

Supplementary Table 1: Ratio of the age groups 15 to 64 years and > 64 years in different countries (arranged according to ratio in 2030, sorted into groups A-D (Fig. 1)^{19,27-31})

		2005	2010	2015	2020	2030
A	Norway	4.46	4.44	4.09	3.81	3.33
	Ireland	6.14	6.05	4.99	4.31	3.30
	USA	5.41	5.13	4.44	3.84	2.99
	Belgium	3.81	3.83	3.61	3.40	2.90
	United Kingdom	4.15	4.06	3.65	3.39	2.87
B	Czech Republic	5.04	4.60	3.76	3.20	2.84
	Poland	5.36	5.23	4.52	3.69	2.82
	Sweden	3.79	3.61	3.22	3.03	2.82
	Switzerland	4.30	4.05	3.78	3.49	2.80
	Denmark	4.41	4.02	3.46	3.19	2.74
C	Canada	5.33	4.92	4.21	3.60	2.68
	Austria	4.28	3.84	3.63	3.42	2.67
	France	3.99	3.90	3.42	3.06	2.56
	Spain	4.15	4.07	3.58	3.29	2.53
	Netherlands	4.82	4.39	3.68	3.24	2.49
D	Italy	3.41	3.21	2.97	2.86	2.45
	Finland	4.19	3.91	3.20	2.80	2.42
	Portugal	3.88	3.63	3.22	2.91	2.32
	Germany	3.60	3.18	3.13	2.79	2.13
	Mecklenburg-West Pomerania	3.55	3.01	2.81	2.35	1.78

Demographics and blood supply

Supplementary Table 2: Characteristics of the recipients of red blood cell concentrates and the donors of whole blood by type of hospital or type of blood center (year 2015)

Recipients of red blood cell concentrate transfusions (in-hospital transfusions)

	Overall	University hospitals Greifswald and Rostock	All other hospitals
N	82,591	24,659	57,923
% female	43.2	37.3	45.6
median age (years)	71.6	67.2	73.1

recipients: transfusions / 1,000 population

Age group	Total	Male	Female
0-19	4.2	4.4	4.1
20-39	7.2	5.6	9.1
40-59	37.2	45.1	28.8
60-79	103.4	136.9	73.4
≥ 80	190.1	235.9	149.6
Total	51.2*	58.6 [#]	42.5

Whole blood donors

	Overall	Hospital-based blood centers/private blood service	Red Cross Blood Donation Service
Number of whole blood donations	97,045	23,578 / 10,951	62,516
% female	45.0§	43.0 / 33.1	47.8
median age (years)	45	32 / 28	50

* including 9 patients with missing age and 271 with missing sex; # including 7 patients with missing age § including 1 blood donor with missing sex