Antipsychotic use for agitation after traumatic brain injury

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Research

Introduction

• 50% of patients become agitated during their early

Results (Cont'd)

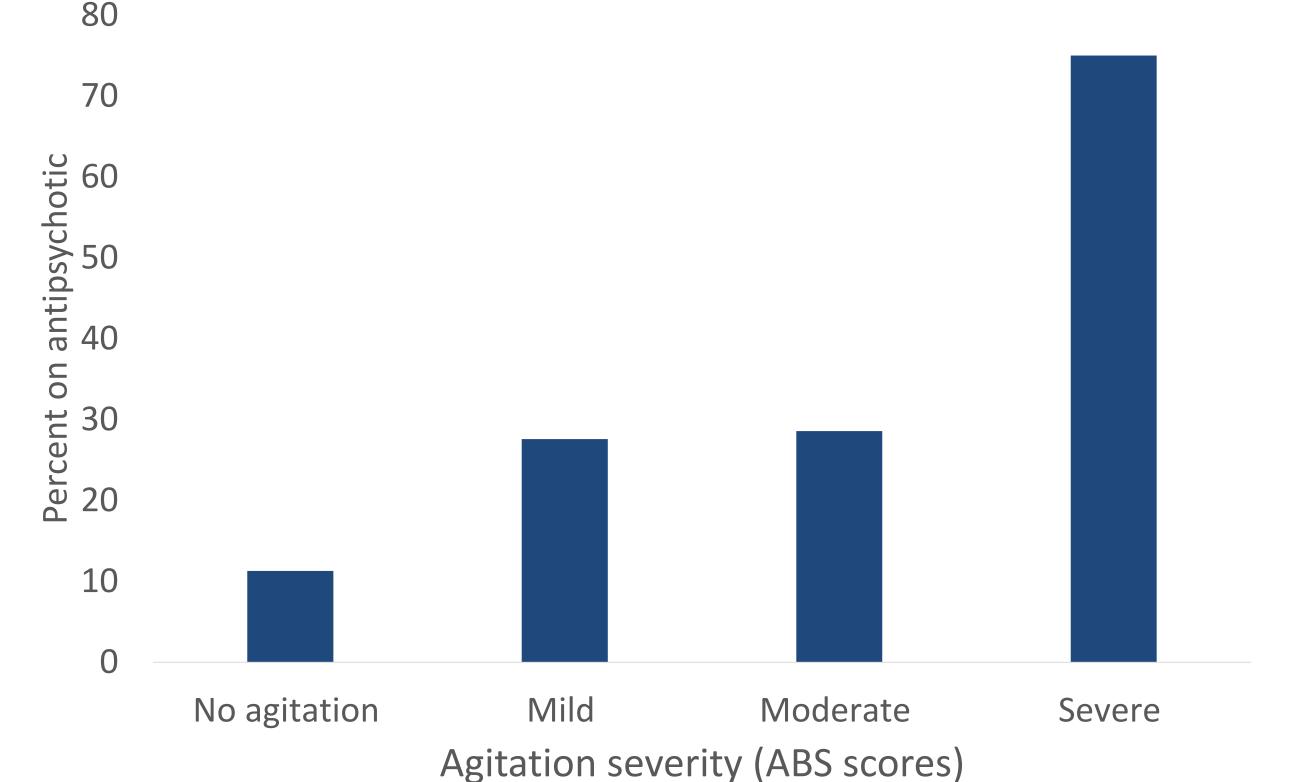
Antipsychotic use – Relationship to agitation levels

recovery after TBI

- Agitation includes restlessness, mood lability, and aggression and is most common when patients are in a confused state called post traumatic amnesia (PTA)
- Antipsychotics are commonly used to manage agitation during PTA although the rates, types, and impacts are not known

Aims

- Determine the frequency and type of antipsychotics used for agitation during PTA
- To examine the relationship between antipsychotic use and agitation levels
- To provide observational data on the efficacy of antipsychotic use in reducing agitation in PTA



- Regression analyses showed that antipsychotic use was associated with higher levels of agitation.
- Antipsychotics still used with ~30% of cases with mild agitation and ~10% with subclinical agitation.

Methodology

- Participants were 125 patients in PTA undergoing inpatient rehabilitation following severe TBI (Mean PTA duration = 48 days)
- Antipsychotic use was retrieved from medical records; agitation was measured daily during PTA using the Agitated Behavior Scale (ABS) with scores >21 indicating clinically significant agitation

Antipsychotic use – Observational data on efficacy

	Agitation scores in 3 days before change Mean (SD)	Agitation scores in 3 days after change Mean (SD)	Signif.
Start/increase in antipsychotics	22.5 (5.4)	23.3 (6.3)	p=.296

Agitation scores did not reduce in three days after commencing/increasing antipsychotics (on Average)

Conclusions

- Antipsychotic use frequency and type
- Atypical antipsychotics were frequently used to treat agitation during PTA even in cases with mild or subclinical agitation Uncontrolled observational data found no evidence that agitation scores reduced after starting or increasing antipsychotics Strong need for controlled studies to examine efficacy of antipsychotics for agitation during PTA Recommend using agitation measure such as ABS to monitor effectiveness of medication interventions

Results

- 33.6% of patients were prescribed an antipsychotic to manage agitation during PTA
 - 15.2% commenced in acute care
 - 18.4% commenced in rehabilitation
- Only atypical antipsychotics prescribed
 - Quetiapine most common in acute care
 - Olanzapine most common in rehabilitation