

Expanding our Donor Base

The donors we have

Moira Keogh
6th October 2021



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PATIENTS LIVES,
TOGETHER



WE
LEAD BY
EXAMPLE



WE
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WE
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Presentation Outline



- **Look at the donor base that we have in Ireland**
- **What are the differences between donors born in Ireland and born outside of Ireland**
- **Challenges for the IBTS in supplying rarer blood types**



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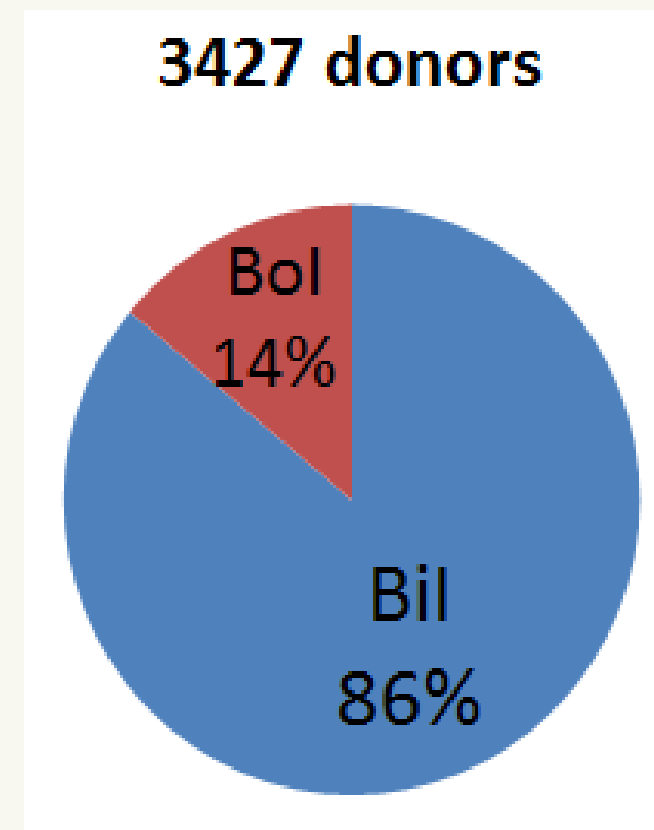


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RESEARCH ARTICLE

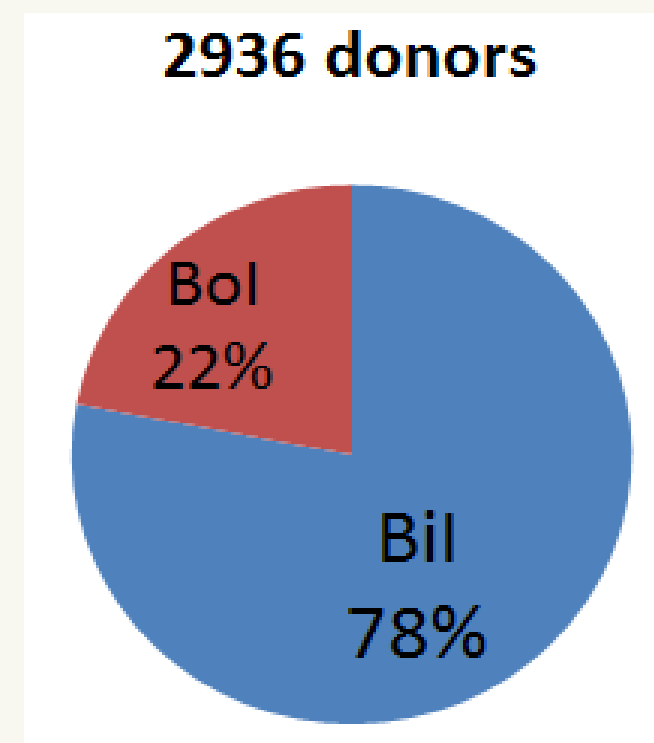
A snapshot of ABO, RH, and JK blood group systems in modern Ireland

