

QUOD Statistics

October 2017

QUOD Bioresource Key Figures

Date 1 October 2017

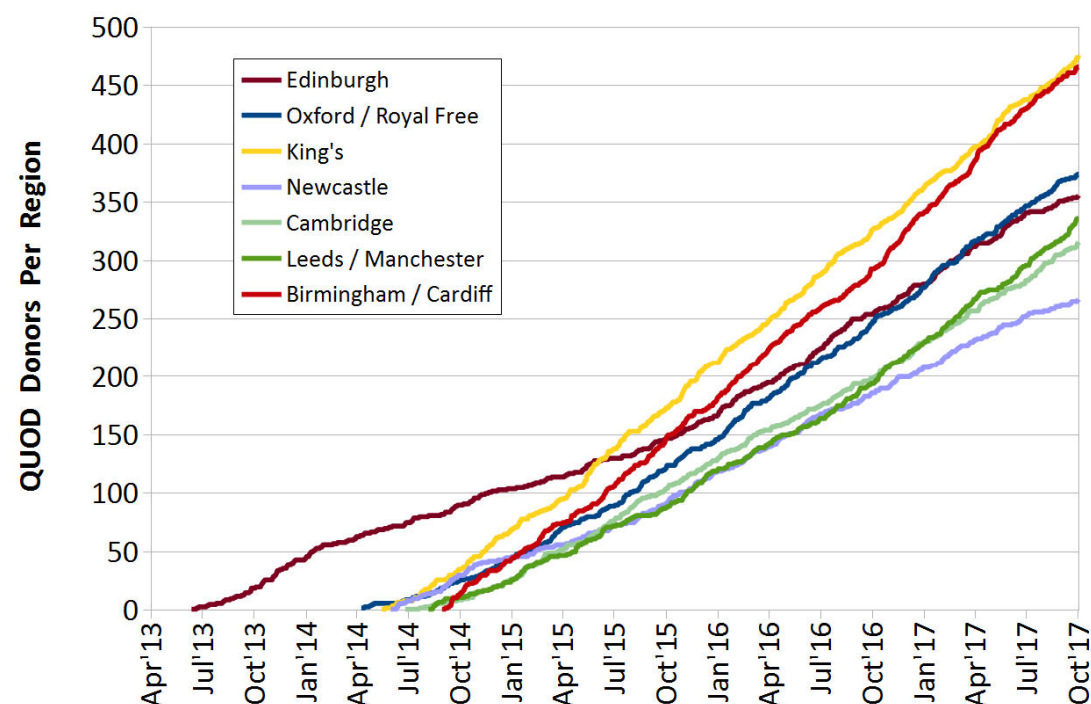
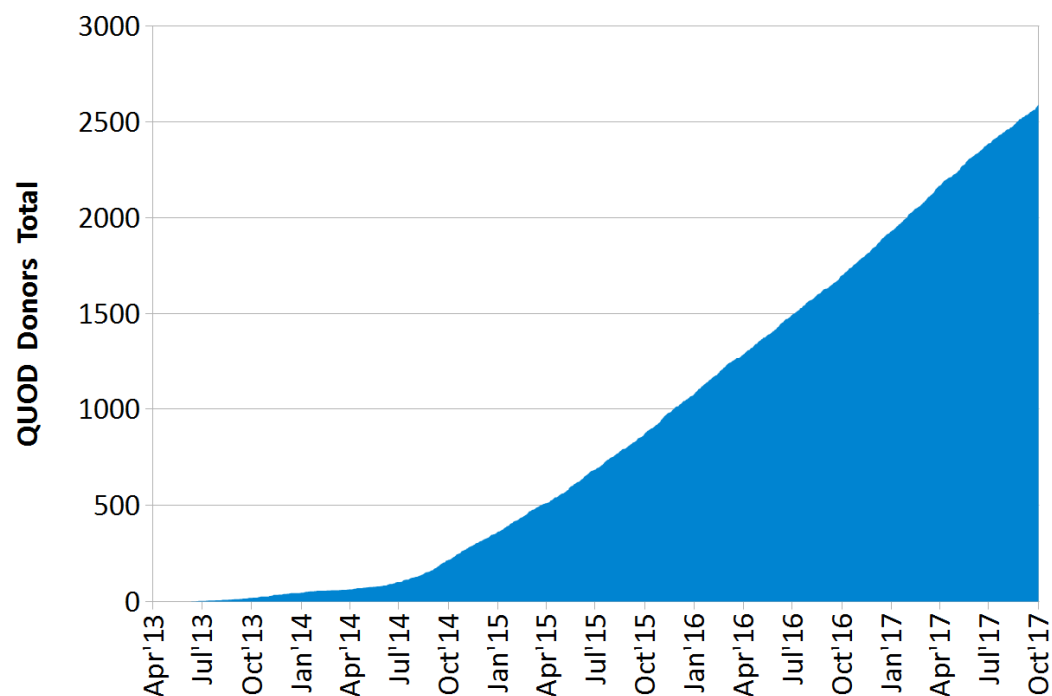
Donors 2,591

Samples 45,486 in total, including:

Blood	24,460 samples
Urine	5,675 samples
Kidney	6,197 samples (3,128 biopsies)
Liver	3,461 samples (1,739 biopsies)
Ureter	3,780 samples (1,903 biopsies)
Spleen	1,913 samples (1,913 biopsies)

