



COLLOQUES &
CONFÉRENCES

The Role of Disruptive Innovation in Improving Quality of Care

27-29 avril 2022

Centre Scientifique de l'Académie Polonaise des Sciences à Paris

Malgorzata Chalupowski

The Copernicus Institute for the Arts, Sciences and Law of New England

The 4th International Conference on Quality in Medicine, Global Health and Law held on 27-29 of April 2022, was focused on exploring the Role of Disruptive Innovation in Improving Quality of Care. The meeting was organized in co-llaboration with the Copernicus Institute for the Arts, Sciences and Law of New England, the Kosciuszko Foundation in New York, the French Foundation for Management Education, and MEDYK Publishing House in Warsaw, Poland and the Polish Academy of Sciences – Scientific Center in Paris.

The goal of the annual meetings on quality in medicine, global health and law is to bring together health professionals such as clinicians, academics, system managers, public health and biotechnology experts – with or without prior quality management experience – in order to inspire an open dialog regarding the role of various concepts and ideas in improving quality of healthcare. A specific emphasis is always put on discussing and analyzing innovative health policies, which may be instrumental in the overall improvement of healthcare systems' performance and population health outcomes on a national, regional and global level.

The discipline of quality management plays an essential role in effective functioning of the healthcare organizations. The first formal initiatives in this field were undertaken in Western Europe, Japan and the United States in the early 1970s, inspired by the quality control methods used in the manufacturing industry. Nowadays, hundreds of governmental agencies, academic, business, non-profit, and community organizations around the world pursue research and implementation of various healthcare quality improvement programs.

The first healthcare quality management initiatives undertaken in Poland in the early 1990s by the Ministry of Health, resulted in the creation of the Polish Society for Quality Promotion in Healthcare in 1993, and in the establishment of the National Center for Quality Assessment in Healthcare in Krakow in 1994. The National Center provides an essential administrative infrastructure for the training and accreditation purposes in the field of healthcare quality monitoring in Poland. Nevertheless, an ongoing quest for excellence in education of healthcare professionals in various aspects of quality management is necessary. It can be effectively accomplished through long-term international and interprofessional collaboration encouraging the exchange of research results and ideas.

After a productive and inspiring Roundtable Meeting on Quality Improvement in Medicine held at the Polish Academy of Sciences Scientific Center in Paris in April 2018, the Second PAS Paris International Conference on Quality Improvement in Medicine, held in May 2019, was focused on the role of international collaboration in improving quality of care. The goal of the Third PAS Paris Conference on Quality in Medicine, Global Health and Law, held in June 2021, was to explore the role of interprofessional collaboration in improving quality of care in the time of pandemic.

The Fourth Conference in the series took place on 27-29 of April 2022, and explored the role of Disruptive Innovation in Improving Quality of Care. The invited speakers represented academia, corporate and governmental entities in Poland, France, the United States, as well as other countries in Europe, Africa, Asia, and the Americas.

The program consisted of the following lectures, panel discussions and workshops.

On Day One, the **Inaugural Lecture** on *Reimagining Disruptive Innovation in the Health Context*, given by David Somekh, the President of the European Health Futures Forum, was followed by **Panel One** focused on *Disruptive Innovation in Medical Education: From Biochemistry to Spirituality*. The Panelists were: Ewa Piacentile of University of Padova, Italy; Agnieszka Wozniewicz of Torun University, Bydgoszcz Collegium

Medicum, Poland; and Malgorzata Chalupowski of the Copernicus Institute for the Arts, Sciences and Law of New England.

The Panel discussion was followed by the **Interactive Lecture** on *The Future of Disruptive Innovation in Medical Research*, presented by professor Malgorzata Kujawska, of the Poznan University of Medical Sciences.

Following the lecture all speakers and guests were invited to participate in an **Open Forum** to discuss the Future of Disruptive Innovation in Medical Research and Practice of Medicine.

During **Panel Two** sponsored by the National Agency of Medical Research, Health Innovation Hub, Warsaw, Poland, and moderated by Karolina Maria Nowak, the Panelists – Robert Pociupany of Servier, Poland, Katarzyna Wojciechowska of VitalAir/Air Liquide, Poland, Muriel Doucet of Air Liquide Group, Paris, France; Agnieszka Grzybowska-Zalewska of Sanofi Genzyme, Poland; and Joanna Lis, Sanofi, Poland – discussed the role of disruptive innovation in effective business-academia collaboration.

Day One Keynote Presentation, entitled *Disruptive Collaboration: A Novel Approach to Address Some of the Most Complex Problems in Healthcare*, was given by Carter Dredge of SSM Health, St. Louis, Missouri, Cornell University, Ithaca, New York, and University of Cambridge, Judge Business School, UK.

