Update on significant recent research papers

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Childhood Tuberculosis Sub-Group
26th October 2016
Search results

Items: 1 to 24 of 837


2. HIV and tuberculosis in children: biology meets epidemiology.
   PMID: 26541452

3. Tuberculous liver abscess in an immunocompetent child with pulmonary tuberculosis as a cause of fever of unknown origin.
Searching PubMed for articles related to child and tuberculosis (TB) with specific filters applied:
- Publication date: From 2015/10/24 to 2016/10/23.
- Search results: Show 1 to 20 of 883 items.

Example search result:
1. Screening and Development of New Inhibitors of FisZ from M. Tuberculosis.
   - Authors: Mathew B, Hobraith JF, Ross L, Connelly MC, Lofton H, Rajagopalan M, Guy RK, Reynolds RC.
   - PMID: 27768711
My biases

• 883 studies identified on PubMed
• On review of title selected 71 that I thought looked interesting
• Review of abstracts brought down to 35
• Few basic science studies as rarely paediatric specific
• Reflects my own interests and biases
• Really hard to decide as so many awesome articles
• PLEASE forgive me if I have not included your paper!!!
A blood RNA signature for tuberculosis disease risk: a prospective cohort study


ARTICLE
Received 21 Dec 2015 | Accepted 22 Feb 2016 | Published 12 Apr 2016 | Updated 6 May 2016

T-cell activation is an immune correlate of risk in BCG vaccinated infants

Helen A. Fletcher1,2, Margaret A. Snowden3, Bernard Landry3, Wasima Rida4, Iman Sattl1, Stephanie A. Harris1, Magali Matsumiya1, Rachel Tanner1, Matthew K. O'Shea1, Veerabradan Dheenadhayalan1, Leah Bogardus3, Lisa Stockdale1,2, Leanne Marsay5, Agnieszka Chomka5, Rachel Harrington-Kandt1, Zita-Rose Manjaly-Thomas1, Vivek Naranbhai7, Elena Stylianou1, Fatoumatta Darboe8, Adam Penn-Nicholson8, Elisa Nemes8, Mark Hatherill8, Gregory Hussey8, Hassan Mahomed8, Michele Tameris8, J Bruce McClain5, Thomas G. Evans3, Willem A. Hanekom6, Thomas J. Scriba8 & Helen McShane1
The potential impact of BCG vaccine supply shortages on global paediatric tuberculosis mortality

Rebecca C. Harris¹, Peter J. Dodd² and Richard G. White³

Delayed BCG immunization does not alter antibody responses to EPI vaccines in HIV-exposed and -unexposed South African infants

Anneke C. Hesseling¹, Anna K. Blakney²,³, Christine E. Jones²,⁴,⁵, Monika M. Esser⁶, Corena de Beer⁷, Louise Kuhn⁸, Mark F. Cotton⁹,¹,¹,¹, Heather B. Jaspan¹,²,¹
Comparable CD4 and CD8 T cell responses and cytokine release after at-birth and delayed BCG immunisation in infants born in Australia

Nicole Ritz a,b,c,d,e, Dan Casalaz e, Susan Donath f, Marc Teubegge a,b,c,g, Binita Dutta c, Tom G. Connell a,b,c, Roy Robins-Browne a,b,c,h, Warwick J. Britton j, Willem A. Hanekom j, Nigel Curtis a,b,c

Evaluating the neonatal BCG vaccination programme in Ireland

Cara Usher i,l, Roisin Adams l, Susanne Schmitz l,2, Jennifer Kieran l,2, Darina O’Flanagan i,5, Joan O’Donnell l,4,5, Kevin Connolly l,4, Brenda Corcoran l,6, Karina Butler l,5,7, Michael Barry l,2 and Cathal Walsh l,3
BCG vaccination at birth and early childhood hospitalisation: a randomised clinical multicentre trial

Lone Graff Stensballe,¹ Signe Sørup,² Peter Aaby,³ Christine Stabell Benn,⁴,⁵ Gorm Greisen,⁶ Dorthe Lisbeth Jeppesen,⁷ Nina Marie Birk,⁷ Jesper Kjærgaard,⁸,⁹ Thomas Nørrelykke Nissen,⁷ Gitte Thybo Pihl,¹⁰,¹¹ Lisbeth Marianne Thøstesen,¹⁰,¹¹ Poul-Erik Kofoed,¹⁰,¹¹ Ole Pryds,⁷ Henrik Ravn⁵,¹²

Original article

Vaccinations against smallpox and tuberculosis are associated with better long-term survival: a Danish case-cohort study 1971–2010

Andreas Rieckmann,¹,³,⁴ Marie Villumsen,¹ Signe Sørup,¹ Line Klingem Haugaard,⁴,⁵ Henrik Ravn,¹,³ Adam Roth,⁶,⁷ Jennifer Lyn Baker,⁴,⁵ Christine Stabell Benn¹,³ and Peter Aaby¹,²,³
A Multicenter Study on the Utility and Safety of EBUS-TBNA and EUS-B-FNA in Children