Units 271,949 biobank items

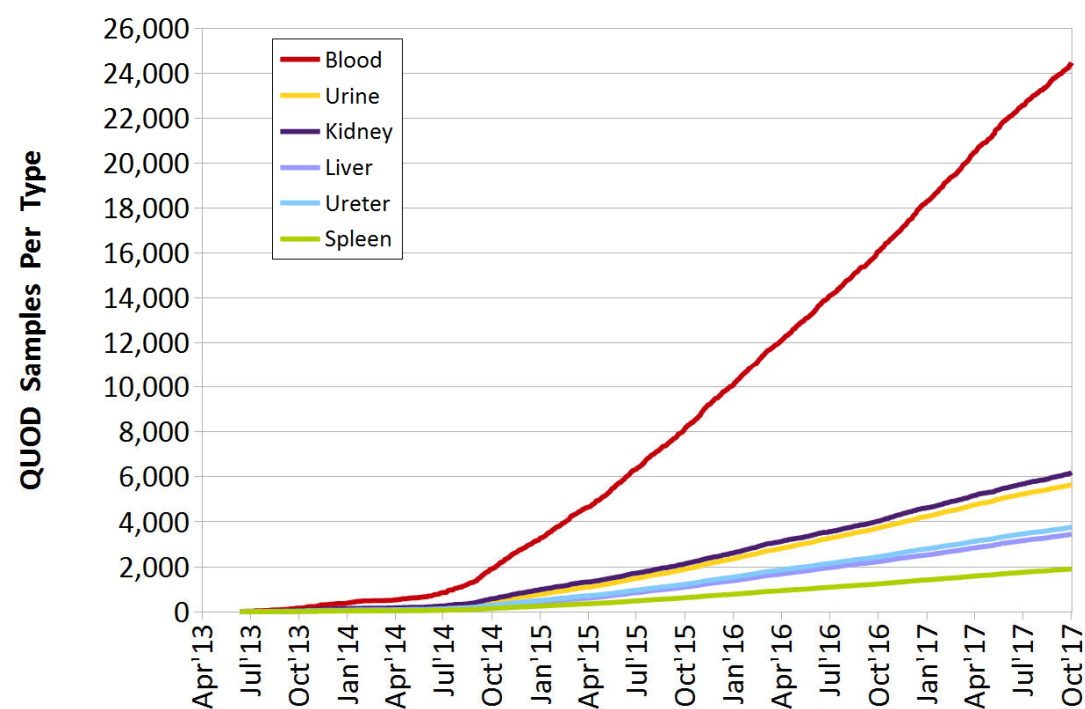
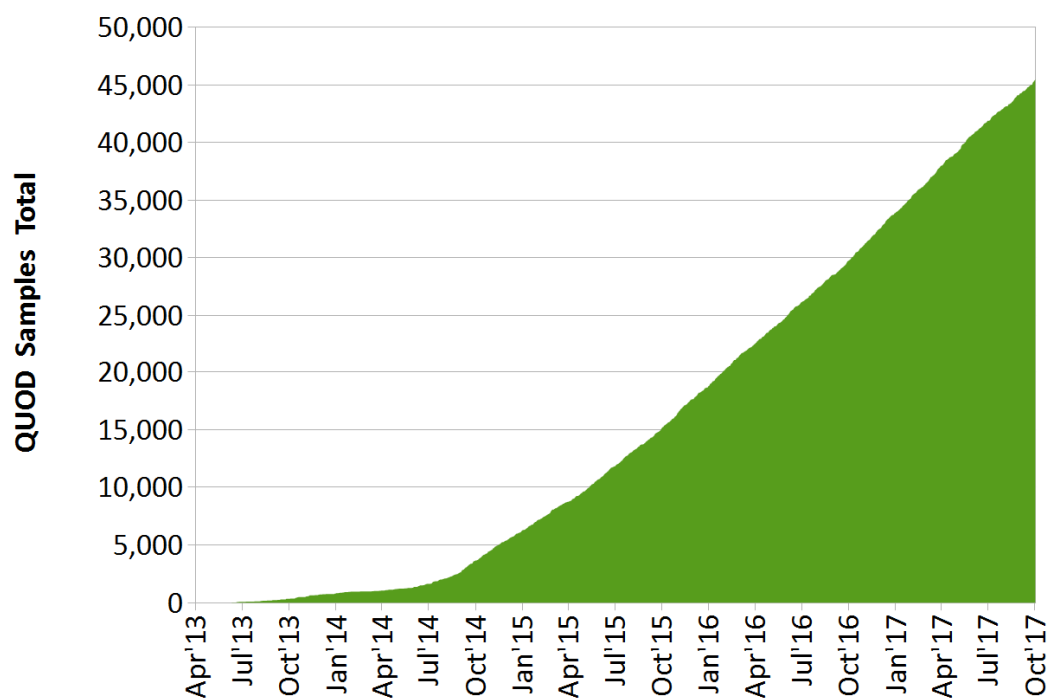
QUOD Donors In Total and Per Region



Milestone:

