

Epco Hasker

Mycobacteriële Ziekten en Verwaarloosde Tropische Ziekten

Type van adres: !!Postal address.

Nationalestraat 155

2000

Antwerp

België

Type van adres: !!Postal address.

Nationalestraat

2000

Antwerpen

België

!!Email: ehasker@itg.be

!!Phone: +32(0)32470726



Onderzoeksexpertise

Human African Trypanosomiasis

Visceral Leishmaniasis

Tuberculosis

Kwalificaties

Doctor

Getuigschrift

Biosketch

Epco Hasker is a medical doctor/ epidemiologist from the Netherlands with 15 years' working experience in lower and middle income countries. While abroad he worked mostly on tuberculosis and leprosy control in Africa (Nigeria), Asia (Afghanistan/Pakistan) and in the former Soviet Union (Ukraine and Central Asia). Since 2008 he has been working in Belgium for the Institute of Tropical Medicine (ITM) at the Department of Public Health. His core responsibilities include technical support to epidemiological studies in Africa and Asia, and lecturing epidemiology and statistics to international MPH students. In his department he is a resource person for technical support on epidemiology and statistics. In 2010 he obtained a PhD based on his research on control of infectious disease in low resource settings. In June 2020 he was appointed professor of common tropical infectious diseases at ITM.

Onderzoeksoutputs

***Leishmania Donovanii* and *Wuchereria Bancrofti* co-infection in an asymptomatic population of visceral Leishmaniasis**

Singh, AK., Hasker, E., Singh, OP. & Sundar, S., 2023, In: International Journal of Infectious Diseases. 130, S2, blz. S23-S23 1 blz.

***Wuchereria bancrofti* infection is associated with progression to clinical visceral leishmaniasis in VL- endemic areas in Muzaffarpur, Bihar, India**

Kumar Singh, A., de Gooyer, T., Singh, O. P., Pandey, S., Neyaz, A., Cloots, K., Kansal, S., Malaviya, P., Rai, M., Nylén, S., Chakravarty, J., Hasker, E. & Sundar, S., 2023, In: PLoS Neglected Tropical Diseases. 17, 10, 16 blz., e0011729.

Field-friendly anti-PGL-I serosurvey in children to monitor *Mycobacterium leprae* transmission in Bihar, India

Pierneef, L., Malaviya, P., van Hooij, A., Sundar, S., Singh, AK., Kumar, R., de Jong, D., Meuldijk, M., Kumar, A., Zhou, ZJ., Cloots, K., Corstjens, P., Hasker, E. & Geluk, A., 2023, In: Frontiers in Medicine. 10, 10 blz.

Hi-plex deep amplicon sequencing for identification, high-resolution genotyping and multidrug resistance prediction of *Mycobacterium leprae* directly from patient biopsies by using Deeplex Myc-Lep

Jouet, A., Braet, SM., Gaudin, C., Bisch, G., Vasconcellos, S., do Livramento, REEND., Palacios, YYP., Fontes, AB., Lucena, N., Rosa, P., Moraes, M., La, K., Badalato, N., Lenoir, E., Ferré, A., Clément, M., Hasker, E., Grillone, SH., Abdou, W., Said, A., & 7 anderen Assoumani, Y., Attoumani, N., Laurent, Y., Cambau, E., de Jong, BC., Suffys, PN. & Supply, P., 2023, In: EBioMedicine. 93, 14 blz., 104649.

Monitoring of *Leishmania* transmission in the peri-elimination phase: the potential of serological surveys

Singh, OP., Cloots, K., Rai, TK., Tiwari, VD., Singh, AK., Hasker, E. & Sundar, S., 2023, In: International Journal of Infectious Diseases. 130, S2, blz. S22-S22 1 blz.

