

**SELENE ROSIO MANGA, MD**

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### **Summary of Qualifications**

Latin American epidemiologist, scientist researcher expert on TB control and prevention, TB networks member with twenty-two years' experience as a Medical Doctor, specialising in:

- TB guidelines and booklet advisor
- TB epidemiology research
- Managing TB clinical trials
- Leading TB operational and clinical trials based on scientific literature, for a number of UN organization, humanitarian organizations in Latin America and Africa
- Study, design, and evaluation of data resources with the aim of investigating the related operational research for MDTB.

Expert on quantitative and qualitative health data analysis and statistical inference using standard statistical software packages such as Excel, Fox Pro, Stata v10 and SPSS v10

- Specialist in databases, in their integration, analysis and statistical risk assessment
  - Using historical clinical trial data, external databases and overall meta-analysis.

Experienced epidemiologist focusing on TB and other mycobacteria & leprosy,

- Involving their operational research, surveillance, prevention, control and treatment
- Specialising in TB metaanalysis for developing countries.

Expert on planning, evaluating, monitoring and managing programs for HIV, TB, MDRT , XDRTB and pre XDRTB. As well as coinfection HVC, HVB. For governmental purposes, in addition to being funded by international organisations.

Award winner for the:

- 10<sup>o</sup> Vaccine Renaissance Award (Institute of Immunology and Informatics University of Rhode Island, October 2016) as special recognition for my research on the ID immunology paper.
- XII Peru's Medicine Research National Award in 1992 by inventing a new Oral Solution based on Chenopodium quinoa (an Andean cereal) for rehydration during Peru's chorea outbreak.

Extensive experience in Tuberculosis operational research projects and managing public health programs like:

- The elimination of Infectious Diseases for the United States' Agency for International Development (USAID) in Africa and Latin America
- I have performed similar work for the Pan-American Health Organization, World Health Organization, Peru's Ministry of Health, Non-Governmental Organisations and others.

I provide epidemiological and/or statistical consulting and support to product teams, and disseminate technical information through technical reports, presentations and publications in peer-reviewed literature as collaboration and with agreement from the whole team. Some of my tasks are:

- Designing, executing and evaluating complex TB control programs on complex scenarios
- Responsibility for translating the epidemiological data into understandable public health policies.

Extensive experience as an Operations Manager, involving designing, evaluating and supervising field teams.

Many years' experience on guiding strategic aspects of TB research, including:

- XDRTB outbreak control
- Providing guidance to team management on emergency and complex scenarios , outbreak response
- Being an expert reviewer for a number of journals
- Developing research protocols and policies to control spread of MDRTB epidemic
- Implementing operational Research in the field
- Evaluating, monitoring and advising on editorial support for publications, policy briefs, and booklets for policy makers.

Program Associate researcher, World Health Organization Program for Patient Safety Evaluation. Johns Hopkins School of Medicine, Department of Anaesthesiology and Critical Care Medicine, Quality and Safety Research Group (QSRG).

Many years' experience implementing operational research guidelines for organisations from the World Health Organization, the U.S. Centers for Disease Control (CDC) and other international health organisations for handling communicable diseases.

Author and researcher for numerous papers and studies presented at international public health conferences in the United States, Canada, Switzerland, the Netherlands, Cuba and other nations.

Associate Professor and Researcher at Public Health and Preventive Medicine Department San Marcos National University.

### **Selected Professional Experience**

#### **Operational Researcher for TB programs /Senior Epidemiologist, Medicines Sans Frontiers (Ukrainian Mission)**

**August 2017 - Present**

Supporting the Mission Coordination and epidemiologist advisor with the following:

- Development of operational research and primary documentation for conducting a database of operational, monitoring and analysis of patient's routine data
- Primary and secondary outcome analysis for the operational research project
- Monitoring and completion of the primary documentation from the field research team within the framework of the observational research
  - throughout the mission, management and assessment of the operational research database and its potential to produce quality evidence to develop the capacity for specific analyses and review
  - In order to capitalise on the Dnepro project documentation and finally, the orientation for the closure of the project.

#### **Medical Officer, World Bank Monetary International Fund**

**May - October 2015**

Served as Leader organising epidemiology / health services for the recent World Bank / International Monetary Fund (WB/IMF) Annual Meeting in October 2015 (in Lima, Peru). (I received recognition as a proficient leader from this, from the WB/IMF.)

