

Overview of recent research papers in childhood tuberculosis

Child and Adolescent Tuberculosis Working Group
11th November 2024

James Seddon

Professor of Global Child Health, Imperial College London
Consultant in Paediatric Infectious Diseases, St. Mary's Hospital
Professor, Stellenbosch University



**Child & Adolescent
TB Working Group**



child* tuberc*

Search

Advanced Create alert Create RSS

User Guide

Save

Email

Send to

Sort by: Most recent

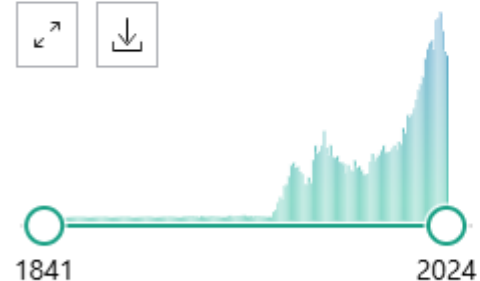
Display options

MY CUSTOM FILTERS

41,519 results

Page 1 of 4,152

RESULTS BY YEAR



PUBLICATION DATE

1 year

5 years



Molecular analysis of inherited disorders of cornification in polish patients show novel variants and functional data and provokes questions on the significance of secondary findings.

1

Cite

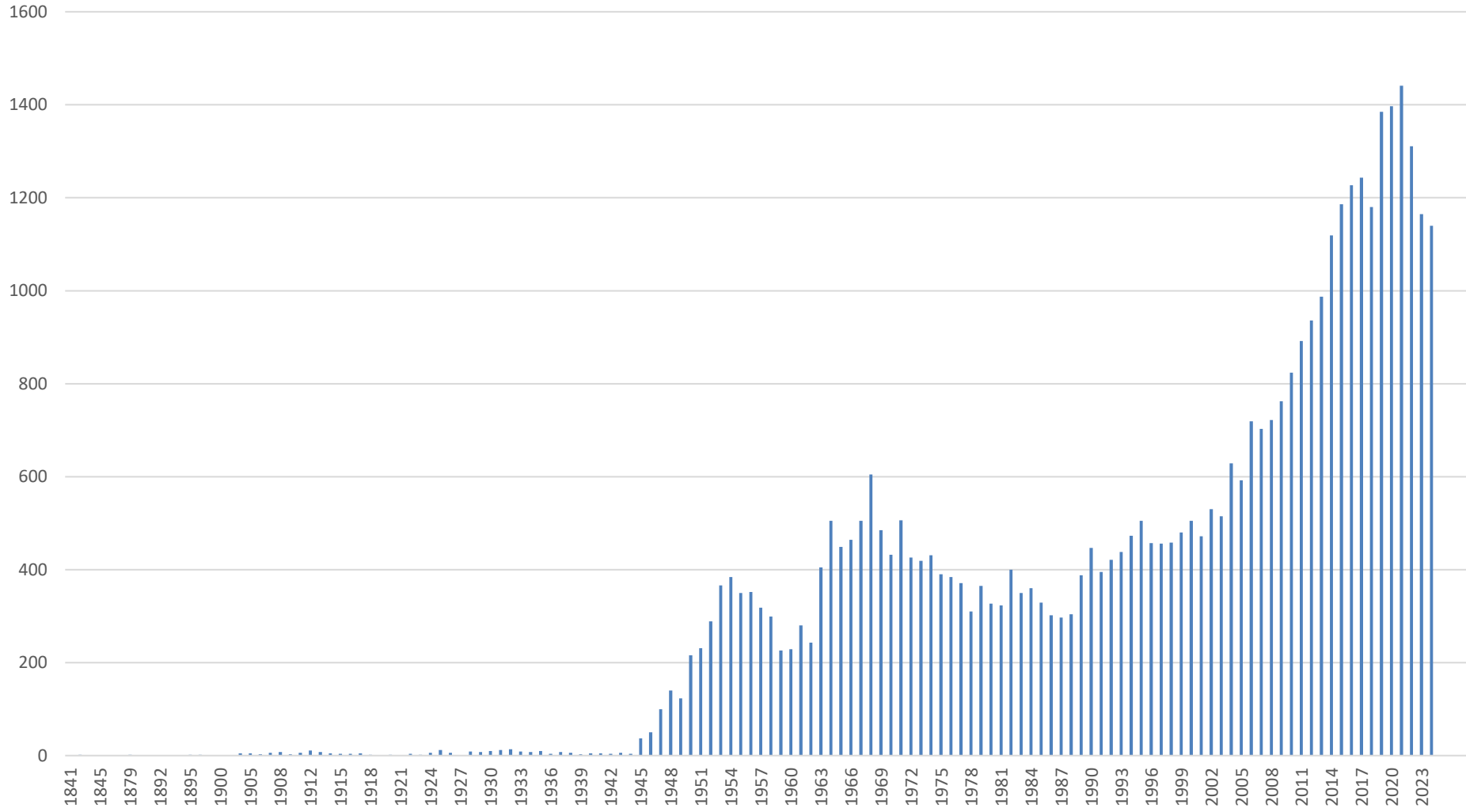
Share

Wertheim-Tysarowska K, Osipowicz K, Woźniak K, Sawicka J, Mika A, Kutkowska-Kaźmierczak A, Niepokój K, Sobczyńska-Tomaszewska A, Wawrzycki B, Pietrzak A, Śmigiel R, Wojtaś B, Gielniewski B, Szabelska-Berezewicz A, Zyprych-Walczak J, Rygiel AM, Domaszewicz A, Braun-Walicka N, Grabarczyk A, Rzońca-Niewczas S, Lidia R, Dawidziuk M, Domański D, Gambin T, Jackiewicz M, Duk K, Dorożko B, Szczygielski O, Krześniak N, Noszczyk BH, Obersztyn E, Wierzba J, Barczyk A, Castaneda J, Eckersdorf-Mastalerz A, Jakubiuk-Tomaszuk A, Własienko P, Jaszczuk I, Jezela-Stanek A, Kłapecki J, van Geel M, Kowalewski C, Bal J, Gostyński A.

Orphanet J Rare Dis. 2024 Nov 5;19(1):413. doi: 10.1186/s13023-024-03395-4.

PMID: 39501396

