**Online Supplementary Material**

**Neonatal Glycemia and Neurodevelopmental Outcomes: A Systematic Review and Meta-analysis**

**Contents**

1. Early Childhood (2-5 years) Outcomes

eFigure 1.1: Neurodevelopmental impairment

eFigure 1.2: Visual-motor impairment

eFigure 1.3: Executive dysfunction

eFigure 1.4: Any cognitive impairment

eFigure 1.5: Mild cognitive impairment

eFigure 1.6: Moderate-severe cognitive impairment

eFigure 1.7: Epilepsy

eFigure 1.8: Emotional behavioral difficulty

eFigure 1.9: Visual impairment

eFigure 1.10: Hearing impairment

eFigure 1.11: Motor impairment

eFigure 1.12: Low language/literacy

2. Mid-Childhood (6-11 years) Outcomes

eFigure 2.1: Neurodevelopmental impairment

eFigure 2.2: Emotional behavioral difficulty

eFigure 2.3: Motor impairment

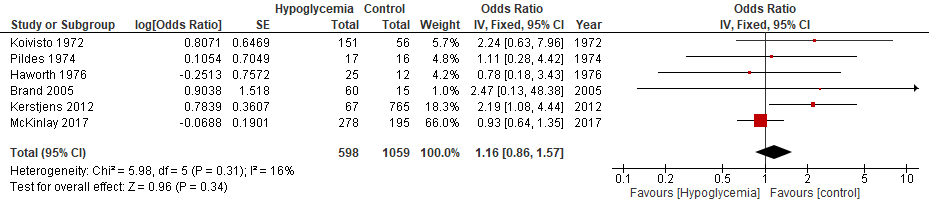
eFigure 2.4: Low language/literacy

eFigure 2.56: Low numeracy

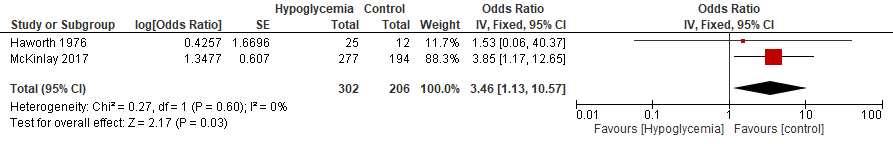
3. Search Strategy

**1. Early Childhood (2-5 years) Outcomes**

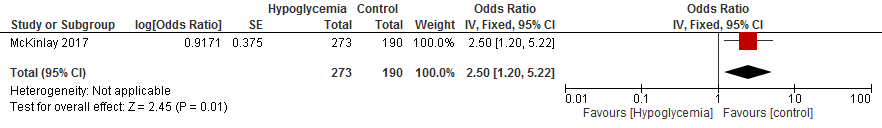
eFigure 1.1: Neurodevelopmental impairment



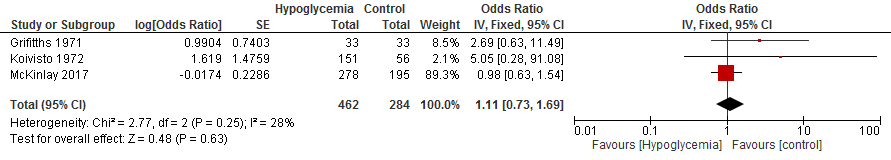
eFigure 1.2: Visual-motor impairment



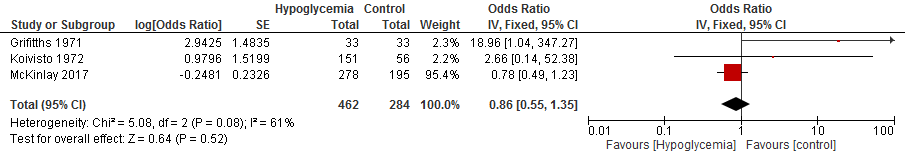
eFigure 1.3: Executive dysfunction



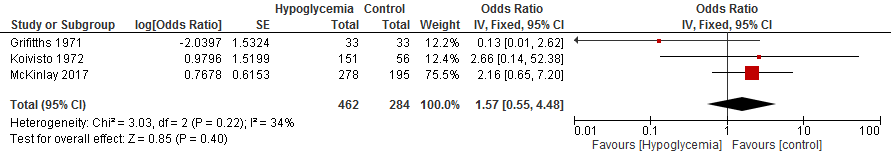
eFigure 1.4: Any cognitive impairment



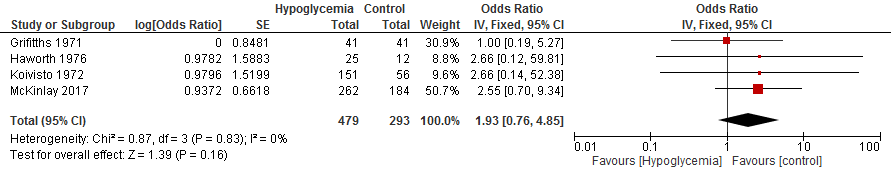
eFigure 1.5: Mild cognitive impairment



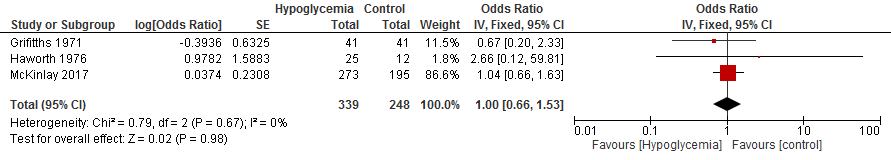
eFigure 1.6: Moderate-severe cognitive impairment



