Theme
Tackling Thin Endometrium
MESSAGE FROM THE PRESIDENT DESK

Dear Friends,

It is indeed a pleasure to address you all on this issue of IFS Conversations.

In this IFS conversation we have dealt with detailed Tackling Thin Endometrium. The editorial team and the authors have worked very hard towards it. Hope you all will find it very useful. The conversation also showcase various recent academic activities conducted by our extremely enthusiastic and committed member.

Wishing you all a very pleasant reading of this issue of IFS Conversation!

Dr. K D Nayar
President - IFS

IFS SPECIAL INTEREST GROUP (SIG 2022 - 2024)

1. ANDROLOGY
Convenor : Dr M. Venugopal
Co Convenor : Dr Pranay Ghosh

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Convenor : Dr Deepak Modi
Co Convenor : Dr Sheetal Jindal

3. COUNSELLING & PATIENT SUPPORT
Convenor : Dr Poonam Nayar
Co Convenor : Dr Renu Misra

4. EARLY PREGNANCY
Convenor : Dr Pikee Saxena
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Convenor : Dr Gaurav Majumdar
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6. ENDOSCOPY
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Convenor : Dr Roya Rozati
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8. ENVIRONMENT AND INFERTILITY
Convenor : Dr Jayesh S Amin
Co Convenor : Dr Anju Mathur

9. FERTILITY PRESERVATION
Convenor : Dr Neena Malhotra
Co Convenor : Dr Pragyani Gurung

10. HOLISTIC MEDICINE (YOGA, ACUPUNCTURE)
Convenor : Dr Rajesh Mehta
Co Convenor : Dr Shalini Chawla Khanna

11. PCOS
Convenor : Dr Ritu Jain
Co Convenor : Dr Pragyanika Gurung

12. POR (POOR OVARIAN RESPONSE)
Convenor : Dr Neeti Tiwari
Co Convenor : Dr Nymphea Walecha

13. REPRODUCTIVE ENDOCRINOLOGY
Convenor : Dr Shweta Mittal
Co Convenor : Dr Himanshu Roy

14. RESEARCH & METHODOLOGY
Convenor : Dr Mohan Kamath
Co Convenor : Dr Buma Satwik

15. ULTRASOUND
Convenor : Dr Ashok Jhurana
Co Convenor : Dr Manjula Handa Virmani

16. LAWS & ART
Convenor : Dr Rashmi Sharma
Co Convenor : Dr Parul Garg

17. QUALITY ASSURANCE & CONTROL IN ART
Convenor : Dr Sampradip Singh
Co Convenor : Dr Arif Khan

18. PUBLIC AWARENESS
Convenor : Dr Kunjumoidem
Co Convenor : Dr Nitin Lad
MESSAGE FROM THE
SECRETARY DESK

Dear Friends

Indian fertility society is an academic society which focusses on academics. It has a pan India presence with 29 chapters and over 3600 members. This year the theme of year is Quality Research and academics.

One of the initiatives is IFS surveys and the first one is online on FET. Please go on the website to answer and contribute to data collection.

With the new team taking over and COVID cases being low, we have now gone on to physical meetings from this year and hope to meet all our members more often. This year our Annual Conference “Fertivision - 22” is from the 9th to 11th December. We look forward to see you in Hyderabad for it.

IFS Conversation is the official newsletter of our Society, which informs the members about activities by the society all over India. It also deals with recent topics and debates in the field of ART. This particular issue has focused on thin endometrium, the dilemmas it causes for an ART specialist and methods of tackling it.

Hope you enjoy reading this issue of IFS Conversations. The editorial team has put in lot of hard work to make it an interesting read.

Best Wishes

Dr. Surveen Ghumman
Secretary - IFS
Dear Friends,

Greetings from team IFS

In this issue of IFS conversation, we present to you a very important, though often neglected aspect of infertility treatment Tackling thin endometrium. An Article on role of GCF is written highlighting its role. In this issue, we present two in-depth articles on stem cells and platelet rich plasma treatment for thin endometrium.

We are a very academically active society. This issue also highlights all the academic activities undertaken in last 3 months from our state chapters, SIG’s, vibrate webinars etc.

We sincerely thank all our authors for their wholehearted contribution towards this issue of IFS conversation. We would love to hear your comments and suggestions and also encourage all our readers to contribute in our forthcoming issues of IFS conversations.
Systemic review of role of Granulocyte Colony Stimulating Factor in treatment of thin endometrium in IVF

Dr. Abhilasha Shandilya
Asst. Professor, Department of Obs. and Gyn, Patna

Dr. Himanshu Roy
Chief Consultant and Director, Srijan Infertility Center, VidyaPuri, Patna

Abstract

Introduction: A functioning and receptive endometrium is crucial for embryo implantation. The thin and unresponsive endometrium is difficult to treat and contributes to implantation failure. The cross-talk between the endometrium and the developing embryo is mediated by many substances, including cytokines. Granulocyte colony-stimulating factor (G-CSF) has been used for improving endometrial thickness and receptivity. We planned this study to investigate evidence available whether use of G-CSF is able to improve endometrial thickness and pregnancy outcomes in women with thin endometrium in IVF.

