## Supplementary Information

Figure S1. Discrete choice experiment design. (A) Attributes and levels used in the discrete choice experiment; (B) Example of a discrete choice experiment choice set.

| Attribute | Levels |
| :---: | :---: |
| Accuracy | $90 \%, 95 \%, 98 \%, 100 \%$ |
| Time of results (gestation in weeks) | $8,10,12,14$ |
| Risk of miscarriage | Small risk (1\%), No risk |

A

| Choice 1 | Test A | Test B |
| :---: | :---: | :---: |
| Accuracy | $95 \%$ | $100 \%$ |
| Time of results | 10 weeks | 12 weeks |
| Risk of miscarriage | Small risk (1\%) | No risk |

Which test would you prefer (tick one box only)?
Test A $\square \quad$ Test B $\quad \square \quad$ Neither $\square$

B
Table S1. Health professional demographic data.

| Demographic data | Total ( $\boldsymbol{n}=\mathbf{7 0}$ ) |
| :---: | :---: |
| Age in years |  |
| Mean (SD) | $43.3(10.98)$ |
| Gender | $50(86.2 \%)$ |
| Female | $8(13.8 \%)$ |
| Male |  |
| Profession | $48(68.6 \%)$ |
| Clinical geneticist | $22(31.4 \%)$ |
| Genetic counsellor |  |
| Years in profession | $9(15.0 \%)$ |
| $\leq 5$ | $25(43.3 \%)$ |
| $6-15$ | $17(28.3 \%)$ |
| $16-25$ | $9(15.0 \%)$ |
| $\geq 26$ | $9(18.8 \%)$ |
| Current practice location | $24(50.0 \%)$ |
| England (London) | $5(10.4 \%)$ |
| England (Regional) | $1(2.1 \%)$ |
| Scotland | $7(14.6 \%)$ |
| Northern Ireland | $2(4.2 \%)$ |
| Outside the UK |  |
| Not in current practice |  |

[^0]Table S2. Service user demographic data.

| Demographic data | Total ( $n=142$ ) | Affected with CF $(n=92)$ | Carrier of CF $(n=50)$ |
| :---: | :---: | :---: | :---: |
| Gender |  |  |  |
| Female | 78 (54.9) | 42 (45.7\%) | 36 (72.0\%) |
| Male | 64 (45.1) | 50 (54.4\%) | 14 (28.0\%) |
| Age in years |  |  |  |
| Mean (SD) | 32.19 (9.84) | 29.33 (9.85) | 37.46 (7.4) |
| Ethnicity |  |  |  |
| White | 140 (99.3\%) | 91 (100\%) | 49 (98.0\%) |
| Other | 1 (0.71\%) | 0 (0\%) | 1 (2.0\%) |
| Highest qualification |  |  |  |
| No qualification | 1 (0.7\%) | 0 (0\%) | 1 (2.0\%) |
| High school | 48 (34.8\%) | 34 (38.6\%) | 14 (28.0\%) |
| Some college or other training | 59 (42.8\%) | 37 (42.1\%) | 22 (44.0\%) |
| Degree or equivalent | 30 (21.7\%) | 17 (19.3\%) | 13 (26.0\%) |
| Relationship status |  |  |  |
| Married/In a relationship | 103 (73.6\%) | 65 (71.4\%) | 38 (77.6\%) |
| Separated/Divorced | 6 (4.3\%) | 1 (1.1\%) | 5 (10.2\%) |
| Widowed | 1 (0.7\%) | 0 (0\%) | 1 (2.0\%) |
| Single | 30 (21.4\%) | 25 (27.5\%) | 5 (10.2\%) |
| Religious faith |  |  |  |
| Yes | 44 (31.9\%) | 23 (25.3\%) | 21 (44.7\%) |
| No | 94 (68.1\%) | 68 (74.7\%) | 26 (55.3\%) |
| Currently pregnant |  |  |  |
| Yes | 4 (2.8\%) | 1 (1.1\%) | 3 (6.0\%) |
| No | 138 (2.8\%) | 91 (98.9\%) | 47 (94.0\%) |
| Number of children |  |  |  |
| None | 79 (56.4\%) | 75 (83.3\%) | 4 (8.0\%) |
| 1 | 33 (23.6\%) | 11 (12.2\%) | 22 (44.0\%) |
| 2 or more | 28 (20.0\%) | 4 (4.5\%) | 24 (48.0\%) |
| Child with cystic fibrosis? |  |  |  |
| Yes | 44 (31.9) | 0 (0\%) | 44 (91.7\%) |
| No | 94 (68.1) | 90 (100\%) | 4 (8.3\%) |

In some cases, numbers may not add up to the total $n$ due to missing data. Percentages may not add up to 100 due to rounding.

Table S3. Service users and health professionals who did not make trades with their choices.

| Test Attributes | Affected with CF <br> $(\boldsymbol{n}=\mathbf{9 2})$ | Carrier of CF <br> $(\boldsymbol{n}=\mathbf{5 0})$ | Health Professionals <br> $(\boldsymbol{n}=\mathbf{7 0})$ |
| :---: | :---: | :---: | :---: |
| Chose tests with highest | $5(5.4 \%)$ | $4(8.0 \%)$ | $5(7.1 \%)$ |
| accuracy for all options |  |  | $1(1.4 \%)$ |
| Chose tests with the | $1(1.1 \%)$ | $2(4.0 \%)$ | $1(1.4 \%)$ |
| earliest time for all options | $45(48.9 \%)$ | $20(40.0 \%)$ | $1(1.4 \%)$ |
| Chose tests with no risk for all options | $3(3.26 \%)$ | $0(0 \%)$ | $8(11.4 \%)$ |
| Chose neither for all options | $54(58.7 \%)$ | $26(52.0 \%)$ | not |
| Total |  |  |  |

Table S4. Ranking of test attributes: Service users.

| Attribute | Ranking (\%) * |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| Early test | 8.27 | 12.78 | 31.58 | 35.34 | 12.03 |
| Accuracy | 18.80 | 48.87 | 23.31 | 9.02 | 0 |
| Cost | 0 | 2.26 | 4.51 | 10.53 | 82.71 |
| Safety | 62.41 | 18.80 | 11.28 | 7.52 | 0 |
| Full information | 12.03 | 17.29 | 28.57 | 36.84 | 5.26 |

Table S5. Ranking of test attributes: Health professionals.

| Attribute | Ranking (\%)* |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| Early test | 4.69 | 28.13 | 50.00 | 14.06 | 3.13 |
| Accuracy | 81.25 | 15.63 | 3.13 | 0 | 0 |
| Cost | 1.56 | 0 | 9.38 | 39.06 | 50.00 |
| Safety | 14.06 | 50.00 | 29.69 | 6.25 | 0 |
| Full information | 0 | 4.69 | 9.38 | 39.06 | 46.88 |


[^0]:    In some cases, numbers may not add up to the total $n$ due to missing data. Percentages may not add up to 100 due to rounding.

