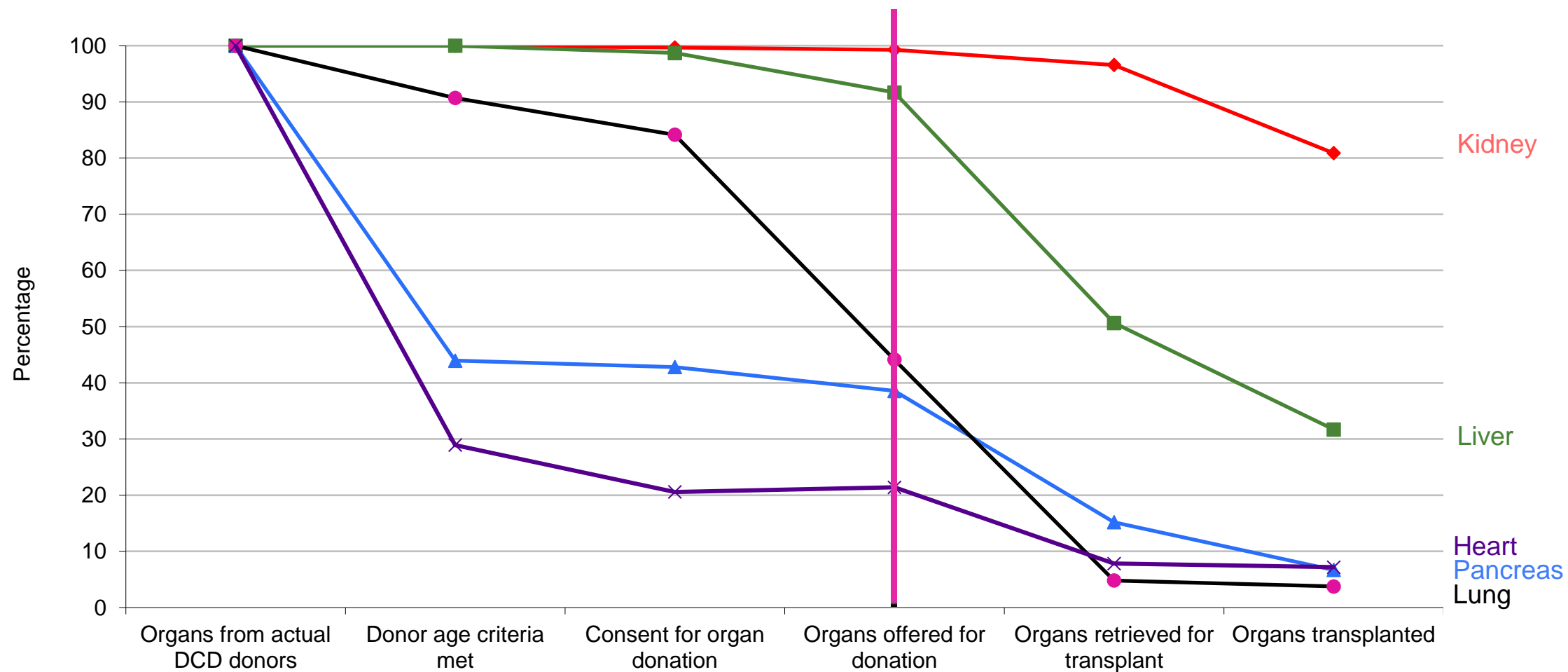
Utilisation rate = 
$$\frac{\text{Donors where lungs txd}}{\text{Donors where lungs offered}}$$



# UK DBD organ donation and transplantation rates, 2021/22



# UK DCD organ donation and transplantation rates, 2021/22



# Utilisation of retrieved lungs

	Apr 2019 -Sep 2019	Oct 2019 -Mar 2020	Apr 2020 -Sep 2020	Oct 2020 -Mar 2021	Apr 2021 -Sep 2021	Oct 2021 -Mar 2021	Apr 2022 -Sep 2022	Apr 2019 -Sep 2022
<b>DBD Donors</b>								
DBD Overall discard rate (% Retrieved organs that were unused)	17/153 (11%)	20/123 (16%)	4/76 (5%)	13/79 (16%)	14/103 (14%)	11/80 (14%)	8/53 (15%)	87/667 (13%)
DBD <b>HQ lung</b> discard rate (% Retrieved HQ lungs that were unused)	4/61 (7%)	5/54 (9%)	4/32 (13%)	2/37 (5%)	3/42 (7%)	4/31 (13%)	0/23 (0%)	22/280 (8%)
<b>DCD donors</b>								
DCD Overall discard rate (% Retrieved organs that were unused)	8/56 (14%)	18/35 (51%)	4/22 (18%)	11/28 (39%)	7/34 (21%)	6/25 (24%)	8/36 (22%)	62/236 (26%)
DCD <b>HQ lung</b> discard rate (% Retrieved HQ lungs that were unused)	0/14 (0%)	8/16 (50%)	2/10 (20%)	3/6 (50%)	0/14 (0%)	0/5 (0%)	2/4 (50%)	15/69 (22%)

\*Organs transplanted outside of the UK have been treated as unused. Left and right lungs have been counted separately.

# Summary

- Deceased donor numbers recovering since pandemic, but predominantly DCD donation. DBD numbers are lowest in decade where lungs offered
- Utilisation rate of donors where lungs offered, marked decline since 2017/18
  - DBD utilisation rate:
    - Dropped 19 percentage points in 10 years
    - Currently lowest level 14%
  - DCD utilisation rate:
    - Overall declining trend in 10 years
    - Recently increased from 9% to 13%
- Most significant loss in lung utilisation in offered to retrieved, recent retrieved not transplanted rates remained consistent
- Estimated in 2022/23, lungs from 372 (86%) DBD and 212 (87%) DCD donors will not be utilised