Sahajal Dhooria, MD, DM,1 Karan Madan, MD, DM,2 Vallaharamam Pattabhiraman, MD,3 Inderpal Singh Sehgal, MD, DM,1 Ravindra Mehta, MD,4 Gella Vishwanath, MD, DM,5 Arjun Srinivasan, MD, DM,3 Mahadevan Sivaramakrishnan, MD,3 Anant Mohan, MD,2 Joseph L. Mathew, MD,6 Sushil K. Kabra, MD,7 Randeep Guleria, MD, DM,2 Digambar Behera, MD,1 and Ritesh Agarwal, MD, DM1*

The Pediatric Infectious Disease Journal Publish Ahead of Print

DOI: 10.1097/INF.0000000000001342

Cost–Effectiveness of Diagnostic Algorithms for Tuberculosis in Children Less than 5 Years of Age

Amanda K. Debes1, PhD, Robert H. Gilman1, MD, Carolyne Onyango-Makumbi2, MBChB, MS, Andrea Ruff1, MD, Richard Oberhelman3, MD, and David W. Dowdy4, MD, PhD
Performance of interferon-γ release assays in the diagnosis of confirmed active tuberculosis in immunocompetent children: a new systematic review and meta-analysis
Patricia Laurenti, Matteo Raponi, Chiara de Waure, Marta Marino, Walter Ricciardi and Gianfranco Damiani

Performance of Xpert MTB/RIF and Alternative Specimen Collection Methods for the Diagnosis of Tuberculosis in HIV-Infected Children
Olivier Merck, Völkl Ung, Sophie Guyot, Laurence Becart, Philippe Moutillat, Mathurin Tejichem, Nguyen Lan Nguyen Thi, Boubacar Nacme, Sokineph Cheng, Sara Lymph, Thu Hang Pham, Abdoul Salam Ouedmo, Arnaud Tenfant, Sylvain Godin, and Christophe Delacolille, for the PAANTRER study group

Dilemma of managing asymptomatic children referred with ‘culture-confirmed’ drug-resistant tuberculosis
Marian Loveday, Babu Sunkari, Ben J Marais, Iqbal Master, James C M Brust
The Effect of Deworming on Tests of Tuberculosis Infection in Children With Recent Tuberculosis Exposure

A Randomized Controlled Trial

Marieke M. Van der Zalm, MD, PhD,† Nelda van Soelen, MD, MPH, MBA,‡ Anna M. Mandalakas, MD, PhD,† Marc Jacobsen, PhD,‡ Anne K. Detjen, MD,§ Florian M. Marx, MD, MSc,¶ Harleen M. S. Grewal, MD, PhD,**†† Mark F. Cotton, MD, PhD,‡‡ Gerhard Walzl, MD, PhD,§§ and Anneke C. Hesselink, MD, PhD*§

An evaluation of chest X-ray in the context of community-based screening of child tuberculosis contacts

Implementation of isoniazid preventive therapy in children aged under 5 years exposed to tuberculosis in Benin

M. Adjobimey,* E. Masserey,† C. Adjonou,* G. Gbénagnon,‡ V. Schwoebel,§ S. Anagonou,* J-P. Zellweger†

SAFETY AND ADHERENCE FOR 12 WEEKLY DOSES OF ISONIAZID AND RIFAPENTINE FOR PEDIATRIC TUBERCULOSIS INFECTION

Andrea T. Cruz, MD, MPH, and Jeffrey R. Starke, MD
Pharmacokinetics of Rifampin, Isoniazid, Pyrazinamide, and Ethambutol in Infants Dosed According to Revised WHO-Recommended Treatment Guidelines

A. Bekker,* H. S. Schaaf,* H. R. Draper,* L. van der Laan,* S. Murray,* L. Wiesner,* P. R. Donald,* H. M. McIlreron,* A. C. Hesseling*

Low Serum Concentrations of Rifampicin and Pyrazinamide Associated with Poor Treatment Outcomes in Children with Tuberculosis Related to HIV Status

Geetha Ramachandran, PhD,* A. K. Hemanth Kumar, PhD,* T. Kannan, MSc, MPhil,† P. K. Bhavani, MB BS,‡ S. Ramesh Kumar, MB BS,§ N. Poorana Gangadevi, MB BS, PGDPh,‖ V. V. Banurekha, MB BS,‡ V. Sudha, MSc, MPhil,* S. Venkatesh, MSW,* N. Ravichandran, MB BS, MD,§ S. Kalpana, MD,‖ G. Mathevan, MD,∥ G. N. Sanjeeva, MD,∗∗ Dipti Agarwal, MD,†† and Soumya Swaminathan, MB BS, MD‡