Material And Method: We searched in PubMed Central database in last 5 years using keywords (Granulocyte colony stimulating factor) AND (Thin endometrium) AND (IVF) AND (RIF).

Result: A total of five studies, 3 RCTs, 1 systematic review and 1 metaanalysis is Discussion: In the three RCTs one RCT result is pending the other two shows no significant difference in endometrial thickness or pregnancy rate in the trial group compared to control group. Systematic review shows increase endometrial thickness as well as increased pregnancy rate in cases of RIF. Meta-analysis done in RIF shows increased pregnancy rate but inconclusive about endometrial thickness.

Conclusion: The evidence in the literature suggests a positive influence of G-CSF for improving pregnancy rates. But the evidence in favor of endometrial thickness is either no effect or insignificant effect.

Discussion: We included five papers, three RCTs, one metaanalysis, and one systematic review. These papers were published in last 5 years in which thin endometrium and repeated failure in assisted reproductive technique to whom G-CSF was employed.

In the three RCTs one RCT result is pending the other two shows no significant difference in endometrial thickness or pregnancy rate in the trial group compared to control group. A systematic review by Mylena et al Brazil 2019 shows increased endometrial thickness in eight out of ten studies. This review was done from 2008 to 2018 involving in English Spanish and Portuguese. The results showed increased overall pregnancy rate but the cases selected were recurrent implantation failure with thin endometrium. One robust metaanalysis done by Lin Zhang et al China 2018 consisting of ten RCTs involving 1016 IVF ET cycle concluded that G-CSF administration has a beneficial role on the clinical outcome after embryo transfer by both routes of local infusion and systematic administration, especially for the cases with RIF. Further RCTs are needed to investigate the role of G-CSF in thin endometrium patients.

Conclusion: The evidence in the literature suggests a positive influence of G-CSF for improving pregnancy rates. But the evidence in favor of endometrial thickness is either no effect or insignificant effect. So, there is need of a more controlled RCT involving larger sample size focusing on thin endometrium only with standard route, time and dose of administration.

Material And Method:

1. Chemotherapy induced neutropenia
2. Use in drug-induced neutropenia
3. Before blood donation: G-CSF is also used to increase the number of hematopoietic stem cells in the blood of the donor before collection by leukapheresis for use in hematopoietic stem cell transplantation
4. Stem cell transplants
5. For increasing endometrial receptivity/thickness: In 2011 Gleisner et al. first used intrauterine G-CSF in four patients undergoing IVF with thin endometrium after standard endometrial preparation. All the patients successfully underwent ET and conceived.

Since use of G-CSF alone or in combination with other modalities has been experimented for improving endometrial thickness and secondary outcome measure was pregnancy rate.

There is no standardised dose, route and time of treatment schedule. The various protocol used by different researchers in various literature are:

Local: 30 ml of GCSF gel through slow infusion into the uterine cavity under hysteroscopic guidance or infusion of G-CSF or platelet rich plasma protein or mesenchymal stem cell infusion or bone marrow mesenchymal stem cell infusion or even systemic use of G-CSF.

Another interesting development is use of Neuroumuscular electrical stimulation (NMES) combined with other modalities for improving endometrial thickness.

Granulocyte colony-stimulating factor (G-CSF) or GGF, also known as colony-stimulating factor 3 (CSF 3), is a glycoprotein that stimulates the bone marrow to produce granulocytes and stem cells and release them into the bloodstream. G-CSF is produced by endothelium, macrophages, and a number of other immune cells. The pharmaceutical analogue of naturally occurring G-CSF is the recombinant human G-CSF (rhG-CSF) synthesised in an E.coli is called filgrastim marketed as Neupogen. Another form of rhG-CSF called lenograstim is synthesised in Chinese Hamster Ovary cells (CHO cells).

The various medical uses of GSF are:

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2. Use in drug-induced neutropenia
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There is no standardised dose, route and time of treatment schedule. The various protocol used by different researchers in various literature are:

Local: 30 ml of GCSF gel through slow infusion into the uterine cavity under hysteroscopic guidance or without or on day of hCG injection, or at the time of oocyte retrieval or on day of ET and
4thday of ET Systemic injection: s.c. 300 µg one hour before ET or s.c.300 µg on day of hcg or s.c.1.5mg/kg/d from tranfer to day of hCG test, and if positive
6thday of ET.