Protocol, rationale and design of BE-PEOPLE (Bedaquiline enhanced exposure prophylaxis for LEprosy in the Comoros): a cluster randomized trial on effectiveness of rifampicin and bedaquiline as post-exposure prophylaxis of leprosy contacts
Younoussa, A., Samidine, S. N., Bergeman, A. T., Piubello, A., Attoumani, N., Grillone, S. H., Braet, S. M., Tsoumanis, A., Baco, A., Mzembaba, A., Salim, Z., Amidy, M., Grillone, S., Snijders, R., Corstjens, P., Ortuno-Gutierrez, N., Hoof, C., Geluk, A., de Jong, B. C. & Hasker, E., 2023, In: BMC Infectious Diseases. 23, 1, blz. 310

The ongoing risk of *Leishmania donovani* transmission in eastern Nepal: an entomological investigation during the elimination era

Roy, L., Cloots, K., Uranw, S., Rai, K., Bhattarai, N. R., Smekens, T., Hendrickx, R., Caljon, G., Hasker, E., Das, M. L. & Van Bortel, W., 2023, In: Parasites and Vectors. 16, 11 blz., 404.

Diagnosis of visceral Leishmaniasis in an elimination setting: a validation study of the diagnostic algorithm in India

Cloots, K., Singh, O. P., Singh, A. K., Kushwaha, A. K., Malaviya, P., Kansal, S., Hasker, E. & Sundar, S., 2022, In: Diagnostics (Basel). 12, 3, 9 blz., 670.

Gambiense human African trypanosomiasis: the bumpy road to elimination

Hasker, E., Hope, A. & Bottieau, E., 2022, In: Current Opinion in Infectious Diseases. 35, 5, blz. 384-389 6 blz.

High yield of retrospective active case finding for leprosy in Comoros

Ortuño-Gutiérrez, N., Mzembaba, A., Baco, A., Braet, S. M., Younoussa, A., Salim, Z., Amidy, M., Grillone, S., Said, A., de Jong, B. C., Richardus, J. H. & Hasker, E., 2022, In: PLoS Neglected Tropical Diseases. 16, 3, blz. e0010158 5 blz.

Investigating drug resistance of *Mycobacterium leprae* in the Comoros: an observational deep-sequencing study

Marijke Braet, S., Jouet, A., Aubry, A., Van Dyck-Lippens, M., Lenoir, E., Assoumani, Y., Baco, A., Mzembaba, A., Cambau, E., Vasconcellos, S. E. G., Rigouts, L., Suffys, P. N., Hasker, E., Supply, P. & de Jong, B. C., 2022, In: Lancet Microbe. 3, 9, blz. e693-e700 8 blz.

Less is more: developing an approach for assessing clustering at the lower administrative boundaries that increases the yield of active screening for leprosy in Bihar, India

Ortuno-Gutierrez, N., Shih, P-W., Wagh, A., Mugudalabetta, S., Pandey, B., de Jong, B. C., Richardus, J. H. & Hasker, E., 2022, In: PLoS Neglected Tropical Diseases. 16, 9, 11 blz., e0010764.

Two-year follow-up of *Trypanosoma brucei gambiense* serology after successful treatment of human African trypanosomiasis: results of four different sero-diagnostic tests

Inocencio da Luz, R., Tablado Alonso, S., Büscher, P., Verlé, P., De Weggheleire, A., Mumba Ngoyi, D., Pyana, P. P. & Hasker, E., 2022, In: Diagnostics (Basel). 12, 2, 13 blz., 246.

'Where are the dead flies!': perceptions of local communities towards the deployment of Tiny Targets to control tsetse in the Democratic Republic of the Congo

Vander Kelen, C., Mpanya, A., Hasker, E., Miaka, E., Nzuzi, R., Torr, S., Perez, D. & Pulford, J., 2022, In: BMJ Global Health. 7, 1, 11 blz., e006879.

Assessing *L. donovani* skin parasite load: a proof of concept study of a microbiopsy device in an Indian setting

Cloots, K., Singh, O. P., Singh, A. K., Van der Auwera, G., Kumar, P., Gedda, M. R., Rai, T. K., Hasker, E., Sundar, S. & Boelaert, M., 2021, In: Frontiers in Cellular and Infection Microbiology. 11, 9 blz., 645121.

