

Deceased Organ Donation in NZ: Success of a quality improvement program

**ANZICS NZ Regional Meeting
5 April 2017**

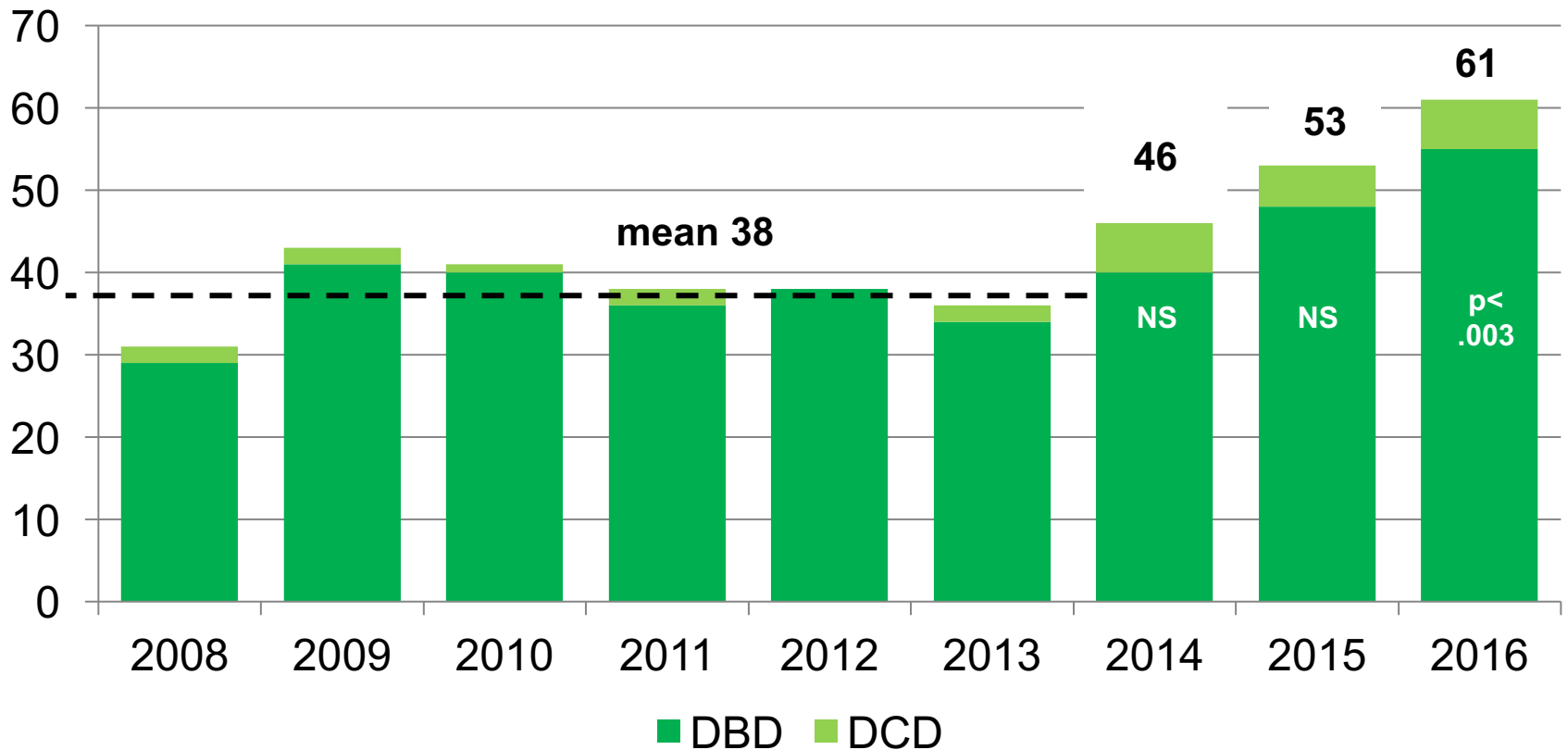
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Organ Donation New Zealand



Deceased organ donation is increasing in NZ



Trend or statistical aberration?

