

Reducing the Impact of Organ Retrieval on Daytime Emergency Operating Lists at a Level 1 Hospital

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Introduction

- There has been a **92%** increase in deceased organ donation since 2008.
- Combined with the increasing length of the donor pathway, retrieval at North Bristol Trust (NBT) was increasingly becoming a procedure that took place during 'daytime' hours when operating theatre utilisation was maximal.
- This led to retrieval taking place on the general surgical operating list with a perception that other emergencies were being delayed with subsequent increase in hospital length of stay for those patients.
- We implemented numerous interventions (listed below) to reduce the length of the donation process and restore organ retrieval to primarily an overnight procedure

Methodology

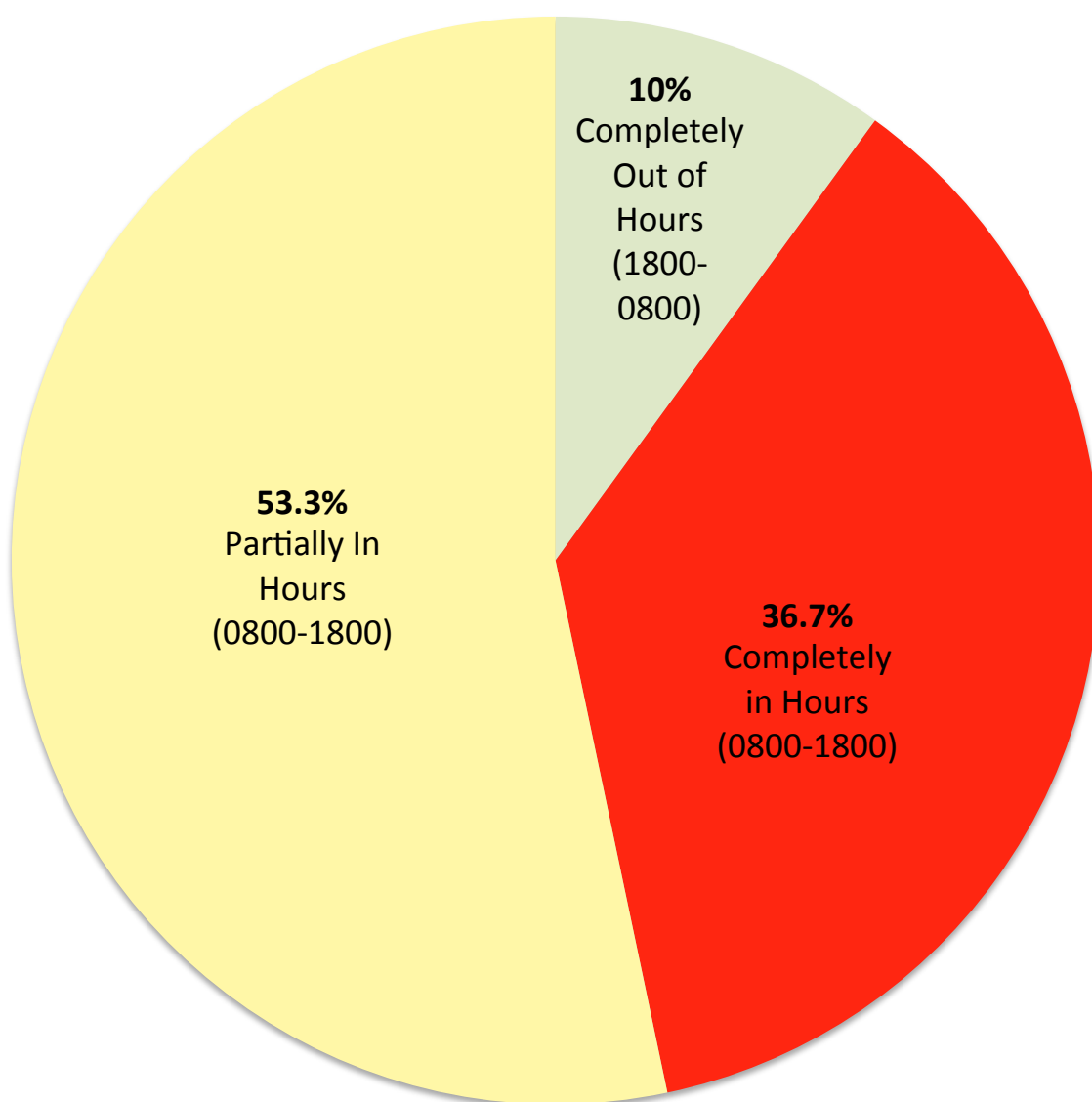
An audit of all organ retrievals from April 2017- June 18 demonstrated that **90%** occurred at least partially during daytime hours (0800-1800). A number of interventions were subsequently undertaken to reduce the length of the donor pathway including:

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| 1. Early tissue typing for patients on the organ donor register | 6. Pre made brain stem death testing (BSDT) pack established |
| 2. Two SNODS working in parallel – one dedicated for family support | 7. Performing BSDT before midday |
| 3. Early GP and coroner referral | 8. Asking for early GP summary |
| 4. Pre made tissue typing and virology boxes | 9. Clinical review overnight prior to BSDT in the morning |
| 5. SNOD profile established on online blood request system | 10. Pre-population of donor path between referral and consent |