Isoniazid hair concentrations in children with tuberculosis: a proof of concept study

Six months therapy for tuberculous meningitis (Review)

Jullien S, Ryan H, Modi M, Bhatia R

Naïve-pooled pharmacokinetic analysis of pyrazinamide, isoniazid and rifampicin in plasma and cerebrospinal fluid of Vietnamese children with tuberculous meningitis

Thomas Pouplin1,2,1, Nguyen Duc Bang3,4,1, Pham Van To5, Pham Nguyen Phuong3, Nguyen Huy Dung5, Tran Ngoc Duong4, Maxine Caws3,4, Guy E. Thwaites2,3, Joel Tarning1,2 and Jeremy N. Day2,3
Pediatric Tuberculous Meningitis: Model-Based Approach to Determining Optimal Doses of the Anti-Tuberculosis Drugs Rifampin and Levofloxacin for Children

RM Savic¹, R Ruslami², JE Hibma¹, A Hesseling³, G Ramachandran⁴, AR Ganiem², S Swaminathan⁴, H McIlron³, A Gupta⁶, K Thakur⁶, R van Crevel⁷, R Aarnoutse⁷ and KE Dooley⁶

ORIGINAL STUDIES

Linezolid is Associated with Improved Early Outcomes of Childhood Tuberculous Meningitis

Huimin Li, MD.*, Jie Lu, PhD.*,†Jinrong Liu, MD.*, Yuhong Zhao, MD.*, Xin Ni, MD.*,† and Shunying Zhao, MD*
Loss to follow-up among adolescents with tuberculosis in Gaborone, Botswana

L. A. Enane,*†‡ E. D. Lowenthal,†‡§ T. Arscott-Mills,†‡ M. Matlhare,‡ L. S. Smallcomb,* B. Kgwaadira,¶ S. E. Coffin,*† A. P. Steenhoff*†‡

Schmidt et al. Trials (2016) 17:177

Engaging adolescents in tuberculosis and clinical trial research through drama

Bey-Marrié Schmidt¹, Amber Abrams²,³ and Michele Tameris¹*
Global burden of drug-resistant tuberculosis in children: a mathematical modelling study

*Mycobacterium tuberculosis* bacteremia in adults and children: a systematic review and meta-analysis


Smear positivity in paediatric and adult tuberculosis: systematic review and meta-analysis

Amber Kunkel, Pia Abel zur Wiesch, Ruvandhi R. Nathavitharana, Florian M. Marx, Helen E. Jenkins and Ted Cohen
Prevalence, incidence, and associated risk factors of tuberculosis in children with HIV living in the UK and Ireland (CHIPS): a cohort study

Anna Turkova, Elizabeth Chappell, Ali Judd, Ruth I. Goodall, Steven B Welch, Caroline Foster, Andrew Riordan, Delane Shingadia, Fiona Shackley, Katja Doerholt, Diana M Gibb, Intiro J Collins, for the Collaborative HIV Paediatric Study (CHIPS) Steering Committee

Tuberculosis incidence is high in HIV-infected African children but is reduced by co-trimoxazole and time on antiretroviral therapy

Angela M. Crook1, Anna Turkova1, Victor Musiime2,3, Mutsa Bwakura-Dangarembizi4, Sabrina Bakeera-Kitaka3,5, Patricia Nahirya-Nege6, Margaret Thomason1, Peter Muyenyi7, Philippa Musoke3,7, Adeodata Kekitiinwa8, Paula Munder6, Kusum Nathoo6, Andrew J. Prendergast9, A. Sarah Walker1, Diana M. Gibb1 and And The ARROW Trial Team
Human Tuberculosis Caused by *Mycobacterium bovis* in the United States, 2006–2013

Colleen Scott,1,2 Joseph S. Cavanaugh,2 Robert Pratt3 Benjamin J. Silk,2 Philip LoBue,3 and Patrick K. Moohan2

High Discordance Between Pre-US and Post-US Entry Tuberculosis Test Results Among Immigrant Children

*Is it Time to Adopt Interferon Gamma Release Assay for Preentry Tuberculosis Screening?*

Phil Lowenthal, MPH, Pennan M. Barry, MD, and Jennifer Flood, MD
Baseline Predictors of Treatment Outcomes in Children With Multidrug-Resistant Tuberculosis: A Retrospective Cohort Study

Silvia S. Chiang, Jeffrey R. Starke, Ann C. Miller, Andrea T. Cruz, Hernán Del Castillo, William José Valdivia, Gabriela Tunque, Fanny García, Carmen Contreras, Leonid Lecca, Valentina A. Alarcón, and Mercedes C. Becerra

Compassionate use of new drugs in children and adolescents with multidrug-resistant and extensively drug-resistant tuberculosis: early experiences and challenges
Conclusions

• Lots of paediatric work being done
• Previously neglected areas finally getting some attention

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