



# COgnitive Management PATHways in Stroke Services (COMPASS): results of a mixed methods study with occupational therapists

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## Background

- **Cognitive problems** are common after stroke<sup>1</sup>.
- The identification and treatment of cognitive problems is an **important** issue for stroke survivors, carers<sup>2</sup> and clinicians<sup>3</sup>.
- Clinical guidelines advise that stroke services should **routinely provide cognitive screening**<sup>4-6</sup>.
- The **appropriateness** of methods used for screening, and the ways in which results inform clinical care have not been established.
- Little is known about how guidelines are managed in practice.

## Aim

- To establish key issues for occupational therapists (OTs) in identifying and screening for cognitive problems after stroke.

## Methods

- **Ethical approval** was obtained from the Health Research Authority (HRA) (6/10/17) (Ref 232332).
- **Mixed methods study:** online vignette study and semi-structured interviews.

### Vignettes

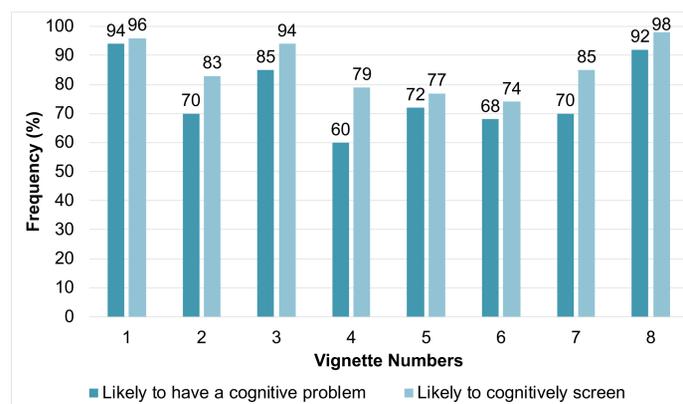
- OTs recruited through special interest groups and social media.
- **Eight patient scenarios** - each contained signs and symptoms of two common cognitive problems after stroke.
- OTs asked if:
  - 1) the patient was demonstrating issues with cognition and what they were,
  - 2) how likely they were to cognitively assess that patient
  - 3) what assessments they would use.
- Data were descriptively analysed.

### Interviews

- OTs and national expert Clinical Psychologists recruited through specialist interest groups and from the vignette study.
- Emphasis on identifying **barriers and facilitators** to undertaking cognitive assessments.
- Analysed using **framework analysis**.

## Results

Figure 1: OTs' perceptions on whether patient was displaying cognitive problems and their intention to cognitively screen



- **53 OTs** took part in the **vignette study**.
- 64% (n=34) based in the community, 30% (n=16) based within a hospital, 6% (n=3) worked across both.
- Number of OTs likely to cognitively screen was **consistently higher** than the number who believed the patient showed symptoms of a cognitive issue (Figure 1).
- Problems with **memory** and **neglect** were recognised by most OTs (79%), however **apraxia, visuospatial perception** and **attention** were frequently overlooked.
- The most common identified cognitive assessments were the Montreal Cognitive Assessment (**MoCA**) and Oxford Cognitive Screen (**OCS**). However, **over 30 tests** were identified.
- OTs favoured screening tools that were quick, easy to complete and familiar.

- **21 OTs** and **3 expert clinical psychologist** were recruited to take part in an **interview**.
- 43% were based in the community (n=9), 38% in a hospital (n=8) and 19% worked across both settings (n=4).
- Important issues identified in using and interpreting cognitive assessments were:
  - 1) Test availability
  - 2) Personal knowledge
  - 3) Personal experience
  - 4) Cost
  - 5) Time.
- **Lack of confidence** and having a **supportive team** was important in interpreting results.
- **Hospital OTs routinely screened** patients, however, this was not always the case for **community OTs**.

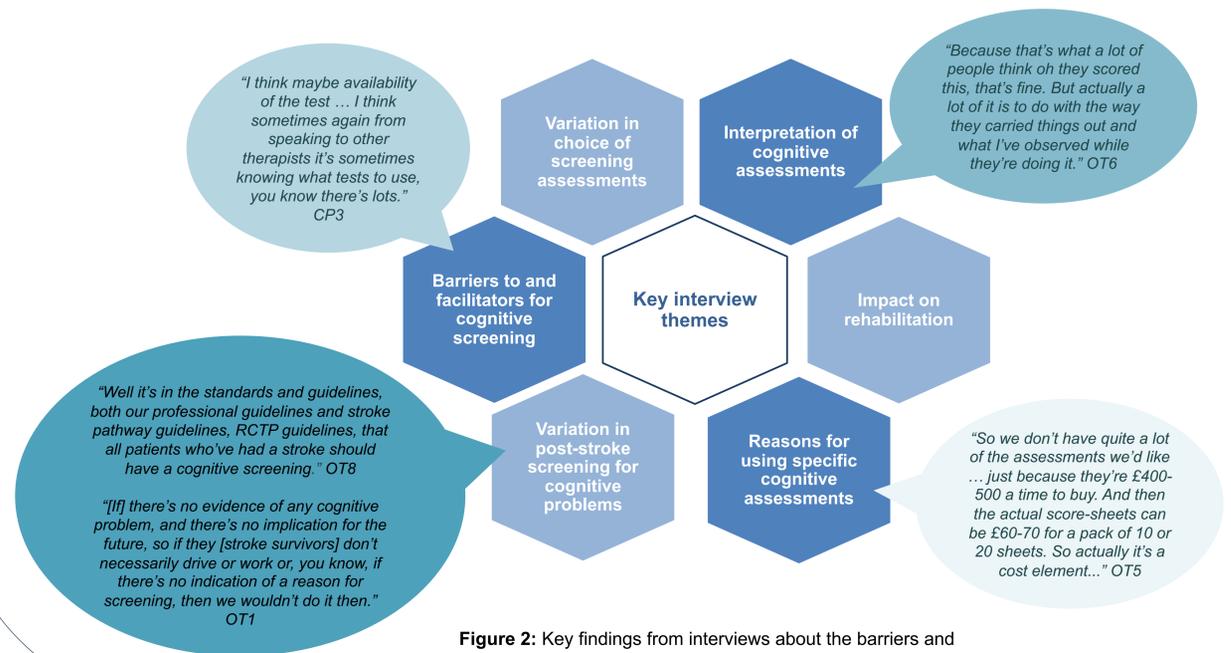


Figure 2: Key findings from interviews about the barriers and facilitators to routinely conducting cognitive assessments.

## Conclusions

- There are **inconsistencies** in the identification of common cognitive problems and **not all OTs routinely** cognitively screen patients. There are a large number of tests being used.
- Some OTs **will not** cognitively screen if they believe the patient is **not demonstrating cognitive problems, are not working or driving**, or have **language issues** (such as aphasia).
- Variation in the extent to which OTs recognise and assess cognitive problems in the community has **potential to impact on patient care**.
- A third phase of the study will address these issues.

### References:

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