Costs and outcomes of integrated Human African Trypanosomiasis surveillance system using rapid diagnostic tests, Democratic Republic of the Congo

Snijders, R., Fukinsia, A., Claeys, Y., Hasker, E., Mpanya, A., Miaka, E., Meheus, F. & Boelaert, M., 2021, In: Emerging Infectious Diseases. 27, 8, blz. 2144-2153 10 blz.

Exploring clustering of leprosy in the Comoros and Madagascar: a geospatial analysis

Ortuno-Gutierrez, N., Mzembaba, A., Ramboarina, S., Andriamira, R., Baco, A., Braet, S., Younoussa, A., Cauchoix, B., Salim, Z., Amidy, M., Grillone, S., Rasamoelina, T., Cambau, E., Geluk, A., de Jong, B. C., Richardus, J. H. & Hasker, E., 2021, In: International Journal of Infectious Diseases. 108, blz. 96-101 6 blz.

Feasibility of a dried blood spot strategy for serological screening and surveillance to monitor elimination of Human African Trypanosomiasis in the Democratic Republic of the Congo

Inocencio da Luz, R., Phanzu, D. M., Kiabanzawoko, O. N., Miaka, E., Verlé, P., De Weggheleire, A., Büscher, P., Hasker, E. & Boelaert, M., 2021, In: PLoS Neglected Tropical Diseases. 15, 6, 16 blz., e0009407.

Leprosy post-exposure prophylaxis: current experiences and ongoing research

Richardus, J. H., van Brakel, W., Mieras, L., Hasker, E. & Steinmann, P., 2021, In: Tropical Medicine and International Health. 26, S1, blz. 256-256 1 blz., 4.

Minimally invasive sampling to identify leprosy patients with a high bacterial burden in the Union of the Comoros

Braet, S. M., van Hooij, A., Hasker, E., Fransen, E., Wirdane, A., Baco, A., Grillone, S., Ortuno-Gutierrez, N., Assoumani, Y., Mzembaba, A., Corstjens, P., Rigouts, L., Geluk, A. & de Jong, B. C., 2021, In: PLoS Neglected Tropical Diseases. 15, 11, 15 blz., e0009924.

Visceral leishmaniasis-HIV coinfection as a predictor of increased *Leishmania* transmission at the village level in Bihar, India

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Community-based survey on helminth infections in Kwilu province, the Democratic Republic of the Congo, and implications for local control strategies

Inocencio da Luz, R., Linsuke, S., Roucher, C., Mpanya, A., Nyandele, J., Mubwa Mungwele, N., Mboma, B. N., Polman, K., Hasker, E. & Boelaert, M., 2020, In: PLoS Neglected Tropical Diseases. 14, 10, 14 blz., e0008745.

Cost of a new method of active screening for human African trypanosomiasis in the Democratic Republic of the Congo

Snijders, R., Fukinsia, A., Claeys, Y., Mpanya, A., Hasker, E., Meheus, F., Miaka, E. & Boelaert, M., 2020, In: PLoS Neglected Tropical Diseases. 14, 12, 13 blz., e0008832.

Impact of the visceral leishmaniasis elimination initiative on *Leishmania donovani* transmission in Nepal: a 10-year repeat survey

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Male predominance in reported Visceral Leishmaniasis cases: nature or nurture? A comparison of population-based with health facility-reported data

Cloots, K., Burza, S., Malaviya, P., Hasker, E., Kansal, S., Mollett, G., Chakravarty, J., Roy, N., Lal, B. K., Rijal, S., Sundar, S. & Boelaert, M., 2020, In: PLoS Neglected Tropical Diseases. 14, 1, 14 blz., e0007995.

Reduction of diagnostic and treatment delays reduces rifampicin-resistant tuberculosis mortality in Rwanda

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Using a geographic information system as a management tool for tuberculosis control

Hasker, E., Assoumani, Y., Mzembaba, A., Zakir, A. M., Ortuno-Gutierrez, N. & de Jong, B. C., 2020, In: International Journal of Tuberculosis and Lung Disease. 24, 3, blz. 354-356 3 blz.