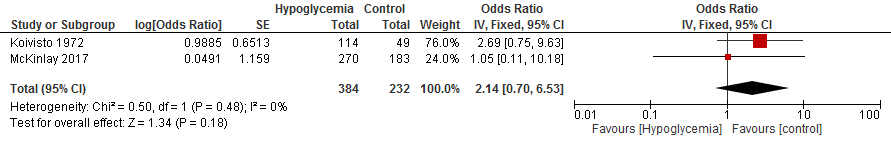
eFigure 1.7: Epilepsy



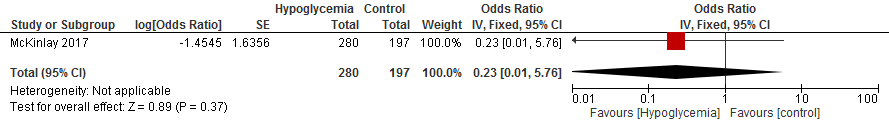
eFigure 1.8: Emotional behavioural difficulty



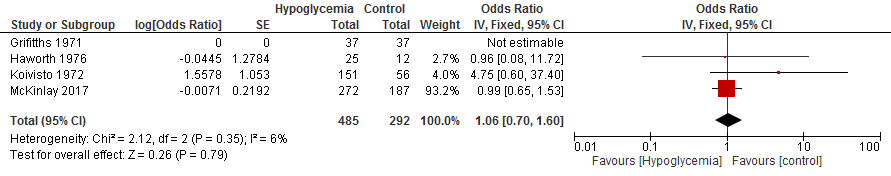
eFigure 1.9: Visual impairment



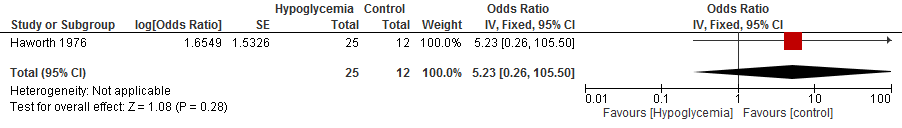
eFigure 1.10: Hearing impairment



eFigure 11: Motor impairment



eFigure 1.12: Low language/literacy

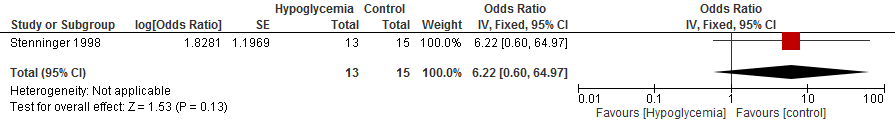


**2. Mid-Childhood (6-11 years) Outcomes**

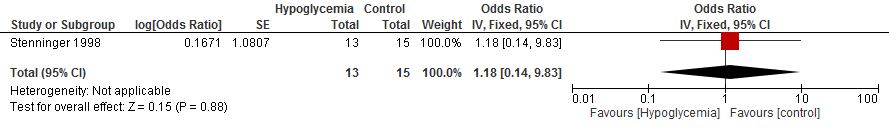
eFigure 2.1: Neurodevelopmental impairment



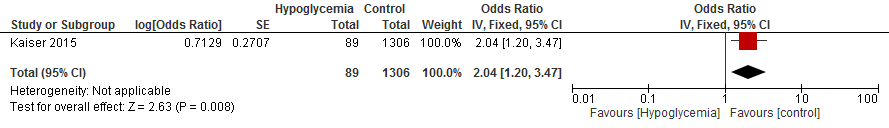
eFigure 2.2: Emotional behavioural difficulty



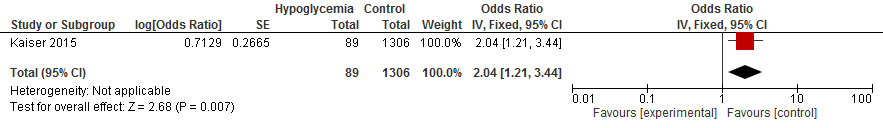
eFigure 2.3: Motor impairment



eFigure 2.4: Low language/literacy



eFigure 2.5: Low numeracy



**3. Search Strategy**

1. Infant, Newborn/
2. (neonat\* or newborn\* or infant\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
3. Hypoglycemia/
4. hypoglyc\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
5. exp Neurodevelopmental Disorders/
6. (neurodevelopment\* disorder\* or neurodevelopment\* outcome\* or neurodevelopment\* disabilit\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
7. neurodevelopment\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
8. neurological sequelae.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
9. exp Neuroimaging/
10. neuroimag\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
11. brain imag\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
12. cranial imag\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
13. (CT scan\* or CT imag\* or computed tomography scan\* or computed tomography imag\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
14. (ultrasonography or sonograph\* finding\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
15. (magnetic resonance imaging or MRI).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
16. exp Neurologic Manifestations/
17. neurologic\* manifestation\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
18. 1 or 2
19. 3 or 4
20. 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17
21. 18 and 19 and 20
22. limit 21 to English language
23. limit 22 to humans