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<td>Safety and completion of a four-month course of Rrifampin for latent tuberculosis infection in children</td>
<td>A Cruz, J R Starke (USA)</td>
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<td>PD-501-30</td>
<td>IGRA testing in an international adoptee clinic</td>
<td>D Fisher, L Delmar, S Kuhn, S Warner, J Jarand, M Lemay (Canada)</td>
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<td>PD-502-30</td>
<td>Childhood TB management in Cambodia improving pulmonary TB diagnosis and IPT management</td>
<td>K Seak, T Bakkhim, K Okada, C Prum, S Kim, T E Mao (Cambodia, Japan)</td>
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<td>PD-503-30</td>
<td>Access to HIV service by TB-HIV coinfected children in Lagos, Nigeria: is co-location of services an important factor?</td>
<td>O Daniel, O Adejumo, H Abdur-razzaq, J O Obasanya, Ayo Awe (Nigeria)</td>
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<td>Patient factors associated with acceptance and adherence of pediatric latent tuberculosis treatment in Rio de Janeiro</td>
<td>AP Silva, P Hill, R Menzies, S Garcia Rabelo, K Hornby, C Valiquette, M Belo, A Trajman (New Zealand, Canada, Brazil)</td>
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<td>Optimising latent tuberculosis infection screening in pediatric dialysis patients</td>
<td>A Cruz, J Geer, G Sarasak, S Swartz (USA)</td>
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<td>Do we need to change our screening policy for children exposed to TB? Results from the UK-NIKS-study</td>
<td>B Kampmann, B Williams, S Welch, Z Nademi, J Paton, J Bernatoniene, S Patel, A Riddell (UK)</td>
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<td>Barriers and workable strategies for universal coverage of eligible children with isoniazid preventive therapy under RNTCP</td>
<td>S Samuel, D Dharmaraj (India)</td>
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<td>Aspects of epidemiologic children with latent tuberculosis infection in hospital of reference</td>
<td>A Mendonca, A Kritski, C Sant’anna (Brazil)</td>
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<td>Acceptance of preventive treatment by immigrants when latent tuberculosis infection is diagnosed</td>
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<td>Status of chemoprophylaxis for children under six year’s age exposed to active TB: a looming challenge in India</td>
<td>K Sagili, S Chadha (India)</td>
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<td>Implementation of isoniazid preventive therapy (IPT) at a pediatric HIV clinic in Uganda</td>
<td>F Kanyike, S Kitaka, B Nsangi, M Sekadde, F Baruga, A Kekitiinwa (Uganda)</td>
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<td>PD-512-30</td>
<td>Decentralisation of ART care through option B+: an opportunity to improve IPT uptake for children?</td>
<td>J Firth, C Lijinsky, T Arscott-mills, B Phelps, C Powell (USA, Botswana)</td>
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### 02. Lung cancer, occupational exposure and air pollution

**Thursday, 30 October 2014, 10:15-11:15**

**Chair:** Guy Marks (Australia)  
**Section:** Adult & Child Lung Health

| PD-513-30 | The analysis of factors associated with misdiagnosis of lung cancer in TB hospital  
| Z Laushkina (*Russian Federation*) |
| PD-514-30 | Education in lung cancer patients: advocacy project by Indian Cancer NGO  
| S Pramod (*India*) |
| PD-515-30 | Effects of biomass fuel on child acute respiratory infections in Cameroon and Gabon  
| P Loty (*Cameroon*) |
| PD-516-30 | Prognosis of *Mycobacterium tuberculosis* infection in patients with non-curable gastric cancer  
| S-F Huang, Yee Chao, Li Chung-pin, Kuo Cheng-yu, Su Wei-juin (*Taiwan*) |
| PD-517-30 | The effect of exposure to wood smoke on treatment outcomes for childhood pneumonia in Botswana  
| M Kelly, K Wirth, T Arscott-mills, J Madrigano, M Smieja, C Cunningham, K Feemster, A Steenhoff (*USA, Botswana*) |
| PD-518-30 | Health seeking behaviour of the miners: a case from Pakhar mines, Lohardarga district, Jharkhand  
| S Gadala, S Diwakar, Mura Krithika, Tomi Thomas, P Banuru Muralidhara (*India*) |
| PD-519-30 | Lung health of coal mining workers and their health seeking behaviour in Dakra, Ranchi district, India  
| S Gadala, Rout Sanchita, Mura Krithika, Tomi Thomas, P Banuru Muralidhara (*India*) |
| PD-520-30 | Lung cancer among patients at Tikur Anbessa Specialised Hospital (TASH), Addis Ababa, Ethiopia  
| M Parekh, F Oumer, J Schneider, A Bindegdie Bekele, T Bayisa, O Braendli, C Sherman, N Schluger (*USA, Ethiopia, Switzerland*) |
| PD-521-30 | Utility of fiberoptic bronchoscopy at Tikur Anbessa Specialized Hospital, Addis Ababa, Ethiopia  
| F Oumer, M Parekh, J Schneider, A Bindegdie Bekele, T Bayisa, O Braendli, C Sherman, N Schluger (*USA, Ethiopia, Switzerland*) |
| PD-522-30 | Tuberculosis and chronic kidney disease: a systematic review  
| K Al-efraij, L Mota, V Cook, J Johnston (*Canada*) |
| PD-523-30 | Relationship between solvent exposure with impaired lung function to workers painting in one of the automotive industry in Jakarta, Indonesia  
| R Haryanti, N Prihartono (*Indonesia*) |
| PD-524-30 | Non-TB respiratory comorbidity among patients attending primary care practices in India  
<p>| S Pati, S Swain, C Salisbury (<em>India</em>) |</p>
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<td>Validation of the “Keith Edwards” TB score chart among suspected paediatric TB cases in a West African setting with low-HIV prevalence</td>
<td>T Togun, U Egere, A Sillah, J Otu, M Antonio, J Sutherland, P Hill, B Kampmann (Gambia, New Zealand, UK)</td>
<td>Kerala Health Sciences University, India</td>
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<td>PD-527-30</td>
<td>Childhood tuberculosis: retrospective review of samples received at a microbiology laboratory in KwaZulu Natal</td>
<td>M Khan Mbchb, P Mahabeer, K Mlisana (South Africa)</td>
<td>Stellenbosch University, South Africa</td>
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<td>PD-528-30</td>
<td>TB Incidence during follow-up of children contacts of smear-positive cases according initial levels of T.S.T induration and IFN-γ production</td>
<td>M N Altet Gomez, MA De Souza-galvao, J Dominguez, MA Jiménez, T Soriano, J Solsona, &amp; Orcau Palau, JA Caylà (Spain)</td>
<td>University of the Philippines, Manila, Philippines</td>
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<td>Diaskintest® - screening method in mass examination of the child population for tuberculosis in Russia</td>
<td>V Aksenova, N.I. Klevno (Russian Federation)</td>
<td>Russian Academy of Medical Sciences, Moscow, Russia</td>
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<td>PD-530-30</td>
<td>Interferon-gamma release assay positivity is associated with time since BCG vaccination in infants in rural Malawi</td>
<td>P Khan, T Mzembe, D Mulawa, F Simukonda, A Crampin, J Glynn, P Fine (UK)</td>
<td>National Institute of Allergy and Infectious Diseases, Bethesda, USA</td>
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<td>Bacteriologically confirmed pulmonary tuberculosis among children with presumptive tuberculosis at the National Referral Hospital in Uganda</td>
<td>M Sekadde, E Wobudeya, W Ssengoooba, M Joloba, H Kisembo, S Kitaka, P Musoke (Uganda)</td>
<td>Uganda National Medical Research Council, Kampala, Uganda</td>
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<td>PD-532-30</td>
<td>Use of the QuantiFERON®-TB Gold in-tube test in paediatric patients with a “Borderline Positive” tuberculin skin test does not improve compliance</td>
<td>L Perkins, J Lewis, W Wang, WG Hunt (USA)</td>
<td>University of California, San Francisco, USA</td>
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<td>PD-533-30</td>
<td>Tuberculosis bacteremia not detected in febrile children in western Kenya</td>
<td>P Pavlinac, J Naulikha, F Onchiri, B Singa, L Cranmer, E Lokken, G John-stewart, Judd Watson (USA)</td>
<td>Medical University of South Carolina, USA</td>
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<td>PD-534-30</td>
<td>Determining the capability of sputum collection through induction for the diagnosis of tuberculosis in children in Kenya</td>
<td>J Oliwa, R Oberhelman, D Wamalwa, P Ayieko, D Marangu, J Oyugi, E Obimbo (Kenya)</td>
<td>Kenyatta National Hospital, Nairobi, Kenya</td>
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<td>Results of RT-PCR examinations in the diagnosis of pulmonary and extra-pulmonary tuberculosis</td>
<td>T Pyanzova, M Primkulova, N Luzina (Russian Federation)</td>
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<td>Culture results of presumptive drug resistant pulmonary TB patients with Mycobacterium tuberculosis (MTB) not detected result on Xpert MTB/RIF®</td>
<td>P Dave, P Patel, b Vadera, B Modi, K Rade, Sand Bharaswadkar, M Ghedia, A Amar Shah (India)</td>
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<td>PD-538-30</td>
<td>Detection of Mycobacterium tuberculosis from faeces sample by Xpert MTB/RIF</td>
<td>S. Yoshimatsu, H Kokotou, Lina Yi, K Mizuno, Y Sasaki, S Mitarai (Japan)</td>
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<td>Utility of string test and stool for diagnosing pulmonary tuberculosis using geneXpert MTB/RIF</td>
<td>A Dinardo, A Hahn, J Leyden, E Graviss, C Stager, E Baron, A Mandalakas, E Guy (USA)</td>
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<td>PD-540-30</td>
<td>The role of loop-mediated isothermal amplification (TB-LAMP) and Xpert MTB/RIF for the diagnosis of pleural tuberculosis</td>
<td>Mulu Getahun, Y Fisiha, A Kebede, T Gebeyehu, Z Dagne, A Abebe, S Mitarai, E Lemma (Ethiopia, Japan)</td>
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<td>PD-541-30</td>
<td>Use of a connectivity solution (GxAlert) in GeneXpert machines improves DR-TB data collection and patient management in Nigeria</td>
<td>K Jimoh, J Takle, L Ekbladh, J O Obasanya, C Macek, O Adeleke (Nigeria, USA)</td>
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<td>PD-542-30</td>
<td>Assessment of bacterial load quantitation by Xpert®MTB/RIF to predict the smear microscopy grade of TB patients: a rural lab network in Swaziland</td>
<td>G Obregon Boltan, B Kerschberger, A Antierens, R Dela Tour (Peru)</td>
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<td>PD-543-30</td>
<td>Remote calibration: experience from GeneXpert implementation in Malawi</td>
<td>A Omer, S Dalebout, Stev Neri, B Gadama, M Mkata, A Mwanyimbo, R Nalikungwi, A Trusov (Malawi, Namibia, USA)</td>
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<td>PD-545-30</td>
<td>A pragmatic randomised trial to assess impact of LPA versus Xpert MTB/RIF versus MGIT in Brazil</td>
<td>A Kritski, M De Oliveira, D Ramalho, I Langley, P Philips, A Detjen, P Fujiwara, S Squire (Brazil, UK, USA)</td>
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<td>PD-546-30</td>
<td>Confirmation of Xpert-detected rifampicin resistance adds unnecessary complexity to treatment decisions</td>
<td>N Lorent, C Kong, T Kim, W De Rijk, S Thai, L Rigouts (Belgium, Cambodia)</td>
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05. Gene polymorphisms and immunology
Thursday, 30 October 2014, 10:15-11:15

Chair: Thomas Shinnick (USA) 
Section: Tuberculosis/Bacteriology & Immunology

PD-548-30 Vitamin D receptor (FOK I) gene polymorphism in pulmonary tuberculosis patients at Mulago hospital  
E Acen, JOSE Erume, W O Worodria (Uganda)  

PD-549-30 Influence of gene polymorphism (IL-2 and IL-4) and cytokines in patients with recurrent pulmonary tuberculosis on standard chemotherapy  
D Butov, M Kuzhko, A Stepanenko, T Butova (Ukraine)  

PD-550-30 Associations Between Human Leukocyte Antigen Class I Variants and the Mycobacterium tuberculosis Subtypes Causing Disease  
M Salie, L Van Der Merwe, M Moller, P Van Helden, X Gao, R M Warren, M Carrington, E Hoal (South Africa)  

PD-551-30 Racial differences in neutrophil counts and reported neutropenia in two international TB treatment trials, rifapentine-rifampicin, TBTC Studies29-29x  
R Moro, A Borisov, J L Johnson, C C Leung, K-C Chang, N Martinson, S Goldberg (USA, China, Hong Kong, South Africa)  