Xenodiagnosis to address key questions in visceral leishmaniasis control and elimination

Singh, O. P., Hasker, E., Boelaert, M., Sacks, D. & Sundar, S., 2020, In: PLoS Neglected Tropical Diseases. 14, 8, 18 blz., e0008363.

Clustering of leprosy beyond the household level in a highly endemic setting on the Comoros, an observational study

Ortuno-Gutierrez, N., Baco, A., Braet, S., Younoussa, A., Mzembaba, A., Salim, Z., Amidy, M., Grillone, S., de Jong, B., Richardus, J. H. & Hasker, E., 2019, In: BMC Infectious Diseases. 19, 1, 7 blz., 501.

Costing of an integrated approach for human African trypanosomiasis (HAT) case finding in the Democratic Republic of the Congo

Snijders, R., Fukinsia, A., Mulenga, P., Claeys, Y., Hasker, E., Mpanya, A., Miaka, E., Meheus, F., Lutumba, P. & Boelaert, M., 2019, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 113, S1, blz. S49-S50 2 blz., 123.

Determinants for progression from asymptomatic infection to symptomatic visceral leishmaniasis: a cohort study

Chakravarty, J., Hasker, E., Kansal, S., Singh, O. P., Malaviya, P., Singh, A. K., Chourasia, A., Singh, T., Sudarshan, M., Singh, A. P., Singh, B., Singh, R. P., Ostyn, B., Fakiola, M., Picado, A., Menten, J., Blackwell, J. M., Wilson, M. E., Sacks, D., Boelaert, M., & 1 anderenSundar, S., 2019, In: PLoS Neglected Tropical Diseases. 13, 3, 12 blz., e0007216.

High prevalence of leprosy during skin survey in Muzaffarpur HDSS, Bihar, India

Malaviya, P., Hasker, E., de Koning, P., Boelaert, M. & Sundar, S., 2019, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 113, S1, blz. S255-S255 1 blz., A025.

Innovative tools for assessing infectiousness in asymptomatic carriers in *L. donovani*: a proof of concept study of a novel microbiopsy device

Cloots, K., Singh, O. P., Van der Auwera, G., Hasker, E., Singh, A. K., Gedda, M. R., Rai, T., Malaviya, P., Sundar, S. & Boelaert, M., 2019, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 113, S1, blz. S59-S60 2 blz., 148.

Outcomes of the HAT elimination efforts in DRC

Verlé, P., Mpanya, A., Hasker, E., Snijders, R., da Luz, I. R., Boelaert, M. & Miaka, E. M., 2019, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 113, S1, blz. S54-S54 1 blz., 134.

Post kala azar dermal leishmaniasis and leprosy prevalence and distribution in the Muzaffarpur health and demographic surveillance site

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Protocol, rationale and design of PEOPLE (Post ExpOsure Prophylaxis for LEprosy in the Comoros and Madagascar): a cluster randomized trial on effectiveness of different modalities of implementation of post-exposure prophylaxis of leprosy contacts

Ortuno-Gutierrez, N., Younoussa, A., Randrianantoandro, A., Braet, S., Cauchoix, B., Ramboarina, S., Baco, A., Mzembaba, A., Salim, Z., Amidy, M., Grillone, S., Richardus, J. H., de Jong, B. & Hasker, E., 2019, In: BMC Infectious Diseases. 19, 1, 1033.

Sleeping sickness in the Democratic Republic of the Congo

Miaka, E. M., Hasker, E., Verlé, P., Torr, S. J. & Boelaert, M., 2019, In: Lancet Neurology. 18, 11, blz. 988-989 2 blz.

Bionomics of *Phlebotomus argentipes* in villages in Bihar, India with insights into efficacy of IRS-based control measures

Poche, D. M., Garlapati, R. B., Mukherjee, S., Torres-Poche, Z., Hasker, E., Rahman, T., Bharti, A., Tripathi, V. P., Prakash, S., Chaubey, R. & Poche, R. M., 2018, In: PLoS Neglected Tropical Diseases. 12, 1, 20 blz., 0006168.

