



UNESCO - Fondation des Territoires de Demain

# Innovation et prospective

Séminaire de la Fondation des Territoires de Demain

Programme international 2040

Le 11 mars de 10h à 12h30 et de 15h à 17h30 - Unesco, Paris

## Prof. Thais Russomano, MD, PhD

Coordinator of the Microgravity Centre - PUCRS



[www.pucrs.br/feng/microg/](http://www.pucrs.br/feng/microg/)



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# Abstract

## Microgravity Centre - Telemedicine and eHealth Projects

The work that has been developed at the Telemedicine Laboratory (Microgravity Centre-FENG/PUCRS) has three main objectives:

- **Research**
- **Assistance**
- **Education**

# Research

Virtual meetings, secure information exchange systems and low cost telecommunication technologies have enabled health professionals, located in different parts of a region, country or even the world, to become involved in case discussions and to give expert opinion. The use of these combined technologies for the enhancement of research activities has resulted in the ability to conduct eResearch. The PUCRS eResearch project aims at fostering greater national and international multi-disciplinary collaboration, having already performed live surgery transmission for discussion at a medical congress, and live data and image transmission of a physiological experiment to international partners.

# Assistance

The health assistance projects in the Brazilian Amazon Region are an example of the improvements in health service that can be provided by the use of Telemedicine in such isolated areas. The aim is to make available specialized medical assistance to remote urban communities and Indian tribes using telecommunication systems, software development, mobile technologies and biomedical engineering.

# Education

The multipoint health education program was established in collaboration with PUCRS, TEMOS, the Faculty of Medicine at the RWTH Aachen University and its AVMZ (Germany), the Medical University of Warsaw (Poland) and the Medical University of Kaunas (Lithuania). The objectives are (1) to stimulate the interest of under-graduate students to different cultural and social realities and to enable the exchange of health knowledge through videoconferences; (2) to develop virtual medical education tools.