PD-552-30 Laboratory indices in the patients with pulmonary tuberculosis according to CYP2E1 genotype  
P Antonenko, V. Kresyun, V. Filuk, K Antonenko, N. Gerasimova, Yu Danilenko, G Mozolevich (Ukraine)  

PD-553-30 Expression of membrane-bound receptors to tumor necrosis factor alpha in active pulmonary tuberculosis  
A Alshevskaya, Z Laushkina, F Kireev, J Lopatnikova, S Sennikov (Russian Federation)  

PD-554-30 DEFB1 gene polymorphisms and tuberculosis in a north-eastern Brazilian population  
H Da Cruz, R Celerino Da Silva, L Segat, L.A. Cavalcanti Brandão, R Lima Guimarães, L.M. Lapa Montenegro, H Charifker Schindler, S Crovella (Brazil)  

PD-555-30 Evaluation of the association of single nucleotide polymorphisms of genes of TNF? and IL-10 with susceptibility to pulmonary tuberculosis  
LM Lapa Montenegro, Andr Nascimento, F Fulco Santos, A Peixoto, M Cardoso, H Da Cruz, C Morais, H Charifker Schindler (Brazil)
## 06. Immune responses in TB  
**Thursday, 30 October 2014, 10:15-11:15**

**Chair:** Rumina Hasan (Pakistan)  
**Section:** Tuberculosis/Bacteriology & Immunology

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<td>PD-556-30</td>
<td>Impaired immune response of peripheral blood mononuclear cells from non-human immunodeficiency virus infected patients with MAC-LD</td>
<td>C-C Shu, C-J Yu, J-Y Wang, L-N Lee (Taiwan)</td>
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<td>PD-557-30</td>
<td>The diagnostic role of inflammatory and anti-inflammatory cytokines and effector molecules of cytotoxic T lymphocytes in tuberculous pleural effusion</td>
<td>C-C Shu, C-J Yu, J-Y Wang, L-N Lee (Taiwan)</td>
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<td>PD-558-30</td>
<td>Interferon-gamma responses to ESAT-6/CFP-10 and PPD are comparable between children of all age groups in the Gambia</td>
<td>T Togun, M.P Gomez, U Egere, M Daramy, A Sillah, L Tientcheu, J Sutherland, B Kampmann (Gambia, Cameroon, UK)</td>
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<td>PD-559-30</td>
<td>Mycobacterial antigens disappear from host tissue during latent Mycobacterium tuberculosis infection</td>
<td>T Mustafa, H Wiker, M Harboe, G Bjune (Norway)</td>
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<td>PD-560-30</td>
<td>Antigen-induced perforin production by populations of cytotoxic (CD8+) T-cells in children and adolescents with tuberculosis infection</td>
<td>LI Mordovskaya, M Vladimirsky, V Aksenova (Russian Federation)</td>
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<td>PD-561-30</td>
<td>Biomarker candidates for LTBI treatment efficacy: an exploratory study</td>
<td>M Lisboa Bastos, J Lima, M Siqueira, S Garcia Rabelo, T Pedro, C Ponte, P Antas, A Trajman (Brazil)</td>
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<td>PD-562-30</td>
<td>Latency-associated antigens: interferon-gamma immunoreactivity evaluation in close contacts recently exposed to Mycobacterium tuberculosis</td>
<td>L Araujo, N Da Silva, R Da Silva, JA Leung, F Mello, TH Ottenhoff, MH Saad (Brazil, Netherlands)</td>
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<td>Cytokine levels during TB treatment in a paediatric cohort</td>
<td>L Hasper, M Chachage, N Elias, A Rachow, A Bauer, M Hoelscher, C Geldmacher, I Kroidl (Germany)</td>
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<td>PD-566-30</td>
<td>Evidence of lipid antigen presentation by CD1d pathway in murine alveolar epithelial cells against Mycobacterium bovis (BCG) infection</td>
<td>Z Rizvi, Niti Puri, R K Saxena (India)</td>
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<td>PD-567-30</td>
<td>A cohort study of duration and changes in BCG effectiveness against tuberculosis with time since vaccination in Norway</td>
<td>P Nguipdop-djomo, P Mangtani, L Rodrigues, K Rønning, I Cappelen, E Heldal, I Abubakar (UK, Norway)</td>
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### 07. Molecular detection of TB and drug resistance - I
**Thursday, 30 October 2014, 10:15-11:15**

**Chair:** Daniela M Cirillo (Italy)  
**Section:** Tuberculosis/Bacteriology & Immunology

| PD-568-30 | Cost-effectiveness of XDR-TB diagnostics: GCDD results  
| E Groessl, N Hillery, A Trollip, L Jackson, R Garfein, T Rodwell, T Ganiats, A Catanzaro (USA) |
| PD-569-30 | Isolation and identification of nontuberculous mycobacterium by polymerase chain reaction: restriction enzyme - a simple and robust method  
| A K Verma, Gavi Kumar, J Arora, Manp Bhalla, Shas Panchal, Vith Myneedu, R Sarin (India) |
| PD-570-30 | Rapid molecular detection of mycobacterium tuberculosis and drug-resistance to isoniazid, rifampicin, fluoroquinolones and injectable drug from sputum  
| N Sung, N Lee, JH Jung, J Choi, H Ahn, CT Kim, H Kang (Korea, Republic Of) |
| PD-571-30 | Detecting resistance to nine anti-tuberculosis drugs in a single reaction tube  
| M De Vos, J Rice, L Rice, B Kreiswirth, E Streicher, P Van Helden, R M Warren, W Wangh (South Africa, USA) |
| PD-572-30 | MDR-TB management in a low-income country: GeneXpert © versus Hain Life science© assays for TB  
| Z Kashongwe Munogolo, B Bisimwa, s Callens, E Andre (Congo - Democratic Rep., Belgium) |
| PD-573-30 | Impact of a newly-certified LPA laboratory as the only testing facility for the diagnosis of MDR-TB under PPM mode in a State of India  
| M Mawlong, Mary Kunnemuriyil, M Puthenchirayil, P Varghese, T Rangad, G Singh, S Rytanthiang, K Ranee (India) |
| PD-574-30 | Performance of MLPA assay in tuberculosis resistance detection  
| PF Santos, Elis Dalla Costa, M C Lourenco, S Sengstake, I Bergval, R Anthony, A Kritski, M De Oliveira (Brazil, Netherlands) |
| PD-575-30 | Comparison of two molecular assays with phenotypic rifampicin DST and rpoB gene sequencing  
| B Magazi, P Jotam , N Maningi, F Ismail, N Mbelle, T Gumbo (South Africa, USA) |
| PD-576-30 | Evaluation of a microbead-based method for simultaneous spoligotyping and detection of INH and RIF resistance in M. tuberculosis strains  
| B Molina-moya, M Gomgnimbou, C Lafoz, S Samper, C Sola, J Dominguez (Spain) |
| PD-577-30 | Multi-center study to assess the non-inferiority of Nipro NTM+MDRTB and Hain GenoType MTBDRplus V.2 LPAs compared to Hain GenoType MTBDRplus V.1  
| W Sikhondze, E Valli, D Hillemann, N Ismail, M Joloba, P Nabeta, C Boehme (Switzerland, Germany, South Africa, Uganda) |
| PD-578-30 | Evaluation of basic analytical performance of Pure-TB-Lamp  
| Y Mori, Y Yuki, N Tomita, H Kanda, S Kojiya, T Notomi (Japan) |
| P Kunawararak, S Arunothong, A Jompaeng, S Kongsin, P Pokaew, C Chuchottaworn, C Namwat (Thailand) |
08. Opening the door to community engagement in TB  
Thursday, 30 October 2014, 10:15-11:15

Chair: Chibuike Amaechi (Nigeria)  
Section: Civil Society

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<td>Mobilising community care-givers in providing TB care in hard-to-reach areas of India: experiences of World Vision India and partners</td>
<td>S Mukhopadhyay, S Cornelius, V K Edward, B Samuel, M Jose (India)</td>
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<td>RS Gopali, N Ishikawa, L Lochting, R Pant (Nepal, Japan, Norway)</td>
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<td>Increasing access to TB drug susceptibility testing: a community-based organisation to the rescue of National TB Programme, Mumbai, India</td>
<td>I Syed, M Khetarpal, A Sreenivas, KS Sachdeva, J Salve, P Malik (India)</td>
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<td>Collaboration with the Republican Women’s Committee to fight tuberculosis in Uzbekistan</td>
<td>S Gamtsemlidze, J Ismoi-lova, T Mohr, B Babamuradov, S Sayfiddinova, U Yuldasheva, M Rahimova (Uzbekistan, Tajikistan, Kazakhstan)</td>
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<td>M Karels, N Jansen-aaldring (Netherlands)</td>
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<td>R David, Mr Rajesh Singh, A Rahman (India)</td>
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<td>M Wanjuki, D Seyoum, A Tasew, B Mboya, A Gitimu, S Muhula, m Mungai, S Kuria (Kenya, Ethiopia)</td>
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09. HIV/TB programme links: hand in hand screening for TB and HIV
Thursday, 30 October 2014, 10:15-11:15

Chair: Keren Middelkoop (South Africa)  
Section: HIV

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Assessment of TB prevalence in newly diagnosed HIV infected adults attending ART center in Gujarat, India  
D Kapadiya, P Dave, b Vadera, P Patel, S Chawla, A Shah (India)

PD-593-30  
Assessment of HIV screening and management in children treated for tuberculosis in the Democratic Republic of Congo: results of the 2012 survey  
F Kitetele, Eliz Talbot, F Alombah, E Kiangala, D Muteteke, G Bakaswa (Congo - Democratic Rep., USA)

PD-594-30  
Presumptive tuberculosis in Zomba district, Malawi: an operational prospective study of outcomes and diagnostic process  
M Van Lettow, T Beyeni, H Akello, AK Chan, M Joshua, S Chinomba, J Van Oosterhout, A D Harries (Malawi, UK)

PD-595-30  
High indeterminate rates of QFT among HIV-infected individuals in Brazil  
S Leone, A Trajman, A Paniago, A Ruffino-netto, G Bonecini-almeida, J Croda (Brazil)

PD-596-30  
Enhancing notification of co-infected cases by engaging networks of PLHIV in TB control activities in Andhra Pradesh, India  
S Mukhopadhyay, AK Kandukuri, S Cornelius, B Samuel, V K Edward, J Banavaliker, U Ramakrishna, A Rameshbabu (India)

PD-597-30  
Scale-up of facility integrated counselling and testing centres and Public-Private Partnership ICTC In India: contribution in HIV testing of TB patients  
R Deshmukh, Rao Raghuram, A Kumar, KS Sachdeva, A Sreenivas (India)

PD-598-30  
Streamlining TB-HIV case detection in Ukraine  
N Roman, O Pavlova, O Kheylo, M Dolynska (Ukraine)

PD-599-30  
Improving TB screening in HIV patients  
Y Jean-noel, J Beauchamp, A Val, J Dieudonne, A Tabois, J Saint-fleur (Haiti)

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Universal TB screening opens the door to integrated health service delivery in a rural border village in Northwest Province, South Africa  
M A Uys, Ezet Barnard (South Africa)

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Simplified TB screening algorithms maintaining high sensitivity but with reduced laboratory case load  
S Thai, S Sok, R Pe, S Huy, N Lorent, J Vangriensvan (Cambodia)

PD-602-30  
Utility of the Xpert MTB/RIF Assay on stool specimens for TB diagnosis among people living with HIV in western Kenya  
S Mutuku, S Modi, K Mccarthy, A Okumu, J Cavanaugh, K Cain (USA, Kenya)

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Incremental yield of Xpert MTB/RIF and liquid culture over Ziehl-Neelsen smear microscopy among patients with HIV and tuberculosis  
J Cavanaugh, S Modi, A Okumu, H Alexander, K Mccarthy, B Burmen, S Musau, K Cain (USA, Kenya)
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Section: Tuberculosis/Nurses & Allied Professionals

E Tsybikova (Russian Federation)

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V Mfungwe, M Ota, H Ogata, N Kapata, K Koyama, G Samungole (Zambia)

PD-616-30  Tuberculosis control in security challenged States of north-east Nigeria. Are there significant impact?
M Gidado, Josh Obasanya, J Onazi, R Eneogu, N Chukwueme, T Odusote, J Kuye, Sani Useni (Nigeria)

PD-617-30  Clinical audit to evaluate quality of care for cases with TB-HIV co-infection in the Republic of Moldova
S Bivol, V Vilc, V Soltan, S Popovici, O Scutelniciuc (Moldova)