The deliberations of Day One were concluded with the **Teleconference with the Honorary Guest** of the conference, Niek Klazinga of OECD Paris connecting from the University of Amsterdam. Dr. Klazinga, the Strategic Lead of the Health Care Quality and Outcomes Program at the OECD, Paris, in the early 1990s was the Lead Consultant working with the international team of experts advising the Polish Ministry of Health on the matters of Quality Improvement. Ever since, he has been a treasured colleague and a dear friend to many of the quality aficionados in Poland and beyond. The discussion during the Teleconference focused on *the Disruptive Nature of International Collaboration in Spreading Quality Improvement Culture*.

Day Two Keynote presentation on *Disruptive Policies for Life Sciences and Healthcare in the Global Health Framework* was given by professor Christine Huttin at Aix Marseille University, France.

The Panelists of **Panel Three** – Rosa Delgado, of IPv6 Forum Peru, and WHO Mobile Health Initiative, Geneva, Switzerland; Ngozi Ademili Aronu, University of Nigeria, Abuja, Katherine Sochacka of the Rhode Island Department of Health, Centers for Disease Control and Prevention, COVID Quarantine Station, Boston, MA, USA, and Justyna Malz, Public Health Advisor at the CDC, COVID Quarantine Station, Boston, MA, USA, discussed various aspects of *Disruptive Innovation in Global Health* in the context of the diverse challenges of the COVID pandemic.

The Panelists of **Panel Four** – Piera Poletti, of CEREF, IHI/BMJ International Forum on Quality and Safety, University of Padova, Italy; professor Rafal Nizankowski from the Jagiellonian University Medical School and the National Center for Quality Assessment in Healthcare, Krakow, Poland, and Basia Kutryba also of the National Center for Quality Assessment in Healthcare, Krakow, Poland, focused on various aspects of *Disruptive Innovation in Quality Management at National and International Levels*.

The afternoon of Day Two was devoted to exploring the disruptive innovation of music and music therapy in clinical research and practice. An **Interactive Workshop** on *Disruptive Innovation of Music & Movement Therapy in Clinical Practice* was presented by Anne Fillion, a music therapist with credentials from the the University of Montreal and Hartford Conservatory, Hartford, Connecticut, USA. The workshop was followed by a **Clinical Lecture** (with piano interludes) addressing *The Importance of Music to the Brain: Disruptive Therapies in Neuroscience*, presented by Dr. Samuel Markind, a lecturer at the New York Medical College, and the University of Vermont College of Medicine.

At the conclusion of Day Two, the participants heard two **Recorded Messages**.

First, on *Disruptive Innovation in Global Women's Health – Women and Innovation, and Women and e-Health Initiatives*, presented by Veronique Ines Thouvenot, of the Millennia 2025 Foundation, and the University of Medicine, Lyon, France.

The second Recorded Message on *Digital Health as Disruptive Innovation in Quality and Compliance*, was given by Emmanuelle Voisin, the Founder and CEO of the Voisin Consulting Life Sciences, Paris, France.

Day Three Keynote Lecture on *Disruptive Innovation in Alzheimer's disease modeling: ups, downs, and perspectives for human induced pluripotent stem cells*, was given by professor Urszula Wojda from the Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, Poland.

The program of the final **Panel Five** of the Conference, focused on *Disruptive Innovation in Biotechnology*, consisted of the following presentations given by the scientists representing several biotech companies in France and the United States. Fabienne Payen of LUMICKS, Paris, France, talked about *Disruptive Innovation in single-molecule and single-cell analysis: Z-Movi Novel cell avidity analyzer providing the next bio-maker for cancer*. Dariusz Sliwa of LUMICKS, Boston, USA, gave presentation on *Disruptive Innovation in single-molecule and single-cell analysis: C-Trap, Combined power of optical tweezers with fluorescence microscopy to understand the origin of disease*. Piotr Pierog, Drug Developer representing Precision and Translational Medicine Group, Cambridge, MA, USA, talked about *the Disruptive Innovation of Translating Cell and Gene Therapies into Clinical Trials*. Finally, Grzegorz Toporek, a graduate of the University of Bern, Switzerland, and a Scientist at the Philips Research North America, Cambridge, MA, USA, talked about the *Application of Modern Machine Learning for Scalable Medical Device Solutions*.

