Global Clinical Engineering Success Stories

Submitted by

Name: ROSSANA RIVAS, Founder & Executive Director, LUIS VILCAHUAMÁN, Founder & Director.
Affiliation: Pontifical Catholic University of Peru.
National association: Asociación Peruana de Ingeniería Biomédica-APBIO
Location: Perú.
E-mail address for contact: rivasperupucp@gmail.com
Country Estimates in Brief

<table>
<thead>
<tr>
<th>Population</th>
<th>30,814,175</th>
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</thead>
<tbody>
<tr>
<td>Population Growth Rate</td>
<td>1.5%</td>
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<tr>
<td>Life Expectancy at Birth</td>
<td>74 years</td>
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<tr>
<td>Infant Mortality Rate</td>
<td>6/1,000</td>
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<tr>
<td>Number of Health Centers in Country*</td>
<td>7,288</td>
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<tr>
<td>Total Expenditure on Health as % of GDP</td>
<td>3%</td>
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(*) Since 2013, some private offices of physicians are considered by MoH as health facilities.
Country's Health Technology Program

Key Success Story

Implementation of:

• The first 2 Health Technology Transfer International Workshops aimed to the 24 regional directions of state public health organizations: NIH and MoH; researchers, managers, chiefs of services, engineers and other members of health staff who were trained and discussed contents and experiences. The objective was to strengthen policy, regulatory & research and to assure the safe and rational use of health technology through HTM & HTP. The activity was led by CENGETS, with the collaboration of WHO/PAHO, IUPESM and the University of Vermont.

• The first Health Technology Management & Planning and Health Technology Transfer Course to develop capacities of 45 participants of NIH. The objective was to strengthen and Develop research and operational capabilities at NIH about Policy, Regulation, plans and programs related to Health Technology Transfer. The course was in charge of PUCP Biomedical Engineering Master Program, CENGETS PUCP with the collaboration of Tobey Clark (UVM-WHO/PAHO), Alexandre Lemgruber (PAHO) and Tom Judd (WHO/PAHO).
Country's Health Technology Program

Key Success Story

After 3 public investments on health infrastructure and sustained budget focused on HT acquisitions, MoH realized the pertinence of the implementation of procedures, norms and programs to enhance human resources trained adequately. The 3 actions stated were supported by NIH and MoH.

Since the implementation of the activities by CENGETS the following are the achievements:

1. **Promotion, contribution and strengthen NIH and MoH planning according to Peruvian Law to Improve Health Care through HTM & HTP and Development and Transfer of Technology in Health Sector.** References: 1st Health Technology Transfer for Peruvian Health Sector-May 12-14/2015 International Workshop; 1st HTM & HTP and Health Technology Transfer Nov.17-Dec.15/2015 Course for NIH.

2. **Strengthen and development of policies and operational capabilities at NIH and MoH: Human Resources Development Policy, Regulation, plans and programs related to HTM & HTP and Health Technology Transfer in Health Sector.** References: 1st Health Technology Transfer for Peruvian Health Sector-May 12-14/2015 International Workshop; 1st HTM & HTP and Health Technology Transfer Nov. 17-Dec.15, 2015 Course for NIH.

3. **Strengthen the proposal and policy, regulatory and research at NIH and MoH related to the effects of exposure to heavy metals in children and pregnant women.** Reference: 1st Health Technology Transfer for Epidemiology Research and Public Health in Heavy Metals-May 6-8/2015. International Workshop.
Conclusions and Action Plan

1st HT Transfer for Peruvian Health Sector-May 12-14/2015 International Workshop:

- **Formulation of clear and comprehensive policies in: health innovation, htm & htp and health technology transfer in Peruvian health sector**: Six HT Policy Guidelines were improved with the participation of the board: MoH, NIH, CENGETS and the Univ. of Vermont: Professors Barry Finette, Tobey Clark, Asim Zia.

- **Improvement of capacities for the Implementation of Health Technology Transfer Offices in Peruvian health sector**: Health staff in charge of research, management and policy development of the institutions and agencies of MoH, Departments of Health and Regional governments, Universities, Research institutes, Technological centers and companies and other institutions engaged in research and development and health technological innovation were trained.

1st HT Transfer for Epidemiology Research and Public Health in Heavy Metals-May 6-8/2015 International Workshop:

- **Publication on NIH Scientific Review of an Article with Topics and Findings of the International Workshop**: Led by NIH, CENGETS and Professor Herbert Voigt to be promoted in Latin and Center America.

- **Applied Research of Development of Devices for Infection Detection**: Led by NIH, BE Master Program, CENGETS and Professor Herbert Voigt, with the contribution of Dr. Cesar Cabezas, former NIH’s Director.

1st HTM & HTP and HT Transfer Nov.17-Dec.15/2015-PUCP BE Master Program and CENGETS Course for NIH:

- **13 Proposals developed for applied research based on the topics of the course**: NIH leads the continuation of the activities led by PUCP BE Master Program and CENGETS.

Joint Biomedical Engineering Undergraduate Program: The 2 top Peruvian leaders in the Academia: Pontifical Catholic University of Peru-PUCP-Engineering and Univ. Peruana Cayetano Heredia-UPCH-Medicine are engaged on the creation of BEUndergraduate Program. CENGETS is member of the board, Hebert Voigt and Tobey Clark are sustained collaborators. In other side, PUCP BE Master Program, UPCH Medicine School and CENGETS lead currently the 2nd HTM & Clinical Engineering PUCP-UPCH Joint Diplome, the 1st one finished with a relevant international training in Mexico at CENETEC.