



REVIEW

By Prof. Penka Peneva Stefanova – Peeva

Department of Pediatric Surgery

Medical University - Plovdiv

of the dissertation submitted for awarding the educational and scientific degree 'Doctor'
professional field Medicine

doctoral program Pediatric Surgery

Author: Dr. Dimitar Angelov Dachev

PhD form: Self-study.

Department: Propaedeutics of Surgical Diseases, Department of Pediatric Surgery

Subject: Vacuum-assisted technology for the treatment of wounds in children.

Supervisor: Assoc. Prof. Dr. Evgeniy Moshekov, MD

Head of the Department of Propaedeutics of Surgical Diseases

Assoc. Prof. Dr. Elean Zanzov, Ph.D.

Head of PVH Clinic

1. General presentation of the procedure and the doctoral student

The presented set of materials on paper / electronic media is / is not in accordance with Article 70 (1) of Section I. Acquisition of educational and scientific degree "DOCTOR" and scientific degree "DOCTOR OF SCIENCE" at MU-Plovdiv; Regulations of MU-Plovdiv from 28.01.2021 and includes the following documents:

- Application to the Rector of MU-Plovdiv for disclosure of the procedure for defense of the dissertation
- CV in European format with the signature of the doctoral student
- notarized copy of the diploma of higher education

- orders for enrollment in doctoral studies, interruption of studies (due to maternity) and for continuation of studies; for deductions with the right to protection
- an order for conducting an examination from the individual plan and a respective protocol for passing an exam or a doctoral minimum in the specialty
 - Minutes of the Department Council for preliminary discussion of the dissertation work and the decisions taken for opening the procedure and for the composition of the scientific jury
 - dissertation work
 - sentences
 - list of scientific publications on the topic of the dissertation
 - copies of scientific publications
 - list of participations in scientific forums
 - list of noticed citations
 - declaration of originality and authenticity of the attached documents
 - other documents related to the course of the procedure

There are four publications in Bulgarian journals and forums attached by the doctoral student Dr. Dimitar Angelov Dachev.

2. Brief biographical information about the PhD student

Dr. Dimitar Angelov Dachev was born on October 6, 1982 in the city of Plovdiv. He graduated in Medicine from the Thracian University in Stara Zagora in 2007. He started working as a specialist in 2009 at the Clinic of Pediatric Surgery at St. George University Hospital. In 2014 he acquired a degree in Pediatric Surgery. Since 2020 he has been a free doctoral student at the Department of Propaedeutics of Surgical Diseases, Department of Pediatric Surgery. He is a participant in a number of congresses and conferences in the country and abroad. He is a member of the Society of Pediatric Surgery, the European and World Society of Pediatric Surgery.

3. Relevance of the topic and expediency of the set goals and tasks

The topic of the presented dissertation is topical. This method is used to treat acute and chronic wounds in childhood. Guidelines for the treatment of wounds introduced into clinical practice specific to childhood are proposed. They aim to provide practitioners with an evidence base that they can use to make decisions about safe and effective choices when applying VAC therapy to treat wounds. This includes instructions on the values of the negative pressure, the type of regime in creating this pressure, the type and type of foam used in the wound bed, the type, size and location of the drain used to evacuate wound secretions, the frequency of changing the bandage. The guidelines reflect the level of knowledge about effective and appropriate wound therapy. They are the result of the conclusions made on the basis of the described clinical cases related to the use of vacuum-assisted therapy for the treatment of wounds in childhood.

4. Acquaintance with the issue at hand

The literature review presented by the doctoral student is 38 pages long, covering 17 scientific papers in Cyrillic and 111 scientific papers in Latin. The literature review is comprehensive and shows certain features in the treatment of various injuries. An analysis of the problems and opinions in the literature on the methods of treatment of acute and chronic wounds in childhood has been made. The historical development and the peculiarities of the method of vacuum-assisted therapy for wound healing are successively described.

5. Research methodology

The chosen research methodology is correct and sufficient.

The set GOAL is defined specifically and is clear.

The TASKS are precisely formulated and their solution fully supports the set goal.