2,500 donors were enrolled into the QUOD Bioresource by 22 August 2017

QUOD Samples In Total and Per Type



QUOD Sample Collection Metrics

Statistics Coverage Period:			Jun'13 – Sep'17			Legend:		CS – Collected Samples (%) MS – Missed Samples (%)				EC – Expected and collected EM – Expected but missing				NN – Not expected and not collected NC – Not expected but collected					
Donors Covered By Samples:			2558			Tissue Samples:		CS	MS	EC	EM	NN	NC	Blood Samples:		CS	MS	EC	EM	NN	NC
Donor Groups:						DL RNAlater		86%	14%	1705	289	551	13	DB1		29%	71%	741	1817	0	0
DBD Total			1250	49%	DL Formalin		86%	14%	1706	288	551	13	DB2		94%	6%	2413	145	0	0	
– DBD Actual			1198	47%	DLK RNAlater		77%	23%	1531	463	556	8	DB3		92%	8%	2347	211	0	0	
– DBD Non-proceeding			52	2%	DLK Formalin		77%	23%	1534	460	556	8	DB4		89%	11%	1113	137	1296	12	
DCD Total			1308	51%	DRK RNAlater		77%	23%	1538	456	557	7	Blood Samples – Detailed:		CS	MS	EC	EM	NN	NC	
– DCD Actual			796	31%	DRK Formalin		77%	23%	1540	454	557	7									
– DCD Non-proceeding			512	20%	DLU RNAlater		94%	6%	1865	129	553	11	DB1 EDTA		9%	91%	236	2322	0	0	
					DLU Formalin		94%	6%	1868	126	553	11	DB1 Heparin		1%	99%	37	2521	0	0	
													DB1 SST		6%	94%	145	2413	0	0	
					DS RNAlater		95%	5%	1886	108	550	14	DB1 Plasma Other		2%	98%	45	2513	0	0	
Donor Groups Summary:													DB1 Serum Other		12%	88%	318	2240	0	0	
Actual donors			1994	78%	Urine Samples:		CS	MS	EC	EM	NN	NC	DB2 EDTA		94%	6%	2411	147	0	0	
Non-proceeding donors			564	22%	DU2		88%	12%	2261	297	0	0	DB2 Heparin		94%	6%	2405	153	0	0	
					DU3		89%	11%	2277	281	0	0	DB2 SST		94%	6%	2398	160	0	0	
Notes:						DU4		85%	15%	1058	192	1281	27	DB3 EDTA		92%	8%	2342	216	0	0
													DB3 Heparin		91%	9%	2335	223	0	0	
													DB3 SST		91%	9%	2316	242	0	0	
Note 1 – Tissue samples are expected to be collected only for actual donors.													DB4 EDTA		89%	11%	1111	139	1296	12	
For tissue samples, sum of EC and EM equals the number of actual donors,													DB4 Heparin		89%	11%	1107	143	1296	12	
and sum of NN and NC equals the number of non-proceeding donors.													DB4 SST		88%	12%	1102	148	1296	12	
Note 2 – DB4 and DU4 samples are expected to be collected only for DBD donors.																					
For these samples, sum of EC and EM equals the number of DBD donors,																					
and sum of NN and NC equals the number of DCD donors.																					
Note 3 – DB1/2/3 and DU2/3 are expected to be collected for all donors.																					

Note 1 – Tissue samples are expected to be collected only for actual donors.
For tissue samples, sum of EC and EM equals the number of actual donors,
and sum of NN and NC equals the number of non-proceeding donors.

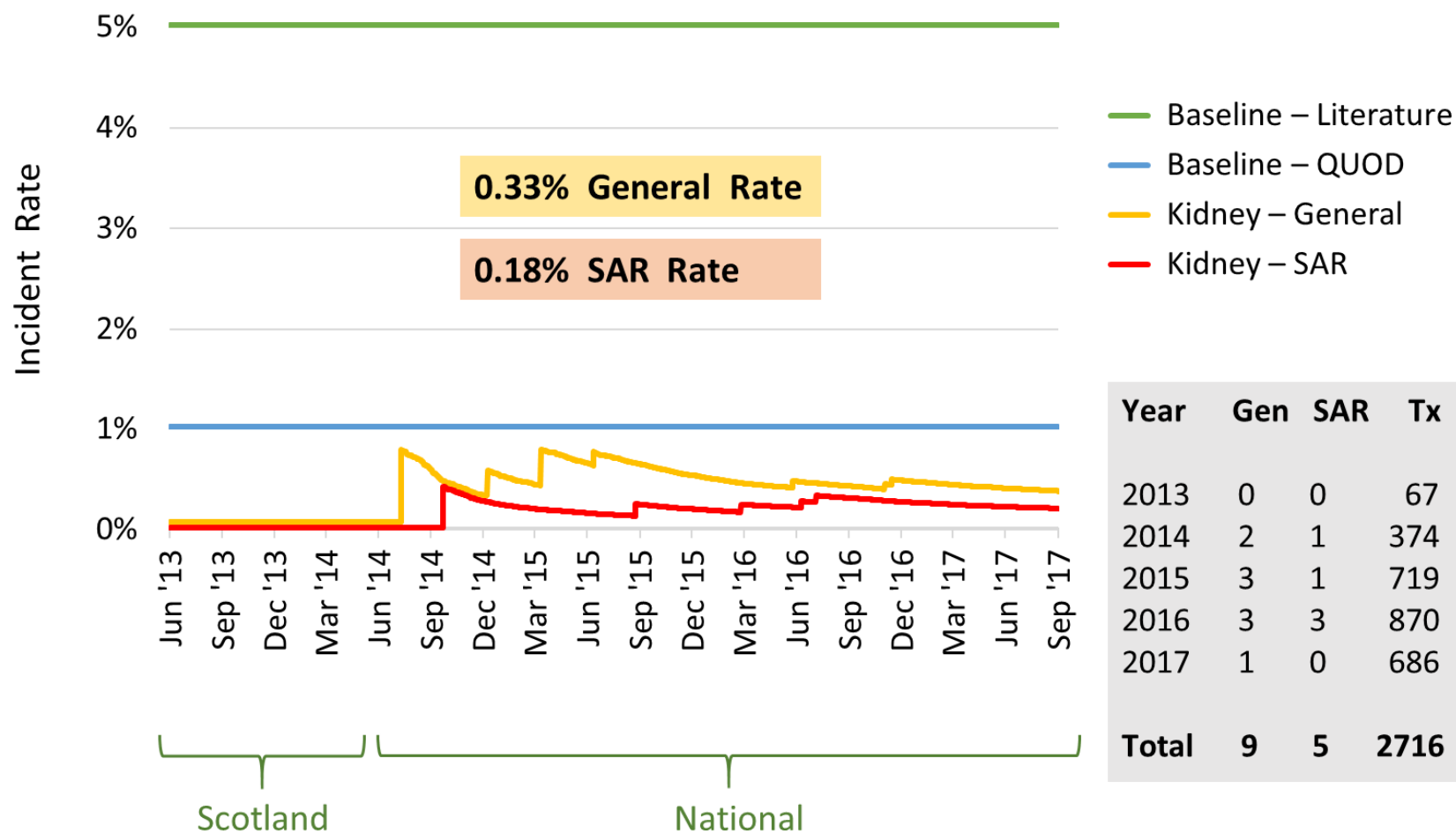
Note 2 – DB4 and DU4 samples are expected to be collected only for DBD donors.
For these samples, sum of EC and EM equals the number of DBD donors,
and sum of NN and NC equals the number of DCD donors.