Anne Browne¹ | Anthony Kinsella² | Moira Keogh¹ | Kieran Morris¹ | Stephen Field¹



The effects of a changing population on the Irish
Blood Transfusion Service Automated Donor
Grouping Laboratory

By Michele Birmingham



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Antigens tested

ABO

~~**RhD**~~

RhCE

~~**K**~~

~~**Jka**~~

~~**Jkb**~~

~~**Fya**~~

~~**M**~~

S

**R1R1 (C+E-c-e+) is more common in donors born outside Ireland
Bil 17%, Bol 24%**

**S+ is more common in donors born outside Ireland
Bil 51%, Bol 56%**



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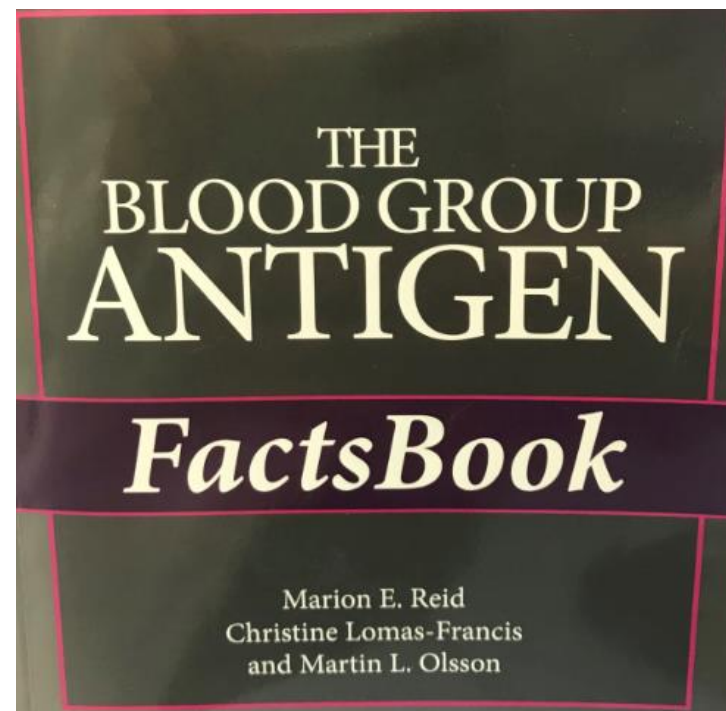
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THE FREQUENCY OF THE A B O BLOOD GROUPS IN DUBLIN

G. W. P. DAWSON
Trinity College, Dublin, Ireland

Received 12.x.51

Phenotypes (% occurrence)

	Caucasians [^]	Blacks [^]	Asian [^]	Mexican
A ₁	33	19	27	22
A ₂	10	8	rare	6
B	9	20	25	13
O	44	49	43	55
A ₁ B	3	3	5	4
A ₂ B	1	1	rare	rare



Null O is the amorph; O_h (the Bombay phenotype) depends on the *FUT1/FUT2* loci, see H system [018]

Unusual Many subgroups of A and B (see phenotype tables in major text books)

[^]Major variation occurs between ethnic subgroups within these main populations.

TABLE 3

Source	O	A	B	AB	Totals
Boyd and Boyd *	220	124	48	7	399
Sachs (1940)	1305	789	280	61	2,435
Hooper (1947)	2394	1557	569	123	4,643
Present data	5050	3079	1019	240	9,388
Totals	8969	5549	1916	431	16,865
Percentages	53.18114	32.4646	11.36081	2.55559	100.00000



χ^2 for 9 degrees of freedom = 11.26985
P = 0.25

* Cited by Weiner (1943).