PD-618-30  Inner-urban environmental predictors of tuberculosis infection sites according to the activity space in Shinjuku, Tokyo from 2003 to 2011
K Izumi, A Ohkado, K. Uchimura, Y Murase, Y Tatsumi, K Fukuuchi, H Watanabe, N Ishikawa (Japan)

E Cruz-ferro, MI Ursúa-díaz, JA Taboada-rodríguez, X Hervada-vidal, . Grupo De Trabajo Del Programa Galle (Spain)

PD-620-30  Sistema de información de tuberculosis de Galicia: Búsqueda activa de casos no declarados: Galicia 2008-2012
E Cruz-ferro, MI Ursúa-díaz, JA Taboada-rodríguez, X Hervada-vidal, . Grupo De Trabajo Del Programa Galle (Spain)

PD-621-30  Data quality assessment of routine tuberculosis data in Kenya where are we?
H K Kipruto, E Klinkenberg, J Kioko, A Ronoh, F Ngari, B Langat, j Nabongo, M Mwakala (Kenya, Ethiopia)

PD-622-30  Focused interventions to optimise performance under Revised National TB Control Programme, Karnataka, India
NS Vishwanath, S Shastri, P Bhat, S Managuli (India)

PD-623-30  The incidence rate and risk factors of tuberculosis among people living with HIV in Osaka, Japan
A Ohkado, T Shirasaka, T Goto, M Shirano, A Shimouchi (Japan)

PD-624-30  Burden of tuberculosis in nine sub-Saharan African countries
O Adetokunboh, M Oluwasanu, T Balogun (South Africa)

PD-625-30  Risk of tuberculosis: a ten-year follow-up study of contacts in Amsterdam
R Sloot, M Schim Van Der Loeff, P Kouw, M W Borgdorff (Netherlands)
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Chair: TBC
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D Christopher, S Mitra, J Sarojini, V Balaji, M Gupta, M Therese, B Yadav, L Jeyaseelan (India)

**PD-627-30** Mitochondrial mutational load in diabetes: toward a better understanding of diabetes in tuberculosis
W Wangh, A Osborne, K.C. Hayes (USA)

**PD-628-30** Does HIV modify the association between diabetes mellitus and active tuberculosis?
SL Bailey, S Floyd, JS Yudkin, P Godfrey-faussett, H Ayles (UK, Zambia)

**PD-629-30** Cost analysis of integrating diabetes screening with a tuberculosis active case finding programme in the private sector
M Basir, A Zaidi, H Hussain, S Khowaja (Pakistan)

**PD-630-30** High prevalence of latent tuberculosis infection among adults with type 2 diabetes mellitus in Karnataka, India
M Foote, PA Mahesh, R Kempker, KM Narayan, V Mohan, BS Jayaraj, SM Ray (USA)

**PD-631-30** Has diabetes mellitus had an impact on tuberculosis rates in Mexico? Analysis of the Mexican registry of tuberculosis 2000-2012
L Garcia, Mart Castellanos, G Delgado-sánchez, L Cruz-hervert, V Ortega Baeza, LD Ferreyra-reyes, EE Ferreira-guerrero, A Hernández (Mexico)

**PD-632-30** Joint management of patients with pulmonary tuberculosis and diabetes mellitus is feasible and appears to improve treatment outcomes in Mexico
L Garcia, Mart Castellanos, G Delgado-sánchez, LD Ferreyra-reyes, L Cruz-hervert, EE Ferreira-guerrero, Mirt Jiménez-mendoza, A Ponce-de-león (Mexico)

**PD-633-30** Variation in TB treatment outcome: the need for population specific interventions
I Mgbakor, T Badru, M Odo, I Mogaba, O Adebayo, O Itua, B Olusola-faleye, T Odusote (Nigeria)

**PD-634-30** Epidemiology of TB, diabetes and non-communicable diseases risk factors in an urban Cape Town township
T Oni, R Goliath, N Levitt, R Wilkinson (South Africa)

**PD-635-30** Prevalence of diabetes mellitus among tuberculosis patient’s in medical colleges of Tamil Nadu, India
HR Shivaramakrishna, D Ranganathan, S Anjum, J Arivoli, K Ganesh Kumar, S A, P Moonan (India)
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Chair: Francesca Conradie (South Africa)  Section: Tuberculosis

PD-648-30  Source of sputum smear positive tuberculosis patients in Rajnandgaon district, Chhattisgarh, India
P Nayak, Pawa Jethani, T K Agrawal, S Chandraker, S Anjum, K Sharma, A Sreenivas (India)

PD-649-30  Epidemiology and diagnostic techniques of tuberculous lymphadenitis in a TB low-burden country
I Los Arcos, F Salvador, A Sánchez-montalvá, T Tortola, A Curran, A Villar, J Castellvi, I Molina (Spain)

PD-650-30  Added value of including Xpert MTB/RIF in an algorithm to diagnose smear-negative tuberculosis in a HIV prevalent resource-constraint setting
H Huerga, G Ferlazzo, P Bevilacqua, B Kirubi, Eric Oduor, E Ardizzoni, J Sitienei, M Bonnet (France, Belgium, Switzerland)

PD-651-30  Health-care worker TB investigation practices: did Xpert MTB/RIF change testing practice?
V Chihota, K Fielding, S Ginindza, k Mccarthy, G Churchyard, A Grant (South Africa, UK)

PD-652-30  Culture positivity rate for Mycobacterium tuberculosis in migrants from Pakistan before immigration to other countries
K Jabeen, Y Shafqat, M Irfan, R Hasan (Pakistan)

PD-653-30  Infectiousness of untreated, drug susceptible tuberculosis patients in South Africa, using microscopy and geneXpert for diagnosis
A Stoltz, M Mphahlele, E De Kock, M Van Der Walt, A Dharmadhikari, E Nardell (South Africa, USA)

PD-654-30  Challenges and lessons learnt in conducting national TB prevalence survey in a high-burden and limited-resource country
DB Lolong, lam Pangaribuan, An Musadad, DE Mustikawati, B Dwihardiani, S Meharwal (Indonesia)

PD-655-30  Pre-entry screening of migrants to the UK: using probabilistic matching to identify cases of tuberculosis post-migration
R Aldridge, M Muzyamba, P Dhavan, D Zenner, A Hayward, I Abubakar (UK, Philippines)

PD-656-30  Poor admissions of TB screening tool resulting in low TB case finding in Swaziland
K Sibandze, E Phiri, E Nhlengetfwa (Swaziland, UK)

PD-657-30  A global study of IFN-γ-Release Assay (IGRA) reversions in low-risk health-care workers: which cut offs minimise reversions and predict stable results?
W Thanassi, A Noda, J Yesavage, D Marder, D Tripodi, J Torres-costa, A Nienhaus (USA)

PD-658-30  Analysis of and lessons from the UK’s tuberculosis pre-entry screening programme: January 2006-December 2013
M Muzyamba, R Aldridge, P Dhavan, D Zenner (UK, Philippines)

PD-659-30  Who should be investigated for TB among people attending for HIV care?
Y Hanifa, K Fielding, S Jawad, V Chihota, A Karstaedt, L Adonis, G Churchyard, A Grant (UK, South Africa)
15. Molecular epidemiology: from Beijing to Brazil and points in between
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Chair: Adrian Muwonge (UK)
Section: Tuberculosis

PD-660-30 Molecular characterisation of Mycobacterium tuberculosis in Benishangul Gumuz region, western Ethiopia
K Tulu, A Shana, G Chimdi, H Marru (Ethiopia)

PD-661-30 Genetic diversity of Mycobacterium tuberculosis strains in salvador, Brazil: needs for further research and implications for regional policy
A Silva, E Mota, S Pereira, M Reis, J Pedreira (Brazil)

PD-662-30 Genetic diversity of MDR-TB in Nepal
B Maharjan, B Shrestha, P RajendrA, G Mezzabotta, H Hoffmann, A. Beneke, C Nakajima, Y Suzuki (Nepal, Japan)

PD-663-30 Mycobacterium tuberculosis isolated from pulmonary TB patients with previous treatment history in Makassar, Indonesia
S Wahyuni, H Saleh, M Massi, S Phyuf, I Yusuf, P Bifani (Indonesia)

PD-664-30 Whole genome sequencing of Mycobacterium tuberculosis strains obtained from patients with pulmonary and extrapulmonary tuberculosis
E Chernyaeva, M Rotkevich, V Zhuravlev, N Solovieva, M Shulgina, A Lapidus, SJ O'brien (Russian Federation)

PD-665-30 TB lineages and association with patients’ demography and co-morbidities in Ghana
D Yeboah-manu, A Asante-poku, ID Otchere, S Osei-wusu, A Forson, H Ganiyu, A Baddoo, S Gagneux (Ghana, Switzerland)

PD-666-30 Beijing and H4/Ural genotypes of M.tuberculosis are predominating among M-/>-XDR-TB patients in Moldova
V Crudu, E Romancenco, E Noroc, S Alexandru, S Niemann, C Lange, R Garfein, A Catanzaro (Moldova, Germany, USA)

PD-667-30 A six-year spoligotyping analysis of Mycobacterium tuberculosis (MTB) isolated from a multi-ethnic population in Brescia, northern Italy
A C Carvalho, F Bernoni D’aversa, A Matteelli, G Pinsi, TM Silva, F Castelli, ACB Santos, MH Saad (Brazil)

A Keen, J Evans, S Khanom, R White, P Hawkey, I Abubakar, G Smith, E Vynnycky (UK)

PD-669-30 Reverse zoonosis occurred in dairy cows of Bangladesh by Mycobacterium orygis: a new causative agent of tuberculosis
M Rahim (Bangladesh)

PD-670-30 Prevalence of Beijing genotype among clinical isolates of M. tuberculosis from different regions of Kazakhstan
A Akhmetova, U Kozhamkulov, V Bismilda, L Chingisova, E Ramanculov (Kazakhstan)
### 16. TB public private mix in countries other than India

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**Chair:** Gerry Davies (UK)

**Section:** Tuberculosis

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**Chair: Paul Jensen (USA)  
Section: Tuberculosis**

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O Okorie, M Gidado, Fada Omoniyi, E Ubochioma (*Nigeria*)

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Expérience de riposte à une épidémie de tuberculose dans une prison du Burkina Faso.  
A Ouedraogo, A Combaray, T L Sawadogo, T Ouedraogo, G Konseimbo, A Roggi, Y Moyenga (*Burkina Faso, Italy*)

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S Saint, S Kien, T E Mao (*Cambodia*)

**PD-687-30**  
Tuberculosis infection control and prevention in Mozambique: a gap between daily practice and the guidelines  
M Brouwer, E Coelho, C Das Dores Mosse, L Brondi, F Van Leth (*Netherlands, UK*)

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L Lochting, O Simooya, N Sanjobo, R Mwilu, B Chikumbi (*Norway, Zambia*)

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Resistance to disinfectants of *Mycobacterium tuberculosis* parallels antibiotic resistance  
M Acurio, E Pacheco, Z Puyen, J Sagripanti (*Peru, USA*)

**PD-690-30**  
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YN Sumarli, N Tandirerung, M Samsuri, MR Christian, H Al-darraj (*Indonesia*)

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B Negash, B. Girma, Y Molla, T Anteneh, Y Haile, d Jerene, M Melese, P Suarez (*Ethiopia, USA*)

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D Garone, O Jalon, T Beyene, M Van Lettow, J Van Oosterhout, F Cataldo, M Matchaya, M Murowa (*Malawi*)

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P Nahirya-ntege, C Sekimpi, D Nangendo, P Ikongit, R Ogwang, J Bitarabe (*Uganda*)

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## 20. MDR-TB: treatment and adverse reactions

**Thursday, 30 October 2014, 10:15-11:15**

**Chair:** Manfred Danilovits (Estonia)  
**Section:** Tuberculosis

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PD-732-30  Associated factors with prevalence and annual risk infection of tuberculosis among indigenous population from Brazilian Amazon
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PD-734-30  Mortality due to tuberculosis in the indigenous population Brazil, 2010
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PD-746-30 The reasons for violations of the Russian Federal Law No. 15 (as of 23/02/2013) on protecting people from second hand tobacco smoking in Krasnoyarsk
O Kutumova, L Kononova, D Trufanov (Russian Federation)

PD-747-30 Quitting smokeless tobacco use among low SES women in a community counselling set-up
M Aghi (India)

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A Bakul, I Chowdhury (Bangladesh, India)

PD-749-30 Prevalence of tobacco use among women: a cross sectional survey from a squatter settlement of Karachi, Pakistan
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23. TB in children: outcomes, extra pulmonary TB, BCG and other

