

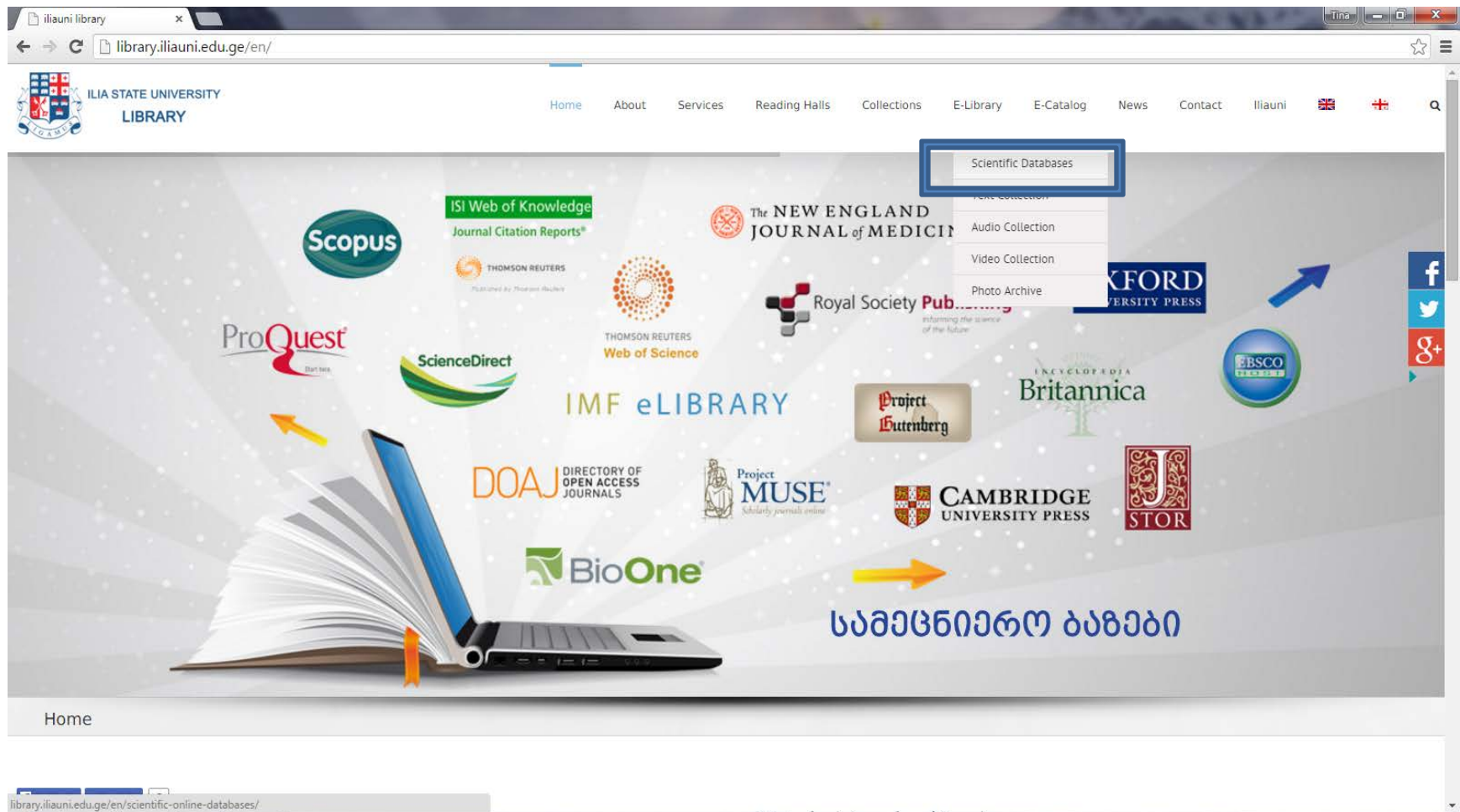


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Vol. 157, No. 2  
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## Risk Analysis of Aseptic Meningitis after Measles-Mumps-Rubella Vaccination in Korean Children by Using a Case-Crossover Design

Moran Ki<sup>1</sup>, Taesung Park<sup>2</sup>, Sung Gon Yi<sup>2</sup>, Jin Kyoung Oh<sup>3</sup>, and BoYoul Choi<sup>3</sup>

<sup>1</sup> Department of Preventive Medicine, Eulji University School of Medicine, Daejeon, Korea.  
<sup>2</sup> Department of Statistics, Seoul National University, Seoul, Korea.  
<sup>3</sup> Department of Preventive Medicine, Hanyang University College of Medicine, Seoul, Korea.

Received for publication March 5, 2002; accepted for publication July 24, 2002.

Epidemiologic study of a vaccine's adverse events is not easy; so many countries have no reliable data. Vaccines containing the Urabe or Hoshino strain have been withdrawn from use in several countries. However, the data are not strong enough to form the basis of a recommendation not to use specific strains. The authors used a case-crossover design to estimate the relative risk of aseptic meningitis in children after receiving the measles-mumps-rubella vaccine in Korea. Study subjects were hospitalized children aged 8–36 months who had aseptic meningitis in 1998. Cases were confirmed by hospital chart reviews using previously defined criteria. and place information from parents' associated with the Jeryl Lynn or Rubini (.97). For the Urabe or Hoshino strain, week after vaccination (relative risk = ase-crossover design was useful in

Abbreviations: CI, confidence interval; MMR, measles-mumps-rubella; RR, relative risk.

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Moran Ki<sup>1</sup>, Taesung Park<sup>2</sup>, Sung Gon Yi<sup>2</sup>, Jin Kyoung Oh<sup>3</sup> and BoYoul Choi<sup>3</sup>

<sup>1</sup> Department of Preventive Medicine, Eulji University School of Medicine, Daejeon, Korea.  
<sup>2</sup> Department of Statistics, Seoul National University, Seoul, Korea.  
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