We searched in PubMed Central database in last 5 years using keywords (Granulocyte colony stimulating factor) AND (Thin endometrium) AND (IVF) AND (RIF).

Our primary outcome measure was endometrial thickness and secondary outcome measure was pregnancy rate.
immunossuppression, anti-inflammation, stimulation, and regulatory interactions with endogenous cells(9).

The scope of stem cell therapy is quickly developing and, today clinical trials have begun to investigate the use of stem/progenitor cells in the therapy of degenerative diseases, cancer, and the renovation of damaged or lost tissues (8).

A concise review of the current clinical applications of stem cell therapy in endometrial disorders will be discussed here.

Conclusion

Endometrium plays an important role in reproductive and maternal health, and therefore it is important to maintain a physiological structure of the endometrium & to eliminate the defects, and restore the damage. Stem cells have been the subject of intense research because of their beneficial functions.

Active research is going on in this field & from the researches done in this field it can be concluded that stem cells can be important therapy to remedy degenerative diseases, cancer, and renovation of damaged tissues for which there are limited or no therapeutic choices. Hope has been kept alive that stem cell therapy can treat many diseases, especially in diseases such as Asherman syndrome and thin endometrium. Stem cells derived from bone marrow, menstrual blood, and cord blood can help in regeneration of the endometrium. Different approaches have already been tried to boost survival of transplanted cells in the stem cell therapy. Some forms of biomaterials like scaffolds, hydrogel and nacrosoft lipid carrier are tried to promote stem cell drug delivery; thus, these novel biomaterials can improve the outcome of the cell therapy. UCMSOs are best for regenerating the endometrium because features like easy accessing, having faster self-renewal properties, harvesting by non-invasive procedures in abundance, and weak immunogenic effects. Certainly, other types of stem cells like mESC, hAMSC, and MSC have beneficial characters and can be useful in this area. We have gained much information in this field, many concerns still remain like in the field of endometrium repair, ENsCs are involved in the pathogenesis of several gynecological diseases such as endometrial cancer, endometrial hyperplasia, endometriosis, and adenomyosis. Another concern in this area is that stem cells, in addition to being involved in angiogenesis and proliferation, also stimulate angiogenesis through secreting growth factors. Furthermore, the major obstacle that prevents the clinical development of embryonic stem cells is teratoma.

From all the studies we can conclude that stem cell and hormone combination therapy have superior therapeutic effects in improving menstruation duration, pregnancy outcome, and endometrial thickness. Moreover, the kind of therapy was also concluded with a favorable safety profile. However, further studies with large sample sizes are needed to establish more solid evidence for administering this therapy in clinic.
INTRODUCTION

Implantation is the most important and vital process in reproduction. Endometrial thickness is directly related to endometrial receptivity and is a good predictor of success in assisted reproduction technology. Management of thin endometrium in ART has always been challenging and various options like estrogen, Ecosprin, Sildenafil, GCSF are available for its management.

Endometrial scratching is a procedure done in luteal phase to improve endometrial receptivity for a successful implantation of the embryo.

Stem cell therapy and platelet rich plasma (PRP) has emerged as a new promising treatment modality in patients with repeated IVF failure due to thin endometrium. PRP has been used in many medical specialties as it stimulates and causes regeneration of tissues such as mucosa, skin, fat and even in promoting healing responses of diseases of bones and tendons.

PRP is prepared from autologous fresh whole blood which has a high concentration of various cytokines and growth factors such as platelet-derived growth factor (PDGF), vascular endothelial growth factor (VEGF), epidermal growth factor (EGF), transforming growth factor (TGF), fibbblast growth factor (FGF), connective tissue growth factor, insulin like growth factor (IGF-1), chemokines and other cytokines that stimulate proliferation and growth.

Activation of growth factors lead to activation of a cascade of an intracellular signal proteins that causes the expression of a genes leading to cellular proliferation, matrix formation, osteoid production and collagen synthesis leading to initiation and acceleration of the natural healing process.

PRP stimulates endometrial cell proliferation, migration, endometrial regeneration and repair. When endometrial lining is still thin less than 7 mm even after standard hormonal therapy in a stimulated cycle of ART, PRP is injected into the uterine cavity on the tenth day of the HRT cycle and can be repeated 2-3 times if endometrial thickness does not increase after 72 hrs of PRP infusion.

METHOD OF PREPARATION:

PRP is autologous blood plasma containing concentrated platelets prepared from autologous whole blood by centrifugation method. In this process blood is collected by venipuncture in tubes containing anticoagulants such as acid citrate dextrose (ACD).

