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**Master’s Degree Program**

**Division of Disaster and Radiation Medical Sciences**

**Report regarding to academic exchange trip and the course on Biostatistics**

**26 January - 1 February 2019**

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We, 2018 master course students of Disaster and Radiation Medical Science Division of Nagasaki University, within the framework of the academic cooperation with Russian University have had a pleasant opportunity to visit the North West State Medical University(NWSMU) named after M.Mechnikova in Saint-Petersburg and received series of lectures on “Biostatistics” that was delivered by prominent professor of NWSMU. These lectures have been considered as a required subject of our course and were respectively accrued and recognized credits. Since the academic trip was organized mutually with Fukushima Medical University, 2 more master students from Fukushima University joined us and have taken all lectures together.

This academic exchange program was designed for 6 days, from 26 January to 1 February and dedicated only on “Biostatistics”, delivered by Professor S.Plavinskiy. Lectures were comprehensive and relatively compacted with the aim to provide as much content as possible during limited period of time. Professor put his endeavor to explain all lectures in detail and tried to involve all students into the content of respective lecture through asking and doing extra explanations if he has noticed lack of understanding of topic among students. This comprehensive course on Biostatistics consisted of the following topics

1. Observation and Experimental design in health sciences. Statistical software. Introduction to R.
2. Descriptive statistics. Inferential statistics. Hypothesis testing and confidence intervals.
3. Z, t-test, Analysis of Variance. Linear Regression.
4. Table analysis. Chi-square. Fisher’s exact test. Logistic regression and long linear models.
5. Survival analysis. Robust statistics.
6. Complex survey design. Qualitative research methods. Text mining.

During the lectures we were asked to install free version of statistical software program and to do practices for acquiring and improving calculation abilities on it. Apart from the interactive lectures at class, professor used to assign home tasks every day after perspective lecture, what required us to do statistical calculations on the computer program and through this induced us to get more interest at what have been learnt.

During this course we were educated about the history of evolving of statistics, main concepts and principles of Biostatistics, key and core approaches and methodologies currently being used on the field of epidemiology. Some topics of lectures seemed as for advanced professional level, which sometimes has been relatively not easy to absorb.

I am sure that this academic exchange program was very useful and valuable for every participant of both sides, since it provides nice opportunity to get more diversified in many aspects and to see on things from different angle in terms of lectures, education, universities, even cultures and etc. This program, particularly for me, and also for everyone I hope, provided good chance to take a look at myself and reassess my abilities and my weak points. In result it allowed me to identify what need to be done and improved for my future studies and self-development.

Taking this opportunity, I would like to express my gratitude to all persons who have been involved in creation this collaboration and preparation the exchange program. I wish it will continue contributing and pushing further more students from both universities to expand their knowledge and range of vision as well and bring much greater mutual results.