Note 3 – DB1/2/3 and DU2/3 are expected to be collected for all donors.

QUOD Biopsy and Incident Metrics



Kidney Biopsies (Tx)



General Incidents:

Clinical incidents – no significant recipient consequences or thought not to be attributable to a QUOD biopsy

Serious Adverse Reactions:

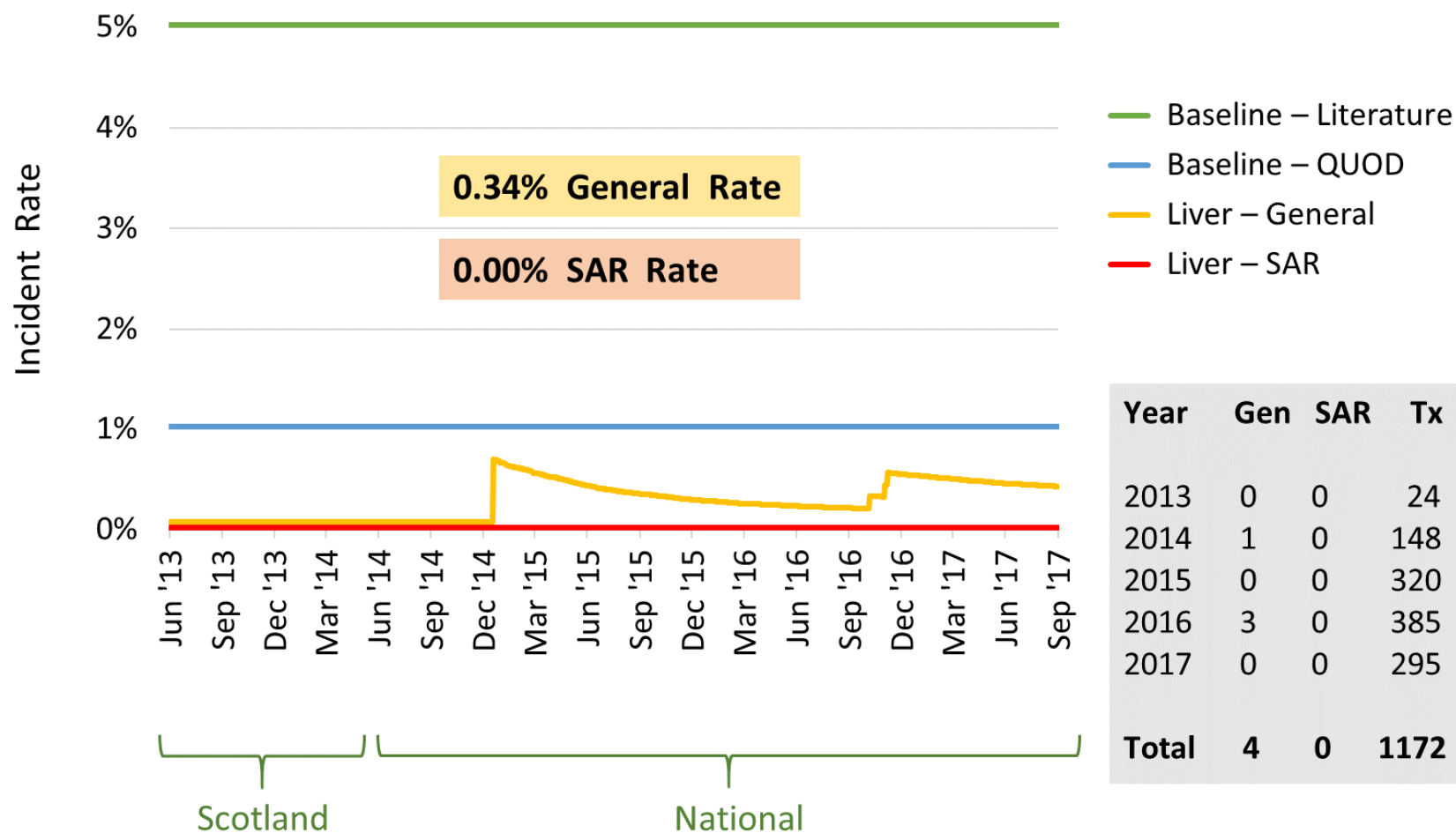
Clinical incidents with recipient consequences – considered as most likely due to a QUOD biopsy

