

SUPPORTING INFORMATION

Additional Supporting Information may be found online in the supporting information tab for this article.

Table S1. Studies reporting results of potential living kidney donor evaluations.

| City, Country and Publication Year | Study Years | Number Evaluated and Outcomes (N) | | | | Reasons for Not Donating (%) | | | | | |
|---|-------------|-----------------------------------|-------------|-------------|---------|------------------------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------|
| | | Evaluated | Donated (%) | Not Donated | Pending | Medical Risk ^a | Psychosocial ^b | Better Donor ^c | Incompatible ^d | Not Needed ^e | Other ^f |
| Leicester, UK 2000 ⁶ | 94-98 | 269 | 35 (13) | 225 | 9 | 11 | 14 | 33 | 27 | 14 | 1 |
| Mansoura, Egypt 2004 ⁷ | 93-01 | 1661 | 847 (51) | 814 | 0 | 64 | 8 | --- | 16 | --- | --- |
| London, UK 2004 ⁸ | 97-01 | 189 | 34 (18) | 155 | 0 | 24 | 27 | --- | 30 | 15 | 3 |
| Cape Town, South Africa 2005 ⁹ | 00-03 | 117 | 20 (17) | 97 | 0 | 19 | 9 | 7 | 30 | 4 | --- |
| Charleston, SC, USA 2006 ¹⁰ | 00-04 | 1169 | 119 (10) | 1050 | 0 | 43 | 5 | --- | 10 | 41 | --- |
| Philadelphia, PA, USA 2010 ¹¹ | 00-05 | 982 | 452 (46) | 525 | 5 | 19 | 2% | --- | 32 | 23 | --- |
| Ann Arbor, MI, USA 2011 ¹² | 96-06 | 2519 | 1156 (46) | 1350 | 13 | 50 | 13 | 2 | 6 | 16 | 11 |
| Winston-Salem, NC, USA 2009 ¹³ | 03-06 | 654 | 85 (13) | 541 | 0 | 55 | 7 | 15 | 27 | 4 | 2 |
| Rotterdam, Netherlands 2009 ¹⁴ | 00-07 | 1059 | 581 (55) | 458 | 20 | 18 | 1 | 26 | 25 | 16 | 3 |
| Nashville, TN, USA 2012 ¹⁵ | 04-09 | 706 | 324 (46) | 382 | 0 | 59 | 6% | --- | 0 | 9 | |
| Palo Alto, CA, USA 2011 ¹⁶ | 07-09 | 484 | 39 (8) | 341 | 104 | 42 | 6 | 1 | 17 | 16 | 1% |
| Warsaw, Poland 2013 ¹⁷ | 07-11 | 124 | 49 (40) | 68 | 7 | 33 | 10 | --- | 24 | 25 | --- |
| Rome, Italy 2013 ¹⁸ | 05-12 | 79 | 24 (30) | 45 | 10 | 36 | 16 | --- | 18 | 24 | 7 |
| Dublin, Ireland 2016 ¹⁹ | 00-14 | 883 | 176 (20) | 707 | 0 | 8 | 13 | 37 | 21 | 1 | --- |
| Melbourne, Australia 2018 ²⁰ | 07-15 | 148 | 89 (60) | 59 | 0 | 90 | 0 | --- | 3 | 0 | --- |

| | | | | | | | | | | | |
|---|-------|--------|-----------|------|-----|----|---|-----|----|----|-----|
| Dammam, Saudi Arabia 2019 ²¹ | 08-16 | 2090 | 675 (32) | 1415 | 0 | 29 | 4 | --- | 11 | 12 | --- |
| Total | 93-16 | 13,133 | 4705 (36) | 8232 | 168 | 38 | 1 | 10 | 15 | 16 | 12 |

^a Risk to the donor was considered too high.

^b Psychosocial reasons, including that the donor decided not to donate for unspecified reasons.

^c A better donor was found.

^d Donor and recipient were immunologically incompatible, and paired exchange was not available.

^e Recipient no longer wanted or needed a living donor.

^f Other reasons were given or not specified.

Table S2. Relationship to the intended recipient.

| Relationship | Candidates Evaluated <i>n</i> = 2107 (%) | Donation Decision Made | | <i>P</i> -value Accepted vs Not Accepted |
|--|---|---------------------------------------|---|--|
| | | Not Accepted <i>n</i> = 788 (%) | Accepted to Donate <i>n</i> = 790 (%) | |
| Biological, blood related | 925 (43.9) | 356 (45.2) | 335 (42.4) | 0.31 |
| Non-biological | 1178 (55.9) | 429 (54.4) | 454 (57.5) | |
| Unknown/missing | 4 (0.2) | 3 (0.4) | 1 (0.1) | |
| Biological, blood-related parent | 212 (10.1) | 70 (8.9) | 86 (10.9) | 0.017 ^a |
| Biological, blood-related child | 237 (11.3) | 82 (10.4) | 74 (9.4) | |
| Identical twin | 1 (0.0) | 1 (0.1) | 0 (0.0) | |
| Biological, blood-related full sibling | 278 (13.2) | 116 (14.7) | 111 (14.1) | |
| Biological, blood-related half sibling | 24 (1.1) | 9 (1.1) | 7 (0.9) | |
| Biological, blood-related other relative | 173 (8.2) | 78 (9.9) | 57 (7.2) | |
| Non-biological, spouse | 219 (10.4) | 54 (6.9) | 102 (12.9) | |
| Non-biological, life partner | 21 (1.0) | 8 (1.0) | 5 (0.6) | |
| Non-biological, unrelated: paired donation | 119 (5.7) | 39 (4.9) | 39 (4.9) | |
| Non-biological, unrelated: non-directed donation | 114 (5.4) | 38 (4.8) | 41 (5.2) | |
| Non-biological, living/deceased donation | 1 (0.0) | 1 (0.1) | 0 (0.0) | |
| Non-biological, unrelated: domino | 2 (0.1) | 1 (0.1) | 1 (0.1) | |
| Non-biological, other unrelated, directed donation | 364 (17.3) | 149 (18.9) | 146 (18.5) | |
| Non-biological, other | 338 (16.0) | 139 (17.6) | 120 (15.2) | |

| | | | |
|-----------------|---------|---------|---------|
| Unknown/missing | 4 (0.2) | 3 (0.4) | 1 (0.1) |
|-----------------|---------|---------|---------|

P-values are from the chi-square test.

^a*P*-value from Fisher's exact test.

