

Name of Journal: *World Journal of Clinical Pediatrics*

ESPS Manuscript NO: 27255

Manuscript Type: Original Article

Retrospective Study

Potential carrier priming effect in Australian infants after 7vPCV introduction

Mohamed Tashani, Sanjay Jayasinghe, Zitta B. Harboe, Harunor Rashid, Robert Booy

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.

Match Overview

1	Internet 116 words crawled on 02-Mar-2016 www.wjgnet.com	3%
2	CrossCheck 61 words Russell, F.M.. "Immunogenicity following one, two, or th ... ee doses of the 7-valent pneumococcal conjugate vacci	2%
3	CrossCheck 50 words Spijkerman, Judith, Reinier H. Veenhoven, Alienke J. Wij menga-Monsuur, Karin E. M. Elberse, Pieter G. M. van G	1%
4	Internet 41 words crawled on 30-Oct-2015 www.cdc.gov	1%
5	Internet 40 words crawled on 28-Feb-2014 www.who.int	1%
6	Internet 24 words crawled on 06-Oct-2010 www.microbiologybytes.com	1%
7	Publications 20 words Reingold, A. Hadler, J. Farley, M.M. Har. "Direct and indir ect effects of routine vaccination of children with 7-vale ...	1%
8	CrossCheck 14 words Bröker, Michael. "Potential protective immunogenicity of t etanus toxoid, diphtheria toxoid and Cross Reacting Mat	<1%
9	Internet 14 words crawled on 03-Nov-2012 espid.ekonnnect.co	<1%
	Internet 10 words	<1%

[全部](#)[图片](#)[视频](#)[新闻](#)[更多 ▾](#)[搜索工具](#)

找到约 377 条结果 (用时 0.68 秒)

4.13 Pneumococcal disease - Immunise Australia Program

www.immunise.health.gov.au/.../Handbook10-home~handbook10part4~ha... [▾ 翻译此页](#)

2010年4月13日 - The **introduction** of 7vPCV led to a dramatic reduction in the overall incidence ... Prior to universal **infant** vaccination, 85% of IPD in children aged <2 years was ... The **impact** of 23vPPV on rates of IPD in Indigenous adults has varied in pneumococcal disease in **Australian** children **after introduction** of a ...

Neonatal pneumococcal conjugate vaccine immunization primes T ...

www.ncbi.nlm.nih.gov > [NCBI](#) > [Literature](#) > [PubMed Central \(PMC\)](#) [▾ 翻译此页](#)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 ...

<https://www.tga.gov.au/file/1456/download> [▾ 翻译此页](#)

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.

Human Infant Memory B Cell and CD4+ T Cell Responses to ...

journals.plos.org/plosone/article?id=10.1371/journal.pone.0133126 [▾ 翻译此页](#)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 ...

[全部](#)[图片](#)[视频](#)[地图](#)[新闻](#)[更多 ▾](#)[搜索工具](#)

找到约 8,520 条结果 (用时 0.77 秒)

Google 学术: Potential carrier priming effect in Australian infants after 7-valent pneumococcal conjugate vaccine introduction

... of a nonavalent pneumococcal conjugate vaccine - Mbelle - 被引用次数: 520

... doses of a pneumococcal conjugate vaccine in infants ... - Goldblatt - 被引用次数: 167

... of heptavalent pneumococcal conjugate vaccine in ... - Black - 被引用次数: 2200

Carrier priming or suppression: Understanding carrier priming ...

www.academia.edu/.../Carrier_priming_or_suppression_Understanding_carr... ▾ [翻译此页](#)

Results: We found evidence of **carrier priming** with some conjugate vaccines, particularly (PRP) response **after** one dose of H. influenzae type b vaccine conjugated to ... [38] investigated the **potential effects** of prior vaccination with TT on the ... **pneumococcal conjugate vaccine**; PCV7, **7-valent pneumococcal conjugate** ...

Systematic Review of the Effect of Pneumococcal Conjugate Vaccine ...

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) ▾ [翻译此页](#)

作者: MD Knoll - 2014 - 被引用次数: 16 - [相关文章](#)

2013年12月16日 - Studies included for analysis evaluated ≥ 2 doses of **7-valent** or higher ... The GMC **after** the primary series was higher following 3-dose ... Keywords: **pneumococcal conjugate vaccine**, immunogenicity, immunization schedule ... Furthermore, the **impact** of catch-up campaigns as part of PCV **introduction** on ...

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

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) ▾ [翻译此页](#)

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** ...



全部 图片 新闻 视频 更多 ▾ 搜索工具

找到约 8,730 条结果 (用时 0.63 秒)

Google 学术: Potential carrier priming effect in Australian infants after 7-valent pneumococcal conjugate vaccine introduction

... of a nonavalent pneumococcal conjugate vaccine - Mbelle - 被引用次数: 520

... doses of a pneumococcal conjugate vaccine in infants ... - Goldblatt - 被引用次数: 167

... of heptavalent pneumococcal conjugate vaccine in ... - Black - 被引用次数: 2201

Carrier priming or suppression: Understanding carrier priming ...

www.academia.edu/.../Carrier_priming_or_suppression_Understanding_carr... ▾ 翻译此页

Results: We found evidence of carrier priming with some conjugate vaccines, particularly (PRP) response after one dose of H. influenzae type b vaccine conjugated to ... [38] investigated the potential effects of prior vaccination with TT on the ... pneumococcal conjugate vaccine; PCV7, 7-valent pneumococcal conjugate ...

Systematic Review of the Effect of Pneumococcal Conjugate Vaccine ...

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) ▾ 翻译此页

作者: MD Knoll - 2014 - 被引用次数: 16 - 相关文章

2013年12月16日 - Studies included for analysis evaluated ≥ 2 doses of 7-valent or higher ... The GMC after the primary series was higher following 3-dose ... Keywords: pneumococcal conjugate vaccine, immunogenicity, immunization schedule ... Furthermore, the impact of catch-up campaigns as part of PCV introduction on ...

Impaired immune function following pneumococcal vaccination in ...

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) ▾ 翻译此页

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

2014年3月6日 - The impact of prior nasopharyngeal carriage on serotype-specific IgG ... with the 23-