PubMed search: "child* tuberc*"





child* tuberc*

Search

Advanced Create alert Create RSS

User Guide

Save

Email

Send to

Sort by:

Most recent



Display options

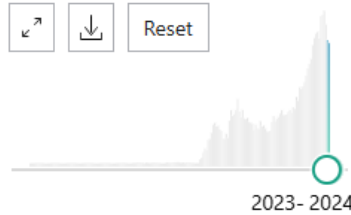


MY CUSTOM FILTERS

1,287 results

Page 1 of 129

RESULTS BY YEAR



PUBLICATION DATE

- 1 year
- 5 years
- 10 years
- From 2023/11/8 to 2024/11/10

Filters applied: from 2023/11/8 - 2024/11/10. [Clear all](#)

- 1 [Molecular analysis of inherited disorders of cornification in polish patients show novel variants and functional data and provokes questions on the significance of secondary findings.](#)
Cite
Share
Wertheim-Tysarowska K, Osipowicz K, Woźniak K, Sawicka J, Mika A, Kutkowska-Kaźmierczak A, Niepokój K, Sobczyńska-Tomaszewska A, Wawrzycki B, Pietrzak A, Śmigiel R, Wojtaś B, Gielniewski B, Szabelska-Bereśiewicz A, Żyprych-Walczak J, Rygiel AM, Domaszewicz A, Braun-Walicka N, Grabarczyk A, Rzońca-Niewczas S, Lidia R, Dawidziuk M, Domański D, Gambin T, Jackiewicz M, Duk K, Dorożko B, Szczygielski O, Jakubiuk-Tomaszuk A, Własienko P, Jaszczuk I, Jezela-Stanek A, Kłapecki J, van Geel M, Kowalewski C, Bal J, Gostyński A.
Orphanet J Rare Dis. 2024 Nov 5;19(1):413. doi: 10.1186/s13023-024-03395-4.
PMID: 39501396

My biases

- 1287 studies identified on PubMed
- On review of title selected 106 that I thought looked interesting
- No narrative reviews or case reports
- Only given 15 minutes this year!!
- Review of abstracts brought down to 21
- PLEASE forgive me if I have not included your paper!!!
- PLEASE forgive me if I do a terrible job of summarising your work in <1 minute!