PRP is prepared by two methods:

1. Double centrifugation PRP method

In this method PRP is prepared by double centrifugation method. Whole blood collected in tube with anticoagulant is centrifuged which make three different layers. The top most layer contains high concentration of platelets, middle layer known as buffy coat layer with WBC’s and bottom layer mostly with RBC’s. Upper layer with buffy coat is then transferred into a sterile tube and second centrifugation is done. There is formation of platelet pellets at the bottom of the tube which is lower one is third is PRP and upper 2/3rd is platelet-poor plasma (PPP). PPP is removed and the platelet pellets is suspended in a minimum quantity of plasma (2-4 mL) by gently shaking the tube.

2. Buffy coat method

In the buffy coat method, the whole blood is centrifuged at "high velocity" with subsequent collection of only the middle layer containing mainly white blood cells and platelets. The resulting whole blood is stored at 20 °C to 24 °C and then centrifuged at a high speed resulting in three layers: a bottom layer consisting of red blood cells; a middle layer consisting of platelets and white blood cells; and a top layer containing PPP.

The top layer is discarded from the tube. The "buffy-coat" layer is transferred to another sterile tube. The aspirate is re-centrifuged at a low rate to cause whole blood cell separation or a leukocyte filtering filter is used.

SIDE EFFECTS:

As PRP is prepared from patient own whole blood, minimal side effects are expected with intravenous instillation of platelet rich plasma (PRP). Occasionally there can be small bruises or irritation on injection site.

MODE OF ACTION:

PRP contains highly concentrated platelets which release various growth factors from alpha granules of platelets, which stimulate and enhance natural healing process in different clinical applications.

Platelet releases various growth factors such as platelet derived growth factor, vascular endothelial growth factor (VEGF), epidermal growth factor (EGF), transforming growth factor (TGF), fibbblast growth factor (FGF), connective tissue growth factor, insulin like growth factor (IGF-1), chemokines and other cytokines that stimulate proliferation and growth.

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REVIEW OF LITERATURE:

Zadecmorad et al. in a pilot study showed the role of PRP on endometrial growth and they found in all the participants that after two PRP infusions in all patients who had a history of cycle cancellation due to thin endometrium (1).

Siddharta Nagiredy et al. conducted a non-randomized single arm trial on effect of autologous PRP for the management of thin endometrium in frozen embryo transfer cycle.

All women who presented with thin endometrium in FET cycles were included in their study and intravenous PRP was infused on day 11 of HRT cycle. They concluded that autologous PRP significantly improves endometrial thickness in cases of thin endometrium in FET cycles and reduces cycle cancellation rate (2).

A prospective cohort study was conducted by Y. Chang et al on 42 cycles of 34 patients to evaluate the effectiveness of platelet-rich plasma (PRP) in women with thin endometrium in frozen embryo transfer cycles (FET).

PRP was infused intravaginally on the 10th day in HRT cycle and progesterone administration day in patients with thin endometrium with thickness less than 7 mm. They concluded that PRP played a vital role in promoting endometrium proliferation and improving embryo implantation rate (3).

The PRP has also been used for the management of thin endometrium in assisted reproduction of the clinical guideline published in July 2019 from the Canadian Fertility and Andrology Society, but the level of evidence recommended is just weak (4).

Another prospective study was done by A. Morad et al to establish the efficacy of PRP in thin endometrium on thirty anovulatory PCOS women with GG failure for 3 cycles and found that Intrauterine infusion of PRP could be a promising agent to increase endometrial thickness and endometrial blood flow and thus improved clinical pregnancy rate (5).

A Prospective interventional study was done by Kim H et al in 2019 to study the effect of PRP in 24 FET patients with history of two or more failed IVF cycles and refractory thin endometrium. They concluded that PRP improved implantation, pregnancy and live birth rate and it was able to improve some aspects of endometrial receptivity (6).

A randomized clinical trial was done by Maryam eftekar Research and Clinical Center for Infertility, Yazd, Iran to establish that autologous platelet rich plasma expands endometrial thickness and improve pregnancy rate during frozen-thawed embryo transfer cycle.

They included 33 patients with thin endometrium and instilled intratranine PRP on 13th day of HRT in patients with endometrial thickness less than 7 mm. They concluded that though statistical difference were not significant PRP seemed to have lower cancellation rate and higher pregnancy rate.

Conclusion

PRP is an autologous cell therapy containing many bioactive growth factors that are involved in the treatment of chronic wounds, severe burns, chronic joint diseases. Though endometrial thickness management is still a challenge in ART to treating infertility specialist many studies and randomized control trials have proved efficacy of PRP in improving endometrial rejuvenation and thus increasing the implantation potential and pregnancy rate.

REFERENCES:


3. Y. Chang et al. platelet-rich plasma administration has benefit for infertile women with thin endometrium in frozen blastocyst-stage embryos transfer program. Fertility and Sterility, 8 Issue 3, 2017.