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PD-768-31  Occurrence and treatment outcomes of TB in an urban pediatric HIV clinic in Kampala, Uganda
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PD-769-31  A baseline assessment of tuberculosis outcomes and diagnostic practices to inform development of a community-based TB-HIV programme in central Malawi
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PD-770-31  Mothers and caretakers understanding and care-seeking practices for paediatric tuberculosis in a rural district of southern Mozambique
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PD-773-31  Prevalence of COPD in a rural area of sub-Saharan Africa: FRESH AIR Uganda survey
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PD-774-31  Impact of chronic respiratory symptoms in a rural area of sub-Saharan Africa
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A Binegdie Bekele, M Parekh, T Bayisa, F Oumer, O Braendli, E J Carter, C Sherman, N Schluger (Ethiopia, USA, Switzerland)

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| PD-780-31 | Increasing prevalence of complicated pneumonia in children after routine pneumococcal vaccination | G Wong (Hong Kong) |
| PD-781-31 | Effects of pharmacist counseling in inhalation medication adherence and asthma control in asthma patients at one stop service clinic | P Junlaor, Visa Boontod, N Chindavech (Thailand) |
| PD-782-31 | Tuberculosis en pacientes ingresados, como Neumonía adquirida en la comunidad en sala de emergencia de un hospital público del Perú | M Paredes Moreno, O Gayoso, J Alave, G Mas (Peru) |
| PD-783-31 | Spirometry reference values and predictive equations for elderly north Indians | A K Janmeja, P Mohapatra, R Gupta (India) |
| PD-785-31 | School-based asthma screening: state of asthma for undeserved population in Bogotá | D Crispin Cruz, J Jurado, A Casas, J Berrio, M González-garcía, E Duenas, D Maldonado, C A Torres-duque (Colombia) |
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| PD-787-31 | Influence of abdominal obesity on pulmonary function indices of abdominal surgery patients | A Akinremi, A Orotokun, A Sanya (Nigeria) |
| PD-788-31 | Ethnic differences in adverse drug reaction of asthma medication: a systematic review | Y Hu, L Cantarero Arévalo (Denmark) |
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C Heidebrecht, L J Podewils, A Pym, T Cohen, T Mthiyane, D Wilson (Canada, USA, South Africa)

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K Oh, A Tesfaye, JY Kim, A Endris, H Kumssa, G Yosef, EJ Park, BH Lee (Korea, Republic Of)

Role of Xpert MTB/RIF to detect rifampicin resistant tuberculosis among the presumptive drug-resistant tuberculosis patients in Bangladesh
S Hossain, M Akramul Islam, S Islam, M Siddiqui, A Hossen, M Rahman, S Sultana (Bangladesh)

GeneXpert early implementation experience in Ethiopia: how to plan for implementation and address challenges before further roll out
E Mengesha, d Jerene, J Seid, M Melese, Y Haile, E Melese, G Ayana, P Suarez (Ethiopia, USA)

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Assessment of the Xpert MTB/RIF assay for rapid diagnosis and treatment of tuberculosis in a setting with limited laboratory resources
CS Jang, WL Huang, KK Yang, MS Li, S-H Wei, R Jou (Taiwan)

Market analysis of South African tuberculosis diagnostics in 2012
L Berrie, K Schnippel, W Stevens, S Kik, M Pai, Pam Chedore, TB Diagnostics Market Analysis Consortium (South Africa, Canada)

Point-of-Care implementation of Xpert: evaluating the impact of product and process innovation in TB diagnosis
D Christopher, C Denkinger, B Thangakunam, J Sarojini, M Pai, S Schumacher (India, USA, Canada)

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M Agonafir, M Yassin, M A Yassin, D Datiko, S Theobald, L Cuevas (Ethiopia, Switzerland, UK)

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N Tukvadze, N Bablishvili, N Lomtadze, T Chkhutiashvili, M Japaridze, R Kempker (Georgia, USA)

Evaluation of Xpert MTB/RIF for rapid detection of multidrug-resistant tuberculosis in Korea
C K Kim, SW Choi, KH Oh, H J Kim (Korea, Republic Of)

EXPAND-TB: strengthening TB laboratories in resource limited settings - focus on existing challenges
A Korobitsyn, D Orozko, K Kao, J Wambugu, C N Paramasivan, J Lemaire, T Verges, F Mirzayev (Kyrgyzstan, Switzerland)
27. External quality assurance for TB: getting better all the time!

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Chair: Stella Van Beers (Netherlands)  Section: Tuberculosis/Bacteriology & Immunology

PD-802-31  Review of EQA on sputum AFB microscopy in Myanmar
TT Mar, T Lwin, TL Swe, D Ti Ti, A Fujiki (Myanmar, Japan)

PD-803-31  Implementation of a decentralized AFB microscopy quality assurance system in the Amhara and Oromia Regions of Ethiopia, 2014
J Seid, B. Girma, g Alemu, Z Habtam, d Jerene, M Melese, Y Haile, P Suarez (Ethiopia, USA)

PD-804-31  Proficiency testing of detecting M. tuberculosis and DST in Russian Federation
L Domotenko, NI Mezentseva, V Malakhov, T Morozova, M Khramov (Russian Federation)

PD-805-31  Strengthening TB laboratory performance: Role of external quality assurance (EQA) system in BRAC supported areas
D-U- Mesbah, K Uddin, M Siddiqui, S Reza, MA Husain, M Akramul Islam, S Islam (Bangladesh)

PD-806-31  Long-term results of smear microscopy External Quality Assurance (EQA) in Ukraine’s tuberculosis (TB) control system
M Karnaukhova, A Barbova, O Pavlova, O Kheylo, A Chaika, M Dolynska (Ukraine)

PD-807-31  Implementing national EQA scheme for first- and second-line DST services in Pakistan
S Tahseen, A Hussain, E Qadeer (Pakistan)

PD-808-31  Proficiency testing as measurement tool for quality of service of laboratory personnel in Nigeria: a method for training impact evaluation
A Hassan, F Sarkinfada, G. T Ojika, R Olukolade, L Okwuonye, K Osinowo, C Osbui, O Ladipo (Nigeria)

PD-809-31  Implementation of blinded rechecking method for external quality assessment (EQA) for smear microscopy in Tajikistan
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A Umubeyi Nyaruhirira, C Mundy, R Chimizzi, F Dzata, S Molapo, L Scott, P Suarez, F Bonsu (South Africa, USA, Ghana)

G Obregon Boltan, N Quispe, M Acurio (Peru)

PD-812-31  The use of archived results of Xpert MTB/RIF testing for data triangulation in improving data quality from four GeneXpert sites in Nigeria
E Oyama, A Awe, J O Obasanya, A F Omoniyi, E Elom, M Gidado, J Onazi (Nigeria)

PD-813-31  Quality assessment of AFB microscopy in tuberculosis laboratories in Kyrgyzstan
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**Section: Tuberculosis/Bacteriology & Immunology** |
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| PD-816-31 | Limited access to diagnosis of drug-resistant TB among high-risk groups in a central province in Thailand | W Kateudomsup, S Jittimanee (Thailand) |
| PD-817-31 | Analysis of cross resistance between kanamycin and amikacin in extensive drug resistant tuberculosis isolates | A K Verma, Gavi Kumar, J Arora, Vith Myneedu, R Sarin (India) |
| PD-818-31 | Successful replication of the Tanzanian tuberculosis detection rat programme in Mozambique | E Valverde, N Beyene, I Manhiça, T Edwards, A Mahoney, S Viegas, C Cox, C Mulder (Mozambique, Tanzania, United Rep.) |
| PD-819-31 | Pattern of anti-tuberculosis drugs resistance among Pakistani population: a six-years study | M Javaid, S Asif, A Ahmad, S Siddiqi (Pakistan, USA) |
| PD-820-31 | Validation of thin layer agar assay for direct rifampicin and isoniazid drug susceptibility testing in rural Shiselweni, Swaziland, 2012 | G Obregon Boltan, B Kerschberger, G Maphalala, A Antierens, R Dela Tour (Peru, Swaziland) |
| PD-822-31 | Evaluation first line anti-tuberculosis drugs of the nitrate reductase assay for detection of resistance to the | S Fourati, M Kaffel, c Marouane, S Kammoun, L Slim-saidi, F Messadi (Tunisia) |
| PD-823-31 | Antimycobacterial activity of 22 Malian medicinal plants used against Mycobacterium tuberculosis, H37Rv | M Ballo, M Sanogo, B Diarra, A Somboro, M Maiga, O Koita, R Sanogo, D Diallo (Mali) |
| PD-824-31 | Resistance aux antituberculeux de première ligne dans les maisons d’arrêt à propos de 28 cas au Mali | F Camara, A Cisse, S Diarra, K Traore, L Keita, F Bougoudogo, A Van Deun (Mali, Belgium) |
| PD-825-31 | Estimating the operational costs of tuberculosis diagnosis in Perú | T Wingfield, E Ramos, T Valencia, S Carrera, M Ching, Tom Wingfield, M Tovar, C Evans (Peru) |
| PD-826-31 | High-tuberculosis diagnostic yield from culturing salivary sputum samples | E Ramos, A Sloutsky, CE Osorio, T Valencia, M Llacza, M Ching, M Tovar, C Evans (Peru, USA) |</p>
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Section: Civil Society

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PD-840-31 Measuring community involvement and engagement in TB care and control: experience from the GF supported TB projects of World Vision India and partners
S Mukhopadhyay, S Cornelius, V K Edward (India)

PD-841-31 Factors associated with tuberculosis stigma: a systematic review
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PD-842-31 Pension schemes for tuberculosis patients: an advocacy effort from TB forum members of Kerala, India
S Gadala, C Joltin, RV Jinesh Lal, Tomi Thomas, Mura Krithika, P Banuru Muralidhara (India)

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O Rucsineanu (Moldova)

PD-844-31 Increasing TB treatment success by engaging community volunteers; Mapping method in Cimahi City, West Java Indonesia
I Tochija, F Manan, M Reksoprodjo, H Diatmo (Indonesia)

PD-845-31 2014 Brazilian TB campaign: a collective revolution
A Paranagua Fraga, D Barreira, C Oliveira Dantas, P Werlang, L Seara, V Camargo Da Costa (Brazil)

PD-846-31 Increasing TB knowledge and action: lessons from “We Beat TB” campaign!
L Legoabe, J Benkie (South Africa)

PD-847-31 Kick TB: from South Africa to Brazil - a TB campaign for the FIFA World Cup momentum
C Oliveira Dantas, A De Paula Lobo, P Werlang, J Brandao, E Ishimoto, A Paranagua Fraga, D Barreira (Brazil)

PD-848-31 Understanding tuberculosis stigma in Dar es Salaam, Tanzania
C Miller, L Samu, S G Mfinanga, P Hopewell, E Fair (USA, Tanzania, United Rep.)

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## 31. Inextricably linked: integrating TB and HIV care

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**Chair: Erica Lessem (USA)**

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Chair: TBC  Section: Tuberculosis/Nurses & Allied Professionals

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**PD-866-31**  Overcoming access barriers to DOTS in Nigeria: the case of distance  
T Ensor, O Chukwuogo (Nigeria)

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K Sagili, S Srinath, N Wilson, S Chadha (India)

**PD-868-31**  Delay in diagnosis and treatment of tuberculosis in different agro-ecological zones in Oromia region, Ethiopia  
B. Girma, Z Habtamu, HA Worku, E Zemene, S Negash, Y Haile, M Melese, P Suarez (Ethiopia, USA)

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T Katlholo, J Cuervo-rojas, M Seretse, F Mwangemi, L Busang, B Kgwaadira, O Bahemuka, I Halldorsdottir (Botswana, Kenya)

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**Chair:** Jean-Pierre Zellweger (Switzerland)  
**Section:** Tuberculosis

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### 34. TB in special populations

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**Chair:** Roberto Assael (Mexico)

**Section:** Tuberculosis

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Chair: Latha Rajan (USA)  
Section: Tuberculosis

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Y Zegiorgis, M Legesse, d Jerene, S Negash, Y. Kassie, B. Girma, Y Haile, P Suarez (Ethiopia, USA)

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PD-894-31 Quality of tuberculosis care in India: a systematic review  
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38. Tuberculosis: a contact sport
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Chair: Ya Diul Mukadi (USA)

Section: Tuberculosis

PD-928-31 Concordancia entre la prueba de la tuberculina (PT) y Quantiferon TB Gold in tube en contactos de pacientes con tuberculosis pulmonar.
X Martinez Lacasa, R. Font, A. Jaen, E. Cuchi, J. Lite (Spain)

PD-929-31 Size and growth of molecular strain typing clusters in the UK: 2010-2012
M Lalor, L Anderson, L Thomas, I Abubakar (UK)

