

V Scientific and Training Conference "Innovative Medical Technologies – Meaning and Application": Conference Report

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**European Journal
of Medical Technologies**
2017; 3(16): 58-61

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www.medical-technologies.eu
Published online 31.10.2017

The 20th of October 2017 the V Scientific and Training Conference entitled "Innovative Medical Technologies – Meaning and Application" took place. The whole event was held in the Czartoryski Palace in Lublin. The conference's organizers were: The Laboratory of Diagnostic Techniques, Chair and Department of Nursing Management, Department of Public Health, Faculty of Health Sciences, Medical University of Lublin, Institute of Electrical Engineering and Electrical Engineering, Faculty of Electrical and Computer Engineering, Lublin University of Technology, International Scientific Association for the Support and Development of Medical Technologies. The honorary patronage of the Conference was taken over by the Prof. Andrzej Drop, rector of Medical University of Lublin.

The purpose of the conference was to present various aspects of using diagnostic techniques in the treatment process, mainly of infertility: both surgery and assisted reproduction techniques. The following topics were discussed: new technologies in diagnostics and therapy infertility, new medical technologies

in gynecology and obstetrics, contemporary challenges for public health, legal considerations in application of medical technology, applications of electrotechnology and informatics in medicine and environmental protection. The meeting attracted several dozen participants, including representatives of leading infertility treatment centers in Poland and abroad, among others: Prof. Małgorzata Jerzak, Prof. Jolanta Słowikowska-Hilczner, Prof. Jerzy Radwan, prof. Grzegorz Jakiel, Prof. Michał Radwan, dr. Tommy Tang – Consultant and specialist in reproductive medicine Regional Fertility Centre, Belfast, United Kingdom and representatives of the Center for Women's Health Protection in Lviv. Conference ended with the workshop entitled "Algorithms in diagnosis and treatment of infertility".

The conference launched the New Technologies for Infertility Treatment session, which began with the presentations of Prof. Grzegorz Jakiel entitled "The role of laparoscopy and hysteroscopy in the treatment of infertility" and "Dynamic AMH changes in natural and stimulated cycles and importance of

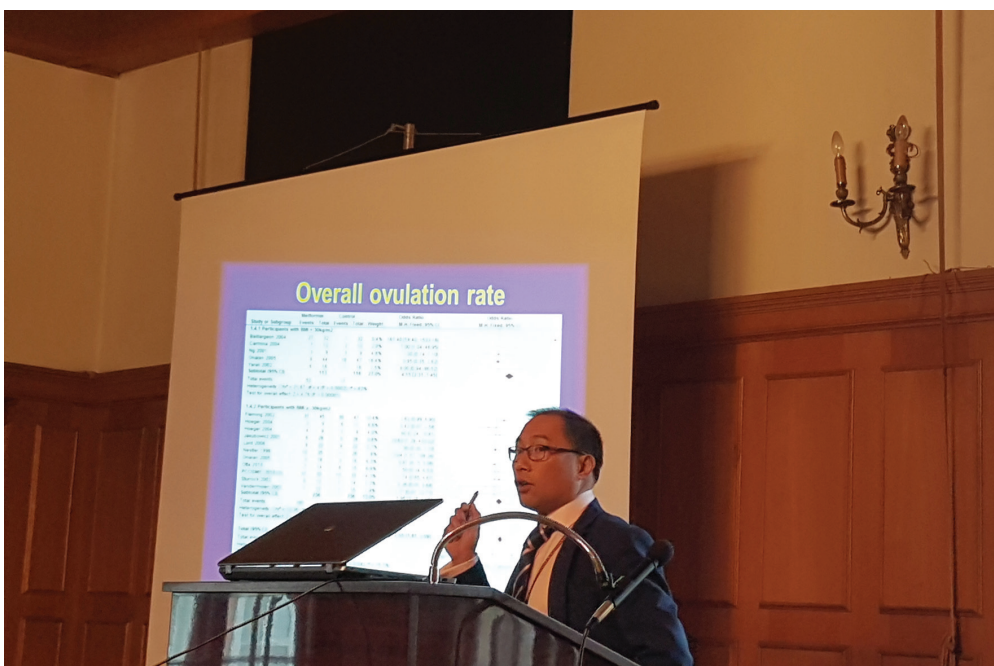
AMH difficulties in follicular fluid". He pointed out that laparoscopy is mainly used to verify fallopian tube occlusion or diagnosis and treatment of endometriosis, which is an important factor in female infertility. Determination of AMH level and assessment of its changes during pacing may have clinical relevance, in particular for: optimization stimulation based on the dynamics of changes at an early stage of this, the process of optimizing another patient's stimulation, decision-making on stimulation of oncological patients in the luteal phase after the collection of eggs. He drew attention that research is underway to evaluate clinical use AMH in follicular fluid. In the

same session, the presentation had dr. Tommy Tang from Belfast, UK. In his speech he delivered a very important lecture – the use of metformin in patients with PCOS. The last lecture in this session was "Immunological aspects of reproductive failure". The presentation was prepared by Prof. Małgorzata Jerzak, MD, PhD, from the Department of Gynecology and Oncology Gynecology WIM, Warsaw.

