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Retrospective Study

Potential carrier priming effect in Australian infants after 7vPCV introduction

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Abstract

AIM: Carrier priming entails enhanced immunogenicity of a conjugate vaccine after previous exposure to the protein carrier. In this analysis, we investigated evidence for clinical protection in infants after one dose of the 7-valent pneumococcal conjugate vaccine (7vPCV) as a result of possible prior carrier priming.

METHODS: Using Australian National Notifiable Diseases Surveillance System data, we conducted a descriptive analysis of cases of Vaccine Type-Invasive Pneumococcal Disease (VT-IPD) during "catch-up" years, when 7vPCV was carrier primed by prior administration of DTPa vaccine. We compared the number of VT-IPD cases occurring 2-9 weeks after a single dose of 7vPCV (carrier primed), with those <2 weeks post vaccination, when no protection from 7vPCV was expected yet. Further comparison was conducted to compare the occurrence of VT-IPD cases versus non-VT-IPD cases after a single carrier-primed dose of 7vPCV.

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4.13 Pneumococcal disease - Immunise Australia Program

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Neonatal pneumococcal conjugate vaccine immunization primes T ...

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作者: AHJ van den Biggelaar - 2009 - 被引用次数: 34 - 相关文章

The **effects** of neonatal immunization with 7-valent pneumococcal conjugate vaccine ... Neonatal **7vPCV priming** (followed by a dose at 1 and 2 months of age) was ... The memory T cell response that is induced against the **carrier** protein (in **7vPCV** ... 72 h **after** birth to 30 study children (12 neonatal, 7 **infant** and 11 controls).

[PDF] Australian Public Assessment Report for Pneumococcal ...

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2010年5月13日 - I. **Introduction** to Product Submission ... recommendations, taking into consideration the **impact** of ... 7-valent pneumococcal conjugate vaccine (**7vPCV**) became ... noted in Table 3.15.2 in NHMRC, 2008) **after** they received the **infant** schedule of **7vPCV** CRM197 was chosen as the **carrier** protein for the.

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作者: A Fuery - 2015 - 相关文章

2015年7月20日 - **Carrier**-specific T cell and polysaccharide-specific B cell memory responses are ... the number and quality of circulating **carrier**-specific CD4+ T cells **after priming**. ... The **introduction** of glyco-conjugate vaccines to **infant** and toddler ... CD4+ T cell responses post-**priming** and pre-boost, **affect** the persistence ...

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Efficacy and effectiveness of extended-valency pneumococcal ... - NCBI

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作者: H Lee - 2014 - 被引用次数: 9 - 相关文章

2014年2月24日 - The 7-valent pneumococcal protein conjugate vaccine (PCV7) has been ... After the introduction of PCV10 and PCV13, within a short period of time, ... by the 10 and 13 vaccine serotypes in infants and young children(11,12,13,14). ... The effect of PCV10 on NP carriage is of interest in 2 aspects: the impact ...

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作者: PV Licciardi - 2014 - 被引用次数: 1 - 相关文章

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