

ISBT
CANCUN
2012

32nd International Congress of the ISBT
in joint cooperation with the 10th Congress of AMMTAC
Cancun, Mexico, July 7 - 12, 2012



ISBT WORKING PARTY ON RARE DONORS

FRANCE

Have a national Rare Donor Program: **Yes**

Number of Donors in Database: **1780**

Definition of a donor: ≥ 1 cryopreserved RBC unit

Definition of Rare: **Prevalence $< 1/250$**

Legal definition, which only considers the rare specificity prevalence (not the associated type)

Number of Frozen Rare Cells: **6315** (-80°C)



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How are Rare Donors found?:

- **Extended phenotype** in ~15% of new blood donors: Rh (C,E,c,e), Kell (K), Duffy (Fy^a,Fy^b), Kidd (Jk^a,Jk^b), MNS (M,N,S,s)
Optional: k and Lu^a typing if K⁺ or Lu(b⁺), respectively
- **Mass screening RBC typing** (e.g. Yt(a-) and Vel-)
- **Study of patients** with an antibody to a high-prevalence antigen
- **Incident finding in a patient** when extended **phenotype** or **genotype** is performed
- **Sibling testing**

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Number of Rare Donor units used per year:

309 RBC units (56 patients) in 2011

4.7 RBC units/million inhabitants/year

Shipping Outcome form used?: **No**



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Most difficult types to find:

U- O, D-C-E-, K-, Fy(a-b-), Jk(b-) (4 donors)

Fy(a-b-) O, D-C-E-, K-, Jk(b-), S-s+, Js(a-), VS-
(8 donors; 3 donors if M- and 1 donor if M-,Do(a-))

Vel- O, E-c-, K- (2 donors)

Rh_{null} (1 donor, group A) and **D - -** (5 donors)

Hr- (5 donors) and **Hr^B-** (11 donors)



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Other items of interest:

- No time limit in France for RBC storage at -80°C
- RBC units drawn after 2005: 7-day outdate after thawing
- 2007-2012: 3% of thawed RBC units shipped abroad : Austria, Belgium, Canada, Germany, Sweden, Switzerland
- Cost of one rare thawed RBC unit: ~400 euros (500 \$), vs ~200 euros for a standard fresh RBC unit