"A WORLD WITHOUT BIAS
IS TOO HARD. WOULD YOU
SETTLE FOR WORLD PEACE?"

CaP TB

RESEARCH ARTICLE

Improving TB detection among children in routine clinical care through intensified case finding in facility-based child health entry points and decentralized management: A before-and-after study in Nine Sub-Saharan African Countries

Jean-François Lemaire¹✉, Jennifer Cohn², Shirin Kakayeva³, Boris Tchounga⁴, Patricia Fassinou Ekouévi⁵, Vicky Kambaji Ilunga⁶, Donald Ochieng Yara⁷, Samson Lanje⁸, Yusuf Bhamu⁹, Leo Haule¹⁰, Mary Namubiru¹¹, Tichaona Nyamundaya¹², Maude Berset¹, Mikhael de Souza¹, Rhoderick Machezano³, Martina Casenghi¹✉*, the CaP-TB Study team¹

Effectiveness of a community-based approach for the investigation and management of children with household tuberculosis contact in Cameroon and Uganda: a cluster-randomised trial

*Maryline Bonnet, Anca Vasiliu, Boris K Tchounga, Benjamin Cuer, Katherine Fielding, Bob Ssekyanzi, Boris Tchakounte Youngui, Jennifer Cohn, Peter J Dodd, Georges Tiendrebeogo, Patrice Tchendjou, Leonie Simo, Richard F Okello, Albert Kuate Kuate, Stavia Turyahabwe, Daniel Atwine, Stephen M Graham, Martina Casenghi, CONTACT study group**

Epidemiology, case finding and biology

Am. J. Trop. Med. Hyg., 110(6), 2024, pp. 1253–1260
doi:10.4269/ajtmh.23-0038
Copyright © 2024 The author(s)

Mycobacterium tuberculosis Infection in School Contacts of Tuberculosis Cases: A Systematic Review and Meta-Analysis

Wenjin Wang,^{1,2†} Aohan Liu,^{3†} Xinjie Liu,^{4†} Nannan You,⁵ Zhan Wang,¹ Cheng Chen,¹ Limei Zhu,¹ Leonardo Martinez,⁶
Wei Lu,^{1*} and Qiao Liu^{1*}

Indian Journal of Pediatrics (August 2024) 91(8):773–780
<https://doi.org/10.1007/s12098-023-04723-5>

ORIGINAL ARTICLE



Pulmonary Tuberculosis in Severely Malnourished Children Admitted to Nutrition Rehabilitation Centers: A Multicenter Study

Manjula Singh¹ · Bhavna Dhingra² · Bipra Bishnu³ · Dhruvendra Pandey⁴ · Praveen K. Anand⁵ · Sarika Gupta⁶ ·
Vidyanand Ravi Das⁷ · Nitin Dhochak⁸ · S. K. Kabra⁸ · NRC Group

RESEARCH

Open Access



The socioeconomic burden of pediatric tuberculosis and role of child-sensitive social protection

Kinari Shah^{1,2†}, Jascent Nakafeero^{3†}, Jillian L. Kadota^{1,2}, Peter Wambi³, Gertrude Nanyonga³, Emma Kiconco³, Atwiine Deus³, Moorine P. Sekadde⁴, Mary G. Nabukenya-Mudioppe⁵, Hellen Aanyu-Tukamuhebwa³, Ezekiel Mupere⁶, Swomitra Mohanty⁷, Adithya Cattamanchi^{1,2,8}, Eric Wobudeya³, Priya B. Shete^{1,2} and Devan Jaganath^{1,2,9*}

Clinical Imaging 105 (2024) 110024



ELSEVIER

Contents lists available at ScienceDirect

Clinical Imaging

journal homepage: www.elsevier.com/locate/clinimag



Pediatric Radiology

Frequency of abnormal findings on chest radiograph after positive PPD in children and adolescents in an urban setting in the United States

