

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

CLAUDIA MEHEDINTU¹, ELVIRA BRATILA¹, LACRAMIOARA AURELIA BRENDUSE^{1*}, MONICA MIHAELA CIRSTOIU¹, COSTIN BERCEANU², ALINA BORDEA^{2*}, DIANA ELENA COMANDASU³, ANDREEA CARP VELISCU³, OVIDIU BRATU³, CRISTIAN SAVAI³, ADRIAN GHEORGHE BUMBUI³

¹ Carol Davila University of Medicine and Pharmacy, 8 Eroul Sanitari Blvd., 050434, Bucharest, Romania

² University of Medicine and Pharmacy, 2 Petru Rareș St., 200349, Craiova, Romania

³ University of Oradea, Faculty of Medicine and Pharmacy, 10-1 Decembrie Sq., 410068, Oradea, Romania

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

* email: l.brenduse@yahoo.com, Phone: (+4) 0745003050;
alinaelenabordea@yahoo.com, Phone: (+4) 0722284908

All the authors have equal contribution at this paper.

Gonadotrophins Current Research

LL Leslie

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the slide.

Gonadotrophins Current Research:

Uncover the mysteries within is enigmatic creation, Discover the Intrigue in **Gonadotrophins Current Research** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

http://www.pet-memorial-markers.com/About/uploaded-files/Download_PDFS/greasepaint%20and%20gore%20the%20hammer%20monsters%20of%20roy%20ashton.pdf

Table of Contents Gonadotrophins Current Research

1. Understanding the eBook Gonadotrophins Current Research
 - The Rise of Digital Reading Gonadotrophins Current Research
 - Advantages of eBooks Over Traditional Books
2. Identifying Gonadotrophins Current Research
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gonadotrophins Current Research
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gonadotrophins Current Research
 - Personalized Recommendations
 - Gonadotrophins Current Research User Reviews and Ratings
 - Gonadotrophins Current Research and Bestseller Lists
5. Accessing Gonadotrophins Current Research Free and Paid eBooks
 - Gonadotrophins Current Research Public Domain eBooks
 - Gonadotrophins Current Research eBook Subscription Services
 - Gonadotrophins Current Research Budget-Friendly Options

6. Navigating Gonadotrophins Current Research eBook Formats
 - ePub, PDF, MOBI, and More
 - Gonadotrophins Current Research Compatibility with Devices
 - Gonadotrophins Current Research Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gonadotrophins Current Research
 - Highlighting and Note-Taking Gonadotrophins Current Research
 - Interactive Elements Gonadotrophins Current Research
8. Staying Engaged with Gonadotrophins Current Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gonadotrophins Current Research
9. Balancing eBooks and Physical Books Gonadotrophins Current Research
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gonadotrophins Current Research
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gonadotrophins Current Research
 - Setting Reading Goals Gonadotrophins Current Research
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gonadotrophins Current Research
 - Fact-Checking eBook Content of Gonadotrophins Current Research
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

Gonadotrophins Current Research Introduction

In today's digital age, the availability of Gonadotrophins Current Research books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Gonadotrophins Current Research books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Gonadotrophins Current Research books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Gonadotrophins Current Research versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Gonadotrophins Current Research books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether you're a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Gonadotrophins Current Research books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Gonadotrophins Current Research books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare,

which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Gonadotrophins Current Research books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Gonadotrophins Current Research books and manuals for download and embark on your journey of knowledge?

FAQs About Gonadotrophins Current Research Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Gonadotrophins Current Research is one of the best book in our library for free trial. We provide copy of Gonadotrophins Current Research in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Gonadotrophins Current Research. Where to download Gonadotrophins Current Research online for free? Are you looking for Gonadotrophins Current Research PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Gonadotrophins Current Research. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Gonadotrophins Current Research are for sale to free while some are payable. If you

arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Gonadotrophins Current Research. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Gonadotrophins Current Research To get started finding Gonadotrophins Current Research, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Gonadotrophins Current Research So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Gonadotrophins Current Research. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Gonadotrophins Current Research, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Gonadotrophins Current Research is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Gonadotrophins Current Research is universally compatible with any devices to read.

Find Gonadotrophins Current Research :

greasepaint and gore the hammer monsters of roy ashton

grandeur of god

grandmothers secret diet bring on the grandkids

graphic design u. s. a.

graphs and their use

~~great british stories with connections~~

graphics programming in turbo c++ an object-oriented approach

graven by the fishermen themselves

~~great car collections of the world~~

graphic designers in europe volume 2

grandmas magic scibors paper cutting from a to z
great big of children&39;s songs 125

grantfinder - medicine

grandmas remedies - old time remedies
grave shadows red rock mysteries

Gonadotrophins Current Research :

