

Controlled Ovarian Stimulation with Urinary Gonadotrophins and Recombinant Gonadotrophins in Current Practice

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The main objective of the this study is to compare the effectiveness of ovarian stimulation with recombinant gonadotrophins (FSHr) versus urinary gonadotrophins (hMG) within the number of oocytes obtained and the number of embryos in the two patient groups, according to age groups and associated pathologies. The study design was retrospective, monocentric. All patients (71) who have addressed the In Vitro Fertilization Clinic of the Prof. Dr. Panait Sirbu Clinical Obstetrics and Gynecology Hospital during 01.01.2010 and 31.12.2010 were included in this research. The total number of oocytes (8.5 ± 3.9 vs 5.7 ± 3.9 , $p=0.045$), the number of fertilized oocytes (7.5 ± 3.6 versus 3.6 ± 2.8 $p=0.004$) and the number of embryos (6.6 ± 3.5 versus 3.7 ± 2.6 , $p=0.013$) were higher in women under 35 years of age treated with recombinant FSHr compared to women treated with urinary gonadotrophins hMG. Ovarian stimulation with recombinant gonadotrophins provides a greater number of oocytes and a greater number of embryos in all patients, regardless of age and associated pathology. There are many variables that can influence the success rate, but the first variable that can be controlled is the choice of FSHr in daily clinical practice.

Keywords: ovarian stimulation, gonadotrophins, embryos

Assisted Human Reproduction (ART) is a science that many practitioners compare with an art because the choice of stimulation protocols and drugs according to the particularity of each infertility case requires experience and a clinical sense, which are not found in standardized protocols. The therapeutic approach varies between clinics, and the choice of ovarian stimulation drugs often depends on the clinician's experience with a particular product, as well as the results previously obtained in similar cases. However, ovarian stimulation in IVF is extensively studied and improved, with the goal of obtaining standardized protocols to ease the work of clinicians and maximize the response to treatment in each population of patients.

Stimulation protocols differ through the initiation of stimulation and the drugs used for inhibition and stimulation. The main parameter that influences the clinician in choosing the ovarian stimulation protocol is patient's age. Age and ovarian reserve (assessed by AMH, serum anti Mullerian hormone or AFC - antral follicle count) cannot be changed [1-3] and are the only ones that provide an idea of the number of oocytes that could be harvested even before ovarian stimulation beginning. Starting from these two constants (age and ovarian reserve) that cannot be changed, each clinician chooses a stimulation protocol in favor of another, as well as the optimal dose of gonadotrophins for each patient [4-7].

Gonadotrophins have been used to treat infertility since the 1930's. The first preparations had animal origin, being followed by the appearance of human origin drugs (extracted from pituitary glands of human corpses). An important step forward was obtaining human menopausal gonadotrophins from the urine of postmenopausal women. Subsequently, highly purified urinary gonadotrophins produced by DNA technology appeared. Recombinant gonadotrophins are obtained by DNA technology using

culture on hamster ovarian tissue and are characterized by a high specificity and purity close to 100% [8,9].

Ovarian stimulation protocols and available medication

ART specialists may choose to use a gonadotropin releasing hormone (GnRH) agonist or a GnRH antagonist in order to suppress the LH (luteinizing hormone) peak. The treatment regimen may be started midway through the luteal phase, approximately one week after ovulation by administering a GnRH agonist, while gonadotropin stimulation may be started after confirmation of pituitary down regulation occurrence (long protocol) [10,11]. In case of short protocol, ovarian stimulation with gonadotrophins starts from day 2-3 of the menstrual cycle, and an agonist or GnRH antagonist can alternatively be used to prevent LH peak [12]. Substances used for stimulation are urinary or recombinant FSH, urinary or recombinant FSH and LH.

Until the appearance of GnRH antagonists, the long protocol was the most frequently used. Subsequently, because of the longer treatment duration, the higher doses of gonadotrophins required and the risk of hyperstimulation, the long protocol fell to second place in favor of the short GnRH antagonist protocol. Antagonist stimulation remains the first option for poor responders, primarily to avoid the suppressive effects that agonists have on follicular response and secondly to prevent premature LH peak, often seen in GnRH agonist alone stimulation [13].

