



THE UNIVERSITY OF
WESTERN AUSTRALIA

Achieve International Excellence

Peter Petros
Adjunct Professor
School of Mechanical and Chemical Engineering
35 Stirling Highway Crawley WA 6009
Phone: +61 8 6488 4703
Fax: +61 8 6488 8775

18th August 2019

THE REVIEW

of the Thesis Board member on the thesis of Shapovalova Ekaterina Andreevna on the topic: “Uterus-sparing vaginal mesh-based reconstruction of the pelvic floor for the anterior-apical prolapse (clinically-experimental research)” submitted for the degree of Candidate of Medical Sciences with specialization 14.01.01, Obstetrics and Gynecology.

This is a very extensive work in two parts. In the first part, Shapovalova addresses mechanical properties of the studied suture materials in vitro and using animal models, biomechanical properties of the myofascial flaps created with the use of studied suture materials. In the 2nd part she describes application of mesh sheets to prolapse repair and in a further study, the “Hybrid” technique. The findings of part 1 are relevant to part 2 as repair of the fascial parts of the prolapse repair are dependent on the suture holding the tissues together for sufficient time for the wound to heal and strengthen.

The literature reviews for the basic science animal studies and also, the clinical studies are very comprehensive and they provide a good platform for the experimental studies of the thesis.

I am well acquainted with wound repair as it formed an important part of my own Doctor of Surgery Thesis 25 years ago. The methodology of the animal studies is of a very high standard. In my view the animal studies alone would have been sufficient for a PhD *cum laude*.

The clinical work, uterus-saving surgery is a very important contribution to the science of pelvic floor. My long clinical experience as a pelvic floor surgeon endorses the conclusions that uterus saving is very important for women. In fact, scientific evidence is now accumulating that the patients who have had hysterectomy devel-

Box 09/2 - 436 DMZ 11.10.2019

op more symptoms, more prolapse and of a greater severity after the menopause than women whose uterus remains intact.

The thesis of Shapovalova Ekaterina Andreevna on the topic:“Uterus-sparing vaginal mesh-based reconstruction of the pelvic floor for the anterior-apical prolapse (clinically-experimental research)” meets the main requirements stated by the Order № 6821/1 dated September 01, 2016 “About the conferring of degrees in Saint-Petersburg State University”. Shapovalova Ekaterina Andreevna is recognized to confer the degree of Candidate of Medical Sciences with specialization 14.01.01, Obstetrics and Gynecology. Article 11 of the mentioned Order is not violated by the defender of thesis.

Thesis Board member



Professor Petros P.E. MD (Sydney University), DSc, DS (UWA), PhD (Uppsala)
FRCOG (London).

Sydney

Date 18th August 2019