It has happened for 3 years

It has reached statistical significance

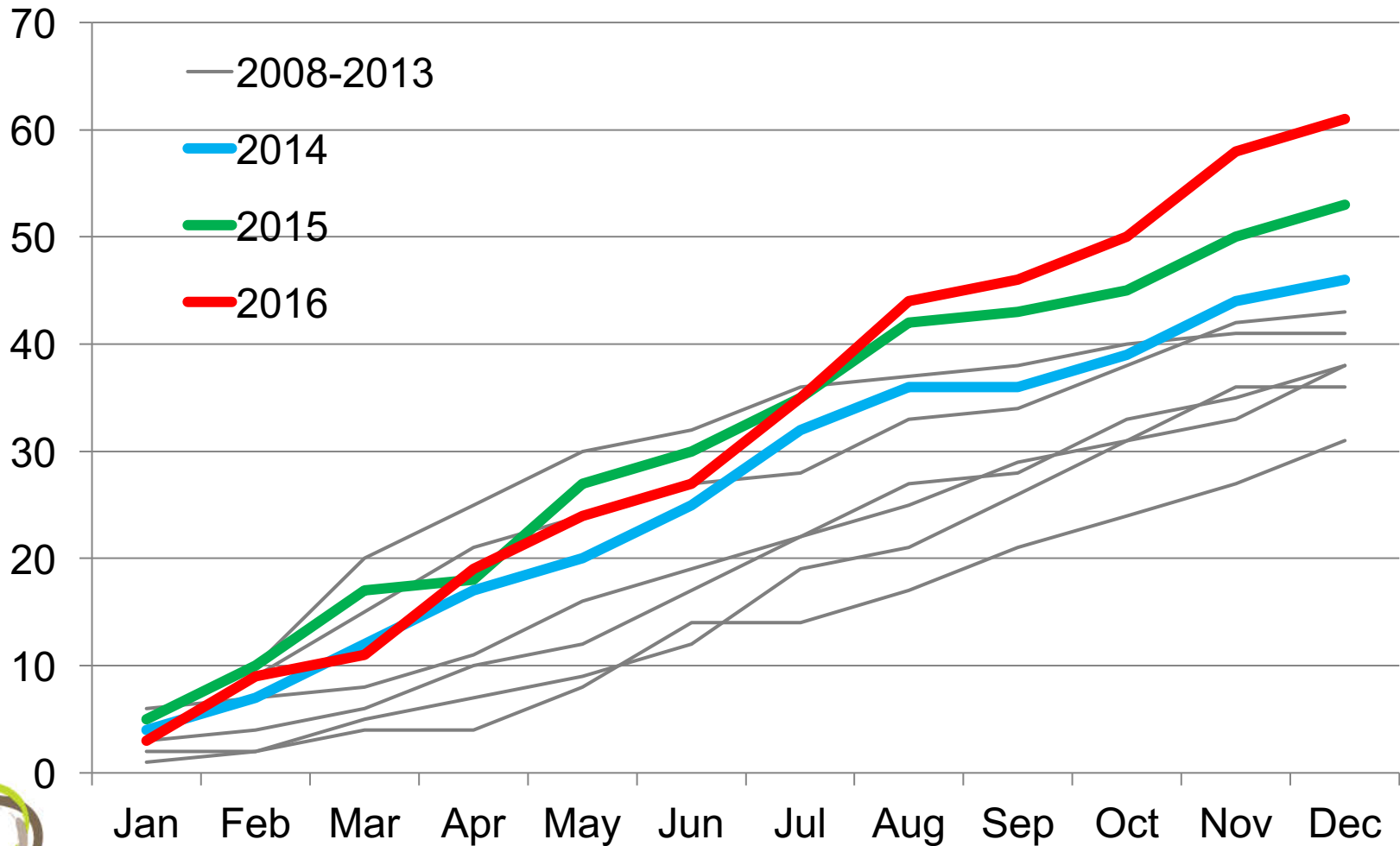
An expected outcome of ODNZ QI initiatives

I think that it is a real trend

“... it didn't happen overnight but it did happen...”



