A systematic review of cognitive function and psychosocial well-being in school-age children with narcolepsy

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Citation

Review question(s)
Primary objective: To assess whether cognitive function and psychosocial well-being is impaired in school-age children with narcolepsy.

Research question 1: How does cognitive function and psychosocial well-being in school-age children with narcolepsy compare with that of school-age children without narcolepsy?

Research question 2: What study designs and methods are used to investigate and measure cognitive function and psychosocial well-being in school-age children with narcolepsy?

Research question 3: How does study quality vary?

Searches
Four electronic databases will be searched, namely: The Cochrane Library, EMBASE, Ovid MEDLINE and PsycINFO.

Papers must be published in English Language and be published between 2005 and 2015.

Types of study to be included
We will include research using all study designs apart from case studies in this review.

Condition or domain being studied
Narcolepsy

Participants/ population
Inclusion criteria:

Children with narcolepsy (type 1 and 2) (as diagnosed using any recognised diagnostic criteria) aged between 5-17 years old from any country.

Exclusion criteria:

Adults over the age of 18 years.

Intervention(s), exposure(s)
Inclusion criteria:

Research primarily concerned with narcolepsy (type 1 and 2) which explicitly states that the participants narcolepsy diagnosis was made by a physician using recognised diagnostic criteria and that this diagnosis was checked by the research team.

Exclusion criteria:
Research that is not primarily concerned with narcolepsy (type 1 or 2).

**Comparator(s)/ control**
Research that includes a control group (healthy children without narcolepsy type 1 or 2) or comparator group will be included.

Qualitative research is unlikely to include a comparator/control group, therefore papers without a control group will also be included.

**Outcome(s)**

**Primary outcomes**
Any cognitive or psychosocial measure.

**Secondary outcomes**
None

**Risk of bias (quality) assessment**
For study selection, potential bias will be assessed using the Kappa statistic to compare independent reviewers.

Individual study quality will be assessed using the QATSDD (Sirriyeh et al. 2012), a validated quality assessment tool applicable to research with heterogeneous study designs (qualitative, quantitative and mixed methods). Risk of bias in the application of this tool will be assessed using the Kappa statistic.

**Strategy for data synthesis**
The data extracted will be aggregated. Narrative synthesis will be used following the UK Economic and Social Research Council's guidance (Popay et al. 2006). The following tools and techniques are considered especially relevant to synthesis of data in this review: groupings and clusters, tabulation, vote counting, content analysis, idea webbing, methodological triangulation and critical reflection of the synthesis process.

**Analysis of subgroups or subsets**
None planned

**Dissemination plans**
The review is being conducted as part of a PhD studentship. The final thesis will be submitted for assessment at the University of Leeds.

The review will be written up for publication within peer-reviewed, academic journals and an abstract and presentation will be prepared for dissemination at national and international conferences.

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http://medhealth.leeds.ac.uk/info/1300/school_of_psychology//

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**Anticipated or actual start date**
31 October 2014

**Anticipated completion date**
01 September 2015

**Funding sources/sponsors**
The review is being conducted as part of Miss Jane Blackwell's PhD that is funded by a University of Leeds Anniversary Research Scholarship. Miss Hetaf Alammar's PhD is funded by Shaqra University, Saudi Arabia.

**Conflicts of interest**
None known

**Language**
English

**Country**
England

**Subject index terms status**
Subject indexing assigned by CRD

**Subject index terms**
Child; Cognition; Humans; Narcolepsy

**Stage of review**
Ongoing

**Date of registration in PROSPERO**
31 March 2015

**Date of publication of this revision**
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**Stage of review at time of this submission**

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<td>Preliminary searches</td>
<td>Yes</td>
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<td>Piloting of the study selection process</td>
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<td>Formal screening of search results against eligibility criteria</td>
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