Year	Gen	SAR	Tx
2013	0	0	67
2014	2	1	374
2015	3	1	719
2016	3	3	870
2017	1	0	686
Total	9	5	2716

QUOD Biopsy and Incident Metrics



Liver Biopsies (Tx)



General Incidents:

Clinical incidents – no significant recipient consequences or thought not to be attributable to a QUOD biopsy

Serious Adverse Reactions:

Clinical incidents with recipient consequences – considered as most likely due to a QUOD biopsy

Year	Gen	SAR	Tx
2013	0	0	24
2014	1	0	148
2015	0	0	320
2016	3	0	385
2017	0	0	295
Total	4	0	1172

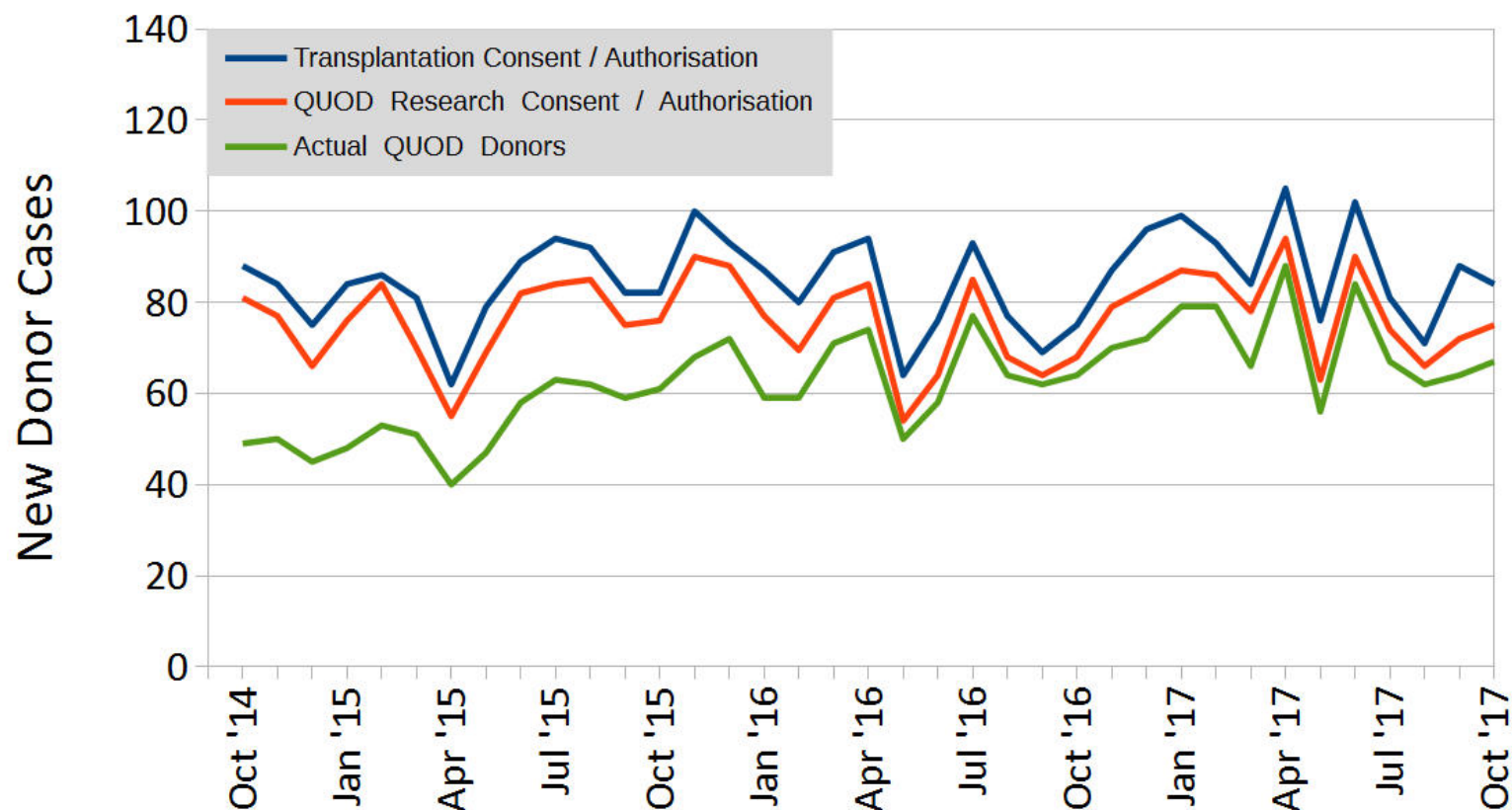
QUOD Biopsy and Incident Metrics



Literature References:

- Peters et al (2017). Acta Radiol. 58(2):240-8.
- Chunduri et al (2015). Semin Dial. 28(2):E11-4.
- Furness et al (2003). Transplantation. 76(6):969-73.
- Cozens et al (1992). Br J Radiol. 65(775):594-7.