Deceased organ donors in NZ month by month 2008–2016



The ODNZ Quality Improvement Program

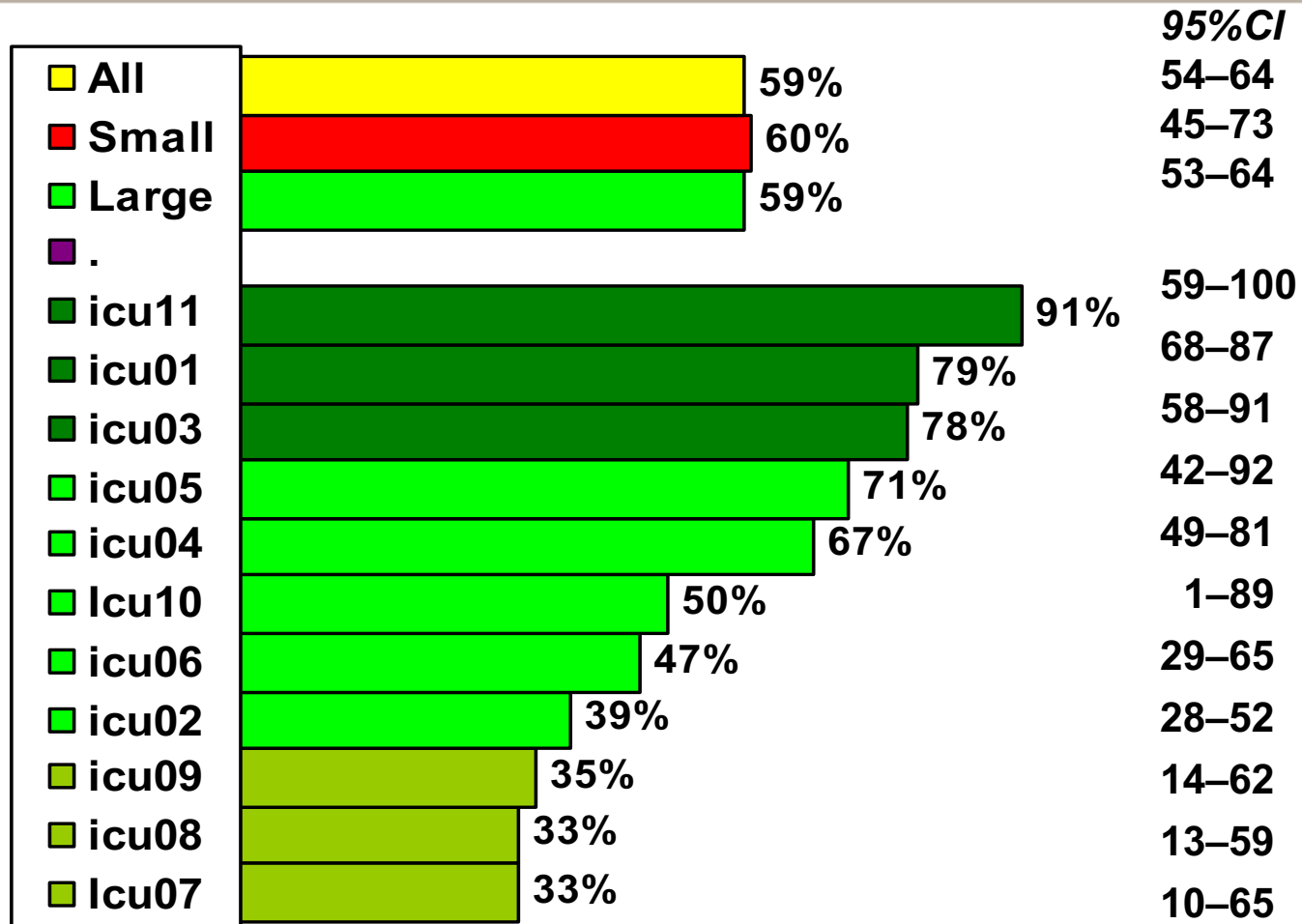
Deliberate focus on ICU activities

- 2008 ICU Death Audit database started
 - to capture all deaths in NZ's 24 ICUs
- 2010 Analysis of first 3 years' data
 - useful epidemiology of ICU death
 - significant variation in OD activity between ICUs
 - indicated that opportunities were being missed
 - presented at NZ_ANZICS in Taupo in 2011
- 2011 ICU visits showing their own donation-related activities compared with other ICUs
- 2011 Audit meetings for ICU Link nurses & Link doctors



Example of ICU variation in first 3 years

BD testing as % of Possible BD



Similar shaped graphs for:

1. Mention of organ donation by somebody (recognition of potential opportunity)
2. Discussion of cases with ODNZ
3. Formal discussion with family about organ donation

These are all absolute prerequisites for DBD to occur



Other ODNZ QI initiatives

- 2012 On-line audit filters and alerts requesting explanation
- 2014 Revised Guidelines in every ICU
- 2014 Funded Link Nurse role in some ICUs
- 2015 Smartphone app
- 2015 On-line ICU Report

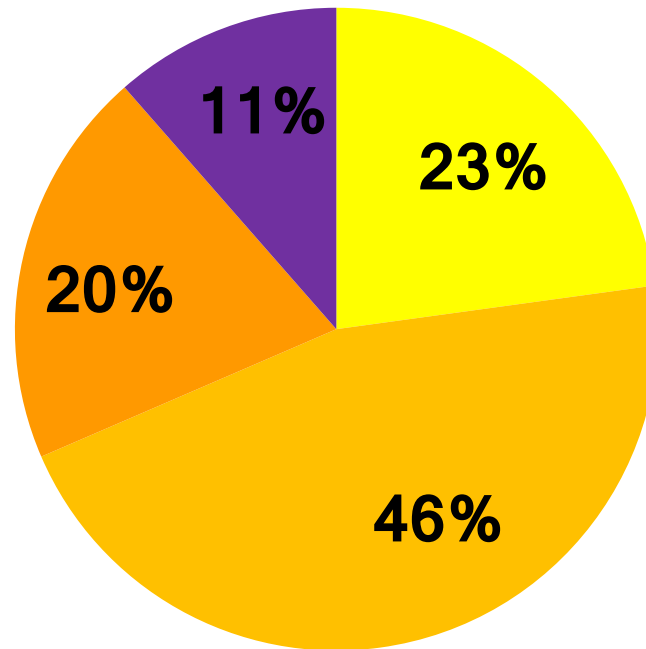
ICU nursing role in donation has expanded

ODNZ medical specialist input into discussion of cases
and issues has increased



Where do brain dead donors come from?