Urinary hMG (human menopausal gonadotropin), derived from postmenopausal women's urine was for a long time the standard product used in controlled ovarian stimulation and ovulation induction. It contains both FSH (follicle stimulating hormone) and LH, but also other potentially biologically active urinary proteins. Some of the biological activity of LH in hMG is derived from hCG (human

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Gonadotropin-Releasing Hormone Receptor Signaling and Functions Ivana Bjelobaba,Stanko S. Stojilkovic,Zvi Naor,2018-05-10 This eBook provides a comprehensive overview of our current knowledge on Gonadotropin releasing hormone receptor evolution structure signaling and functions Apart from review articles it comprises exciting new research as well as hypotheses and perspectives all of which are valuable in guiding our further research in this field

Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Recent Progress in Hormone Research* C. Wayne Bardin,2013-09-11 Recent Progress in Hormone Research

Volume 47 covers the developments in the field of endocrinology and metabolism The book discusses the molecular mechanism of action of a steroid hormone receptor neuroendocrine control of human reproduction in the male and the immortalization of neuroendocrine cells by targeted oncogenesis The text also describes the neuroendocrine regulation of the luteinizing hormone releasing hormone pulse generator in the rat the gonadotropin releasing hormone pulses and steroids receptors and response elements The molecular biology of human renin and its gene the cellular and molecular analysis of pancreatic islet cell lineage and differentiation and sulfonylurea signal transduction are also considered The book further tackles the complex hormone response unit regulating transcription of the phosphoenolpyruvate carboxykinase gene and the structure and molecular regulation of mammalian glucose transporters Endocrinologists physiologists and biochemists will find the book invaluable Human Chorionic Gonadotropin (hCG) Laurence A. Cole, Stephen Andrew Butler, 2010-09-21

Human chorionic gonadotropin hCG is produced during pregnancy by the embryo It promotes progesterone production by corpus luteal cells It also functions in pregnancy to promote angiogenesis in uterine vasculature it immuno blands the invading placental tissue so it is not rejected by the maternal uterine tissues promotes the growth of the uterus in line with the growth of the fetus promotes the differentiation of growing cytotrophoblast cells promotes the quiescence of contractions in the uterine myometrium during the course of pregnancy and also has function in growth and development of fetal organs The book describes the detailed biology clinical chemistry and clinical perspectives of hCG and associated molecules and examines hCG hyperglycosylated hCG and hCG free subunit 3 separate and independent molecules with totally sovereign physiological functions It provides comprehensive information on hCG from basic science to clinical medicine Written by specialists in the field **Gonadotropin** Jorge Vizcarra, 2013-02-20 This is a must have book for those interested in reproduction It provides a full account of our current knowledge of the hormones intimately associated with testicular and ovarian function Each chapter is carefully organized to cover basic concepts and recent advances in gonadotropin synthesis and secretion The information is presented in a sequence that provides researchers teachers and students with a logical integration of the reproductive axis Practical applications associated with reproductive management of domestic species are also provided Taken together this book is a comprehensive combination of fundamental endocrine concepts and original findings in the area of gonadotropin function Pregnancy Proteins—Advances in Research and Application: 2012 Edition

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Trends in Drug Research II H. van der Goot,1998-01-16 This volume of Pharmacochimistry Library comprises the text of invited lectures presented at the 11th Noordwijkerhout Camerino Symposium Trends in Drug Research held in Noordwijkerhout The Netherlands from 11 15 May 1997 In the programme attention has been given to the generation of new biological target systems and the generation of new lead molecules with presentations on e g combinatorial chemistry compound libraries database search high throughput screening and molecular biology Other topics discussed were the perspectives for new medicines for the gastro intestinal tract the major developments in the search for effective anti HIV drugs and new aspects in synthetic approaches In a special session three topics which currently draw much attention were discussed How to deal with the major problem of resistance against antimicrobial agents Can the apoptosis mechanism be used as a drug target Is the newly observed phenomenon of inverse agonism a general principle and has it consequences for drug development and use

Current Research on Pre-clinical Aspects of Cancer Therapy Current Cancer Research Project Analysis Center (U.S.),1975 1038 references to research projects being conducted in the United States and elsewhere Entries arranged under 5 topics e g Preclinical studies of anticancer drugs Preclinical radiation therapy and Preclinical immunotherapy Entriesinclude title researcher address contract number summary and supporting agency Indexes by subjects investigators contractors supporting agencies and contractor numbers

Hormones and Reproduction of Vertebrates, Volume 1 David O. Norris,Kristin H. Lopez,2024-07-17 Hormones and Reproduction of Vertebrates Volume 1 Fishes is the first of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and

anatomy of fish reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on fishes Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to testicular and ovarian development and function Subsequent chapters examine hormones and reproduction of specific taxa including agnathan chondrichthyan and sarcopterygian fishes The book concludes with an examination of the environmental influences on hormones and reproduction of fishes including endocrine disrupting chemicals and climate change Hormones and Reproduction of Vertebrates Volume 1 Fishes is designed to provide a readable coordinated description of reproductive basics in fishes as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of ichthyology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior and anatomy of fish reproduction Includes pituitary pineal thyroid adrenal and gonadal hormones Focuses on teleosts as well as information on agnathan chondrichthyan and sarcopterygian fishes Provides new coverage on endocrine disrupting chemicals microplastics and climate change

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