#### **Research Manager, Inter-American Development Bank (IADB)**

**April 2015 - June 2016**

Team Leader / IADB Technical Assistance Group for the Health / Education Sector, for the Interventionist program (an IADB project). Evaluated and designed the annual plan for addressing diseases, supervised the operations of subcontractors and consultants and designed strategies to achieve project goals.

**Researcher / Supervisor, USAID Operational Projects:****August 2010 - July 2017**

- Millennium Challenge Corporation Strategies Improving Vaccination Coverage's in Peru's Threshold Peru (2010) and Abt Associates Inc. (a USAID Contractor - Health Project in Peru)
- Calidad en Salud USAID funded project to improve quality of public health services in Peru.

**Team Leader, Health Alliance International (HAI), Mozambique****August 2010 - October 2010**

- Team Leader / USAID Technical Assistance Group for the Health Sector (an HAI project).
- Manager of HAI, funded by the United States Agency for International Development.
- Responsible for managing the project for Manica and Sofala provinces.
- Evaluated and designed the annual plan for addressing diseases, supervised the operations of subcontractors and consultants, and designed strategies to achieve project goals.

**Deputy Director, National Hospital, Cayetano Heredia Ministry of Health****December 2010 - June 2011**

Manager of a 415-bed public hospital and responsible for the financial, human resource, planning and development of innovative projects. Designer of strategies that achieved the hospital's goals.

**Infectious Disease Team Leader, USAID Technical Assistance Group****June 2008 - Dec. 2009**

Manager for the Infectious Diseases Team, a Health Project funded by the United States Agency for International Development. Evaluated and designed the group's annual plan for addressing infectious diseases, supervised the operations of subcontractors and consultants, and designed strategies to achieve project goals.

**Deputy Director, San Felipe Clinic, Lima, Peru****Nov. 2005 - Aug. 2008**

Executive Director of medical staff and management of finances, at one of Peru's major private health providers.

**Research advisor, National Eye Institute, Lima, Peru****Jan. 2007 - Aug. 2008**

Advisor and researcher for a leading national eye research and treatment centre.

**Advisor, National Vaccine Strategy, Ministry of Health, Lima, Peru****Jan. 2005-present.**

Contributed research and expertise to a number of vaccination programs and disease-control projects for Peru's Ministry of Health.

**Principal Researcher, National program of Tuberculosis Control Ministry of Health, Cusco, Peru****Jan. 2007-present**

Contributed research and expertise to a number of TB control research projects, programs and TB-control projects for Peru's Ministry of Health.

**Epidemiology National Manager, Peruvian Social Security****1999-2005**

Chief research design strategist and manager of the Office of Epidemiological Research at the national hospital for Peru's Social Security Institute, 2003-2005.

General Manager of the Office of Epidemiology for Peru's Social Security Institute, 2002-2005, led a 380-person national network of epidemiologists with responsibility for identifying critical health problems, establishing policy priorities, developing budgets for investments in public health programs and conducting cost-benefit analysis of health strategies.

**Manager, Maternal and Child Health USAID project/ Centro de la Mujer Peruana Flora Tristan****1996-1999**

Directed team that implemented the maternal and childhood health project (funded by the United States Agency for International Development and INCAFAM), a project supported by USAID dedicated to reducing maternal and new born children mortality.

Evaluated and designed the project's plan for addressing infectious diseases, supervised the operations of subcontractors and consultants and designed strategies to achieve project goals.

**Manager, Cholera Control Program/Ministry of Health of Peru****1995-1996**

Led Cholera Control Team for the national health ministry's Office of Epidemiology. Served as liaison with for the Pan-American Institute of Animal Control and Food-borne Diseases of the Pan-American Health Organization. Manager of program of surveillance and control of food-borne diseases.



**Education:**

**Master's Degree in Vaccinology/** Geneve University, Annecy France **2009**

**Master's Degree in Epidemiology/** San Marcos University, Lima, Peru **2003**

**Doctor of Medicine/** San Augustine University, Arequipa, Peru **1991**

**Other Training Courses**

August 2017

**Argentinian Association for Respiratory Medicine AAMR**

Course for Experts on Lung Infections, Buenos Aires August 2017

April 30-May 13, 2017

**World Health Organization** Sondalo Course on the implementation of the WHO End TB strategy for TB control, Cepina, Italy

**August 30-December 13, 2015**

**Research on Molecular Epidemiology and Genetics for the Developing World Life Medical centre CHAUM, South Korea**

March - May 2013.