ICU deaths 2008–2016 $n=10,429$



■ No IPPV

■ Not SBD

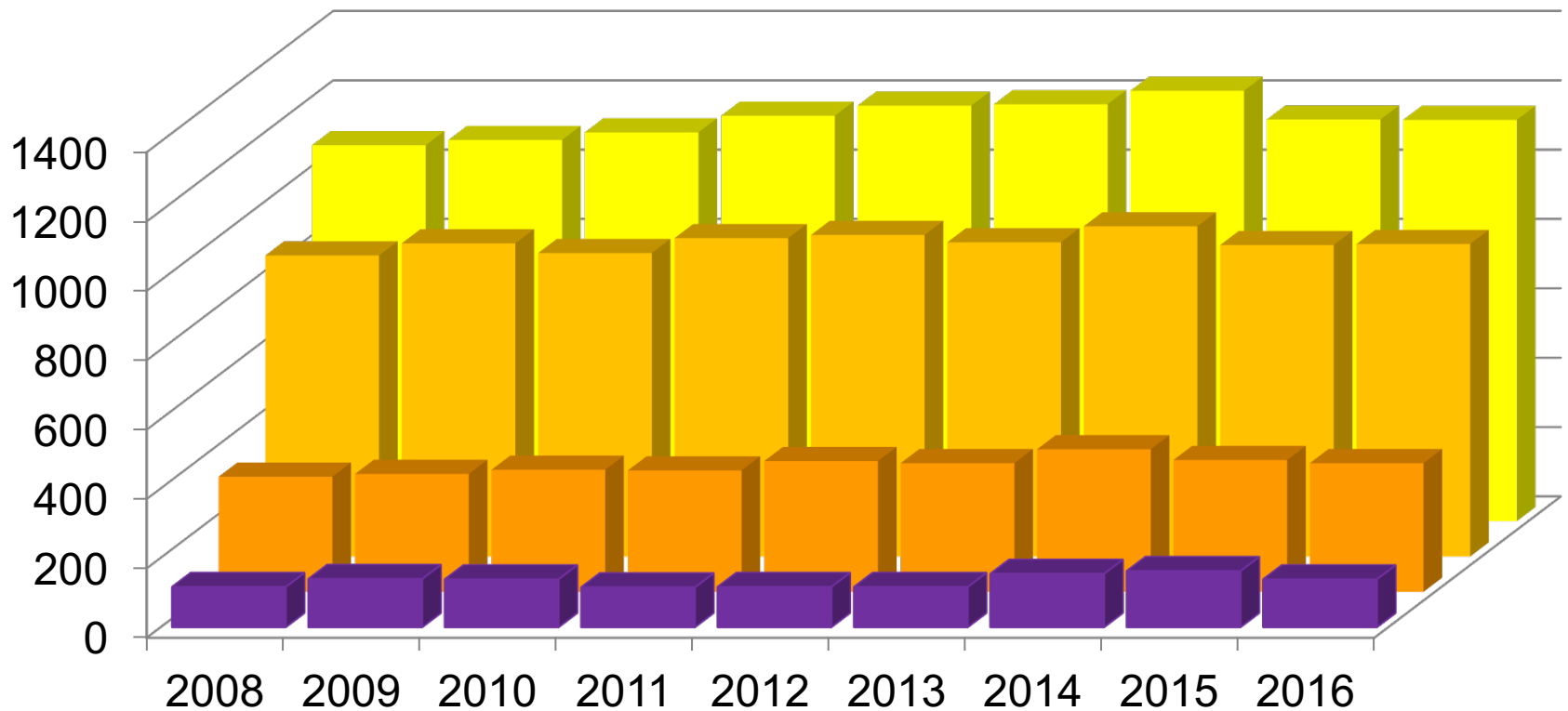
■ SBDIPPV

■ PossBD



ICU deaths year-by-year 2008–2016

1194 Possibly brain dead



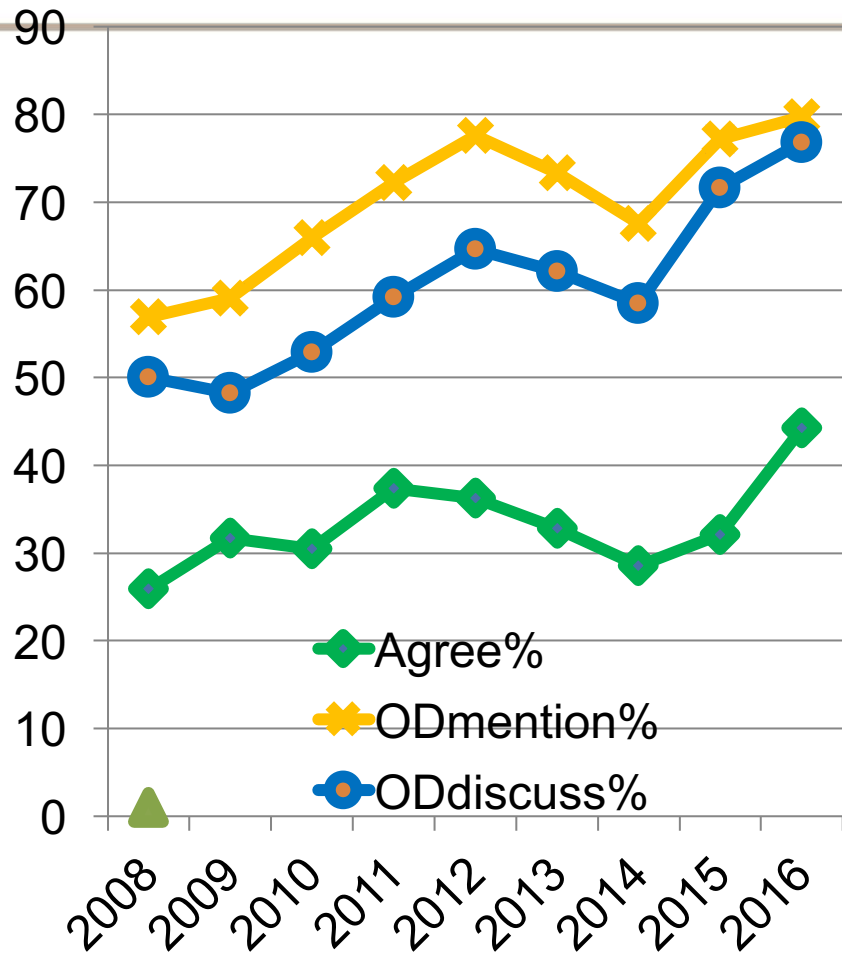
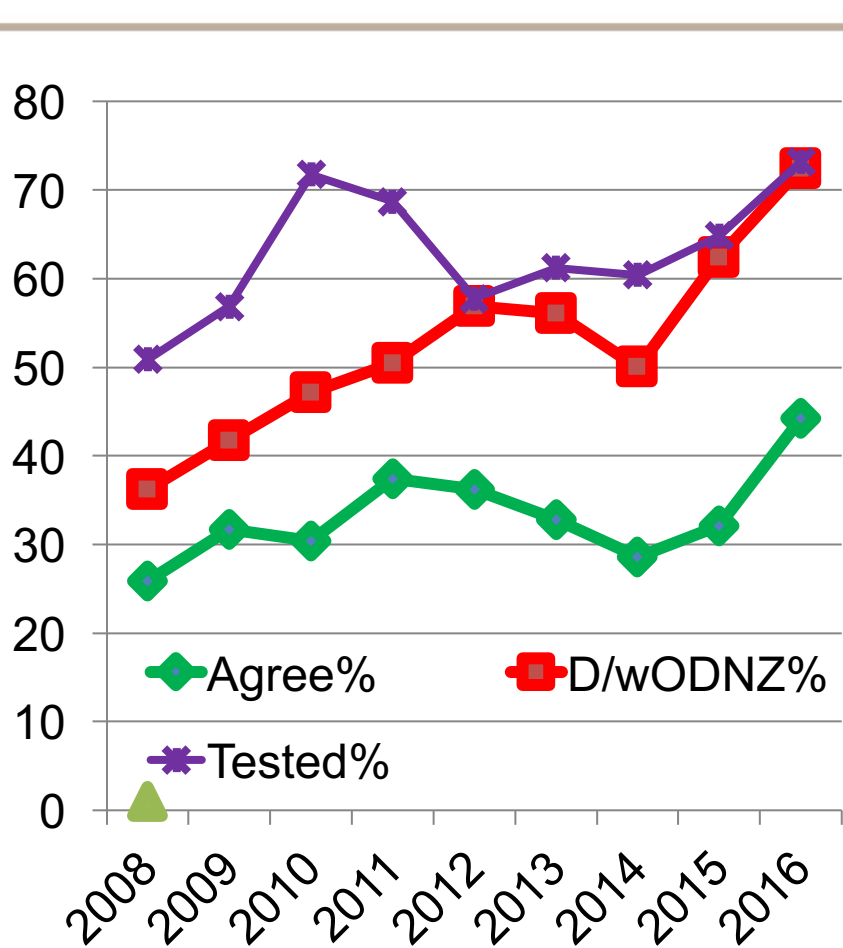
Year range 115-162; median 154; mean 133

