

Level: master				
Course title: INFERTILITY AND ASSISTED REPRODUCTION				
Status: obligatory				
ECTS: 5				
Requirements: -				
Learning objectives The learning objective is to introduce students to definitions, incidence, causes, diagnostics and treatment of infertility. Theoretical instruction offers students insight into contemporary approach to infertility problems which 15 -17% of couples in reproductive age face presently. All diagnostic and therapeutic procedures as well as all forms of assisted reproductive technologies which provide solutions to the problem- to give birth to offspring.				
Learning outcomes Upon successful completion of pre-examination and examination tasks, students can: understand contemporary and traditional approach to infertility treatment as well as their differences, understand and control all diagnostic procedures in infertility treatment; accept contemporary approach to treatment and understand hypotheses and variety in treatments with regard to infertility causes; understand that approach to the treatment is individual and adjusted to each couple; understand and control basic techniques of assisted reproduction as well as their prognostic criteria.				
Syllabus <i>Theoretical instruction</i> Infertility of a couple, definition, incidence, causes. Frequency of infertility and its significance in demography. Diagnostic tests. Hormone profile. Ovarian reserve. Folliculogenesis, monitoring and timing of the maturation of ovarian follicle in natural and stimulated cycle. Anovulation. Polycystic ovary syndrome (PCOS). Hyperprolactinemia. Endometriosis. Inflammatory diseases of upper and lower reproductive systems and their influence on reproduction. Possibilities and techniques of surgical correction of pathologies in female reproductive system. Extragenital reproductive system and its influence on reproduction. Assisted reproductive technologies and indication areas. Intrauterine insemination. In vitro fertilisation and its variations: IVF, ICSI, AHA, GIFT, ZIFT, TESA, MESA. Legal – ethical aspects of in vitro fertilisation: donor gametes, donor embryos, surrogate mother. <i>Practical instruction</i> Introduction to activities of the Centre for Human Reproduction. Introduction to work protocols, diagnostic procedures and therapeutic solutions. Contact with couples, consideration of the problem, and insight into medical documentation. Participation in applied diagnostic tests and reconsideration of the results. Participation in therapeutic schemes in treatment of certain conditions by individual approach to each couple. Introduction to keeping documentation in IVF.				
Weekly teaching load				Other:
Lectures: 3	Exercises: -	Other forms of teaching: 1	Student research: -	20