Monica Miranda-Schaeubinger^{a,*}, Hermon Miliard Derbew^a, Alexandra Ramirez^a, Maretta Smith^a, Mohammad Jalloul^a, Savvas Andronikou^{a,b}, Hansel J. Otero^{a,b}

^a Department of Radiology, Children's Hospital of Philadelphia, 3401 Civic Center Blvd, Philadelphia, PA, 19104, USA

^b University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA, USA






Received: 24 May 2024 | Accepted: 1 September 2024

DOI: 10.1002/ppul.27253

ORIGINAL ARTICLE



Assessment of lower respiratory tract microbiota associated with pulmonary tuberculosis in children

Xuemei Yang MM¹ | Weiwei Jiao PhD¹ | Xi Zeng MM¹ | Jie Yu PhD¹  |
Jing Xiao PhD¹ | Tingting Jiang MM² | He Tang MM² | Jing Bi MM² |
Yiyi Chen PhD¹ | Xiaoxue Li PhD¹ | Wanning Chen MM¹ | Yu Chen MM³ |
Adong Shen MM^{1,4}  | Lin Sun PhD¹ 

Diagnostics



Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Tuberculosis

journal homepage: www.elsevier.com/locate/tube



Exhaled breath analysis: A promising triage test for tuberculosis in young children

Else M. Bijker^{a,b}, Jonathan P. Smith^{c,d}, Walter Mchembere^e, Kimberly D. McCarthy^f, Henny Oord^g, Jan-Willem Gerritsen^g, Eleanor S. Click^c, Kevin Cain^c, Rinn Song^{a,h,i,*}

Agizew et al. *BMC Infectious Diseases* (2024) 24:401
<https://doi.org/10.1186/s12879-024-09313-0>

BMC Infectious Diseases

RESEARCH

Open Access

Increased tuberculosis case detection in Tanzanian children and adults using African giant pouched rats

Tefera B. Agizew^{1,2*}, Joseph Soka¹, Cynthia D. Fast^{1,2}, Stephen Mwimanzi¹, Gilbert Mwesiga¹, Nashon Edward¹, Marygiven Stephen¹, Reheme Kondo¹, Robert Burny³, Christophe Cox^{1,2} and Negussie Beyene^{1,2,4}



Xpert-Ultra Assay in Stool and Urine Samples to Improve Tuberculosis Diagnosis in Children: The Médecins Sans Frontières Experience in Guinea-Bissau and South Sudan

Laura Moretó-Planas,^{1,2,✉} Raman Mahajan,³ Lazro Fidelle Nyikayo,⁴ Yoanis Bedpinj Peter Ajack,⁴ Buai Tut Chol,⁵ Eltigani Osman,⁵ Mitchell Sangma,⁶ Apal Tobi,⁷ Jonathan Gallo,⁸ Evelize Biague,⁸ Ramiro Gonçalves,⁸ Mercè Rocaspana,¹ Cándida Medina,⁹ Miguel Camará,¹⁰ Laurence Flevaud,¹ Lisa C. Ruby,^{11,12} Sabine Bédard,^{11,12} María José Sagrado,¹ Israel Molina,¹³ and Augusto E. Llosa¹

IJTLD OPEN 1(10):437–442

© 2024 The Authors <http://dx.doi.org/10.5588/ijtldopen.24.0334>

TB IN CHILDREN

Stool Xpert[®] MTB/RIF Ultra for TB diagnosis in children: experience from a national scale-up programme

S. Kabir,¹ S. Choudhury,¹ T. Rahman,¹ S.M.M. Rahman,¹ M.K.M. Uddin,¹ A. Nashra,¹ A. Hossain,¹ S. Naher,¹ K.M.S. Towhid,² L. Shahrin,^{3,4} S. Ahmed,¹ P. Daru,¹ J. Hoffmann,⁵ S. Banu¹

RaPaed

Sequential and parallel testing for microbiological confirmation of tuberculosis disease in children in five low-income and middle-income countries: a secondary analysis of the RaPaed-TB study