■ PossBD

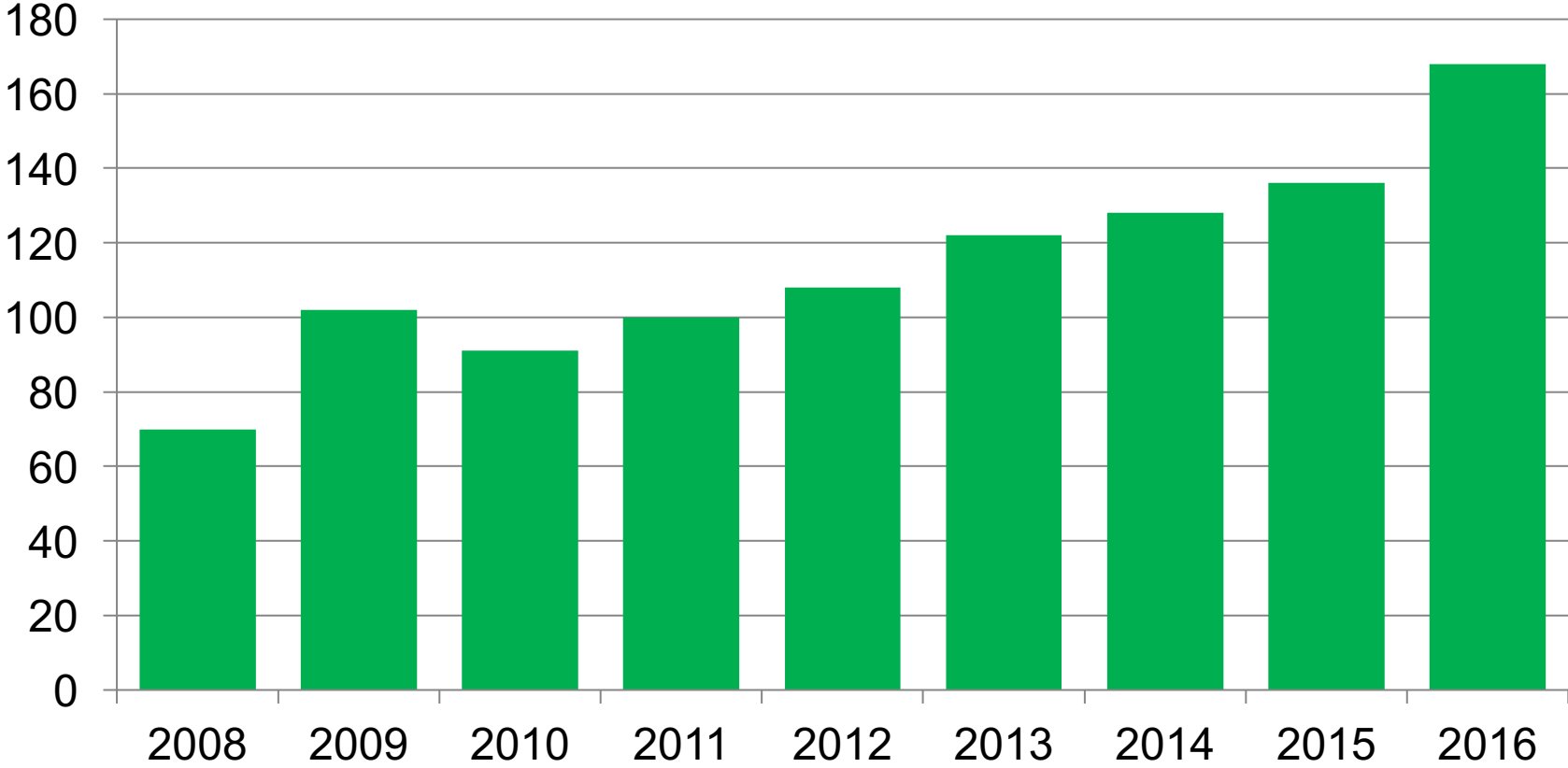


Donation-related activities as % of the PossBD

All ICUs 2008–2016

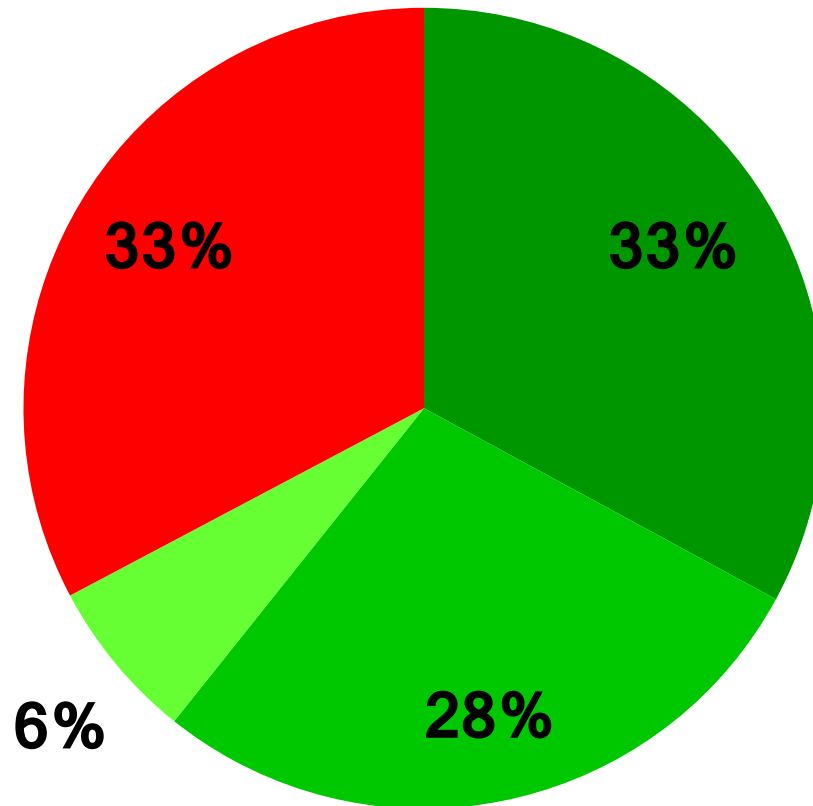


