



A service of the National Library of Medicine  
and the National Institutes of Health

My NCBI [\[Sign In\]](#) [\[Register\]](#)

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for Matsui Noise children West London Schools Study [Go](#) [Clear](#) [Save Search](#)

Limits Preview/Index History Clipboard Details

Display AbstractPlus Show 20 Sort by Send to

All: 1 Review: 0

About Entrez

Text Version

Entrez PubMed

Overview  
Help | FAQ  
Tutorials

New/Noteworthy E-Utilities

PubMed Services

Journals Database  
MeSH Database  
Single Citation Matcher  
Batch Citation Matcher  
Clinical Queries  
Special Queries  
LinkOut  
My NCBI

Related Resources

Order Documents  
NLM Mobile  
NLM Catalog  
NLM Gateway  
TOXNET  
Consumer Health  
Clinical Alerts  
ClinicalTrials.gov  
PubMed Central

1: [Noise Health](#). 2004 Oct-Dec;7(25):49-58.



**Children's cognition and aircraft noise exposure at home--the West London Schools Study.**

**Matsui T, Stansfeld S, Haines M, Head J.**

Department of Urban and Environmental Engineering,  
Graduate School of Engineering, Kyoto University, Sakyo,  
Kyoto 606-8501, Japan. t.matsui@health.env.kyoto-u.ac.jp

The association of aircraft noise exposure with cognitive performance was examined by means of a cross-sectional field survey. Two hundred thirty six children attending 10 primary schools around Heathrow Airport in west London were tested on reading comprehension, immediate/delayed recall and sustained attention. In order to obtain the information about their background, a questionnaire was delivered to the parents and 163 answers were collected. Logistic regression models were used to assess performance on the cognitive tests in relation to aircraft noise exposure at home and possible individual and school level confounding factors. A significant dose-response relationship was found between aircraft noise exposure at home and performance on memory tests of immediate/delayed recall. However there was no strong association with the other cognitive outcomes. These results suggest that aircraft noise exposure at home may affect children's memory.

PMID: 15703149 [PubMed - indexed for MEDLINE]

Display AbstractPlus Show 20 Sort by Send to

**Related Links**

Aircraft and road traffic noise and children's cognition and health: a cross-national study. [\[Am J Epidemiol. 2005\]](#)

Exposure-effect relations between aircraft and road traffic noise exposure at school and reading comprehension: the RANCH project. [\[Am J Epidemiol. 2006\]](#)

Multilevel modelling of aircraft noise on performance tests in schools around Heathrow Airport, London. [\[Community Health. 2002\]](#)

A follow-up study of effects of chronic aircraft noise exposure on child stress responses and cognition. [\[Int J Epidemiol. 2001\]](#)

Chronic aircraft noise exposure, stress responses, mental health and cognitive performance in school children. [\[Psychol Med. 2001\]](#)

[See all Related Articles...](#)

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Apr 4 2007 12:47:27