Laura Olbrich, Zoe Franckling-Smith*, Leyla Larsson, Issa Sabi, Nyanda Elias Ntinginya, Celso Khosa, Denise Banze, Marriott Nliwasa, Elizabeth Lucy Corbett, Robina Semphere, Valsan Philip Verghese, Joy Sarojini Michael, Marilyn Mary Ninan, Elmar Saathoff, Timothy Daniel McHugh, Alia Razid, Stephen Michael Graham, Rinn Song, Pamela Nabeta, Andre Trollip, Mark Patrick Nicol, Michael Hoelscher, Christof Geldmacher, Norbert Heinrich†, Heather Joy Zar‡, on behalf of the RaPaed-AIDA-TB consortium‡*

Diagnostic accuracy of a three-gene *Mycobacterium tuberculosis* host response cartridge using fingerstick blood for childhood tuberculosis: a multicentre prospective study in low-income and middle-income countries

Laura Olbrich, Valsan P Verghese*, Zoe Franckling-Smith, Issa Sabi, Nyanda E Ntinginya, Alfred Mfinanga, Denise Banze, Sofia Viegas, Celso Khosa, Robina Semphere, Marriott Nliwasa, Timothy D McHugh, Leyla Larsson, Alia Razid, Rinn Song, Elizabeth L Corbett, Pamela Nabeta, Andre Trollip, Stephen M Graham, Michael Hoelscher, Christof Geldmacher, Heather J Zar, Joy Sarojini Michael*, Norbert Heinrich*, on behalf of the RaPaed-TB consortium†*

TB-Speed

Effect of decentralising childhood tuberculosis diagnosis to primary health centre versus district hospital levels on disease detection in children from six high tuberculosis incidence countries: an operational research, pre-post intervention study

Eric Wobudeya,^{a,} Mastula Nanfuka,^a Minh Huyen Ton Nu Nguyet,^b Jean-Voisin Taguebue,^c Raoul Moh,^{d,e} Guillaume Breton,^f Celso Khosa,^g Laurence Borand,^h Juliet Mwangi-Amumpaire,ⁱ Ayeshatu Mustapha,^j Sylvie Kwedi Nolna,^k Eric Komena,^e Jacob Ross Mugisha,^l Naome Natukunda,ⁱ Bunnet Dim,^h Agathe de Lauzanne,^h Saniata Cumbe,^g Eric Balestre,^b Julien Poublan,^b Manon Lounnas,^m Eden Ngu,ⁿ Basant Joshi,^b Pierre-Yves Norval,^o Etienne Leroy Terquiem,^o Stavia Turyahabwe,^p Lynda Foray,^q Souleymane Sidibé,^r Kuate Kuate Albert,^s Ivan Manhiça,^t Moorine Sekadde,^p Anne Detjen,^u Sabine Verkuyl,^v Tan Eang Mao,^w Joanna Orne-Gliemann,^b Maryline Bonnet,^k and Olivier Marcy,^b for the TB-Speed Decentralisation study group*

Development of tuberculosis treatment decision algorithms in children below 5 years hospitalised with severe acute malnutrition in Zambia and Uganda: a prospective diagnostic cohort study

Chishala Chabala,^{a,b,} Clémentine Roucher,^c Minh Huyen Ton Nu Nguyet,^c Esther Babirekere,^d Muleya Inambao,^e Gerald Businge,^f Chifunda Kapula,^b Perfect Shankalala,^b Bwendo Nduna,^e Veronica Mulenga,^{a,b} Stephen Graham,^g Eric Wobudeya,^f Maryline Bonnet,^h and Olivier Marcy,^c for the TB-Speed SAM study group*



Pharmacokinetics

Clinical Infectious Diseases

MAJOR ARTICLE



Linezolid Pharmacokinetic-Anemia Modeling in Children With Rifampicin-Resistant Tuberculosis

Jordan T. Brooks,^{1,Ⓞ} Belén P. Solans,^{2,3,Ⓞ} Agathe Béranger,^{2,3,4,Ⓞ} H. Simon Schaaf,^{5,Ⓞ} Louvina van der Laan,^{5,6,Ⓞ} Sangeeta Sharma,⁷ Jennifer Furin,⁸ Heather R. Draper,⁵ Anneke C. Hesseling,^{5,Ⓞ} Anthony J. Garcia-Prats,^{5,9,a,Ⓞ} and Radojka M. Savic^{2,3,a}