Telephone discussions with ODNZ about potential organ donation 2008–2016



PossBD in All ICUs 2008–2016

n=1,194



■ ODdiscuss+FamAgree

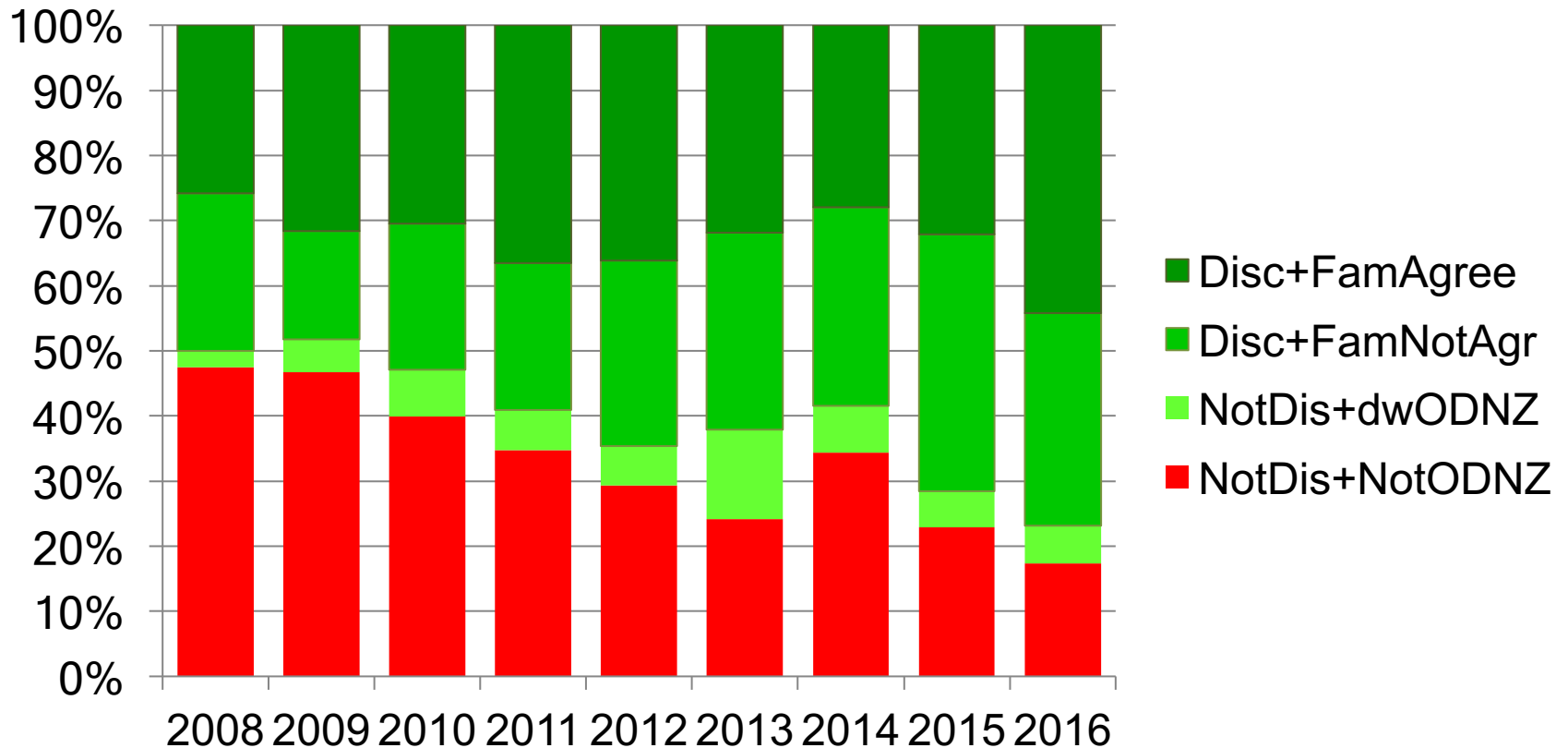