An adequate answer to the tasks has been achieved, as the described results correspond to the solution of the tasks in the dissertation work of Dr. Dimitar Angelov Dachev.

6. Characteristics and evaluation of the thesis

Dr. Dimitar Angelov Dachev presented for review a dissertation, which was written in a volume of 127 typewritten pages with the following structure:

- Introduction - 1 page;

- Literary review - 38 pages;
- Aim and tasks -1 page;
- Clinical material - 5 pages;
- Methodology - 3 pages;
- Results - 51 pages;
- Discussion - 13 pages;
- Conclusion - 2 pages;
- Conclusions - 2 pages;
- Contributions - 1 page;
- Scientific papers related to the dissertation - 1 page;
- Bibliography - 9 pages;

The dissertation topic is well specified. It is illustrated as follows:

- 56 tables;
- 15 figures;
- 9 images;
- 1 scheme;

7. Contributions and significance of development for science and practice

In the dissertation work there is an in-depth content analysis of scientific and scientific-applied achievements. The main achievements are characterized. Scientific and / or scientific-applied contributions of the dissertation are available, as follows:

- formulation and justification of a new scientific problem (field);
- formulation and substantiation of a new theory (hypothesis);
- proving with new means significant new countries in existing scientific problems and theories;
- creation of new classifications, research methods, treatment schemes, etc .;
- obtaining and proving new facts;

- receipt of confirmatory facts;
- nature of the contributions for implementation: methods, preparations, schemes, etc.
- contributions and significance of the development for science and practice (what are the scientific and / or scientific-applied and applied contributions in the dissertation);
- implementation in practice;
- development perspectives;

8. Assessment of dissertation publications

Dr. Dimitar Angelov Dachev has presented four publications in Bulgarian journals - Journal of Surgery, Proceedings of the National Congress of Pediatric Surgery, Proceedings of the First Symposium "Spring Surgical Days".

9. Personal involvement of the doctoral student.

The dissertationist Dr. Dimitar Dachev personally conducted the research of the clinical material. The processing of the obtained results and contributions is his personal merit.

10. Sentences

The sentences are prepared according to the requirements of the relevant regulations and reflects the main results achieved in the dissertation.

11. Critical remarks and recommendations

The dissertation of Dr. Dimitar Dachev does not describe a control group of patients with wounds who were treated in the traditional way of medicine. A comparison of the different methods would further emphasize the benefits of vacuum-assisted therapy for the treatment of childhood wounds.

12. Personal impressions

I know Dr. Dimitar Dachev as a colleague in the Pediatric Surgery Clinic of the University Hospital "St. George" - Plovdiv. He is an ambitious and responsible surgeon. He has strived for new

knowledge in the field of medicine and pediatric surgery. Dr. Dimitar Dachev is an educated and attentive doctor, respected by his colleagues.

13. Recommendations for future use of dissertation contributions and results

The innovative method of wound healing proposed in the dissertation will be of great benefit to clinicians. It can be widely used in hospital surgical, pediatric and neonatology departments.

CONCLUSION

The dissertation contains scientific, scientific-applied and applied results, which represent an original contribution to science and meet all the requirements of the Academic Staff Development Act in the Republic of Bulgaria (LDASRB), Regulations of LDASRB and the Regulations of MU - Plovdiv. The presented materials and dissertation results fully with the specific requirements adopted in connection with the Regulations of MU - Plovdiv for application of LDASRB.

The dissertation shows that Dr. Dimitar Angelov Dachev has in-depth theoretical knowledge and professional skills in the field of Pediatric Surgery, demonstrating qualities and skills for independent research.

All of the above motivates me to give my positive assessment of the research, presented by the dissertation, abstract, results and contributions made and reviewed above. I would like to suggest to the Honorable scientific jury to award a **doctoral degree** to dr. Dimitar Angelov Dachev in the doctoral program in Pediatric Surgery.

09.05.2022 г.

Reviewer: 

Заличено на основание
Чл.5 §1, б. "В" Регламент (ЕС)2016/679