

A quality improvement approach to cognitive assessment on hospice admission: could we use the 4AT or Short CAM?



Marie Curie

Care and support through terminal illness

Lucy Baird¹ and Juliet Spiller²

¹Specialty Doctor, Palliative Medicine; ²Palliative Medicine Consultant, Marie Curie Hospice Edinburgh.

Introduction

Prevalence studies show that 15-42% of patients admitted to specialist palliative care inpatient units have delirium. Symptoms of delirium are often subtle and easily missed, or misdiagnosed as fatigue or even depression, and so the use of a screening tool could improve early identification and management of delirium and lead to improved outcomes. Patients admitted to the hospice are often frail and tired, therefore a quick and easy-to-use method of cognitive assessment is essential.

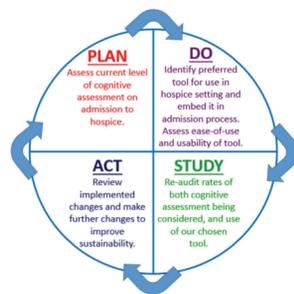
Aims

Using a quality improvement (QI) approach (PDSA: Plan, Do, Study, Act) this project aimed to improve cognitive assessment on admission to a hospice inpatient unit by:

- Determining staff preference between the Short Confusion Assessment Method (Short CAM)¹ and the 4 'A's Test (4AT)²
- Using PDSA cycles to embed the preferred tool into the admission process, whilst continuing to assess usability and completion rate

Methods

- Baseline measure taken of the rate of performing cognitive assessment on admission
- Five PDSA cycles were then undertaken which involved implementing change and then evaluating results through auditing case-notes and interviewing staff



Results

Initial results

- Of 8 consecutive patients admitted to the hospice in March 2016, none had any form of cognitive assessment performed on admission despite several being noted to be “confused”
- The Short CAM was the suggested tool, yet this was not printed in admission paperwork, nor easily accessible on the wards

PDSA Cycle 1

- Two nurses and 2 doctors performed the Short CAM and 4AT
- Feedback was received on ease-of-use and usability of both tools within the hospice setting
- Three of the 4 staff preferred the 4AT, stating it was “easier to fill in at the time” and “less open to interpretation”, 1 nurse preferred the Short CAM as they felt it gave you “a better feel” for the patient
- All 4 staff agreed the 4AT was quicker

PDSA Cycle 2

- The 4AT was supplied on both wards in the hospice and staff were asked to complete a 4AT on the next 5 admissions if appropriate
- A 4AT was completed in 3 of the 5 admissions (60%) (Figure 1)
- Staff agreed the 4AT was a usable tool and that it could easily be performed as part of a routine admission

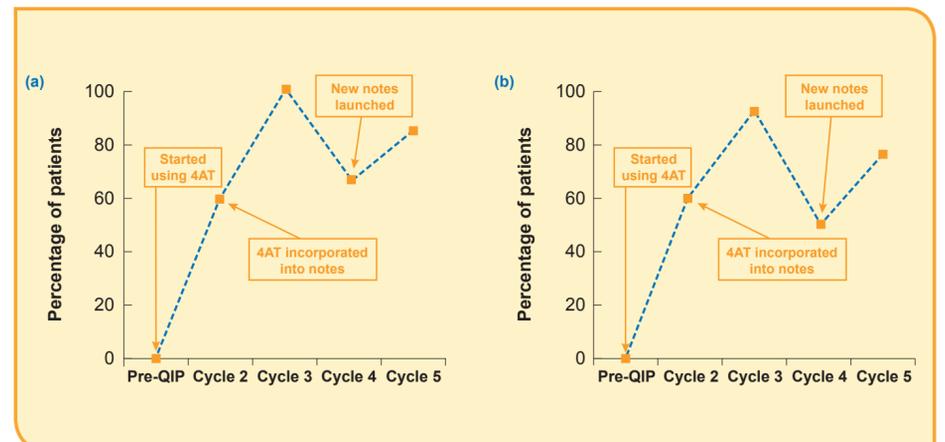
PDSA Cycle 3

- The 4AT was incorporated into the admission paperwork
- It was agreed cognitive assessment should be considered in 100% of patients admitted and a 4AT should be completed in all patients, unless the patient is too unwell (reason documented)
- Of 12 consecutive admissions, cognitive assessment was considered in 100% (12) and a 4AT performed in 92% (11)
- Staff valued having the 4AT in the admission notes

PDSA Cycle 4

- Two weeks later, 12 consecutive admissions were reviewed to see if the improvements had been sustained; cognitive assessment was considered in 67% (8), and a 4AT performed in 50% (6)
- Some staff documented a 4AT was not performed as the patient was not confused

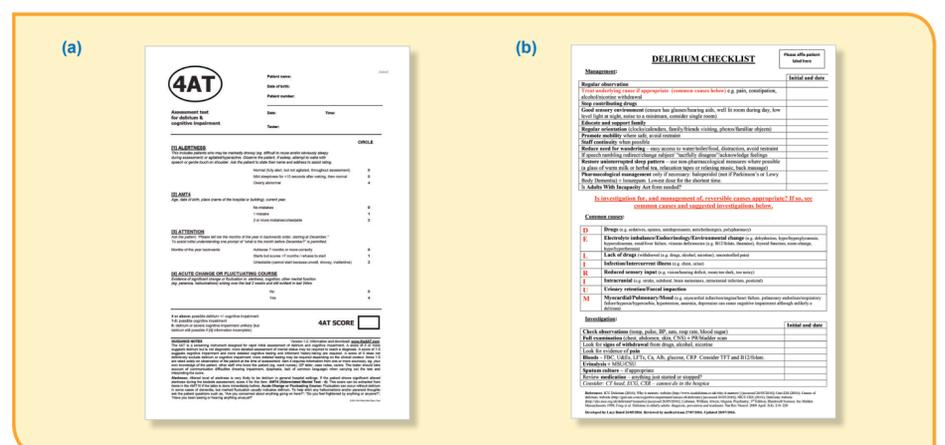
Figure 1: Percentage of patients where cognitive assessment was considered (a) and performed (b).



PDSA Cycle 5

- Staff were educated about the importance of screening all patients and documenting reasoning where a 4AT is not used (Figure 2a)
- The admission notes were adapted to state: “if patient is conscious then please complete 4AT overleaf”
- A Delirium Checklist was developed and printed on the back of the the 4AT to highlight priorities for delirium management, as well as the identification and treatment of reversible causes (Figure 2b)
- A key part of delirium management is family and patient education but, despite this, there is not a patient and relative information leaflet specifically about delirium in the palliative care setting
- Re-audit was performed following the above changes
- Of 34 consecutive admissions cognitive assessment was considered in 85.3% (29) and performed in 76.5% (26); one patient had an Mini-Mental State Examination completed rather than a 4AT but they were included as they still underwent formal cognitive assessment

Figure 2: 4AT and Delirium Checklist.



Conclusions

- The 4AT is a usable tool in the hospice inpatient setting to assess patients' cognitive state on admission
- The 4AT can easily be incorporated into the admission process
- The QI approach highlighted the need to link staff awareness of their use of the screening tool with perceived improvements in the treatment of delirium, which prompted the creation and implementation of a Delirium Checklist in the unit

Recommendations

- Development of a patient/relative information leaflet about delirium in the palliative care setting
- Further education regarding the Delirium Checklist should help improve staff awareness of this and encourage completion, when appropriate, if a delirium is suspected