■ ODnotDiscuss+d/wODNZ

■ ODdiscuss+FamNotAgree

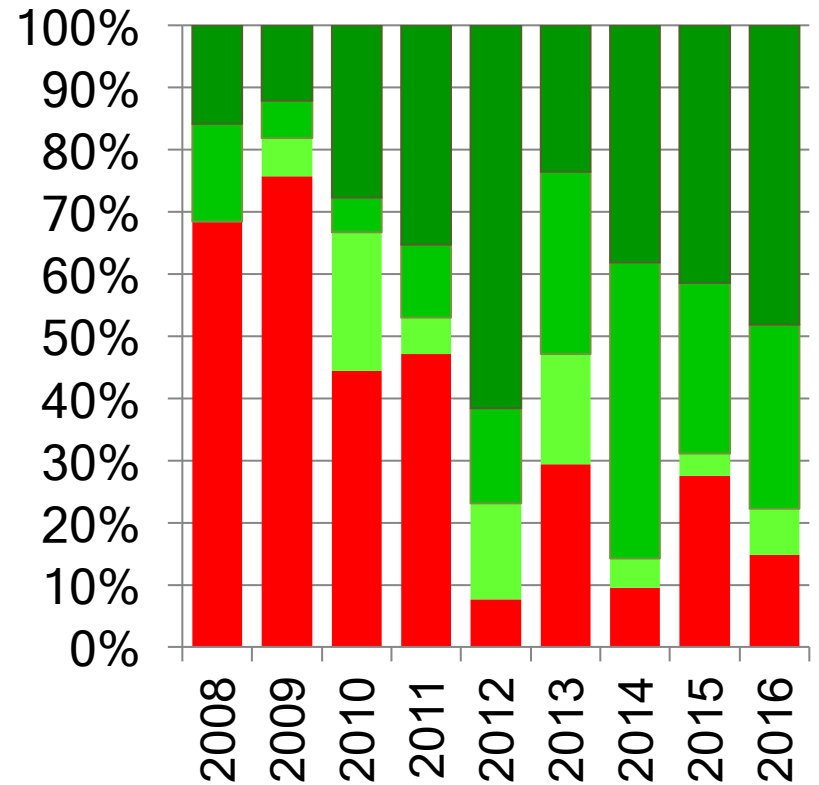
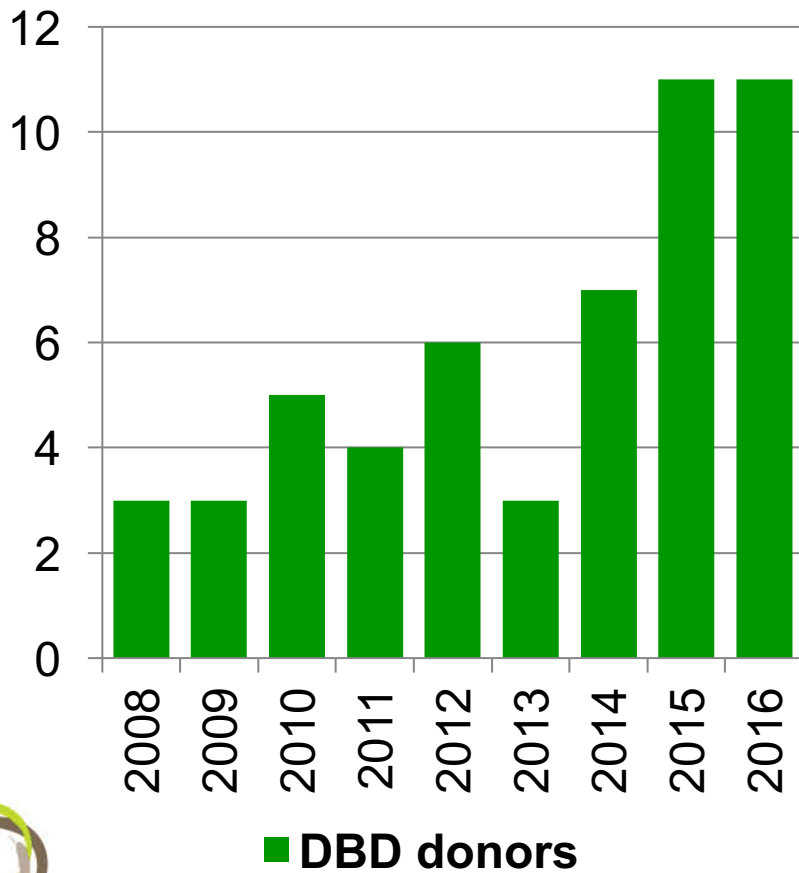
■ ODnotDiscuss+Notd/wODNZ