PD-930-31 Spatial Clustering of Mycobacterium tuberculosis in Eastern China
W Wang (China)

PD-931-31 Role of casual contacts in the recent transmission of tuberculosis in settings with high disease burden
W Wang, Yi Hu, Q Zhao, B Xu, W Jiang (China)

PD-932-31 Is early tuberculosis death associated with increased TB transmission? A case-control study in Canada
A Parhar, Z Gao, C Heffernan, R Ahmed, R Long (Canada)

PD-933-31 Yield of household contact tracing for tuberculosis in rural South Africa
K Little, R Msandiwa, N Martinson, J Golub, R E Chaisson, D Dowdy (USA, South Africa)

PD-934-31 Rates, timing and risk factors for tuberculosis among children in close contact with infectious tuberculosis patients
M Reichler, B Chen, J Mcauley, J Moran, B T Mangura (USA)

PD-935-31 Comparison of the yield from contact screening among smear positive versus smear negative tuberculosis patient in north western Ethiopia
Y. Kassie, M Demissie, B. Girma, A Mekonnen, Z Zewdie, d Jerene, Y Haile, P Suarez (Ethiopia, USA)

PD-936-31 Early results from a large scale implementation of health facility-based contact investigation in Amhara and Oromia regions of Ethiopia, 2013-2014
B. Girma, Y. Kassie, Z Zewdie, S Hamusse Daba, Y Haile, d Jerene, M Melese, P Suarez (Ethiopia, USA)

PD-937-31 Profile of tuberculosis among household contacts of MDR-TB patients in Delhi, India
R Singla, N Singla, Vith Myneedu, D Behera, R Sarin, A Kumar (India)

PD-938-31 Four years tuberculosis case contact tracing among contacts of MDR-TB cases in Paris
A Fournier, C Bernard, W Sougakoff, S Quelet, F Antoun, I Dormant, MO Dufour, N Veziris (France)

PD-939-31 Factores asociados a la subnotificación de la Tuberculosis en España
C Morales Garcia, t Rodrigo, F Casas, P Bermudez, M Garcia-clemente, S Maria, M Casals, J A Cayla (Spain)

PD-940-31 Providing sustainable household contact tracing and screening in TB patients and families: a cluster randomised trial in Blantyre Malawi
K Kaswaswa, M Mukaka, B Ngwira, J Mpunga, H Maheswaran, L Corbett (Malawi, UK)

PD-941-31 New smear-positive tuberculosis among household contacts in Lima, Peru
L Otero, F Barletta, F Gehre, T Battaglioli, B De Jong, C Seas, L Rigouts, P Van Der Stuyft (Peru, Belgium)
### 39. MDR-TB: outcomes of treatment

**Friday, 31 October 2014, 10:15-11:15**

**Chair:** Zohar Mor (Israel)  
**Section:** Tuberculosis

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41. Case-finding: special interventions
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Chair: Nunurai Ruswa (Namibia)  Section: Tuberculosis

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A Zaidi, N Khalid, R Philipsen, B Van Ginneken, S Khowaja, A Khan (Pakistan)

PD-967-31  Effectiveness evaluation of chest x-ray screening in specific populations
Y-T Liao, J-H Cheng, CB Hsu, Y-F Huang, C-H Chen (Taiwan)

PD-968-31  Contribution of NGO health facility in TB control: an experience from Rawthamkuppam of Villupuram District in Tamilnadu, India
S Kirani, M Puthenchirayil, P Varghese, G Singh, s.j Jairaj, Sr Anastasia, R Sudhakar (India)

PD-969-31  Active and semi-active case finding to increase tuberculosis case identification in rural Bangladesh: a cluster randomised trial
S A S Hossain, N L Huq, N Haque, R Gazi, MD Iqbal, A Ahmed, H Kabir, K Zaman (Bangladesh)

PD-970-31  High yield of contact investigation among household contacts of smear-positive pulmonary tuberculosis patients using GeneXpert MTB/RIF in Ethiopia
B Tessema, B Anagaw, F Moges, Y Kassie, B. Girma, S Yifru, YK Haile, M Melese (Ethiopia)

PD-971-31  Feasibility study of the WHO recommendations for TB contact investigation in low- and middle-income countries: a pilot in a rural district, Zambia
S Miyano, V Chipeta, K Komada, K Chibwe (Zambia)

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PD-975-31  Cost-effectiveness analysis of household contact investigation and community active case finding for tuberculosis case detection in Urban Africa
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PD-976-31  Outcomes of tuberculosis contact tracing in a teaching hospital in Barcelona: an eight-years experience
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### 42. A potpourri of TB issues

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**Chair:** Ronald Ncube (Botswana)  
**Section:** Tuberculosis

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**Friday, 31 October 2014, 10:15-11:15**

**Chair:** Elangovan Vidhubala (India)  
**Section:** Tobacco Control

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B Pandya, P Lal, R Parmar, R Kumar (India) |
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| PD-1002-31 | China experience: developing evidence-based Integrated mass media campaigns to support national and sub-national smokefree initiative and policy  
W Chen (China) |
| PD-1003-31 | Assessing compliance to Indian tobacco control legislation on print media in India  
M Sharma (India) |
| PD-1004-31 | Rural penetration through media involvement for effective implementation of COTPA in Himachal Pradesh, India  
N Sharma, R J Singh (India) |
| PD-1005-31 | TAPS Ban: the Bangladesh experience  
A-E- Sadat (Bangladesh) |
| PD-1006-31 | Effect of mass media campaign in Jinan city on public attitudes and perceptions involving implementation of the law  
R Cao, SM Ruan, Jun Zhang, Caixy Chang, XH Zhang, Xin Zhang (China) |
| PD-1007-31 | Direct advertisements of tobacco products still exist in Indian outdoor media? Results of a compliance survey across three jurisdictions in India  
R Kumar, A Chauhan, P Lal, R J Singh (India) |
| PD-1008-31 | Health warnings on cigarette packages and interest in quitting: findings from the Global Adult Tobacco Survey (GATS)  
T Aris, J Morton, GH Tee, L Zhao, J Rarick (Malaysia, USA) |
| PD-1009-31 | Pictorial health warning: a breakthrough in tobacco control in Indonesia  
L.S. Sulistyowati, A.S. Bunga Untung, T S Bam (Singapore) |
| PD-1010-31 | Media advocacy for implementation of stronger pictorial health warnings on all tobacco packs in India  
B Mathew (India) |
| PD-1011-31 | Media advocacy for the implementation of regulating smoking in films  
M Bhavna (India) |
| PD-1012-31 | Field-based study in seven states of India to evaluate and recommend an effective strong pictorial health warning on tobacco product packages  
S Gupta (India) |
| PD-1013-31 | Tobacco industry interference in India: games the industry plays - B Mathew (India) |
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Chair: Simon Schaaf (South Africa)  Section: Adult & Child Lung Health

**PD-1014-01** Comparación entre las características socio-demográficas y clínicas de la tuberculosis infantil por el estado del HIV en Brasil: un análisis jerárquic
E Dias, T Do Prado, E Lima, A Guimarães, E Leonor Noia Maciel (Brazil)

**PD-1015-01** Burden, risk factors and public health implications of Childhood TB in Kenya
A Brent, C Nyundo, J Langat, C Mulunda, J Wambua, E Bauni, M Levin, JAG Scott (UK, Kenya)

**PD-1016-01** Evolución de la tuberculosis pediátrica 1991-2012
L Clotet, J M Pina Gutierrez, R Sala (Spain)

**PD-1017-01** Special intervention increases the detection of child TB
S Naha, P Daru, Z Siddique (Bangladesh)

**PD-1018-01** Tuberculosis case finding based on symptom screening among children attending health facilities in southern Nigeria
C Ogbudebe, J Chukwu, C Nwafor, A Meka, N Ekeke, D Oshi, N Madichie, J Ikebudu (Nigeria)

**PD-1019-01** Childhood tuberculosis is directly linked to the smear positive tuberculosis case notification rate: results from Amhara and Oromia regions, Ethiopia
B. Girma, Z Habtamu, M Ligalem, Y. Kassie, S Negash, Y Haile, P Suarez (Ethiopia, USA)

**PD-1020-01** Tuberculosis in children at BRAC-supported areas: a challenge in case detection
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**PD-1021-01** Urban trend and burden analysis of pediatric tuberculosis in Maharashtra, India: epidemiological trend analysis 2011-2013
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**PD-1022-01** The epidemiological studies of tuberculosis in Latvian children
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**PD-1023-01** Recent trends of childhood tuberculosis in Scotland between 2000-2011
K Lin, L Brondi, J Stevenson, A Smith-palmer (USA)
## 46. Clinical trials: drugs and vaccines

**Saturday, 01 November 2014, 12:45-13:45**

**Chair:** Antonio Catanzaro (USA)  
**Section:** Tuberculosis/Bacteriology & Immunology

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| PD-1025-01 | Increasing engagement of China in tuberculosis (TB) clinical trials: China tuberculosis clinical trial consortium (CTCTC) baseline site assessment  
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| PD-1026-01 | PanACEA capacity development: developing self-sustainable clinical TB research sites in sub-Sahara Africa  
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| PD-1027-01 | Clinical trial with the food supplement Nyaditum resae®: a new tool to reduce the risk of developing active tuberculosis  
E Montané, AM Barriocanal, AL Arellano, A Valderrama, Y Sanz, P Cardona, C Vilaplana, PJ Cardona *(Spain)* |
| PD-1028-01 | Potential impact of spatially targeted tuberculosis vaccine strategies in Gujarat, India  
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| PD-1029-01 | Regional prospective observational research for tuberculosis (RePORT) consortia using a common protocol to collect specimens for biomarker research  
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| PD-1030-01 | Urine colorimetry to detect low rifampicin bioavailability: a proof-of-concept study  
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S Friedrich, XA Kayigire, L Van Der Merwe, A Diacon *(South Africa)* |
| PD-1032-01 | Reporting of outcomes in phase II studies of drug-sensitive tuberculosis  
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| PD-1033-01 | Measles vaccination in children with various forms of tuberculosis infection  
S. Kharit, T. Drozdenko, I. Dovgaluk, A Starshinova *(Russian Federation)* |
| PD-1034-01 | Assessment of messenger RNA of Mycobacterium tuberculosis as a marker of cure in patients with pulmonary tuberculosis  
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| PD-1035-01 | The pleiotropic transcriptional response of Mycobacterium tuberculosis to vitamin C overlaps with bacterial response to intracellular stresses  
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47. TB molecular epidemiology: from laboratory diversity to outbreak  
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Chair: TBC  
Section: Tuberculosis/Bacteriology & Immunology

PD-1036-01  Genetic diversity and transmission dynamic of Mycobacterium tuberculosis causing pulmonary- and extra-pulmonary tuberculosis in Thailand  
A Chaiprasert, P Srilohasin, K Tokunaga, N Nishida, T Prammananan, Nat Smittipat, S Mahasirimongkol (Thailand)

PD-1037-01  Tuberculosis among foreign-born persons in Japan: whole genome sequencing analysis of Mycobacterium tuberculosis isolates from residents in Tokyo  
N Kobayashi, M Kato, T Miyoshi-akiyama, J Takasaki, M Okada, T Kirikae (Japan)

PD-1038-01  Association between the rpo gene mutations and multidrug-resistant tuberculosis transmission  
YM Deng, P-C Chuang, WL Huang, LC Kao, R Jou (Taiwan)

PD-1039-01  Isoniazid resistance-associated gene mutations and ethionamide resistance among Beijing and non-Beijing genotypes of Mycobacterium tuberculosis  
WL Huang, KF Chen, R Jou (Taiwan)

PD-1040-01  Insights into the population structure of Mycobacterium tuberculosis using spoligotyping and RDRio in a prison unit in south-east Brazil  
MH Saad, Fe Huber, A Sanchez, S Vasconcellos, S Machado, H Gomes, B Larouzé, P Suffys (Brazil)

PD-1041-01  Genetic diversity of Mycobacterium tuberculosis isolates in Cuba, 2009-2010  
Y Herrera Avila, D Lemus, C Fonseca, A Marrero Figueroa, R Diaz Rodriguez (Cuba)

PD-1042-01  Correlación entre el estudio genético de las mutaciones de resistencia frente ETB, AMG y FQ y elantibiograma fenotipo en M. tuberculosis complex  
N Montiel Quezel-guerraz, M Martinez-rirola, P Bermudez, M Ortega, A Sanchez Porto, MC Dominguez, A Peña Monje, MT Cabezas (Spain)

PD-1043-01  Use of whole genome sequencing to further characterise an outbreak of extensively drug-resistant TB  
B Mathema, J Brust, A Narechania, D Verdugo, NS Shah, J Walker, B Kreiswirth, N Gandhi (USA)

