



**St. Paul University Philippines**  
TUGUEGARAO CITY, CAGAYAN 3500

in partnership with  
**COMMISSION ON HIGHER EDUCATION**



# *4<sup>th</sup>* SPUP **INTERNATIONAL HEALTH CONGRESS**

**“Health Care Technologies and  
Innovations in the 4<sup>th</sup> Industrial Revolution”**

DATE: DECEMBER 6-8, 2018 || VENUE: GLOBAL CENTER, SPUP

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## Foreword

The 4th industrial revolution in health care has evolved to be technology & innovations driven in terms of management and implementation of new systems in the workplace. New trends have emerged and continue to be emerging which now include, but not limited to, the use of artificial intelligence in assessing patient needs and in assisting health care providers in improving health care outcomes.

Emerging technologies in health care would lead to transformational changes in the health care landscape. Breakthroughs in cancer medication, non-invasive treatment of diseases, and the care of the aging population with the use of Artificial Intelligence can impact more and more aspects of the ever changing health care system.

As we look at the future, the 4th industrial revolution has the potential to be truly game changing for patients and health care providers in the areas of nursing care, disease management, aging and the discoveries and development of new health care innovations. Projects in clinical research and social data will deliver new health care solutions that will transform the health care system.

## Objectives

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The conference aims to:

- a. present 21st century trends and innovations in health care management to health care providers, health educators and enthusiasts;
- b. provide an environment for sharing of best practices in health care management and health education among health care providers and enthusiasts;
- c. deepen understanding and application of robotics, artificial intelligence, genomics, and technology-based non-invasive treatment of diseases; and
- d. conduct workshop on health care innovations in the ASEAN region.





## PROGRAMME

### Day 1: December 6, 2018 – Thursday

- 9:00AM – Signing of MOAs / MOUs with Indonesian schools
- 10:00-12:00 – REGISTRATION
- 1:30-2:00 PM – Opening Ceremonies  
Ecumenical Praise  
Entrance of Colors  
Philippine National Anthem  
Acknowledgment of Participants
- 2:00-2:30 PM – WELCOME REMARKS..... **SISTER MERCEDITAS O. ANG, SPC**  
University President
- HON. JEFFERSON SORIANO**  
Mayor, Tuguegarao City
- 2:30-3:30 PM – KEYNOTE ADDRESS:
- “New Technologies in Health Care & Innovations in the 4th Industrial Revolution”*  
**HON. ENRIQUE A. TAYAG, PHSAE, FPSMID, CESO III**  
Director IV, Knowledge Management and Information Technology Service  
Department of Health, Republic of the Philippines
- 3:30-4:15 PM – Plenary Talk 1:
- “New Technologies in Health Care to Promote Quality Life”*  
**DR. SUMIHARE NOJI**  
President, Tokushima University, Japan
- 4:15 – 4:30 PM – COFFEE BREAK
- 4:30-5:30 PM – Plenary Talk 2:
- “Big Data Analytics in Health Care”*  
**DR. CRISTOPHER P. MONTEROLA**  
Head, School of Innovation, Technology, and Entrepreneurship  
Executive Managing Director, ACCeSs@AIM  
Asian Institute of Management
- 5: 30 – 6:00 PM– AWARDING OF CERTIFICATES OF APPRECIATION & TOKENS  
PICTURE TAKING OF GUESTS WITH PARTICIPANTS
- 6:30 - 8:00 PM – WELCOME DINNER & NETWORKING





# 4th SPUP INTERNATIONAL HEALTH CONGRESS 2018

## DAY 2: December 7, 2018 – Friday

- 7:00-8:00 AM – Registration
- 8:00-8:15 AM – Opening Prayer
- 8:15-12:00 AM – Workshop Sessions (Concurrent)