Clinical Infectious Diseases

MAJOR ARTICLE



Twice-Daily Dosing of Dolutegravir in Infants on Rifampicin Treatment: A Pharmacokinetic Substudy of the EMPIRICAL Trial

Tom G. Jacobs,^{1,a,Ⓞ} Vivian Mumbiro,^{2,a} Uneisse Cassia,³ Kevin Zimba,⁴ Damalie Nalwanga,⁵ Alvaro Ballesteros,⁶ Sara Domínguez-Rodríguez,^{6,Ⓞ} Alfredo Tagarro,^{6,7,8,Ⓞ} Lola Madrid,^{6,9} Constantine Mutata,² Moses Chitsamatanga,² Mutsa Bwakura-Dangarembizi,² Alfeu Passanduca,³ W. Chris Buck,^{3,10} Bwendo Nduna,¹¹ Chishala Chabala,^{4,12,13} Elizabeth Najjingo,¹⁴ Victor Musiime,^{5,15} Cinta Moraleda,^{6,16} Angela Colbers,^{1,Ⓞ} Hilda A. Mujuru,^{2,b} Pablo Rojo,^{6,16,17,b} and David M. Burger^{1,b}; on Behalf of the EMPIRICAL Clinical Trial Group

MDR-TB

Efficacy and safety of the all-oral bedaquiline-containing regimen as treatment for pediatric multidrug/rifampicin-resistant tuberculosis: a multicenter, retrospective, cohort study

Wen-Wen Sun, Ming Yang, Xiao-Hong Chen, Li-Chao Fan, Hao-Yu Wu, Shao-Jun Zhang, Yu Chen & Lin Fan

Short oral treatment regimens for rifampicin-resistant tuberculosis are safe and effective for young children: results from a field-based, non-randomised clinical trial from Kandahar, Afghanistan

Anita Mesic^{1,2}, Ine Decuyper ², Sadiqullah Ishaq³, Taiba Azizi³, Fazal Hadi Ziamal⁴, Shirbaz Amiri³, Kees Keus¹, Moe Thandar Pyae³, Khan Mohammed Mangal⁵, Hashim Khan Amirzada⁵, Assadullah Rasooli⁵, Mohammad Reza Aloudal⁶, Mohammad Zaher Daldar⁵ and Tom Decroo ²

Post-TB

Impaired lung function in adolescents with pulmonary tuberculosis during treatment and following treatment completion

Marieke M. van der Zalm,^{a,*} Vita W. Jongen,^{a,b} Ruan Swanepoel,^c Klassina Zimri,^a Brian Allwood,^d Megan Palmer,^a Rory Dunbar,^a Pierre Goussard,^e H Simon Schaaf,^a Anneke C. Hesselink,^a and James A. Seddon^{a,f}







Received: 10 January 2024 | Accepted: 4 April 2024

DOI: 10.1002/ppul.27009

ORIGINAL ARTICLE

 WILEY

Post-tuberculosis respiratory impairment in Gambian children and adolescents: A cross-sectional analysis

Esin Nkereuwem MBBCh, FWACP^{1,2}  | Schadrac Agbla PhD^{3,4}  | Bintou Njai MD¹ | Victory Fabian Edem PhD¹  | Muhammed Lamin Jatta¹ | Olumuyiwa Owolabi MBBS, FMCP¹ | Uma Masterton BSN¹ | Fatoumatta Jah BA¹ | Madikoi Danso MBChB¹ | Aunty Nyima Fofana MBChB¹ | Wandifa Samateh MPH⁵ | Muhammed Lamin Darboe MSc⁵ | Sheila Ageiwaa Owusu MBChB, MPH^{1,2}  | Andrew Bush MD, PhD^{6,7} | Beate Kampmann MD, PhD^{1,2,8}  | Toyin Togun MD, PhD^{1,2,9} 

Conclusions

- Number of publications increasing, many of high quality
- Year of publications from large, well-funded studies (RaPaed, CaP-TB, TB-Speed)
- But also lots of other studies
- Good geographical variation