PD-1044-01  Epidemiology of multi-drug resistant Mycobacterium tuberculosis in South Africa: a molecular analysis of historical samples  
N Maningi, L Daum, SA Worthy, JD Rodriguez, N Bapela, G Fischer, JP Chambers, PB Fourie (South Africa, USA)

PD-1263-01  Development of a rapid serological screening test for active tuberculosis  
C Holm-Hansen, R Hammond, W Kinander, TM Chi, HT Phuong Mai, S Yimer, VT Trao, and the multinational TB Rapid Test Consortium
48. Molecular detection of TB and drug resistance - II
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Chair: Leen Rigouts (Belgium)       Section: Tuberculosis/Bacteriology & Immunology

PD-1045-01 Line probe assay genotype MTB-DR plus as an effective and rapid tool for the diagnosis of smear-negative tuberculosis in bronchoalveolar lavage fluid
M Irfan, F Idrees, K Jabeen, R Hasan (Pakistan)

PD-1046-01 Comparison of speedOligo test to Xpert MTB/RIF test for detection of tuberculosis in smear-negative HIV-infected patients
A Okeng, E Kigozi, S Walusimbi, S Kyobe (Sweden)

PD-1047-01 The rapid phenotypic assay for simultaneously detection MTB susceptibility to drug combination by mycobacteriophage DNA analysis
M Vladimirsky, N Smirnova, Lubo Shipina, K Blagodatskikh, J Alekseev (Russian Federation)

PD-1048-01 Role of loop-mediated isothermal amplification (LAMP) assay in rapid diagnosis of extrapulmonary tuberculosis
A Win, K Aye, Win May, Min Win, Mu Shwe, C Nakajima, Y Suzuki (Myanmar, Japan)

PD-1049-01 Construction of a three colour-single-tube assay for resistance to first, second and third line antibiotics
M De Vos, J Rice, P Van Helden, R M Warren, W Wangh (South Africa, USA)

PD-1050-01 Carbon nanotube and graphene based sensors for tuberculosis detection
F Rumiche, G Lucero, B Castaneda, F Zvietcovich, F Casado, M Guzman (Peru)

PD-1051-01 Clinical validation of Primestore Molecular Transport Medium® for PCR-based detection of Mycobacterium tuberculosis in sputum samples
R Peters, L Daum, S Omar, N Ismail, G Fischer, B Fourie (South Africa, USA)

PD-1052-01 GenoType® MTB-DRplus assay for molecular detection of multidrug-resistance in M. tuberculosis from slides and filter paper cards in Madagascar
MS Rabodoarivelo, M Crackert, JC Palomino, p Vandamme, V Rasolofo Razanamparany, A Martin (Madagascar, Belgium)

PD-1053-01 Assessment of performance of the real time PCR in different biological samples used for diagnosis of extra-pulmonary tuberculosis
F Fulco Santos, L Lira, A Peixoto, LM Lapa Montenegro, R Montenegro, J Costa Lima, G Guedes, H Schindler (Brazil)

PD-1054-01 Comparison of Longhorn PrimeSwab™ HydaFlock® and Copan FLOQSwabs™ for Detection of Mycobacterium tuberculosis using real-time PCR and next-generation
LT Daum, SA Worthy, JD Rodriguez, M Karamchi, JP Chambers, ES Maliff, TL Templet, G Fischer (USA)

PD-1055-01 Association of eis and rrs gene mutations with phenotypic second-line injectable drug resistant patterns of Mycobacterium tuberculosis
L Malinga, J Brand, A Stoltz, M Van Der Walt (South Africa)
### Factors affecting access and health seeking behaviour
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**Chair:** TBC  
**Section:** Civil Society

**PD-1056-01**  
Assessment of knowledge and coping style in patients with tuberculosis  
Q Dina, G Abuouf *(Saudi Arabia)*

**PD-1057-01**  
Health-care seeking behaviour among coughers suspected of having tuberculosis: findings from a prevalence survey  
M Senkoro, S Gudmund Hinderaker, S G Mfinanga, N Range, D Kamara, S M Egwaga, F Van Leth *(Tanzania, United Rep., Netherlands)*

**PD-1058-01**  
Active communication campaign helps achieve increased awareness and early diagnosis of tuberculosis among brothel based female sex workers of Pune  
O Bera, B Pawar, S Chadha, R Deshmukh, P Banuru Muralidhara, A Jacob, S Mohanty *(India)*

**PD-1059-01**  
Potential of FM radio to deliver health message on tuberculosis for rural ethnic community in southern Shan State, Myanmar  
S Saw, ST Aung, T Thida, T Lwin, Khin Su-hlaing, Zaw Myint, Khin Sandar-oo *(Myanmar)*

**PD-1060-01**  
High and equitable coverage of civil society driven tuberculosis control project “Axshya” in India  
B Thapa, A Das, S Chadha *(Nepal, India)*

**PD-1061-01**  
Use of entertainment to raise awareness on tuberculosis  
N Aliyev *(Azerbaijan)*

**PD-1062-01**  
Opinion leaders perceptive on TB care and control: findings from a community-based survey of 30 districts in India  
T Soni, K Sagili, A Jacob, S Chadha *(India)*

**PD-1063-01**  
Motivating TB care in Vietnam by focusing on factors associated with TB care seeking behavior among people with TB symptoms  
H Ngo, M Gary, J Neukom *(Viet Nam)*

**PD-1064-01**  
Behaviour change communications increases TB awareness and TB care seeking behavior among people with TB symptoms in Vietnam  
H Ngo, Cuon Nguyen, J Neukom *(Viet Nam)*

**PD-1065-01**  
Impact of advocacy and social mobilisation on knowledge, attitude and practice on tuberculosis in Kenya  

**PD-1066-01**  
Gender related barriers affecting health seeking behavior for tuberculosis treatment in Mozambique  
D Sacur, N Kamp, A Tiago, S Machevo Chilundo, E Oliveras, I Manhiça *(Mozambique)*

**PD-1067-01**  
How far the national media gives priority to tuberculosis control challenges as an important means of solution in TB high-burden country: India?  
S Nayak, O Bera, S Chadha, R Dayal, R Pathak, A Buragohain, A Das, P Mishra *(India)*
# 50. Treatment, management and diagnosis: a potpourri of TB and HIV issues
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**Chair:** Colleen Daniels (USA)  
**Section:** HIV

| **PD-1068-01** | Factores de riesgo para rebote virológico en pacientes con coinfección TB-VIH  
R Martinez, C Bueno, C Jimenez, A Valencia *(Colombia)* |
| **PD-1069-01** | The cost of TB screening in Gauteng, South Africa  
N Foster, Y Hanifa, A Grant, V Chihota, G Churchyard, K Fielding, E Sinanovic, A Vassall *(South Africa, UK, Netherlands)* |
| **PD-1070-01** | Why do presumptive TB cases refrain from HIV testing in Karnataka, India?  
S Shastri, NS Vishwanath, S Managuli *(India)* |
| **PD-1071-01** | Patterns of opportunistic infections occurring in people living with HIV in south-east Nigeria  
N Ekeke, A Meka, J Chukwu, C Nwafor, D. Oshi, N Madichie, C Ogbudebe *(Nigeria)* |
| **PD-1072-01** | IPT in Indonesia: better late than never  
T N Dinihari, J Tanumihardja, N Sulaiman, H Agustine, Y Hartantri, T Mahatmi Nisa, R Palup, B Nababan *(Indonesia)* |
| **PD-1073-01** | Palm fruit juice mitigates the cytotoxic and genotoxic effects of AZT and isoniazid, key drugs in the treatment of HIV and tuberculosis  
A Osborne, J.A. Sanchez, W Wangh *(USA)* |
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G Obregon Boltan, B Kershberger, A Antierens, R Dela Tour *(Peru)* |
| **PD-1075-01** | Isoniazid preventive therapy among pre-ART patients in Malawi: a report on uptake and retention  
Y Lo, R Flick, A Munthali, K Simon, A Dimba, M Kim, P Kazembe, S Ahmed *(Malawi)* |
| **PD-1076-01** | Predictive value of C-reactive protein in the diagnosis of tuberculosis immune reconstitution inflammatory syndrome  
W O Worodria, A Kiragga, D Mazapkwe, A Muhofa, R Ssegonja, J Katusiime, Y Manabe, R Colebunders *(Uganda, USA, Belgium)* |
| **PD-1077-01** | Comparison of different screening methods on tuberculosis case finding in HIV positive population  
Z Xu, Y Tan, L Bai *(China)* |
| **PD-1078-01** | Timing is everything: the value of ART, CPT AND HIV testing date variables in TB surveillance systems  
E Mitchell, S Gacheri, J K Sitienei, B Langat, H K Kipruto *(Netherlands, Kenya)* |
| **PD-1079-01** | Performance characteristics of facility-based Ziehl-Neelsen sputum-smear microscopy for the diagnosis of tuberculosis among people living with HIV  
J Cavanaugh, S Modi, A Okumu, H Alexander, S Musau, K Mccarthy, B Burmen, K Cain *(USA, Kenya)* |
51. The gamut of training: from patients to professionals
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Chair: TBC
Section: Tuberculosis/Nurses & Allied Professionals

PD-1080-01 Capacity building on PMDT for eastern Africa countries: center of excellence (CoE) on PMDT in Rwanda 2010-2013
F Birungi, Y Habimana-mucyo, V Ombeka, I Leimane (Rwanda, Netherlands)

PD-1081-01 Trainings for nurses and paramedical personnel in MRT-TB management
D Ruzanau, A. Radionova, S. Volf, P. Krivonos, A. Budritskiy, A Zalutskaya, A. Nikolenko, V.S. Korzh Zinkevich (Belarus)

PD-1082-01 Assessment of knowledge on tuberculosis management practices among medical interns and post-graduates in medical colleges of the Tamilnadu, India
HR Shivaramakrishna, S Anjum, D Ranganathan, R Sridar, J Arivoli (India)

PD-1083-01 How family-based counseling/education can impact the health of patients with tuberculosis in Armenia, 2013
N Truzyan, V Petrosyan, T Harutyunyan, B Crape (Armenia)

PD-1084-01 Training and involving district TB officers as soft skills trainers to overcome communication gaps between TB patients and care-providers
P Bhattacharya, V Lal, V Bal, B Samuel (India)

PD-1085-01 Organising of "patient health education sessions" for tuberculosis patients
I Felker, T Petrenko, O Filippova (Russian Federation)

PD-1086-01 Effectiveness of training health care workers on TB-HIV management to improve TB treatment outcomes in Swaziland
N Ndwandwe, L Dlamini Mdluli, C Mlambo, M Calnan, S Haumba, J Ongole (Swaziland)

PD-1087-01 Improvement in patient self-efficacy and recognition of high-quality sputum specimens following animated instructional video in Karachi, Pakistan
R Forse, R Hashmi, A Codlin, N Iqbal, A Habib, A Khan, T Seimon (Pakistan)

PD-1088-01 Building capacity of physicians/medical and health professionals on clinical, management of drug-resistant TB in India
A Trivedi, B Thapa, S Prasad, K Sagili (India, Nepal)

PD-1089-01 Knowledge, attitude and practice of tuberculosis management among fresh graduate doctors in Indonesia
R A Ahmad, LA Chandra, N Wilasto (Indonesia)
52. TB case finding: if you look for it, you will find it
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Chair: TBC

Section: Tuberculosis

PD-1090-01 Will centralised community screening or home-based visit result in high participation rate of TB screening among general population?
TA Nguyen, G Marks, G J Fox, V N Nguyen, P T B Nguyen, P N Tran, K H Tran, S V Nguyen (Viet Nam, Australia)

PD-1091-01 TB case finding using mobile team in two selected peri-urban townships of Yangon region
TMM Khaing, K Naing, T Lwin (Myanmar)

PD-1092-01 Effectiveness of active-case detection using mobile team in selected township in Myanmar
S Thein, GK Nu, H Nishiyama, N Yamada, K Okada, T Lwin (Japan, Myanmar)

PD-1093-01 The role of community health workers (Sun Primary Health) SPH providers) in TB control programme in Ayarwaddy Region, Myanmar
P Swe, S Zarni, O Myint (Myanmar)

PD-1094-01 Innovative approaches for increased case finding: the role of house-to-house in TB case finding
O Onazi, M Gidado, M Onoh, J Yisa, Josh Obasanya, R Eneogu, J Kuye, S Gande (Nigeria)

PD-1095-01 Taking TB screening, treatment and care to the unreached miners’ settlements in Oyo State, Nigeria
O Lawal, O Oladimeji, O Eltayeb, O Daniel, A Iyiola, A Awe, J O Obasanya, T Odusote (Nigeria, Belgium)

