Day 1

During the conference we were able to participate in the great lectures and also take part in the practical workshops. On the first day we had a chance to enlarge our knowledge in digital workflow in modern dentistry, by comparing the past, present and future possibilities. „The Art and Science of Dental Macro Photography” was a great summary and a guide all-what-you-need to start and improve your photography journey. Those two lectures were presented by very charismatic and passionate dentist from London - dr Simon Chart. After a small break lectures were continued by another great lecturer, straight from China - dr Yan Huang who was talking about „Peri-implant bone quality analyses by using 3D radiographic medical imaging”

International Conference on Dental Science and Practice was held on 13-14. April 2019 in Berlin, with the honorary patronage of Poznan University of Science and Polish Dental Society.
Stem cells - invaluable health insurance for the future

Initiator of the conference was CEO of Cellivia (Stem Cell Bank Company) - Zuzanna Stern. The founder of the company is mainly focused on building the long-term storage (freezing) of cells in the stem cell bank in Poznań, Poland.

„Stem cells from the oral cavity have a different potential than blood cells. Potential application of Dental Mesenchymal Stem Cells is aimed at the therapy of neurodegenerative diseases, nerve injuries, type I diabetes. They also play an important role in the regeneration of bones and soft tissues - they can be used for personalized bone reconstruction, cartilage and tendon therapies. Long-term stem cells isolated from human dental pulp constitute our invaluable health insurance for the future” - Cellivia

Dr Agustas Pivoriunas from Lithuania, raised the subject which showed us how extracellular vesicles can be a potent modulators of inflammatory response in PDL stem cells. The most controversial and surprising was definitely the lecture „Sinus lift elevation is modern dentistry’s dead science», by prof. Ioannis P. Georgakopoulos from Italy, who presented us new and ground-breaking method of performing this procedure; which might be revolutionary solution. At the end we had a chance to listen dr Philippe De Moyer, who talked about the „Innovative Surgical Guides” In the afternoon we could relax and integrate with the rest of the participants during the after party at the breathtaking & prestigious venue, where the whole conference took place.

Day II

On the second day, the stage was mostly taken by a great speaker and specialist-dr Kevin Kwiecien from USA, who was charring his broad knowledge about an interdisciplinary approach in airway in the restorative practice. He taught us also about how to plan and organize the occlusion before prepping via very well-documented cases. His last lecture was about how to build the team of your dream and how important is team-centration and integrative systems approach. Dr Bartosz Kempisty from Poland presented a fascinating lecture on „Dental stem cells- from lab bench to bedside” In his presentation, the newest findings from fields of bioengineering and molecular biology based on the results of stem cells isolated from a range of human organs and tissues and also animal model studies, were presented. During his practical workshop we gained more knowledge about human oral cavity stem cells.

Conclusions

The conference was just overwhelmingly impressive, with lots of new informations, solutions and possibilities. Nowadays dental stem cells have many benefits in dentistry, such a pulp revitalization, bone augmentation, PDL treatment or root apexification. Stem cells definitely hold a promise for the future! Lectures provided by leading practitioners were on the worldwide level and gave us a glimpse of the present and possible upcoming findings. The historic venue created a unique atmosphere for the event and the organization of the conference was work out to the finest detail. Me and also few more students, who was representing the International Association of the Dental Students, were honored to participate in this unforgettable conference. Cellivia - thank you for having us!

1. „Stem cells: past, present, and future” Wojciech Zakrzewski, Maciej Dobrzyński, Maria Szymonowicz & Zbigniew Rybak [1]