Comparison of costs between two strategies of active case finding of Human African Trypanosomiasis in the Democratic Republic of the Congo

Snijders, R., Fukinsia, A., Claeys, Y., Hasker, E., Mpanya, A., Miaka, E., Lutumba, P., Meheus, F. & Boelaert, M., 2018, In: American Journal of Tropical Medicine and Hygiene. 99, 4, blz. 625-625 1 blz.

Comparison of two approaches to active case finding of sleeping sickness in two districts in the Democratic Republic of the Congo

Claeys, Y., Mpanya, A., Snijders, R., Fukinsia, A., Boelaert, M., Miaka, E. & Hasker, E., 2018, In: American Journal of Tropical Medicine and Hygiene. 99, 4, blz. 463-464 2 blz.

Do cryptic reservoirs threaten gambiense-sleeping sickness elimination?

Büscher, P., Bart, J.-M., Boelaert, M., Bucheton, B., Cecchi, G., Chitnis, N., Courtin, D., Figueiredo, L. M., Franco, J.-R., Grébaut, P., Hasker, E., Ilboudo, H., Jamonneau, V., Koffi, M., Lejon, V., MacLeod, A., Masumu, J., Matovu, E., Mattioli, R., Noyes, H., & 9 anderen Picado, A., Rock, K. S., Rotureau, B., Simo, G., Thévenon, S., Trindade, S., Truc, P., Van Reet, N. & Informal Expert Group on Gambiense HAT Reservoirs, 2018, In: Trends In Parasitology. 34, 3, blz. 197-207 11 blz.

Gender bias in visceral leishmaniasis: nature or nurture?

Cloots, K., Burza, S., Malaviya, P., Hasker, E., Kansal, S., Chakravarty, J., Sundar, S. & Boelaert, M., 2018, In: American Journal of Tropical Medicine and Hygiene. 99, 4, blz. 462-463 2 blz.

Health seeking behavior of patients in Muzaffarpur-TMRC Health and Demographic Surveillance Site may obstruct Kala-azar elimination in Bihar, India

Malaviya, P., Hasker, E., Boelaert, M. & Sundar, S., 2018, In: International Journal of Infectious Diseases. 73, blz. 267-267 1 blz.

Improving clinical and epidemiological predictors of Buruli ulcer

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Innovative digital technologies for quality assurance of diagnosis of human African trypanosomiasis

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Outbreak of tuberculosis and multidrug-resistant tuberculosis, Mbuji-Mayi Central Prison, Democratic Republic of the Congo

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Schistosomiasis and soil-transmitted helminths in two health districts of the Kwilu province, Democratic Republic of the Congo: evaluation of the prevalence among schoolchildren and in the community

da Luz, R., Roucher, C., Linsuke, S., Hasker, E., Polman, K. & Boelaert, M., 2018, In: American Journal of Tropical Medicine and Hygiene. 99, 4, blz. 615-615 1 blz.

The quality of medicines used in children and supplied by private pharmaceutical wholesalers in Kinshasa, Democratic Republic of Congo: a prospective survey

Schiavetti, B., Wynendaele, E., De Spiegeleer, B., Mbinze, G. J., Kalenda, N., Marini, R., Melotte, V., Hasker, E., Meessen, B., Ravinetto, R., Van der Elst, J. & Ngeleka, D. M., 2018, In: American Journal of Tropical Medicine and Hygiene. 98, 3, blz. 894-903 10 blz.

The repetitive element RLEP is a highly specific target for detection of *Mycobacterium leprae*

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Visceral leishmaniasis in the Muzaffarpur Demographic Surveillance Site: a spatiotemporal analysis

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Visceral leishmaniasis: spatiotemporal heterogeneity and drivers underlying the hotspots in Muzaffarpur, Bihar, India

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6 Costing of large scale strategies for active case finding of Human African Trypanosomiasis (HAT) in the Democratic Republic of the Congo

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Assessment of schistosomiasis and soil-transmitted helminths prevalence in school-aged children and opportunities for integration of control in local health services in Kwilu Province, the Democratic Republic of the Congo

Inocência da Luz, R., Linsuke, S., Lutumba, P., Hasker, E. & Boelaert, M., 2017, In: Tropical Medicine and International Health. 22, 11, blz. 1442-1450 9 blz.