**FERTILITY KONNECT**

For upcoming Gynecologists & Post Graduates on Basics of infertility & Reproductive Endocrinology

**Topic:** Secondary Amenorrhea

**Date:** 14th November 2021  **Time:** 11 am to 12 pm

**Moderator:**

**Dr. Dipa Ray**
Ex Joint Secretary, IFS West Bengal Chapter
Consultant AAIHPS, Kolkata
Director, Miracle Fertility & Multispeciality Clinics, Kolkata

Registration & Webinar Link: [https://webinar365.in/SUN-SPECTRA-IFS-Webinar/](https://webinar365.in/SUN-SPECTRA-IFS-Webinar/)

**Indian Fertility Society and Senora Division of Sun Pharma**

Cordially invites you for the Scientific Session

**Program Convenor:** Dr Rajapriya Ayyappan
Secretary Indian Fertility Society Tamilnadu Chapter

**Case 1**
EFS. Not always empty  **Dr. Karpagambal Sabram**

**Case 2**
BoI with RIF  **Dr. Kavitha Gautham**

**Case 3**
Leutal phase stimulation- is it a way forward for poor responders  **Dr. Nandita A. Thakkar**

**Case 4**
Pos resistant to stimulation - will cocktails work  **Dr. Divya Selva Mani**

**Date:** Tuesday, 23rd November 2021  **Time:** 1.30 pm.

**Venue:** Hotel Taj Club House, Royapettah, Chennai.

**LUNCH FOLLOWED BY SESSION**

**FLORITA**

Restores Balance, Regulates Inflammatory Markers

**FERTILITY KONNECT**

For upcoming Gynecologists & Post Graduates on Basics of infertility & Reproductive Endocrinology

**Topic:** Tubal Factor Infertility-Evaluation and Management

**Date:** 28th November 2021  **Time:** 11 am to 12 pm

**Moderator:**

**Dr. R. Thilai Nachiyar**
Senior Assistant Professor, IKG, Egmore, Chennai

Registration & Webinar Link: [https://webinar365.in/SUN-SPECTRA-IFS-Webinar/](https://webinar365.in/SUN-SPECTRA-IFS-Webinar/)

**FERTILITY KONNECT**

For upcoming Gynecologists & Post Graduates on Basics of infertility & Reproductive Endocrinology

**Topic:** Mullerian Anomalies - Diagnostic Challenges and Management

**Date:** 19th December 2021  **Time:** 11 am to 12 pm

**Moderator:**

**Dr. Suparna Banerjee**
Clinical Director of Anuro Fertility Clinic and Institute of Reproductive Sciences, Kolkata
Immediate Past Secretary of IFS, Bengal Chapter

Registration & Webinar Link: [https://webinar365.in/SUN-SPECTRA-IFS-Webinar/](https://webinar365.in/SUN-SPECTRA-IFS-Webinar/)
Indian Fertility Society

We are pleased to extend a warm invitation to all Office Bearers, Executive Members & SIG

Installation IFS Team 2022-24 and first EBM on Saturday, 23rd April, 2022
at Hotel Pride Plaza from 7:30 PM Onwards

7:30 PM Talk by Facuity
8:00PM to 8:20PM Installation Ceremony
8:20PM to 8:35PM President's Vision for 2022
8:35PM to 8:40PM Secretary's report and vote of thanks
8:40PM to 9:00PM A walk with the Past Presidents of IFS (2000-2022)
Dr. Gitu Khare, Dr. Neena Tharani, Dr. Manjula

Drinks & Dinner
9.00 PM Onwards

RSVP

Dr. K.D. Nayar President, IFS
Dr. Surveen Chawla Secretary General, IFS

We look forward to your esteemed presence.

Meeting ID: 871 2881 0250
Passcode: 8747022

IFS Activities

FERTILITY KONNECT.
For upcoming Gynaecologists & Post Graduates on Basics of Infertility & Reproductive Endocrinology by 2021-2023

Topic: PCOS-Etiopathogenesis and Diagnosis

Date: 16th January 2022
Time: 11 am to 12 pm

Speaker: Dr. Sonita Malik
Director & CEO, Spectra, Dot Ltd. & MP, DVP, Delhi
Past President, Indian Fertility Society

Registration & Webinar Link
https://webinar365.in/SUN-SPECTRA-IFS-Webinar/

For more information: www.indianfertilitysociety.org
Contact Number: +91 9899835005

FERTILITY KONNECT.
For upcoming Gynaecologists & Post Graduates on Basics of Infertility & Reproductive Endocrinology by 2021-2023

Topic: Hirsutism

Date: 13th February 2022
Time: 11 am to 12 pm

Speaker: Dr. Reeta Mahay
Additional Professor (AVT) in Dept. of Obs & Gyne, AIIMS, New Delhi

Registration & Webinar Link
https://webinar365.in/SUN-SPECTRA-IFS-Webinar/

For more information: www.indianfertilitysociety.org
Contact Number: +91 9899835005

Sustainable Workshop

INDIAN FERTILITY SOCIETY
RESEARCH METHODOLOGY WORKSHOP
CLINICAL TRIAL: HOW TO BEGIN?
1st June, 2022 | 9:15 AM - 1:00 PM

Online Workshop

Workshop Theme:

Workshop Fee: Rs. 1000/- Only

To Register:

Please write to MTS@IFS or call on 25049916
to register with the Indian Fertility Society.