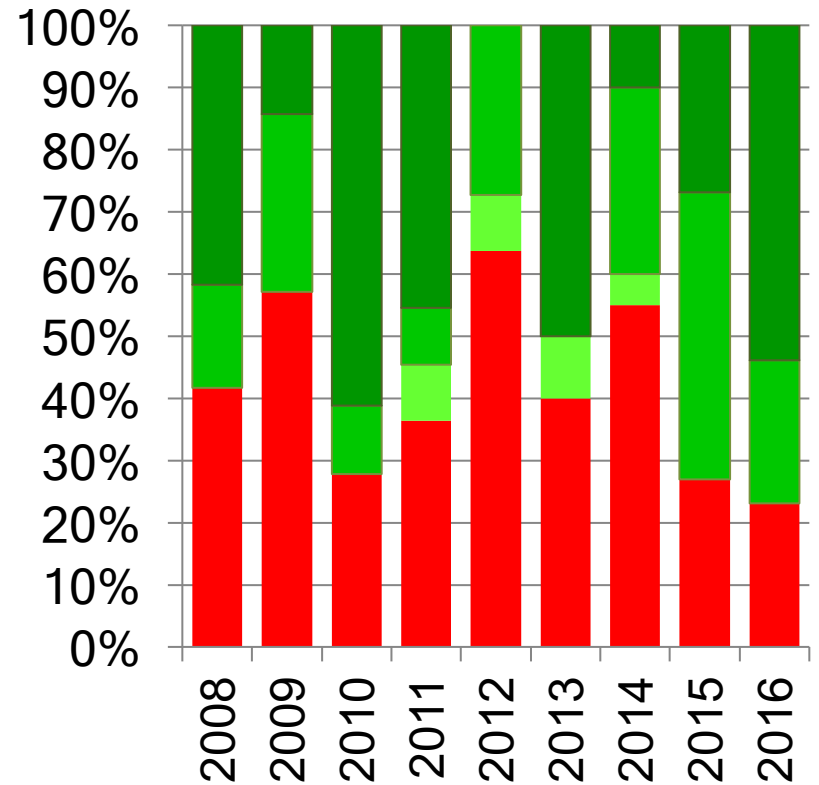
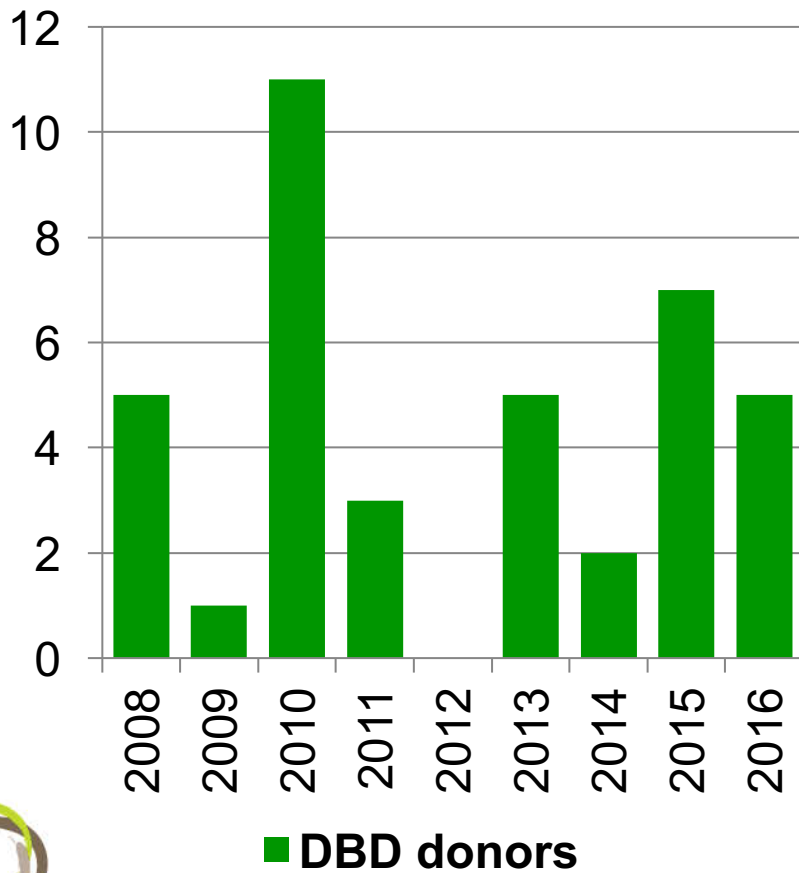
% PossBD in All ICUs 2008–2016



“NotNot” in an “improved” ICU 2008–2016



“NotNot” in an inconsistent ICU 2008–2016



Conclusion

The recent increase in donation is associated with an increase in ICU donation-related activities

ODNZ Hypothesis:

The increase reflects

Increased awareness of ICU staff of opportunities for donation

followed by

- Increase in consultation with ODNZ
- Increase in families being offered organ donation
- An effect of our quality improvement program



The future?

- Try to reduce the “NotNot” group i.e. those who do not have donation discussed with their family and are not discussed with ODNZ
- If more donors are to be found, this is where they will be
- Continue this program provided that ODNZ continues to exist



The End