- A. (Venue: Review Room 1; Global Center, 3rd Floor)  
*“Breakthroughs in Oncology Medicine, Research & Practice”*  
**KAZUYA KONDO, MD, PhD**  
Professor, Department of Oncological Medical Services, Graduate School of Biomedical Sciences, Tokushima University, Japan
- B. (Venue: Review Center 2; Global Center, 3rd Floor)  
*“Robotics, Artificial Intelligence & Health Care Transactive Relationship Theory of Nursing”*  
**TETSUYA TANIOKA, RN, PhD, FAAN**  
Professor of Nursing, Institute of Health Biosciences, Tokushima University, Japan

- 10:00 - 10:30 AM – COFFEE BREAK
- 12:30-1:30 PM – LUNCH
- 2:00-3:00 PM – CONCURRENT SESSIONS / RESEARCH PRESENTATIONS
- 3:00-3:30 PM – HEALTH BREAK
- 3:30-5:30 PM – CONCURRENT SESSIONS / RESEARCH PRESENTATIONS
- 5:30PM – Business Meeting with Tokushima University

## DAY 3: December 8, 2018 – Saturday

- 7:00-8:00 AM – REGISTRATION
- 8:00-8:15 – Opening Prayer
- 8:15-9:15 AM – Plenary Talk 3

*“Transforming Nursing, Impacting Human Health Today and Beyond:  
Technological Competency as Caring in Nursing”*

**ROZZANO C. LOCSIN, RN, PhD, FAAN**

Professor of Nursing, Tokushima University, Japan

- 9:15-10:30 – CONCURRENT SESSIONS / RESEARCH PRESENTATIONS
- 10:30-11:00 – COFFEE BREAK
- 11:00-12:00 – CLOSING CEREMONY

Message: *“4th Industrial Revolution: Challenges and Opportunities”*

**ATTY. LILY FREIDA M. MILLA, CESO IV**

Director III, International Affairs Staff, Commission on Higher Education, Manila

Synthesis

Group Picture-Taking & Distribution of Certificates

12:30 PM – LUNCH

1:30 PM onwards – LOCAL TOUR (OPTIONAL)



## Effects of E-Learning towards Nursing Students' Motivation

Nurlia Ikaningtyas

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Nursing education in the era of globalization requires innovation and creativity in learning methods. E-learning is expected to increase students' motivation with a variety of activities in learning. However, the effectiveness of e-learning methods to increase students' motivation in the Student Center Learning (SCL) learning system is still questionable. The purpose of this study was to determine the effectiveness of moodle cloud-based e-learning in improving the learning motivation of nursing students. This study used quasi experimental research design with post test non equivalent control group. The population in this study included students of Bethesda Yakkum Institute of Health Science during the academic year 2018-2019 who met the inclusion criteria. Statistical tests were carried out with a significance level of 95% ( $\alpha$ : 0.05). The test used independent T-test. After independent T-test was tested, it was found out that there was a significant difference between the control group and the intervention group with P value of 0.001. Thus, it can be deduced that E-learning can increase student motivation in learning because e-learning is student centered. SCL learning does not make students feel bored.

**Keywords:** *e-Learning, Moodle Cloud, Motivation*

## Quality Caring in Nursing: Applying Self Management for Patients with Diabetes Mellitus

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Diabetes Mellitus (DM) is a chronic disease characterized by blood glucose levels that exceeds the normal value. Indonesia is ranked fourth highest number of people with DM. There were four people with type 2 DM whom the author interviewed. Patients said there are no regular activities to control blood sugar in the Community Health Centre thus blood sugar is not controlled. This paper, thus, explored nursing and related sciences which are relevant to nursing knowledge development from the viewpoints of philosophies and theories of nursing especially self-management. Self management of DM patient is health education, diet planning, physical exercise, pharmacological intervention / treatment and control of blood sugar independently. To optimize the implementation of self management, support system from families, health workers / doctor, nurse, nutrition, community and health facility is of importance. The approaches are with "human science" and "human care" (Watson, 1985). Thus, the support systems can be facilitated by nurses.

**Keywords:** *Diabetes Mellitus, Quality Caring in Nursing, Self-Management, Support System*







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