Digitalization and planning of active HAT screening in the Democratic Republic of Congo to reach elimination

Claeys, Y., Makabuza, J., Mpanya, A., Boelaert, M., Lutumba, P., Lebuki, J., Hasker, E. & Lumbala, C., 2017, In: Tropical Medicine and International Health. 22, blz. 54-54 1 blz.

Elimination of visceral leishmaniasis in the Indian subcontinent: a comparison of predictions from three transmission models

Le Rutte, E. A., Chapman, L. A. C., Coffeng, L. E., Jervis, S., Hasker, E. C., Dwivedi, S., Karthick, M., Das, A., Mahapatra, T., Chaudhuri, I., Boelaert, M. C., Medley, G. F., Srikantiah, S., Hollingsworth, T. D. & de Vlas, S. J., 2017, In: Epidemics. 18, blz. 67-80 14 blz.

Health seeking behavior of patients in Muzaffarpur-TMRC HDSS may hinder Kala-azar elimination in Bihar, India

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Leprosy on Anjouan (Comoros): persistent hyper-endemicity despite decades of solid control efforts

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Quality assurance of active screening for Human African Trypanosomiasis elimination in the Democratic Republic of the Congo

Claeys, Y., Lutumba, P., Mpanya, A., Hasker, E., Buescher, P., Da Luz, R. I., Snijders, R., Boelaert, M. & Lumbala, C., 2017, blz. 238-238. 1 blz.

Risk factors associated with defaulting from visceral leishmaniasis treatment: analysis under routine programme conditions in Bihar, India

Kansal, S., Chakravarty, J., Kumar, A., Malaviya, P., Boelaert, M., Hasker, E., Ostyn, B. & Sundar, S., 2017, In: Tropical Medicine and International Health. 22, 8, blz. 1037-1042 6 blz.

Schistosomiasis and soil-transmitted helminths prevalence in school-aged children and opportunities for integration of control in health services in Kwilu province, Democratic Republic of the Congo

da Luz, R. I., Linsuke, S., Lutumba, P., Hasker, E. & Boelaert, M., 2017, In: Tropical Medicine and International Health. 22, blz. 243-244 2 blz.

The development of an application for digital recording of DITECT-HAT study participant data, including macroscopic and microscopic images

Buscher, P., Hasker, E. & Lejon, V., 2017, In: Tropical Medicine and International Health. 22, blz. 235-235 1 blz.

Elimination of visceral leishmaniasis on the Indian subcontinent

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Feasibility of eliminating visceral leishmaniasis from the Indian subcontinent: explorations with a set of deterministic age-structured transmission models

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Forecasting human African trypanosomiasis prevalences from population screening data using continuous time models
de Vries, H., Wagelmans, A. P. M., Hasker, E., Lumbala, C., Lutumba, P., de Vlas, S. J. & van de Klundert, J., 2016, In: PLoS Computational Biology. 12, 9, 23 blz., 1005103.

Integration of diagnosis and treatment of sleeping sickness in primary healthcare facilities in the Democratic Republic of the Congo

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1/08/17 → 31/03/23

Epco Hasker graduated as a medical doctor from Erasmus University in Rotterdam, the Netherlands, and studied tropical medicine at the Institute of Tropical Medicine (ITM) in Antwerp, Belgium. From 1993 till 2001 he worked in leprosy and tuberculosis control programs in Nigeria and Afghanistan/Pakistan. In 2001 he returned to ITM and obtained an MSc in 'Disease Control' in 2002. After obtaining his MSc he returned to tuberculosis control; for 6 years he worked in countries of the former Soviet Union (Ukraine, Uzbekistan, Tajikistan, Turkmenistan, Kyrgyzstan, Kazakhstan).