About the Workshop:

This workshop will provide an overview of the research methodology for clinical trials in the field of infertility.

The workshop will cover the following topics:

1. Introduction to Clinical Trials
2. Protocol Development
3. Data Collection
4. Data Analysis
5. Clinical Trial Presentation

Participants will receive a certificate of participation at the end of the workshop.

Last Day Today
31st May 2022
REGISTER NOW

www.indianfertilitysociety.org

Salutations,

Indian Fertility Society

Elite Gynaec Forum

cordially invite you for scientific program
20th May 2022 | 3:00 PM - 5:00 PM
Venue: Hyatt Centric Janakpuri, New Delhi

Topics:

1. Role of antioxidants in Male infertility
2. Choosing the right cocktail for LFD
3. Prevention of PPH + Carboplatin The now kid on block!
IFS ACTIVITIES

SIG Activity

**Redcliffe genetics**

Clinical Applications Of Genetic Testing For Obstetrics Care

**Date:** 17th April (Sunday)

**Time:** 10:30 AM onwards

**Venue:** The Park, 15, Parliament Street, New Delhi 110001

**Chief Guest:** Dr. KD Nayar

**President, IFS:** Dr. K. D. Nayar

**Secretary General, IFS:** Dr. Surveen Ghumman

**Coordinator:** Dr. Seema Thakur

**Convenor, SIG, IFS:** Dr. Sarabpreet Singh

**Speakers:**

- Dr. Poonam Nayar
- Dr. Rajee Mehta

**Programme Details**

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**Webinar**

Coping with emotions of Infertility

Friday, 29th April’22 at 6.00 PM IST onwards

**Speakers:**

- Dr. Poonam Nayar
- Dr. Rajee Mehta

**Hands on semen analysis and preparation**

IFS TAMILNADU AND SIG ANDROLOGY

**Hands on semen analysis and preparation**

IFS Tamil Nadu Chapter

**Secretary:** Dr. Rajapriya Ayusoppa

**Tamil Nadu Chapter:**

**Secretary:** Dr. K. Aravathy Paari

**Chairman:** Dr. Venugopal

**Contact:**

- **Phone:** 9999999999
- **Email:** iifsta@gmail.com
IFS ACTIVITIES
Chapter Activity

A never ending cycle of Learning
with
IFS-Punjab Chapter
on 7th Jan - Friday
Time: 6.30pm onwards

Guest Speaker
Dr. Geetendra Sharma

Dr. Sudha Prasad
President IFS
Dr. Neena Malhotra
General Secretary IFS
Dr. KD Nayar
President Elect

Dr. Sarabjeet Singh
Chapter Secretary
Punjab IFS
Dr. Sukriti Bansal
Jt. Secretary
Punjab IFS
Dr. Jasleen Randhawa
Treasurer
Punjab IFS

Time
Topic
06:30 pm
Inauguration by Dr. Sudha Prasad (President IFS)
06:35 pm
Lohi greetings by Dr. Neena Malhotra (General Secretary IFS)
06:40 pm - 07.10 pm
AIB Act by Dr. Geetendra Sharma
07:10 pm - 08.00 pm
Genes & Genetics in Reproductive Medicine: Panel discussion

Expert Panelists
Moderators
Dr. Umesh Jindal
Dr. Sarabjeet Singh
Dr. KD Nayar
Dr. Sukriti Bansal
Dr. Sangeeta Khetkar
Dr. Sangeeta Kumar
Dr. Sheetal Jindal
Dr. Sanjeev Kumar

Please click the link below to join the webinar:
https://zoom.us/j/96636704139?pwd=ckJ3dXJrZzFRbUEwVEM5eWN1ZjJ6UT09
Passcode: 175350

Faculty

Dr. Umesh Jindal
Dr. Sangeeta Khetkar

Dr. Sheetal Jindal
Dr. Sanjeev Kumar

Indian Fertility Society (Haryana) &
Rewari Obs Gyn Society

present
RECURRENT IVF FAILURE
HOW TO IMPROVE RESULTS
Tuesday, Jan 18, 2022 | 4:30 PM – 6:00 PM

