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Title: Rare but not forgotten: A case of meningitis due to ceftriaxone-resistant *Streptococcus pneumoniae*

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Title Page

Rare but not forgotten: A case of meningitis due to ceftriaxone-resistant *Streptococcus pneumoniae*

Running title:

Resistant *S. pneumoniae* meningitis

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Abstract:

Despite the dramatic decrease in invasive pneumococcal disease since the widespread use of the first pneumococcal vaccine, invasive and resistant disease still occurs. We present a case of ceftriaxone-resistant pneumococcal meningitis suggesting that continued vigilance is warranted for empiric treatment of meningitis when *Streptococcus pneumoniae* is a concern.

Keywords:

Streptococcus pneumoniae, meningitis, ceftriaxone resistance

Introduction:

Invasive pneumococcal disease (IPD) has dramatically decreased since the introduction of the pneumococcal conjugate vaccine 7 in 2000, and the rate of IPD due to resistant pneumococci dropped over 50% from 1999 to 2004 (1). Meningitis due to ceftriaxone-resistant *Streptococcus pneumoniae* still occurs but is uncommon—96.4% of *S. pneumoniae* isolated from meningitis patients between 2001 and 2015 in Rhode Island (RI) were susceptible to ceftriaxone (2).

In 1994, a 33-year-old man in RI with pneumococcal meningitis failed to respond to therapy with ceftriaxone and dexamethasone (3). He developed hydrocephalus and grand mal seizures, and his antimicrobial regimen was switched to IV vancomycin

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