PD-1096-01 Experience of BRAC in patient centered care: enhance the accessibility and intensify the TB interventions
S Islam, M Akramul Islam, S Munim, S Alam, R Amzad, M.M. Rahman (Bangladesh)

PD-1097-01 Improvement of TB detection rate: what is implemented by TB Reach in Côte D’Ivoire?
Y Agbassi, S Touré (Côte D’Ivoire)

PD-1098-01 Community interventions: can facilitation mechanisms make a difference in improving case detection? A case study from Maharashtra in India
D Lekharu, A Kapoor, A Pathak, B Entoor Ramachandran, S Chadha (India)

PD-1099-01 Role of community TB-officers for screening and improve TB case finding in the community
R Pe, K Choun, S Thai, N Lorent, J Vangriensvan (Cambodia)

PD-1100-01 Door to door TB screening contributes to case detection and enhances TB prevention in the Nelson Mandela Bay District (NMB), Eastern Cape, South Africa
B Mpini, L Canzibe, T Dayimani (South Africa)
53. Case finding/LTBI: adults and children
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Chair: Beatie Kampman (UK)
Section: Tuberculosis

PD-1101-01 Evaluation of routine contact investigation in Ethiopia: a missed opportunity in preventing childhood TB
D Assefa Lemma, G Yosef, E Klinkenberg (Ethiopia)

PD-1102-01 Occurrence of diseases in contact investigation tuberculosis and efficient of preventive treatment
B Kisa, N Sarirurat, S Koyman, S Sayici, S Kotan, A Babalik, Zeki Kilicaslan (Turkey)

PD-1103-01 Household contact investigation of patients with multidrug-resistant tuberculosis in Tbilisi, Georgia
T Chakhaia, M Magee, R Kempker, M Gegia, Leil Goginashvili, Lela Tsakadze, N Dzidzikashvili, H Blumberg (Georgia, USA)

PD-1104-01 Settlement risk of LTBI activation in employees of large TB hospital
M Zorin, I Felker, P Filimonov, T Petrenko (Russian Federation)

PD-1105-01 The effectiveness of isoniazid preventive therapy in adolescent and adult TB contacts: a population study
P-C Chan, YH Huang, M-J Lu, P-H Lee, CB Hsu, K-F Wang, C-H Chen (Taiwan)

PD-1106-01 Predictive value of interferon-γ release assays and tuberculin skin testing in children contacts of tuberculosis cases
M N Altet Gomez, J Dominguez, MA Jiménez, MA De Souza-galvao, C Mila, I Latorre, & Orcau Palau, JA Caylà (Spain)

PD-1107-01 An evaluation of chest X-ray in the context of community-based screening of child tuberculosis contacts
R Triasih, C Robertson, T D Duke, S M Graham (Indonesia, Australia)

PD-1108-01 Screening of latent tuberculosis infection among recently arrived immigrants: usefulness of tuberculin skin test and QTF-GIT
A Sánchez-montalvá, F Salvador, T Tortola, M Yuste, B Treviño, N Serre, D Pou, I Molina (Spain)

PD-1109-01 Enhanced case detection following household contact tracing for childhood tuberculosis in The Gambia
U Egere, T Togun, A Sillah, B Ahadzie, N Heinrich, B Kampmann (Gambia, Germany, UK)

PD-1110-01 The iAdhere Study: reasons patients declined or accepted study participation
K Chapman, A Borisov, M Engle, R Belknap, S Goldberg, D Wing, J Mangan (USA)

PD-1111-01 Comparison between tuberculin skin test and interferon gamma release assay (IGRA) results in children: a household contact study in Vitória, Brazil
P Rodrigues, R Peres, F Silva, J Ellner, E Jones-lópex, R Dietze, R Ribeiro-rodrigues, A E Miranda (Brazil, USA)

PD-1112-01 Identification, evaluation and monitoring of children under five years old household tuberculosis contact in 30 municipalities of Chocó, Colombia
J M Hernández, H Andrade, L Murillo, L Velasquez, M Mejia, A Gomez, J Robledo (Colombia)
54. TB in the elderly: effects and outcome
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Chair: TBC
Section: Tuberculosis

PD-1113-01 Missed opportunities in treating elderly contacts with latent TB infection at the Singapore TB Control Unit
A Chua, K M Kyi Win, J Cutter, C Chee, Y T Tang (Singapore)

PD-1114-01 Determinants of death before start of and during tuberculosis treatment among elderly patients: a population-based follow-up study in Taipei, Taiwan
Y Yen, YS Lin (Taiwan)

PD-1115-01 Age is a key determinant for indeterminate QuantiFERON-TB Gold assay results
M Tebruegge, H de Graaf, P Sukhtankar, P Elkington, B Marshall, H Schuster
S Patel, S Faust (UK, Australia)

PD-1116-01 Factors associated with Tuberculosis mortality among patients younger than 50 years in Taiwan, 2010-2011
P-H Lee, Y-A Lin, P-C Chan, P-W Chu, CB Hsu, K-F Wang, C-H Chen, T-H Wen (Taiwan)

PD-1117-01 Is lower body weight at initiation of treatment more lethal for TB patients?
P Bhat, B Naik, P Nayak, B Basti, M D Suryakanth, P Malik, A Sreenivas (India)

PD-1118-01 Impact of advanced age on the delay and outcome of anti-tuberculous treatment: a national cohort study in Taiwan
C-H Lee, HC Lin, P-Y Lin, CW Suk, K-J Bai, J-H Chang, J-Y Wang, M-C Yu (Taiwan)

PD-1119-01 Tuberculosis burden among the Thai elderly during 2003-2009
P Hunchangsith (Thailand)

PD-1120-01 The impact of very old age on the treatment of tuberculosis: an experience in one referral hospital in Taiwan
HC Lin, K-J Bai, M-C Yu (Taiwan)

PD-1121-01 Pulmonary tuberculosis: clinical and therapeutic particularities in elderly compared to young
H Blibech, H Racil, A Ayari, S Bacha, S Cheikh Rouhou, N Chaouech, A Chabbou (Tunisia)
55. TB spatial epidemiology in high-burden settings
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Chair: Arnaud Trébucq (France)  
Section: Tuberculosis

PD-1122-01  Effectiveness of community contacts screening in addition to household contact screening to limit TB transmission in community  
R K Fatima, E Qadeer, M Ul Haq, Yaqo Aashifa (Pakistan)

PD-1123-01  Spatial distribution of tuberculosis amongst indigenous population, Brazil, 2010  
T Magalhães, A De Paula Lobo, D Chaves Kühleis, M Jacobs, V Camargo Da Costa, D Barreira (Brazil)

PD-1124-01  Validation of an online mapping methodology to locate village of residence of tuberculosis patients in Mombasa  
R Deya, M Dunbar, J Wakefield, S Graham, R.S. McClelland (Kenya)

PD-1125-01  Spatial analysis of deaths distribution by tuberculosis as an associated and primary cause, Ribeirão Preto (SP) Brazil  
M Yamamura, M Santos Neto, MP Popolin, MCC Garcia, ACV Ramos, J Crispim, I Fronteira, RA Arcêncio (Brazil)

PD-1126-01  Spatio-temporal and spatial analysis of deaths from pulmonary tuberculosis in Sao Luís/Maranhão, Brazil  
MCC Garcia, M Santos Neto, M Yamamura, F Chiaravalloti Neto, MP Popolin, L B B Rodrigues, I Fronteira, R Arcencio (Brazil)

PD-1127-01  Using molecular and spatial epidemiological approaches to study recent transmission of Mycobacterium tuberculosis in Shanghai, China  
SL Lin, X Guo, JT Guo, JJ Hong, J Wu, Q Gao, ZJ Zhang, X Shen (China)

PD-1128-01  TB map, a useful tool for outreach treatment follow up, contact tracing and local programmatic investigation: experience from Cimahi city, west Java  
F Manan, I Tochija, R Arifin Panigoro, M Reksoprodjo, H Diatmo (Indonesia)

PD-1129-01  Análisis espacial de casos de tuberculosis en Juazeiro Do Norte/ CE/ Brasil, 2001-2012  
T Figueiredo, TC Silva, M.L. Pinto, LCF Gomes, EL Silva, E Silva, M Bertolozzi, ML Pinto, TB Freire (Brazil)

PD-1130-01  Spatial analysis and active case finding in Guarulhos Municipality, Sao Paulo, Brazil  
ESM Rodrigues Pires, N Matsuda De Lima, V Souza Pinto, D Arakaki Sanchez (Brazil)
56. TB relapses, recurrence and retreatment
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Chair: Akira Shimichi (Japan)  Section: Tuberculosis

PD-1131-01 Evaluation of recurrent tuberculous lymphadenitis
S M M Kamal, Md Mainnul Hasan Chowdhury, MS Hossain, MA Jalil Chawdhury, T Islam Khan, AKM Younus Jamal, A Van Deun, R Hasan (Bangladesh, Belgium)

PD-1132-01 Risk factors for recurrent tuberculosis of all cured cases in Israel, 1999-2011
Z Mor, V Zhdanov, N Bilenko (Israel)

PD-1133-01 High relapse rate of Cat I smear-pos cases
Vino Rolan, R Mehra (India)

PD-1134-01 Tuberculosis retreatment in northern Portugal
P Cecília, E Silva, O Oliveira, A Correia, A Carvalho, R Duarte (Portugal)

PD-1135-01 A new operational definition of intermittent adherence to tuberculosis treatment is associated with high recurrence risk
M Tovar, T Wingfield, R Montoya, N Becerra, B Valiente, E Ramos, T Valencia, C Evans (Peru)

PD-1136-01 Factors associated with failure to smear convert by Month 2 among Category 1 TB patients in Karachi, Pakistan
K D'souza, A Malik, A Zaidi, M Jaswal, S Butt, S Mahroz, S Khowaja, A Codlin (Pakistan)

PD-1137-01 Detection of Chest X-ray abnormalities and tuberculosis using computer-aided detection vs interpretation by radiologists and a clinical officer
A Khan, A Zaidi, R Philipsen, S Khowaja, B Van Ginneken, A Khan, T Dossul (Pakistan)

PD-1138-01 Situation analysis of sputum smear-negative and culture-positive tuberculosis cases from Cambodian prevalence survey 2011 for further reduction of TB
S Hirao, K Okada, N Yamada, S Saint, S Peou, T E Mao (Japan, Cambodia)

PD-1139-01 Recurrence of TB among cured NSP TB patients over one year follow-up and role in amplification of resistance
M Toshniwal, S Soni, K Rade, P Malik, M Pawar, A Sreenivas (India)

PD-1140-01 Recurrent tuberculosis, relapse or reinfection after successful treatment: a retrospective cohort study
I Berggren, M Pergert, A Pennhag, I Zedenius (Sweden)

PD-1141-01 Reinfection and relapse among new smear-positive tuberculosis patients in Lima, Peru
L Otero, F Barletta, L Rigouts, C Seas, E Gotuzzo, P Van Der Stuyft (Peru, Belgium)
### 57. TB control  
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| PD-1155-01 | Culture monitoring of MDR-TB treatment for diagnosis XDR-TB in Bangladesh  
MS Hossain, S M M Kamal, Dr. Wahiduzzaman Akanda, A Van Deun, MA Husain, S Sultana, M Rahman, Mr. Arif Rahman (Bangladesh, Belgium) |
| PD-1156-01 | How much do family members of MDR-TB patients understand about Tuberculosis treatment?  
S Gadala, M Arulanantham, Tomi Thomas, P Banuru Muralidhara (India) |
| PD-1157-01 | Patients after surgery for pulmonary TB in the intensive care unit: factors associated with the duration of stay  
A Yatsenko, O Soloviev, T Petrenko, P Filimonov, I Tyutlina (Russian Federation) |
| PD-1158-01 | Characterisation of extensively drug-resistant (XDR) and totally drug-resistant (TDR) Mycobacterium tuberculosis strains in Pakistan  
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| PD-1159-01 | First case of XDR-TB cured after 10 years of illness with regimen based on Group 5 drugs and bedaquiline in a programmatic approach in Peru  
D Vargas, A Mendoza, J Cabrera, A Alarcon (Peru) |
| PD-1160-01 | Cost-effectiveness analysis of LPA-based algorithm for detection of multidrug-resistant tuberculosis in Arkhangelsky Region, Russian Federation  
E Bogdanova, E V Gospodarevskaya, G Balantsev, P Eliseev, A Maryandyshev, E Nikishova, A Detjen, S Squire (Russian Federation, UK, USA) |
| PD-1161-01 | Does diagnostic technology and travel distance reduces delays in treatment initiation of MDR-TB patients in India?  
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S Laksono, DE Mustikawati, T N Dinihari, E Lukitosari, M Akhtar (Indonesia, Nepal) |
| PD-1163-01 | Antiretroviral therapy in patients diagnosed with rifampicin resistance in an observational study, South Africa  
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I Akhundova, N. Alixanova, M Seyfaddinova, E Mammedbekov, N Aliyeva (Azerbaijan)