At 12:00 another session about infertility started. The session started with a speech by Prof. Jolanta Słowikowska-Hilczer from Andrology and Endocrinology Fertility Department, Medical University of Lodz. She presented a very interesting lecture on



Lecture hall with conference participants

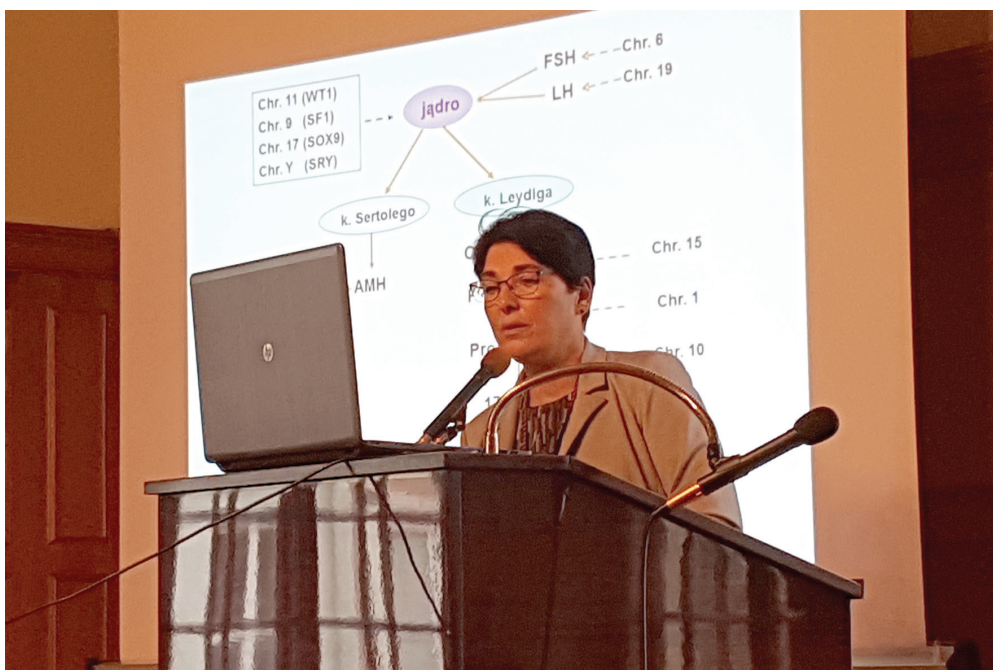


the algorithm of treatment in the case of male infertility. The next presentation was about the legal aspects of infertility treatment. Associate prof. Artur Wdowiak presented the latest legal regulations, the law concerning this problem in Poland. In this session lectures were also delivered by Piotr Szkodziak, PhD, Adrianna Kondracka, PhD, and Associate prof. Stanisław Horak from the Department of Obstetrics, Gynecology and Gynecological Oncology, Medical University of Silesia.

The next session started after a short lunch break. The topic concerned the recent medical technologies in gynecology and obstetrics.

During the conference, public health issues were raised. At 4 pm. one of the last sessions started, i.e. contemporary challenges of public health. The following issues were discussed during the lectures: obesity and overweight among children and adolescents, consumption of alcohol and the use of psychoactive substances by youth students, the use of mitochondrial medicine in medicine and many other interesting topics related to public health. The moderators of the session were: Prof. Teresa B. Kulik, Prof. Irena Maniecka-Bryła, Associate prof. Anna Pacian.

During the conference, there was also a legal session, which dealt with legal considerations in the



Prof. Jolanta Słowikowska-Hilczner presents the principles of male fertility diagnosis



Prof. Stanisław Horak speaks about heavy metals in follicular fluid

application of medical technologies. In addition, there was a session entitled "Applications of Electrical Engineering and Computer Science in Medicine and Environmental Protection".

This year, the organizers took care of students. They were given a separate session in which young people could demonstrate their knowledge and present their own research about the latest medical technologies.

The V Science and Training Conference "Days of Three Cultures in Medicine" finished with a poster session. Participants presented five posters which

dealt with the topic of law in medicine as well as the diagnostics techniques. After the meeting, in the evening, the participants took part in a banquet at the Europa Hotel in Lublin.

This year's 5th edition of the conference "Days of Three Cultures in Medicine" can be considered very interesting and organized at a high scientific level. It was visited by famous medical guests, who came not only from Poland, but also from abroad. There was a nice and familiar atmosphere. All the participants have come out richer with new experiences, information and guidelines.



Prof. Sławomir Woźniak during his lecture



Prof. Grzegorz Polak explains the principles of ovulation stimulation