**ADDENBROOKE’S COGNITIVE EXAMINATION - ACE-R**
*Final Revised Version A (May 2004) - Australian Version*

<table>
<thead>
<tr>
<th>Name</th>
<th>Date of testing:...... / ...... / ......</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of birth</td>
<td>Tester's name:........................................</td>
</tr>
<tr>
<td>Hospital no.</td>
<td>Age at leaving full-time education:...........</td>
</tr>
<tr>
<td></td>
<td>Occupation:........................................</td>
</tr>
<tr>
<td></td>
<td>Handedness:........................................</td>
</tr>
</tbody>
</table>

**Addressograph**

### ORIENTATION

- **Ask:** What is the day? [Score 0-5]

- **Ask:** Which building? [Score 0-5]

### REGISTRATION

- **Tell:** I’m going to give you three words and I’d like you to repeat after me: lemon, key and ball. After subject repeats, say ‘Try to remember them because I’m going to ask you later’. Score only the first trial (repeat 3 times if necessary).  
  Register number of trials ........

### ATTENTION & CONCENTRATION

- Ask the subject: ‘could you take 7 away from a 100? After the subject responds, ask him or her to take away another 7 to a total of 5 subtractions. If subject make a mistake, carry on and check the subsequent answer (i.e. 93, 84, 77, 70, 63 -score 4)  
  Stop after five subtractions (93, 86, 79, 72, 65). ........ ........ ........ ........ ........  

- **Ask:** ‘could you please spell WORLD for me? Then ask him/her to spell it backwards: ........ ........ ........ ........ ........

### MEMORY - Recall

- **Ask:** 'Which 3 words did I ask you to repeat and remember?’ ........ ........ ........ ........

### MEMORY - Anterograde Memory

- **Tell:** I’m going to give you a name and address and I’d like you to repeat after me. We’ll be doing that 3 times, so you have a chance to learn it. I’ll be asking you later  
  Score only the third trial

<table>
<thead>
<tr>
<th>1st Trial</th>
<th>2nd Trial</th>
<th>3rd Trial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harry Barnes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73 Market Street</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rockhampton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Queensland</td>
<td></td>
<td></td>
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</table>

### MEMORY - Retrograde Memory

- Name of current Prime Minister ........................................
- Name of the Premier of New South Wales ........................................
- Name of the USA president ................................................................
- Name of the USA president who was assassinated in the 1960s .................
ADDENBROOKE’S COGNITIVE EXAMINATION - ACE-R

VERBAL FLUENCY - Letter 'P' and animals

Letters
Say: 'I’m going to give you a letter of the alphabet and I’d like you to generate as many words as you can beginning with that letter, but not names of people or places. Are you ready? You’ve got a minute and the letter is P'.

Animals
Say: 'Now can you name as many animals as possible, beginning with any letter?'

LANGUAGE - Comprehension

Show written instruction:

Close your eyes

3 stage command:
'Take the paper in your right hand. Fold the paper in half. Put the paper on the floor'

LANGUAGE - Writing

Ask the subject to make up a sentence and write it in the space below:
Score 1 if sentence contains a subject and a verb (see guide for examples)
LANGUAGE - Repetition

➢ Ask the subject to repeat: ‘hippopotamus'; 'eccentricity'; 'unintelligible'; 'statistician'
   Score 2 if all correct; 1 if 3 correct; 0 if 2 or less.

➢ Ask the subject to repeat: ‘Above, beyond and below'

➢ Ask the subject to repeat: ‘No ifs, ands or buts'

LANGUAGE - Naming

➢ Ask the subject to name the following pictures:

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LANGUAGE - Comprehension

➢ Using the pictures above, ask the subject to:
   • Point to the one which is associated with the monarchy
   • Point to the one which is a marsupial
   • Point to the one which is found in the Antarctic
   • Point to the one which has a nautical connection

[Score 0-4]
LANGUAGE - Reading

- Ask the subject to read the following words: [Score 1 only if all correct]

  sew
  pint
  soot
  dough
  height

LANGUAGE

VISUOSPATIAL ABILITIES

- Overlapping pentagons: Ask the subject to copy this diagram:

- Wire cube: Ask the subject to copy this drawing (for scoring, see instructions guide)

- Clock: Ask the subject to draw a clock face with numbers and the hands at ten past five. (for scoring see instruction guide: circle = 1, numbers = 2, hands = 2 if all correct)
> Ask the subject to count the dots without pointing them

[Score 0-4]
Ask "Now tell me what you remember of that name and address we were repeating at the beginning".

RECALL

Ask the subject to identify the letters

PERCEPTUAL ABILITIES

RECOGNITION

This test should be done if subject failed to recall one or more items. If all items were recalled, skip the test and score 5. If only part is recalled start by ticking items recalled in the shadowed column on the right hand side. Then test not recalled items by telling "ok, I'll give you some hints: was the name X, Y or Z?" and so on. Each recognised item scores one point which is added to the point gained by recalling.

General Scores

<table>
<thead>
<tr>
<th>Subject</th>
<th>Harry Barnes</th>
<th>Harry Bradford</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name</td>
<td>73</td>
<td>76</td>
</tr>
<tr>
<td>Street</td>
<td>Market Street</td>
<td>Market Street</td>
</tr>
<tr>
<td>City</td>
<td>Rockhampton</td>
<td>Cairns</td>
</tr>
<tr>
<td>State</td>
<td>Queensland</td>
<td>Victoria</td>
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Subscores

<table>
<thead>
<tr>
<th>Subscore</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMSE</td>
<td>/30</td>
</tr>
<tr>
<td>ACE-R</td>
<td>/100</td>
</tr>
<tr>
<td>Attention and Orientation</td>
<td>/18</td>
</tr>
<tr>
<td>Memory</td>
<td>/26</td>
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<tr>
<td>Fluency</td>
<td>/14</td>
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<tr>
<td>Language</td>
<td>/26</td>
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<tr>
<td>Visuospatial</td>
<td>/16</td>
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