### S1 Table: Code used to derive variables for analysis

<table>
<thead>
<tr>
<th>Variable</th>
<th>Definition</th>
<th>Code from RAAB dataset</th>
</tr>
</thead>
<tbody>
<tr>
<td>x</td>
<td>individuals with unilateral pseudo/aphakia (i.e. operated cataract) and operable cataract in the other eye</td>
<td>(bvare &gt; 2 &amp; causere = 3 &amp; lere ≥ 2 &amp; lele ≥ 3 &amp; lele ≤ 5) OR (bvale &gt; 2 &amp; causele = 3 &amp; lere ≥ 2 &amp; lere ≥ 3 &amp; lere ≤ 5)</td>
</tr>
<tr>
<td>y</td>
<td>individuals with bilateral pseudo/aphakia, regardless of visual acuity</td>
<td>lere ≥ 3 &amp; leres ≤ 5 &amp; lele ≥ 3 &amp; lele ≤ 5</td>
</tr>
<tr>
<td>z</td>
<td>individuals with bilateral operable cataract</td>
<td>bvare &gt; 2 &amp; lere = 2 &amp; bvale &gt; 2 &amp; lele = 2</td>
</tr>
<tr>
<td>a</td>
<td>individuals with unilateral pseudo/aphakia achieving presenting visual acuity of 6/18 or better in the operated eye and operable cataract in the other eye</td>
<td>(bvare &gt; 2 &amp; causere = 3 &amp; lere = 2 &amp; lele ≥ 3 &amp; lele ≤ 5 &amp; pvare = 1) OR (bvale &gt; 2 &amp; causele = 3 &amp; lere = 2 &amp; lere ≥ 3 &amp; lere ≤ 5 &amp; pvale = 1)</td>
</tr>
<tr>
<td>b</td>
<td>individuals with bilateral pseudo/aphakia achieving presenting visual acuity of 6/18 or better in at least one eye</td>
<td>lere ≥ 3 &amp; leres ≤ 5 &amp; lele ≥ 3 &amp; lele ≤ 5 &amp; (pvare = 1 OR pvale = 1)</td>
</tr>
</tbody>
</table>

**CSO Good**
- Presenting visual acuity of 6/18 or better in the operated eye of a person who had undergone unilateral cataract surgery, and the better eye of a person who had undergone bilateral cataract surgery
  - (lere ≥ 3 & leres ≤ 5 & lele ≥ 3 & lele ≤ 5 & [pvare = 1 OR pvale = 1]) OR
  - (lere ≥ 3 & leres ≤ 5 & [lele < 3 OR lele > 5] & pvare = 1) OR
  - (lele ≥ 3 & leles ≤ 5 & [lere < 3 OR lere > 5] & pvale = 1)

**CSO Poor**
- Presenting visual acuity of worse than 6/60 or better in the operated eye of a person who had undergone unilateral cataract surgery, and the better eye of a person who had undergone bilateral cataract surgery
  - (lere ≥ 3 & leres ≤ 5 & lele ≥ 3 & lele ≤ 5 & pvare > 2 & pvale > 2) OR
  - (lere ≥ 3 & leres ≤ 5 & [lere < 3 OR lere > 5] & pvare > 2) OR
  - (lele ≥ 3 & leles ≤ 5 & [lere < 3 OR lere > 5] & pvale > 2)

Variables used to calculate:
- Cataract surgical coverage: \( \text{CSC}_{\text{person < 6/60}} = \frac{(x + y)}{(x + y + z)} \times 100 \) (%)
- Effective CSC: \( \text{eCSC}_{\text{person < 6/60}} = \frac{(a + b)}{(x + y + z)} \times 100 \) (%)

- bvare/ bvale: pinhole visual acuity right/ left eye
- causere/ causele: primary cause of reduced visual acuity right/ left eye
- lere/ lele: Lens examination right/ left eye
- pvare/ pvale: presenting visual acuity right/ left eye