Results

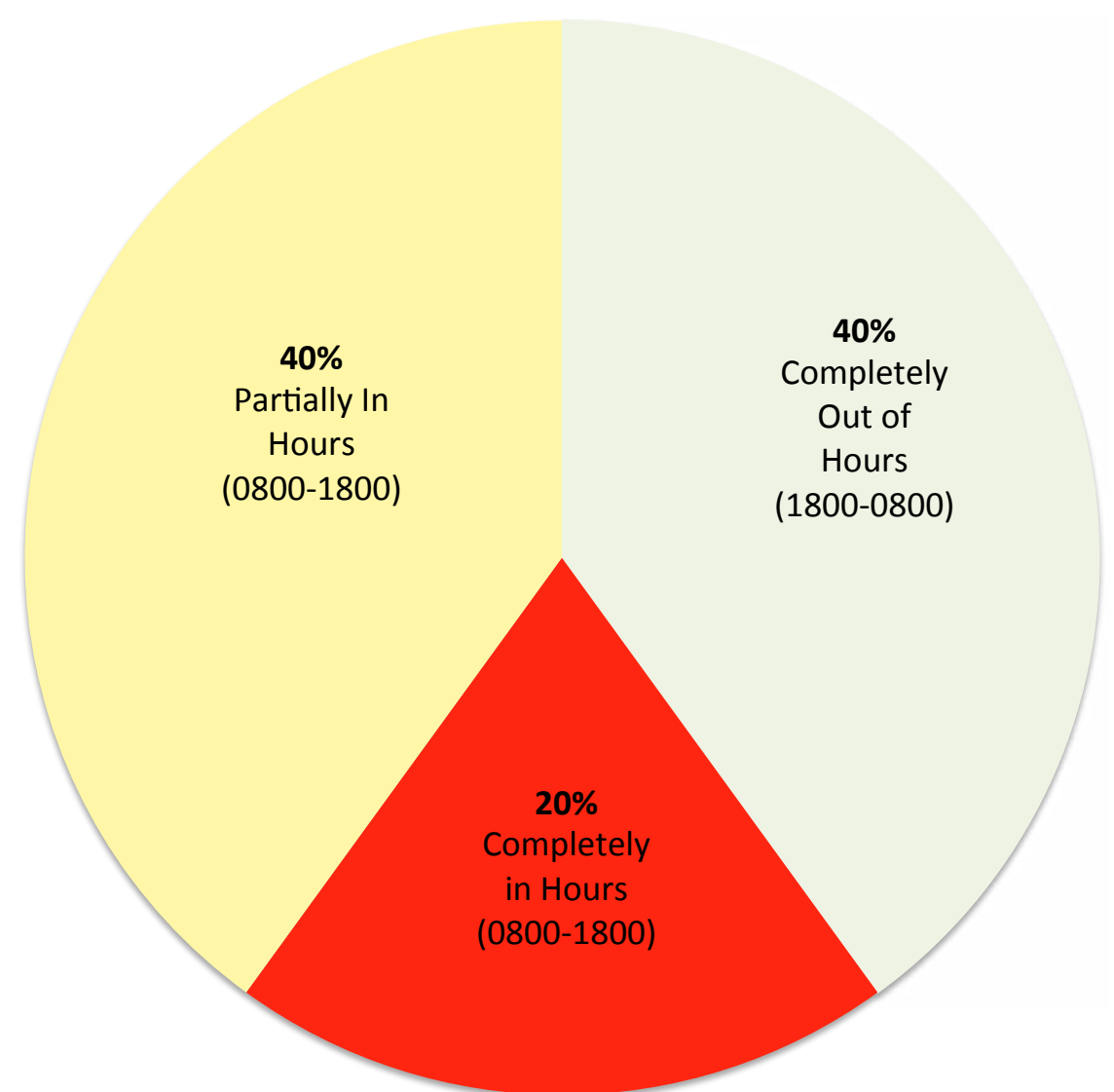
Pre-Intervention

- 30 organ retrieval procedures at NBT from April 2017 – June 2018
 - **10%** only occurred completely out of hours (1800-0800)
 - **90%** occurred at least partially during day time hours (0800-1800)



Post-Intervention

- 19 organ retrieval procedures at NBT from July 2018 – Jan 2019
 - **40%** occurred completely out of hours (1800-0800)
 - **60%** occurred at least partially during day time hours (0800-1800)



Conclusions

- Multiple, low-scale changes contributed to a reduction in the length of the donation pathway
- This led to a **30%** increase in organ retrievals occurring completely of our hours reducing subsequent impact on the general emergency operating list
- Shortening donation pathway time also welcome by relatives of deceased
- Interventions are potentially adoptable by other NHS Trusts

Future Challenges Impacting Theatre Timings

- Time registering donor with ODT Hub Operation (offering process)
- NORS team availability
- Organ Care System

Further Information:

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