Supplemental Material 2 – The Cambridge Visual Function Test scoresheet; items marked with a strikethrough are those from the pilot test that were not included in the final Rasch model.

“”, say to patient
( ) don’t say to patient

“Thank you for agreeing to take part in this test. We will show you a series of images designed to test your vision in everyday situations. They are at different levels of difficulty – some may be easy and others challenging. Try your best with each. You will be asked to identify various objects. Please let us know verbally when you have identified each. There will be a spinning gold star at the centre of each image – please begin each image by looking at this.”

<table>
<thead>
<tr>
<th>Yes(1)/No (0)</th>
<th>Time</th>
</tr>
</thead>
</table>

1. Street scene
“This is a street scene. Find these objects:”
   a. (bus)
   b. (Virgin shop sign)
   c. (Brazilian flag)
   d. (graffiti)

2. Face in the crowd
“Find the person shown in each artwork”
   A1. (Mustachio man)
   A2. “What is he doing?” (painting)  X
   B1. (Seurat girl)
   B2. “What direction is she running” (right)  X
   C1. (Renoir man)
   C2. “Who is he looking at?” (arm over chair man)  X
   D1. (Rembrandt man)
   D2. “What direction is he pointing?” (right)  X
   E1. (Raphael man)
   E2. “What is he holding?” (a staff)  X

3. Hidden objects
“Find the odd one out:”
   a. (raspberry)
   b. (old coin)

4. Camouflaged animals (cumulative scoring)
“In each image is an animal – let us know when you see each one”
   a. (Left – gecko)
   b. (Right – turtle)
   c. (Left – lobster)
   d. (Right – fish)
   e. (Left – grasshopper)
   f. (Right – bird)

5. Cutlery
   a. “Find the spoon among the forks”
   b. “Find the fork among the spoons”
   c. “Find the plastic spoon”
6. The crowded room

“Please identify the following structures:”

a. “clock”
b. “kettle”
c. “scissors”
d. “apple”
e. “metal spoon”

7. Shadowy furniture

“How many chairs are in the room?”

(Answer: 5; score out of 5)

8. The newspaper

“Please look at this news page”

a. “What is the name of the newspaper?”
b. “What is the temperature today”
c. “Who won the Masters?”
—d. “Who won the Venezuela elections?”
e. “How long is the writing course?”

9. “Find the X”

a. (bottom right)
b. (top left)
c. (left)

10. “Find the pair – match the sock:”

a. (correct: top far left)
b. (correct: middle right)
c. (correct: top far right)
—d. (correct: bottom middle right)

11. Moving balls

“Look at the star. From where do you see the ball?”

a1. (top right)
a2. (bottom left)
a3. (bottom)
a4. (top left)
b1. (right)
b2. (top)
b3. (bottom)
b4. (top left)
c1. (bottom left)
c2. (top)
c3. (bottom right)
c4. (top right)
d1. (top right)
d2. (bottom left)
d3. (bottom)
d4. (top left)

d. (correct: top far left)

12. Reading in low contrast

“Read the following paragraph until it is too hard to see”

a. (Lines 1–7) ☒

b. (Lines 1–7) ☒
13. Hazard perception driving video  
(time from start of video)

“Please look at this driving video. Tell us each time the traffic lights change and each time you see a cyclist. What colour are the cyclists’ shirts?”

(Traffic lights change)

| A a. | (3 sec) |
| A b. | (17 sec) |

<table>
<thead>
<tr>
<th>Cyclist</th>
<th>Correct time</th>
</tr>
</thead>
<tbody>
<tr>
<td>B a. (Yellow shirt)</td>
<td>0 sec</td>
</tr>
<tr>
<td>B b. (Black shirt)</td>
<td>8 sec</td>
</tr>
<tr>
<td>B c. (Basket in front)</td>
<td>34 sec</td>
</tr>
<tr>
<td>B d. (White coat)</td>
<td>39 sec</td>
</tr>
<tr>
<td>B e. (Green shirt with satchel bag)</td>
<td>45 sec</td>
</tr>
<tr>
<td>B f. (Back pack and cap)</td>
<td>48 sec</td>
</tr>
<tr>
<td>B g. (Oncoming no. 1)</td>
<td>56 sec</td>
</tr>
<tr>
<td>B h. (Oncoming no. 2)</td>
<td>59 sec</td>
</tr>
<tr>
<td>B i. (Oncoming no. 3)</td>
<td>61 sec</td>
</tr>
<tr>
<td>B j. (Back pack and cap again)</td>
<td>71 sec</td>
</tr>
</tbody>
</table>