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Original Articles

Hepatitis B Vaccination of Male Neonates and Autism Diagnosis, NHIS 1997–2002

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Abstract

Universal hepatitis B vaccination was recommended for U.S. newborns in 1991; however, safety findings are mixed. The association between hepatitis B vaccination of male neonates and parental report of autism diagnosis was determined. This cross-sectional study used weighted probability samples obtained from National Health Interview Survey 1997–2002 data sets. Vaccination status was determined from the vaccination record. Logistic regression was used to estimate the odds for autism diagnosis associated with neonatal hepatitis B vaccination among boys age 3–17 years, born before 1999, adjusted for race, maternal education, and two-parent household. Boys vaccinated as neonates had threefold greater odds for autism

diagnosis compared to boys never vaccinated or vaccinated after the first month of life. Non-Hispanic white boys were 64% less likely to have autism diagnosis relative to nonwhite boys. Findings suggest that U.S. male neonates vaccinated with the hepatitis B vaccine prior to 1999 (from vaccination record) had a threefold higher risk for parental report of autism diagnosis compared to boys not vaccinated as neonates during that same time period. Nonwhite boys bore a greater risk.

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In this unfunded study, any analyses, interpretations, or conclusions reached are those of the authors, not the National Center for Health Statistics, which is responsible only for data collection.

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[Epidemiological surveys of autism and other pervasive developmental disorders: an update.](#)

Source: Springer Science and Business Media LLC

[Safety of neonatal hepatitis B vaccine administration](#)

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[Descriptive epidemiology of autism in a California population: who is at risk?](#)

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[An investigation of porphyrinuria in Australian children with autism.](#)

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[A Dose-Response Relationship between Organic Mercury Exposure from Thimerosal-Containing Vaccines and Neurodevelopmental Disorders](#)

Source: Multidisciplinary Digital Publishing Institute

[Extraimmunization among US children.](#)

Source: American Medical Association (AMA)

Sociodemographic Risk Factors for Autism in a US Metropolitan Area

Source: *Springer Science and Business Media LLC*

A Retrospective Cohort Study of the Association of Varicella Vaccine Failure With Asthma, Steroid Use, Age at Vaccination, and Measles-Mumps-Rubella Vaccination

Source: *American Academy of Pediatrics (AAP)*

Hepatitis B vaccine and liver problems in U.S. children less than 6 years old, 1993 and 1994.

Source: *Ovid Technologies (Wolters Kluwer Health)*

Hepatitis B vaccine and the risk of CNS inflammatory demyelination in childhood

Source: *Ovid Technologies (Wolters Kluwer Health)*

Administration of Thimerosal to Infant Rats Increases Overflow of Glutamate and Aspartate in the Prefrontal Cortex: Protective Role of Dehydroepiandrosterone Sulfate

Source: *Springer Nature*

Hyperbilirubinemia Among African American, Glucose-6-Phosphate Dehydrogenase-Deficient Neonates

Source: *American Academy of Pediatrics (AAP)*

A 15-Year Follow-Up Study

Source: *Ovid Technologies (Wolters Kluwer Health)*

Proinflammatory and regulatory cytokine production associated with innate and adaptive immune responses in children with autism spectrum disorders and developmental regression

Source: *Elsevier BV*

Empirical Data Confirm Autism Symptoms Related to Aluminum and Acetaminophen Exposure

Source: *MDPI AG*

Adverse events associated with hepatitis B vaccine in U.S. children less than six years of age, 1993 and 1994.

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Public Health Monitoring of Developmental Disabilities With a Focus on the Autism Spectrum Disorders

Source: *Wiley*

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Risk factors for delay in age-appropriate vaccination.

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