CRMA Study Materials CRMA Review Manuals and Software. The new CRMA Exam Study Guide and Practice Questions, 3rd Edition, is a comprehensive review resource for candidates to ... CRMA® Exam Study Guide and Practice Questions, 2nd ... The CRMA® Exam Study Guide and Practice Questions, 2nd Edition, compiles the comprehensive review material you need to prepare for the Certification in Risk ... Free Health & Social Care Flashcards about CRMA Recert ... Study free Health & Social Care flashcards about CRMA Recert 40 Hr created by 100001321957590 to improve your grades. Matching game, word search puzzle, ... CRMA Review Materials: The Official Study Guide's Pros ... We discuss the pros and cons on CRMA Exam Study Guide, and where you can get additional practice and review materials from other sources. CRMA Exam Study Guide 1st Edition by Francis Nicholson Book overview. The Certification in Risk Management Assurance CRMA Exam Study Guide, 1st Edition, compiles the comprehensive review material you need to prepare ... CRMA Study Guide The CRMA Study Guide is designed for students and individuals new to hospitality and the revenue management/revenue optimization discipline. It is the ... CRMA and PSS Training The Certified Residential Medication Aide (CRMA) training is designed for unlicensed workers. Successful completion of this course satisfies Departmental ... Resources | CRMA Certs | CRMA | CRMA Certification The items below will help you to prepare further for CRMA class quizzes and the final exams. Fortiter Study Guide (pdf) ... CRMA Practice Questions online? : r/InternalAudit Hi, I am currently preparing for the CRMA exam and I have the "Exam Study Guide and (200) Practice Questions" as a pdf file. Certification in Risk Management Assurance (CRMA) Full study course for the IIA's CRMA certification. Learn how to audit risk management. Nissan Maxima Owners Manual Nissan Maxima Owners Manual. This information is provided as a Service to our ... Owners Manual - Nissan Maxima 1996, View this Book Online Now · Download this ... 1995 Nissan Maxima Owners Manual 1995 Nissan Maxima Owners Manual [Nissan] on Amazon.com. *FREE* shipping on qualifying offers. 1995 Nissan Maxima Owners Manual. 1995 Nissan Maxima Owners Owner's Manual Set + Case 1995 Nissan Maxima Owners Owner's Manual Set + Case ; Condition. Used ; Quantity. 1 available ; Item Number. 400218200039 ; Make. Nissan ; ISBN. DoesNotApply ... 1995 NISSAN MAXIMA OWNER'S MANUAL. / GOOD ... 1995 NISSAN MAXIMA OWNER'S MANUAL. / GOOD USED CONDITION / FREE SHIP. / OEM ; Quantity. 1 available ; Item Number. 223476977167 ; YEAR. 1995 ; PART. OWNER'S MANUAL ... 1995 Nissan Maxima

Owners Manual Book Guide P/N: ... 1995 Nissan Maxima Owners Manual Book Guide P/N:0M5E-0A32U0 OEM Used Auto Parts. SKU:229225. In stock. We have 1 in stock. Regular price \$ 17.15 Sale. Full Service Manual FSM PDF Jun 1, 2011 — 4th Generation Maxima (1995-1999) - Full Service Manual FSM PDF - Does anyone have a link to the PDF version of the FSM? 1995 Nissan Maxima Owner's Manual Original Owner's Manuals explain the operation and care of your vehicle. With step-by-step instructions, clear pictures, fluid capacities and specifications, ... All Nissan Owners Vehicle Manuals & Guides Visit site to download your Nissan vehicle's manuals and guides and access important details regarding the use and care of your vehicle. 1995 Nissan Maxima Owner's Manual Set Original factory 1995 Nissan Maxima Owner's Manual Set by DIY Repair Manuals. Best selection and lowest prices on owners manual, service repair manuals, ... 1995 Nissan Maxima PDF Owner's Manuals 1995 Nissan Maxima - PDF Owner's Manuals ; Repair Manual - Electrical System (Section EL). 300 pages ; Repair Manual - Emission Control System (Section EC). 282 ... ISSA Nutrition exam Flashcards Amy McKay's sports nutrition final exam Learn with flashcards, games, and more — for free. ISSA Specialist in Sports Nutrition Final Flashcards Study with Quizlet and memorize flashcards containing terms like Which of the following is NOT one of the 3 E's of nutrition? A. Essential Nutrition for ... ISSA Nutrition Final Exam with 100% Correct Answers 2023 Mar 11, 2023 — ISSA Nutrition Exam Final 2023 WHAT IS GOOD NUTRITION? - Correct Answer-PROPERLY CONTROLS ENERGY BALANCE PROVIDE NUTRIENT DENSITY ACHIEVE ... ISSA-Fitness-Nutrition-Certification-Final-Exam.pdf ... I understand that ISSA will return my exam to me to if I have not submitted a complete or properly organized examination. ISSA Nutrition Final Exam with 100% Correct Answers 2023 Download ISSA Nutrition Final Exam with 100% Correct Answers 2023 and more Prove d'esame Public Health in PDF only on Docsity! ISSA Nutrition Final Exam ... Free ISSA Nutritionist Study Guide - the 2023 Update Nov 4, 2023 — The ISSA Nutritionist practice test on this page only includes 30 questions and answers (the full final exam is 100 questions). If you want to ... issa final exam answers section 1 Discover videos related to issa final exam answers section 1 on TikTok. Get Issa Nutrition Final Exam Answers Complete Issa Nutrition Final Exam Answers online with US Legal Forms. Easily fill out PDF blank, edit, and sign them. Save or instantly send your ready ... ISSA Sports Nutrition Final EXAM /GRADED A LATEST ... Oct 24, 2023 — ISSA Sports Nutrition Final EXAM /GRADED A LATEST 2023/2024 /DOWNLOAD TO SCORE A Which of the following is the 3 E's of nutrition? - CORRECT Issa Nutrition Final Exam Answers 2022 Fill Issa Nutrition Final Exam Answers 2022, Edit online. Sign, fax and printable from PC, iPad, tablet or mobile with pdfFiller ☐ Instantly. Try Now!