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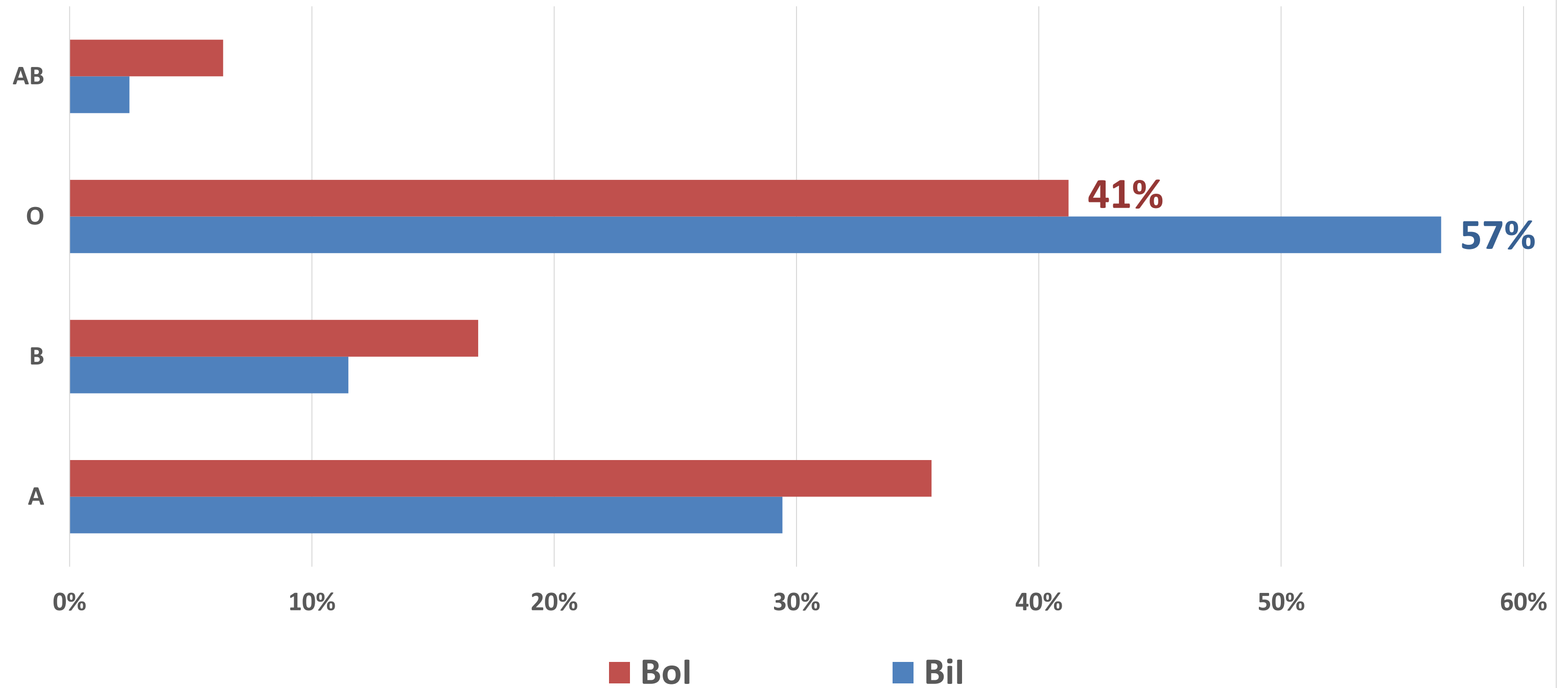


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Difference in ABO prevalence for donors Born in Ireland and Born outside Ireland



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Case study – Anti-Jk3



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Browne et al (2021) and Birmingham et al (unpublished) both identified the west of Ireland as an area with a higher concentration of group O blood



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In our 2019 study, Polish people accounted for 15% of donors born outside Ireland, with a high rate of group A observed



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**We need!
R0r
U-
Fya-b-
hrb-**



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- **Targeted collections**
- **Donor ethnicity**
- **Identify and recruit our Black donors**
- **Identify barriers to donation in these communities**



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