**Virology Post graduate Merieux Foundation Annecy France February 2013**

September 2012

**European Society of Respiratory Diseases:** Attended IX European Congress Vienna Austria

July 2011

**Pedro Kouri Institute of Tropical Diseases and public Health La Habana Cuba:** Advanced course in Dengue and Dengue control **WHO supported:** Presenter at the XX Advanced course.

July 2008

**World Bank:** Selected as a participant in seminar on accelerating progress toward meeting the Millennium Development Goals, Washington, DC.

May 2007

**World Bank:** Participant in seminar: "Reaching the poor with effective health, nutrition and population services: What works, what doesn't, and why?" Washington, DC.

June 2004

**World Bank, Pan-American Health Organization, World Health Organization and U.S. Census Bureau:** Attended workshop on "Improving the measurement of Poverty," Washington, DC.

May 2003

**Johns Hopkins University Bloomberg School of Public Health:** Participated in Graduate Summer Institute of Epidemiology, a four-week, post-graduate training program in health policy and management, Baltimore, MD.

**Korean International Cooperation Agency:** Participant in a six-week training course in health management focusing on health insurance systems, managing of health system and financing health reform, Seoul, South Korea.

January 2002

**Johns Hopkins University Bloomberg School of Public Health:** Attended Graduate Winter Institute of Epidemiology, a two-week, post-graduate training program in data analysis using STATA version 7, Baltimore, MD.

**Johns Hopkins University Bloomberg School of Public Health:** Attended Graduate Winter Institute of Epidemiology, three-month, post-graduate training in epidemiology and biostatistics, Baltimore, MD.

July 2001

**College of Public Health, University of South Florida, Pan-American Health Organization, World Health Organization:** Attended Intermediate Summer Session in Epidemiology, Tampa, FL.

**Selected Publications**

Golletti D, **Manga S.**, Managing latent tuberculosis infection and tuberculosis in children.  
<https://www.ncbi.nlm.nih.gov/pubmed/29502937>

Sergey E., **Manga S.**, Outcomes of drug-resistant TB cases undergoing bedaquiline (BQ)-treatment and adjunctive surgery, selected for Oral presentation on ERS Congress September 2018 Paris, is attached. Manga S, et al Effectiveness and safety of bedaquiline-containing regimens in the treatment of multidrug and extensively drug-resistant tuberculosis: a multicentre study. European Respiratory Society Journal February 23, 2017 ERJ-00387-2017

**Manga S.**, Performance of a lateral flow immunochromatography test for the rapid diagnosis of active tuberculosis in a large multicentre study in areas with different clinical settings and tuberculosis exposure levels. Journal of Thoracic diseases; Vol.8, No.11, December 2016 <http://jtd.amegroups.com/issue/view/205>

**Manga S.**, "Epidemiología de los eventos adversos en cirugía en el Perú" Revista El Acto Medico del Colegio Medico del Perú, pp 2-5 Vol. 2 mayo 2011.

**Manga S.**, "Clinical trial: Use of Dialyzed Protein Pure for Earliest Detection of Lung Tuberculosis on health personnel" Abstract book of X advanced Course on Vaccinology, May 2009, Foundation Merieux France, Annency.

**Manga S.**, "Peruvian experience reducing cost of health care," XII Canadian Conference on International Health, Oct. 2008.

**Manga S.**, "Predictable Dengue Model," *Journal of Abstracts of the XX International Dengue Course*, July 2007.

**Manga S.**, "Influenza Hospital Outbreak Study," *Journal of Hospital Infection*, Vol. 64 Supp., Oct. 1, 2006.

Speelman E., Checkley W., Gilman R.H., Patz J.A., Calderon M., Manga S., "El Niño and Cholera Surveillance," *Journal of the American Medical Association*, 2000; 283: 3072-3073.

#### **Language Skills**

Spanish: Fluent.

English: Nearly fluent.

Portuguese: Fluent.

French: Fluent.

Quechuan: Fluent

#### **References**

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##### ***Dr. Alejandro Llanos Cuentas***

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