Guest of Honor
Dr. Sudha Prasad
Convener & NFO

CONVENORS
Dr. Sumeet Bhatia
Convener, Indian Fertility Society Haryana chapter
Dr. Savita Mittal
Secretary, Indian Fertility Society Haryana chapter

DIFFICULTIES ENCOUNTERED DURING OPU & ET

Clinicopathological correlation
Dr. Sumit Mehta
Senior Consultant, Reproductive Medicine, Fortis Hospitals

CLINICAL APPROACH TO IMPROVING THE ENDOMETRIUM:
EVIDENCE BASED EVALUATION

Dr. Neha Tandon
Director, Mahima IVF & Fertility Centre

Dr. Nameet Garg
Associate Professor, Obstetrics & Gynaecology, Smt. RAMADEV

BETTER IVF OUTCOME FOLLOWING IMPROVED LAB AMBIENCE

Dr. KS Nayar
Director, Nivia Fertility Care and IVF Centre

Dr. Pooja Sudha
Consultant, Reproductive Medicine, Vasan Eye Care System

Dr. Munakshi Das
Consultant, ARC Fertility Clinic Gurgaon
IFS ACTIVITIES
Chapter Activity

INDIAN FERTILITY SOCIETY Vidarbha Chapter (IFS-VC)
Nagpur Obstetrics and Gynecological Society (NOGS)
Prepresents
Sizzling Masterstroke Fertility Web-Series
Series 9
Embryologist: Infusing ‘Healthy’ life in vitro

Cordially invite you to
COR CONNECT- Live Show
JAN 22, 2022
6:00 PM

Welcome Address by Dr. Sushma Deshmukh
Lecture 1
Sperm, Egg & Embryo Vitality: Is Embryologist the Nutritionist?
Speaker
Chairpersons

Dr. Rajiv Mehta
Dr. Sanchita Kansalsaharan
Dr. Krishna Chattarya

IFS U.P & RAJASTHAN CHAPTER
Invites you for a
WEBINAR ON
ART Bill & Surrogacy Bill-Insights
Sunday 23rd January 2022 | 4.00 PM - 6.00 PM
OFFICE BEARERS

Dr. Sudha Prasad
President IFS

Prof. Chandravati
Patron, IFS, U.P.

Dr. Neena Mahotra
Secretary, IFS

Dr. Sunila Chandra
Secretary, IFS, U.P.

Dr. Anuj Mathur
Secretary, IFS, Rajasthan

SPEAKER
CHAIRPERSON
MODERATOR

Adv. Radhika Thapar

Dr. Priya Kumar

Dr. Anita Pandey

Dr. Sunita Madhukar

Dr. Suvidha Singhal

Dr. Rajiv Tyagi

Dr. Ramesh Athappan

Dr. Sanjay Singh

Dr. Surendra

Dr. Manoj Reddy

Dr. Sudha Prasad

Dr. Neena Mahotra

Dr. Sushma Deshmukh

Dr. Dr. Bharti Chauhan

Please click the link below to join the webinar:
https://meet.google.com/vhs-dxyr-yeg
Meeting ID: 924 8487 8313
Passcode: BSVWITHU
Meeting held with Madam Geeta Nararaynan Joint Secretary and Mrs Kavitha Scientist E of DHR on 11.2.22 at 3.00 PM
IFS ACTIVITIES

Chapter Activity

**INDRIYA IVF**

**Invitation**

Indira IVF in Association with POGS Patna & IFS Patna invites you for CME on:

**MALE INFERTILITY & LIVE WORKSHOP ON MICROTESE**

**Date**: Sunday, 24th April 2022
**Time**: 11.00 AM to 3.00 PM
**Venue**: Hotel Lemon Tree, Patna

**Session 1: Scientific Session**
- **Lecture 1**: Evaluation & Management of male infertility by Dr. Vignesh Chandras
- **Lecture 2**: Insemination, what androgens should know with a view of future by Dr. Ravi Agarwal

**Session 2: Panel Discussion**
- **Live workshop on Surgical & Laboratory Techniques of sperm retrieval from microtestes** by Dr. Ashish Singh
- **Questions & Answer Session**

**Co-ordinates**
- Dr. Vandana Raj
- Dr. Sujata Jat

**Contributors**
- Dr. Sanjoy Sengupta
- Dr. Prabhat Saha

**Topics**
- Reversal of Adenomyosis & Promotion of Fertility
- Newer Concepts in Pathogenesis
- Newer Imaging Insights

**Moderators**
- Dr. Sudha Sivakumar
- Dr. Indumathi Jay

**Panelists**
- Dr. Deepti Khadkikar
- Dr. Priyanka Nandigama
- Dr. Sumit Kumar Premraj
- Dr. Sathish Rani
- Dr. Ananta Devi J