Consent for QUOD Research and Actual QUOD Donors — Per Month

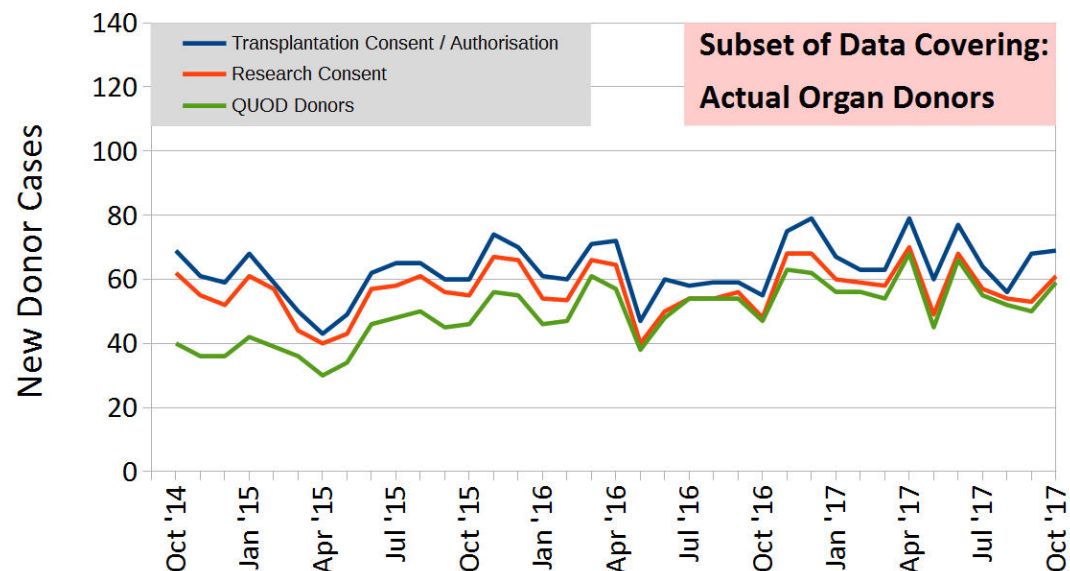


All Donors (Proc + Non)

Cases in Sep '17:

84 Tx Consent / Auth
75 Res. Consent / Auth
67 Actual QUOD Donors

* Research consent data for Jan-Mar '16 was imputed due to unavailability from records

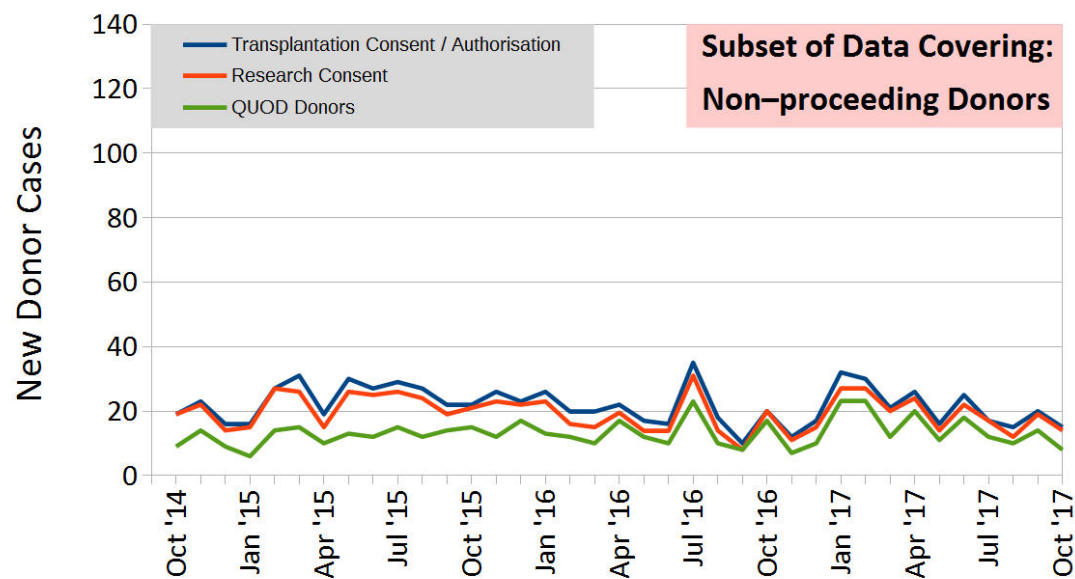


* Research consent data for Jan-Mar '16 was imputed due to unavailability from records

Actual Organ Donors

Cases in Sep '17:

69 Tx Consent / Auth
61 Res. Consent / Auth
59 Actual QUOD Donors



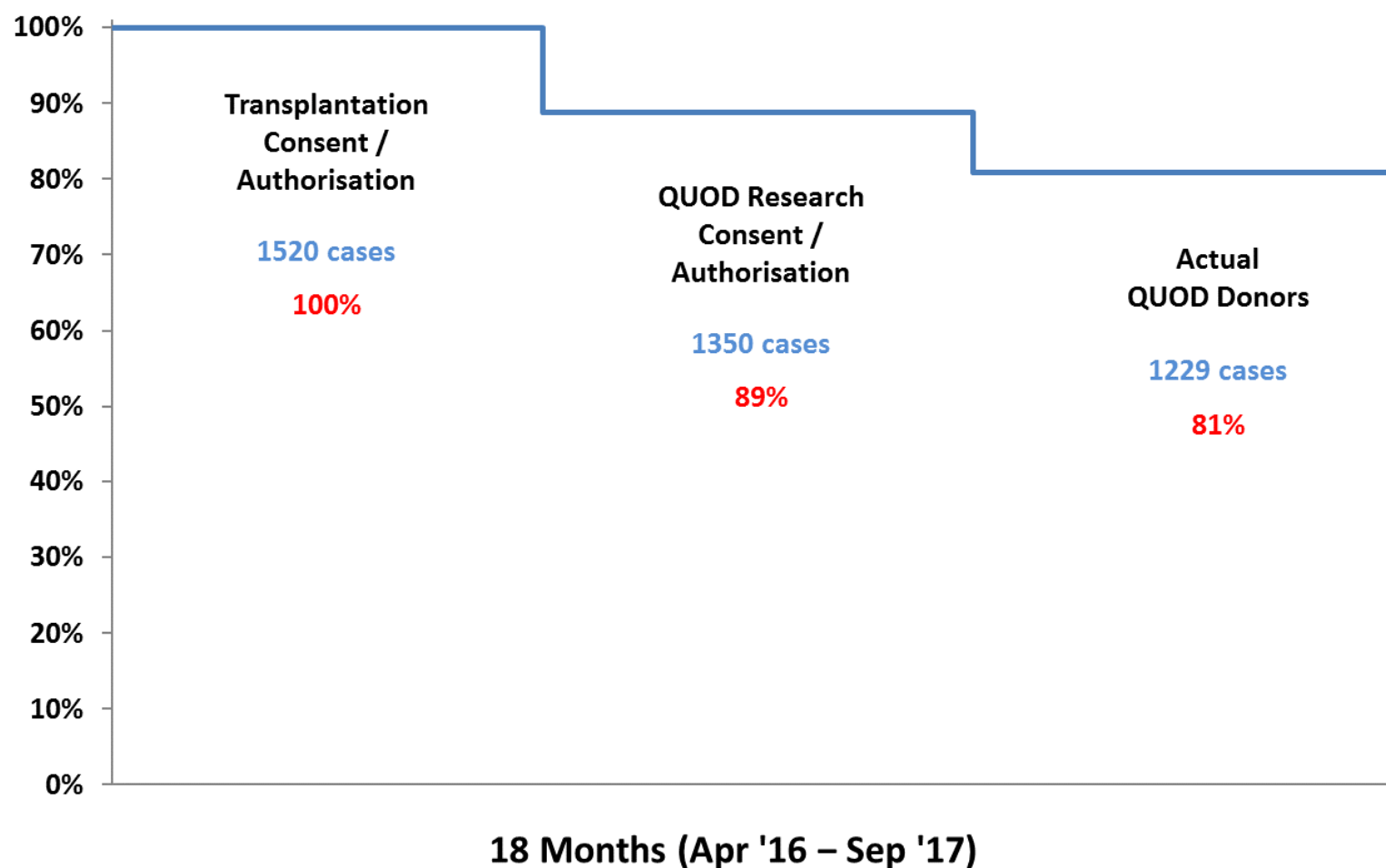
* Research consent data for Jan-Mar '16 was imputed due to unavailability from records

Non-proceeding Donors

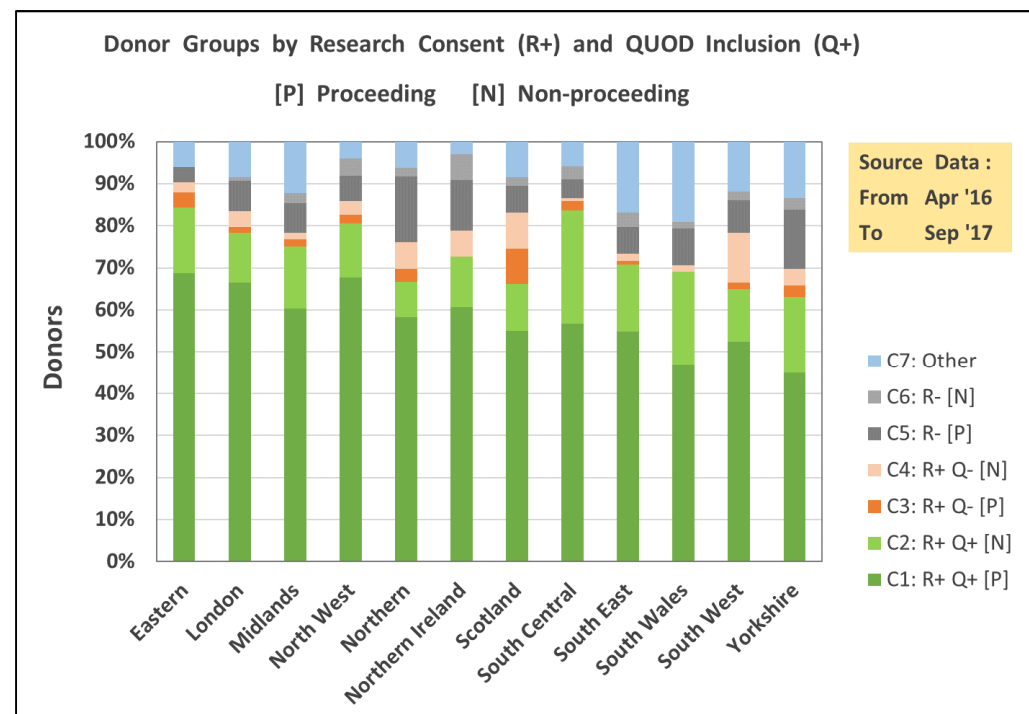
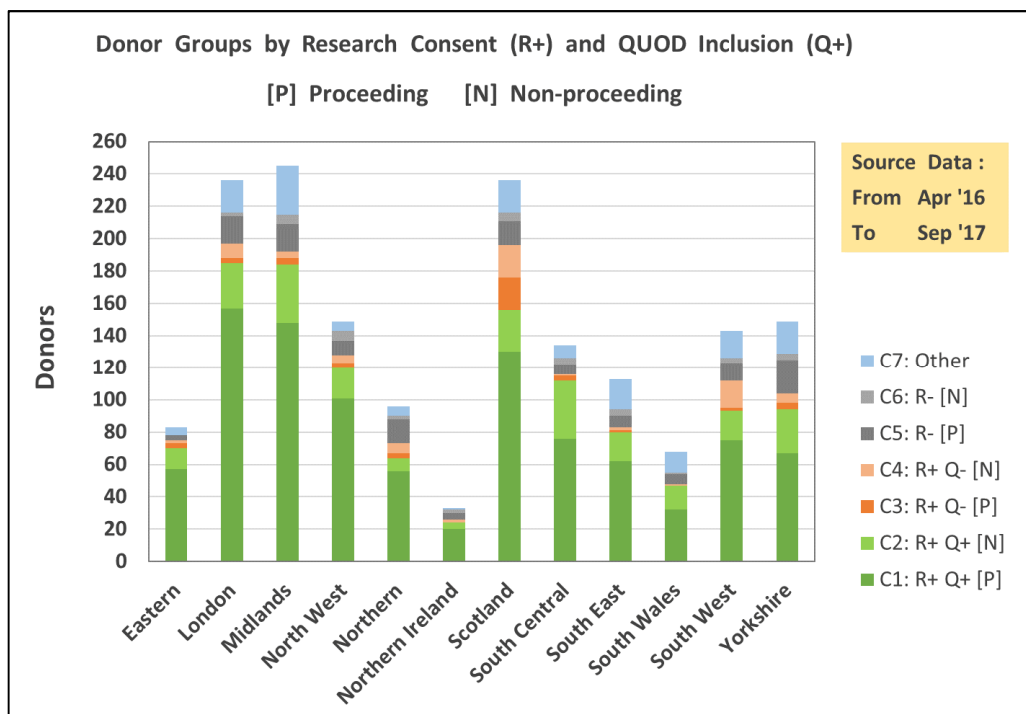
Cases in Sep '17:

15 Tx Consent / Auth
14 Res. Consent / Auth
8 Actual QUOD Donors

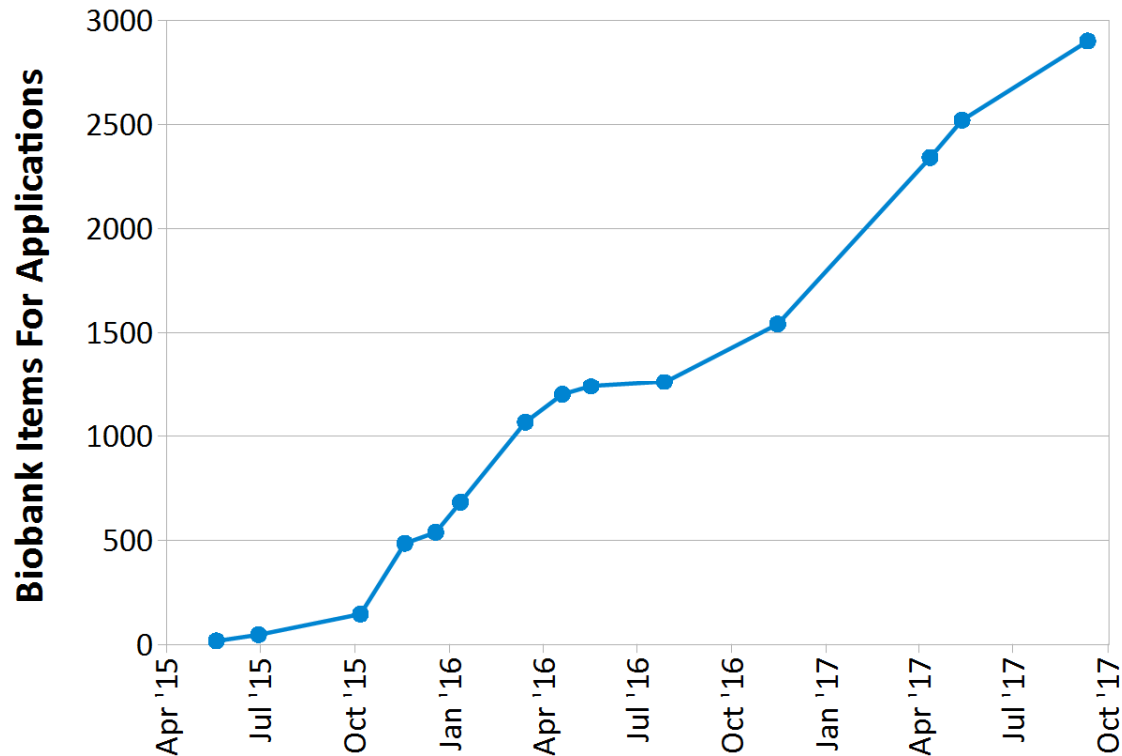
Consent for QUOD Research and Actual QUOD Donors — Step Chart



Consent for QUOD Research and Actual QUOD Donors — Per SNOD Team



QUOD Samples Issued to Applications



- Latest issued samples (Sep'17) : RAP028 (Khorsandi), RAP030 (Brennan)
- Samples were issued to 14 research applications, as complete or phased sample sets
- Issued samples account to 1% of QUOD biobank items, while covering 15% of donors
- Further samples will be allocated and issued to 13 approved research applications