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16th International
and 58th Polish Conference

JUVENES PRO MEDICINA 2020

**The Book of
ABSTRACTS**

Juvenes Pro Medicina 2020

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External Affairs Coordinators: Karolina Adamczyk, Joanna Forycka

Graphic Designer of JPM 2020: Natalia Siwecka
Keynote Lectures Organizing Team: Natalia Siwecka, Bartosz Lenda

Chief IT Officer: Jędrzej Chrzanowski
IT Support: Krzysztof Przysiał, Jan Przysiał, Artur Jaszczak

Organizing Committee:
Katarzyna Kwas, Jędrzej Chrzanowski, Oliwia Kwaśniewska, Aleksandra Łosiewicz,
Adrianna Cieślak, Filip Karuga, Jagienka Szulc, Natalia Siwecka, Katarzyna Zapart,
Aleksandra Zielińska, Bartosz Lenda, Aneta Basiak

Book Editors:
Editor-in-Chief: Jędrzej Chrzanowski, Katarzyna Kwas
Typesetting and Editorial: Katarzyna Zapart, Aleksandra Zielińska
Graphic Designer: Natalia Siwecka





Dear Colleagues,

on behalf of Students' Scientific Association at the Medical University of Lodz it is our pleasure to meet you at the 58th Polish and 16th International Conference Juvenes Pro Medicina 2020. This year, Juvenes Pro Medicina Conference for Students and Young Doctors brought together over 500 active participants, which is a remarkable success. This is of the utmost importance in the year of global SARS-CoV2 pandemic. Juvenes Pro Medicina was one of 3 International Medical Conferences which remained its planned date and only slightly altered the form of the Conference. Due to the common work of Organising Committee, International Affairs Team and IT Group, we were able to host the Juvenes Pro Medicina 2020 completely on-line, at the same time decreasing the price of the conference to the lowest level since 2000.

The 2020 edition of JPM is about to be the 16th international conference organized by the Students' Scientific Association. Each year, we are facing new challenges, which only motivates us to push ourselves to the limits. This year, despite the tense international restrictions, especially concerning the international travel, we were able to provide Keynote Lectures in greater scale than ever before, hosting 3 international guests. With your support, we have also reached over 900 submitted abstracts. As a result, we have opened 32 student sessions, during which young researchers presented their works! This also resulted in over 35% of international participants, which is the new high score for the Juvenes Pro Medicina conference!

The objective of our conference is to create an international, scientific event for young scientists, where they can share and present their best work. Juvenes Pro Medicina addresses the challenges and opportunities in different medical fields and brings together young students, scientists and doctors to exchange, debate and network. The conference is held in Łódź, Poland, the 3rd largest Polish city, and has its own unique industrial atmosphere. We have confidence you will find the conference stimulating and rewarding.

Katarzyna Kwas
President of JPM 2020 Conference

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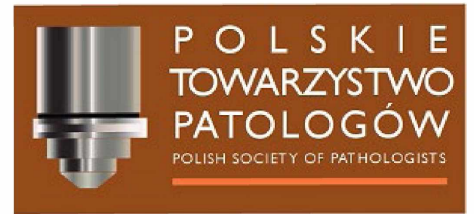
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THE SEVERITY OF RHABDOMYOSARCOMA, CASE REPORT

Author(s): Nguyen Do To Uyen, Bocharova Tetiana
Gulmurzoev Khusniddin
Kharkiv National Medical University, Ukraine
Presenting author: Nguyen Do To Uyen
Tutor(s): Irina Sorokina

Introduction: Rhabdomyosarcoma is a rare malignant tumor of striated muscles. This type of tumor is characterized by a high level of polymorphism. It mostly develops in children at an early age but it does also occur in adults. The common places for this tumor to grow are bladder, uterus, head and neck area.

Case report: This case report is about a 38-year-old patient who has been diagnosed clinically with neoplasm of ovaries and metastasis, secondary hypertrophy cardiomyopathy, cardiac insufficiency, pulmonary hypertension, hydropericardium and ascites. It was believed that the patient died because of an acute cardiovascular insufficiency at the time of this clinical diagnosis. After her death, we conducted an autopsy test and found out some macroscopic and microscopic features.

Macroscopic results: There was an accumulation of fluid in body cavities such as in pleural cavity - 300ml, in pericardium - 300 ml and in abdomen - 600ml. Size of the heart was 17x16x11cm. Mass of the heart was 750g. In the heart, there were a lot of hard, whitish nodes without clear borders and they spread to epicardium. The thickness of left ventricle was from 1 to 3cm. The left ovary was full of cysts which had the size of 6x5x4.5cm, thick capsules and were filled with a clear, yellowish fluid.

Microscopic results: Within myocardium and epicardium, there was a rhabdomyosarcoma with bundled and rounded cells. The patient also had an acute cardiovascular insufficiency which caused the accumulation of hemosiderin in internal organs leading to the condition of nutmeg liver, brown induration of spleen and kidneys. In addition, in her ovary, there was a simple benign cystadenoma.

We concluded the main diagnosis that the patient had a rhabdomyosarcoma consisting of a lot of bundled and rounded cells in the patient's heart. In addition, the tumor spread to the muscular layer of the entire myocardium and even penetrated into epicardium. The patient had developed some severe complication like a chronic cardiovascular insufficiency leading to the appearance of nutmeg liver, brown induration of spleen and kidneys. She also had hydropericardium, ascites and hydrothorax. Moreover, a mucous cystadenoma of the left ovary and leiomyoma of uterus that was reported to be her background disease was present but was not the main cause of the patient's tanatogenesis in general.

Conclusion: As I stated before, rhabdomyosarcoma is a very rare malignant tumor that is really difficult to be diagnosed. This case is designed to demonstrate the severity of rhabdomyosarcoma which develops in the patient's heart and affects other vital internal organs. It can cause an acute cardiac insufficiency and dysfunctions of liver, kidneys and spleen. As the result, this leads to the death of the patient.