Working memory in children with attentiondeficit/hyperactivity disorder (ADHD): the impact of methylphenidate (MPH)

Submission date	Recruitment status	Prospectively registered
23/01/2004	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
23/01/2004	Completed	☐ Results
Last Edited	Condition category	Individual participant data
12/12/2019	Mental and Behavioural Disorders	Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number RBP 98X24

Study information

Scientific Title

Working memory in children with attention-deficit/hyperactivity disorder (ADHD): the impact of methylphenidate (MPH)

Study objectives

To address the following questions: What are the effects of methylphenidate on working memory in children with ADHD? Is there evidence for differential effects of MPH on working memory function? What is the relationship between the effects of MPH on working memory, behavioural inhibition, non-executive memory performance and hyperactive/impulsive behaviour?

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Behavioural disorders

Interventions

- 1. Methylphenidate (MPH) treatment
- 2. No methylphenidate treatment

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

- 1. Information about effects of MPH on cognitive function (including the possibility of cognitive toxicity) in children with ADHD
- 2. Greater understanding of the underlying cognitive processes in ADHD

This knowledge of underlying mechanisms will lead to improved specificity of early detection, diagnosis and treatment of ADHD

- 3. Identification of potential cognitive deficits in ADHD. If persisting cognitive deficits are identified. These will be rational targets for supplementary treatment interventions
- 4. Suggestion of tests to monitor the effects of MPH on cognitive function which could be developed for use in everyday clinical practice.

Key secondary outcome(s))

Not provided at time of registration

Completion date

29/02/2000

Eligibility

Key inclusion criteria

60 boys aged between 7-12 years, receiving MPH, with a diagnosis of Hyperkinetic disorder or the equivalent ADHD combined sub-type, will be recruited from out-patient psychiatric clinics in the Trent region.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

7 years

Upper age limit

12 years

Sex

Male

Key exclusion criteria

Does not match inclusion criteria

Date of first enrolment

01/09/1998

Date of final enrolment

29/02/2000

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

Queens Medical Centre

Nottingham United Kingdom NG7 2UH

Sponsor information

Organisation

NHS R&D Regional Programme Register - Department of Health (UK)

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

NHS Executive Trent (UK)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type Details Date created Date added Peer reviewed? Patient-facing?

Participant information sheet 11/11/2025 No Yes