PD-1166-01  The particularity of M.tuberculosis strains circulating in the penitentiary system of Kazakhstan  
A Ibrayeva, A Alenova, U Kozhamkulov, D Raimbek, E Zholdybayeva, T Abildaev (Kazakhstan)

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PD-1168-01  Prevalence of multi-drug resistant tuberculosis among suspects of different categories in Uttar Pradesh  
A Jain, U Singh, PK Singh, P Dixit, G Chooramani (India)

PD-1169-01  Perceptions, behaviour and experience of patients and practitioners in Karakalpakstan on the use of tuberculosis medication: a qualitative study  
B Stringer, K Lowton, P Du Cros, E Hasker, D Ulmasova, NN Parpieva, N Sergeeva, M Tillyashaykhov (UK, Belgium, Uzbekistan)

PD-1170-01  Trends of the prevalence of new patients amongst MDR-TB notified cases, Peru 2009-2013  
J Cabrera, CA Mendoza, J Camara, C Figueroa, D Chavarri, R Espinoza, J Diaz, A Alarcón (Peru)

PD-1171-01  Implications of revised methods for estimating the global burden of multidrug-resistant tuberculosis  
S Nourzad, H Jenkins, C Mitnick (Netherlands, USA)

PD-1172-01  The role of private health facilities in managing drug-resistant TB patients in an urban setting: experiences from Kampala, Uganda  
E Kizito, M Ruhweza, D Birabwa, C Aguti Ongom, E Birabwa, F Mugabe, S Balcha, S Mwanja (Uganda)

PD-1173-01  Magnitude of MDR-TB resistance in Kinshasa, DR Congo  
G Bakaswa, Jan Verhaegen, M Ieven, V D Armand, M Kaswa-kayomo, JJ Muyembe, S Bisuta Fueza, M Boelaert (Congo - Democratic Rep., Belgium)
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Section: Tuberculosis

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S Khan, T E Mao, K Tan, Yada Rajendra (Cambodia)

PD-1175-01  The spectrum of drug-resistant pulmonary tuberculosis among foreign-born in Singapore  
K M Kyi Win, C Chee, J Cutter, LH Sng, R Jureen, Y T Tang (Singapore)

PD-1176-01  Determinants of multidrug-resistance tuberculosis in selected hospitals in Addis Ababa, Ethiopia: a case control study  
D Abebe, B Seyoum, L Hordofa, L D’ambrosio, R Centis, G B Migliori (Ethiopia, Italy)

PD-1177-01  Increasing trend in multidrug-resistant tuberculosis in the extreme north of Russia  

PD-1178-01  Acquired resistance to second line anti-TB drugs among multidrug-resistant (MDR-TB) patients from eastern Europe  

PD-1179-01  Drug-resistant extra-pulmonary tuberculosis cases in a tertiary care hospital in Karachi, Pakistan  
S Butt, A. Mashhadi, N Baig-ansari, A Bhurgri, N Salahuddin (Pakistan)

PD-1180-01  Antituberculosis drug-resistance survey in pulmonary tuberculosis cases in Ankara and Istanbul, Turkey  
N Albayrak, F Sezen, A Yildirim, H Simsek, A Arslanturk, N Ucarman, MA Torunoglu, S Ozkara (Turkey)

PD-1181-01  High DR-TB prevalence and vulnerability in adolescent girls: the Indus Hospital TB control programme experience  
F Amanullah, A Malik, S Butt, S Khowaja, N Salahuddin, A Bhurgri, A Khan, H Hussain (Pakistan)

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B Shrestha, B Maharjan, D B Pradhan, H Hoffmann, K. Avsar, P Rajendra, A Shrestha (Nepal)

PD-1183-01  Multidrug-resistant tuberculosis in children in Kazakhstan  
K.S. Serikbayeva (Kazakhstan)

PD-1184-01  Yield of contact investigation among multidrug-resistant tuberculosis patients from urban slums of New Delhi, India  
R Singh, A Rawat, V Shibu, H Solanki, G Srinivas, S Sharma, S Saini, A Khanna (India)

PD-1185-01  Multidrug-resistant tuberculosis (MDR-TB) among refugees and local population in North Eastern Kenya  
A Nur Farah, V Otieno (Kenya)
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63. All smoke free: from government to community  
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Chair: Vivek Ramesh (India)  
Section: Tobacco Control

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Public Health network to strengthen smoke free implementation at tourism cities in Vietnam  
NB Nguyen, V Tran, Lam Nguyen, N M Tham (Viet Nam)

PD-1211-01  
Smokefree city campaign: a case of Khulna Municipality in Bangladesh  
A Bakul, I Chowdhury, Mr Aktar (Bangladesh, India)

PD-1212-01  
Civic participation in smokefree policy-making and monitoring compliance with the national legislation  
T Burieva (Russian Federation)

PD-1213-01  
Polling in support to FCTC accession in Indonesia  
R Mardhiati, D Kurniawan, F Nisma, Y Yusuf, N Andayani, M A Malik, T Ningsih, IP Susanti (Indonesia)

PD-1214-01  
How to approach the creation of a smokefree environment at city level: Jinan City experience  
S Ruan, Jun Zhang, Yue Liu, Xin Zhang, Shou Liu, Xiao Wang (China)

PD-1215-01  
Smokefree hospitals in Jinan: a practice for comprehensive smokefree policies  
J Han, Jun Zhang, RM Cao, XW Li, Y Jin, SM Ruan (China)

PD-1216-01  
Reduction in second-hand smoking with the implementation of COTPA, 2003 in Shimla Town  
N Sharma, P Lal (India)

PD-1217-01  
Smokefree munger initiative: a gateway to tobacco free Bihar  
D Mishra (India)

PD-1218-01  
Community perception on tobacco control in Cambodia  
SA Kong (Cambodia)

PD-1219-01  
Do smokefree policies harm the turnover and employment in the hospitality industry in Buenos Aires? Effects of the 1799 Act on tobacco control  
M C Angueira, C Cañas (Argentina)

PD-1220-01  
How good is compliance with smokefree legislation in India? Results of 38 subnational surveys  
R Kumar, S Goel, A D Harries, P Lal, R J Singh, N Wilson, A Kumar (India, UK)

PD-1221-01  
Countering the tobacco industry interference: tactics in implementation of pictorial health warnings on all tobacco packs through media interventions  
C Ramakrishnan (India)

PD-1222-01  
Exposure to second hand smoke in India: an analysis from Global Adult Tobacco Survey, 2009-2010  
D Sharma, A Gupta (India)

PD-1223-01  
Potential mortality averted from sub-national taxes in India  
C Rajeev (USA)
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65. TB prevalence estimations
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Chair: Ghislain Koura (France)  
Section: Tuberculosis

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A modern approach to estimating incidence: re-writing Styblo’s rule  
M Begun, A Newall, G Marks, J Wood (Australia)

**PD-1238-01**  
Profil épidémiologique de la tuberculose en République Démocratique du Congo (2008-2012) et tendances prévisibles  
N Ait-khaled, A Trebuq, V Schwoebel, G Koura, G Lay, G Bakaswa (Algeria, France, Congo - Democratic Rep.)

**PD-1239-01**  
Incidence of smear positive TB in Dale district, Sidama, south Ethiopia  
D Datiko, E Woldesemayat, Bern Lindtjorn, M Dangiso (Ethiopia, Norway)

**PD-1240-01**  
Tuberculosis among inhabitants of Rajshahi city of Bangladesh: an epidemiological study  
M Kalam (Bangladesh)

**PD-1241-01**  
Tuberculosis in MERCOSUR border municipalities, 2011  
R Maia, M.S. Evangelista, A De Paula Lobo, C Oliveira Dantas, M Jacobs, H Barroso Bernal, F Moherdaui, D Barreira (Brazil)

**PD-1242-01**  
Tuberculosis mortality survey in two selected townships in Myanmar  
ST Aung, KK Zaw, T Lwin (Myanmar)

**PD-1243-01**  
Tuberculosis as a prevalence cause of pleural effusion in Akwa Ibom southern Nigeria  
V Obot, E Ekpe, M Gidado (Nigeria)

**PD-1244-01**  
Biomass as a risk factor for tuberculosis among rural women of Sindh, Pakistan  
Dr Asaad Nafees, U Rabbani, A Sahito, A Kamran, Z Fatmi (Pakistan)

**PD-1245-01**  
Epidemiological trent in tuberculosis in Romania between 2002-2012  
A Golli, M Nitu, M Olteanu, M Ghelase, L Ciobanu Mitrache, F Turcu (Romania)

**PD-1246-01**  
Prevalence of tuberculosis risk factors among tuberculosis patients in Kampala, Uganda: a cross sectional descriptive study  
A Okwera, B Kirenga, M Joloba, W Ssengooba, F Mugabe, S Kasozi, M Boeree (Uganda)

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Tuberculosis in Tunisia during the last thirteen years  
S Ben Saad, isla Mejri, H Daghfous, hela Cherif, moun Ben Khlifa, leil Slim, F Tritar (Tunisia)

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V Petrenko, R Prociuk, G Radys, G Marchenko, N Rybak, T Flanigan (USA)
**66. TB in prisons**

**Saturday, 01 November 2014, 12:45-13:45**

**Chair:** TBC  
**Section:** Tuberculosis

**PD-1249-01** Profile of TB-HIV cases in inmate population, Brazil, 2007-2011  
D Chaves Kühleis, T Magalhães, M Jacobs, V Camargo Da Costa, D Pelissari, D Barreira *(Brazil)*

**PD-1250-01** Prevalence of pulmonary tuberculosis (TB) among inmates of three prisons and prison staff in Karnataka State, South India  
A Meundi, B Dhabadi, I Ismail, A Sagara, A G Kulkarni *(India)*

**PD-1251-01** Survey on the state of collaboration between prison institutions and public health centers in controlling TB among prisoners in Japan  
L Kawatsu, N Ishikawa *(Japan)*

**PD-1252-01** High prevalence of previously undiagnosed active TB among HIV-infected inmates upon entry into a Malaysian prison  
H Al-darraji, F Altice, A Kamarulzaman *(Malaysia)*

**PD-1253-01** Active case finding of pulmonary tuberculosis among prison inmates in Aba Federal prison in Abia State  
O Okorie, M Gidado, E Ekundayo *(Nigeria)*

**PD-1254-01** A new way to advance STOP TB strategy in prisons  
E Gurbanova, R Mekhdiyev, A Ismayilov, I Mammadova, F Huseynov, M Dara, A Dadu, J. Suleymanova *(Azerbaijan, Denmark, Moldova)*

**PD-1255-01** Controlling pulmonary tuberculosis in the prisons of Bangladesh using active screening and strengthening the management and referral linkage  

**PD-1256-01** Computer-aided diagnosis of X-rays in a screening for pulmonary tuberculosis of a prison population in Tanzania  
A Steiner, F Mhimbira, J Van Den Hombergh, P Clowes, C Mangu, B Van Ginneken, M Hoelscher, K Reither *(Switzerland, Tanzania, United Rep., Germany)*

**PD-1257-01** Promoting good TB infection control in Cipinang detention center: a lesson learnt  
YN Sumarli, y Yuniarti, I Kurniay, N Tandirering, MR Christian, D Setyawati *(Indonesia)*

**PD-1258-01** Empowering community-based organisation to strengthen TB post release programme in prison system in DKI Jakarta  
Y Gunawan, M Revilia, YI Hiola, M Samsuri, C Natpratan, R Palupy, DP Setyawati, T Mahatmi Nisa *(Indonesia)*

**PD-1259-01** Operational framework for tuberculosis management at Tihar central prison in Delhi, India  
N Sharma, S Chandra, Ashw Khanna, M Dhuria, KK Chopra, M Hanif *(India)*

**PD-1260-01** Tuberculosis screening in prisons in Rwanda using mobile digital x-ray machine  
E Ruseesa, M Gasana, G Mutembayire, J Mugabekazi, CB Uwizeye *(Rwanda)*

**PD-1261-01** Tuberculosis in prisons in Republic of Macedonia
M Zakoska, B Ilievska Poposka *(Macedonia, Yugoslav Rep.)*

**PD-1262-01**  
**TB case finding in Nigerian prisons: using health system strengthening approach**  
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