The Conference was concluded by the Organizing Committee Planning Meeting attended by the speakers, advisors and guests, and moderated by Malgorzata Chalupowski, Ela Pitman, and Piotr Pierog of the Copernicus Institute for the Arts Sciences and Law of New

England, Inc., with an input from an international group of Advisors, which included: Agnieszka Wozniewicz, Basia Kutryba, Daria Cock, and Izabella Pitman. The following topics were discussed:

1. Proposed theme for the 5th PAN Paris International Conference on Quality in Medicine, Global Health and Law in 2023: The Role of Effective Strategic Communication in Improving Quality of Care
2. Exploring the role of intergenerational dialog in improving quality of care
3. New strategies for collaboration and effective recruitment of French, France-based and Francophone speakers
4. Lessons learned from the 2022 edition of the PAN Paris Quality Conference

The organizers hope that the 2022 meeting brought all the participants closer to the overall goal of the annual PAN Paris Conferences on Quality in Medicine, Global Health and Law, which is to facilitate effective collaboration among healthcare organizations and academic centers in Poland, France, and other countries around the globe, and to inspire lasting professional friendships and fruitful cooperation among the participants, organizers, and sponsors of this event.

 **PROGRAMME**

Wednesday 27 April, 09:15 – 17:00

- 9:15 – 09:45 **Coffee & Registration**
- 09:45 – 10:00 **Welcoming remarks**
Magdalena Sajdak (Polish Academy of Sciences – Scientific Centre in Paris)
Małgorzata Chalupowski (Copernicus Institute for the arts, sciences and law of New England, inc.)
- 10:00 – 10:45 **Inaugural Lecture: Global Perspective**
David Somekh (European Health Futures Forum)
- 10:45 – 11:00 Q&A Session
- 11:00 – 11:45 **Panel 1: DI in Medical Education**
Ewa Piacentile (University of Padova)
Agnieszka Wozniewicz (Torun University/Bydgoszcz Collegium Medicum)
- 11.45 – 12.00 Q&A Session
- 13:30 – 14:00 **Lecture: The Future of Disruptive Innovation in Medical Research**
Malgorzata Kujawska (Poznan University of Medical Sciences)
- 14:00 – 14:15 Q&A Session
- 14:15 – 14:45 **Roundtable OECD**
Niek Klazinga (Organisation for Economic Co-operation and Development)
Michael van den Berg (Organisation for Economic Cooperation and Development)

14:45 – 15.15 Q&A Session

15.15 – 15.45 **Rountable: Warsaw Health Innovation Hub: The first Public-Private Cooperation in the Health Care System**

Karolina M.Nowak (PharmD, Medical Research Agency),

Joanna Lis (Sanofi Poland)

Agnieszka Grzybowska-Zalewska (Sanofi Poland)

Katarzyna Wojciechowska (VitalAire Polska)

Robert Pociupany (Servier Polska)

15.45 – 16.00 Q&A Session

16.00 – 16.30 **Day One Keynote: Disruptive Collaboration: A Novel Approach to Address Some of the Most Complex Problems in Healthcare**

Carter Dredge (SSM Health)

16.30 – 16.45 Q&A Session

16.45 – 17.00 **Day One Summary & Adjourn**

Thursday 28 April, 09:15 – 15:00

09:15 – 09:45 **Coffee & Registration**

09:45 – 10:00 **Day Two Introduction**

10:00 – 10:45 **Day Two Keynote: French Perspective**

Christine Huttin (Aix Marseille University)

10:45 – 11:00 Q&A Session

- 11:00 – 11:45 **Panel 2: DI in Global Health**
Katherine Sochacka (Center for Disease Control Boston)
Justyna Malz (Center for Disease Control Boston)
Ngozi Ademili Aronu (University of Nigeria)
Eunice Low (AP-HP International, EHESP)
Rosa Delgado (Disruptive Technologies Consultant)
- 11.45 – 12.00 Q&A Session
- 13:30 – 14:00 **Panel 3: DI in Quality & Compliance**
Tomasz Stefaniak (UM Gdansk)
Piera Poletti (University of Padova)
Rafal Nizankowski (Center of Quality Monitoring in Krakow)
Barbara Kutryba (Center of Quality Monitoring in Krakow)
- 14:00 – 14:15 Q&A Session
- 14:15 – 14:45 **Lecture: The Importance of Music to the Brain**
Samuel Markind (NY Medical College, University of Vermont College of Medicine)
- 14:45 – 15:00 Q&A Session
- 15.00 – 15.15 Day Two Summary & Adjourn

Friday 29 April 09:15 – 12:00

- 09:15 – 09:45 **Coffee & Registration**
- 09:45 – 10:00 **Day Three Introduction**

- 10:00 – 10:45 **Day Three Keynote: Polish Perspective**
Urszula Wojda (Institute of Experimental Biology,
Polish Academy of Sciences)
- 10:45 – 11:00 Q&A Session
- 11:00 – 11:45 **Panel 4: DI in Biotech – Clinical Sciences
and Preclinical Research**
Fabienne Payen (Lumicks)
Dariusz Sliwa (Lumicks)
Grzegorz Toporek (Philips Research)
Halina Kutaj (Center of Quality Monitoring in Krakow)
Piotr Pierog (Takeda)
- 11.45 – 12.00 Q&A Session
- 12.00 – 12.15 Conference Summary & Adjourn