**Speaker**
- Dr. Vignesh Chandras
- Dr. Ravi Agarwal

**Registration**
- [Click Here to Register](#)

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**IFS TAMILNADU ANNUAL CONFERENCE**

INVites you for the First Academic Feast Post COVID

SUNDAY

24th April 2022 | 10 am to 5 pm

Venue: Hotel Hilton, Guindy

**Chairpersons**
- Dr. K. D. Nagar
- Dr. Sarvani Ghuman

**Experts**
- Dr. Rajesh Gaycar
- Dr. Aarathy Paul
- Dr. Priya Ramesh

**Panelists**
- Dr. Pragya Jha
- Dr. Ashwini Mahajan

**Surgical Techniques for fertility preservation in adenomyosis**
- Dr. Sanjiv Kaur

**Medical Management of Adenomyosis**
- Dr. S. Chitra

**Co-existence of Adenomyosis & Endometriosis**
- Dr. Karthikeyan Raja

**Infertility Management in Adenomyosis**
- Dr. Anil Rani

**Register**
- [Click Here to Register](#)
IFS ACTIVITIES

Chapter Activity
**INDIAN FERTILITY SOCIETY**

**WEST BENGAL CHAPTER**

Cordially invites you to a CME on “New Provisions of ART and Surrogacy law”

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>President IFS</td>
<td>Dr. K. D. Nayar</td>
</tr>
<tr>
<td>Secretary General IFS</td>
<td>Dr. Surveen Ghamman</td>
</tr>
<tr>
<td>Chapter Secretary</td>
<td>Dr. M. C. Das</td>
</tr>
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</table>

**Programme details**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>Welcome &amp; Introduction</td>
<td>Secretary &amp; Joint Secretary, IFS Bengal</td>
</tr>
<tr>
<td>4th Generation Sperm: Why it’s better?</td>
<td>Dr. Sekhar Misra</td>
</tr>
<tr>
<td>Role of SNP in RPL &amp; TN: Recent updates</td>
<td>Dr. Siddhartha Chatterjee</td>
</tr>
<tr>
<td>New provisions of ART &amp; Surrogacy law</td>
<td>ADV. (Dr.) Hitish J. Bhatt</td>
</tr>
<tr>
<td>Questions &amp; Answers</td>
<td>Moderators: Dr. M.C. Das, Dr. Suparna Banerjee</td>
</tr>
</tbody>
</table>

| Vote of thanks | Dr. S.M. Rehman |

**Date** - 13th May, 2022  
**Time** - 7.30 p.m. onwards  
**Venue** - Taj Bengal, Kolkata

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**Indian Fertility Society**

(Odisha Chapter)

Invites you for a CME on

**Date** - 25TH MAY 2022, WEDNESDAY  
**Time** - 6.30 PM - 9.00PM

**OFFICE BEARERS**

- Dr. B. D. Nayar  
  National President
- Dr. Sarvesh Shrivastav  
  National Secretary
- Dr. P. K. Mehtani  
  Advisor, IFS Odisha
- Dr. Ujjal Goswami  
  Advisor, IFS Odisha

**EXPERTS**

- Dr. Suparna Banerjee  
  Secretary, IFS Odisha
- Dr. Abhishek Roy  
  Joint Secretary, IFS Odisha
- Dr. Shubh Kaur Khare  
  Treasurer, IFS Odisha
- Dr. Abhishek Roy  
  Executive Member

**VENUE** - WELCOM HOTEL BY ITC HOTELS, BHUBANESWAR

**PROGRAMME FOLLOWED BY DINNER**

**Academic Partner**

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**IFS ACTIVITIES**

**Chapter Activity**

**INDIAN FERTILITY SOCIETY**

Vidarbha Chapter (IFS-VC)

In Association with
IFS, Chhattisgarh Chapter & Nagpur Obstetrics and Gynecological Society (NOGS)

**Series 13**

**IVF Mom & Pregnancy Risks**

Cordially invite you to

**COR CONNECT - Live Show**

MAY 9, 2022

6:00 PM

www.corconnect.org/ifsvidarbh

(HELPLINE: +91-9461507191)
IFS ACTIVITIES

Chapter Activity

Indian Fertility Society Karnataka Chapter

CME – “The Poor Responder in IVF”

Program Details:

Date: 19-20.02.2022

Session 1:
10:30 am – 11:30 am: Workshop on "Understanding Poor Responders and their Management"
Dr. Yogesh Badshah
Dr. Sridhar Ambekar
Dr. Prasanth Vemula
Dr. Anurag Sahay

Session 2:
11:30 am – 12:00 pm: "Poor Response Management" - A Panel Discussion
Moderator: Dr. Yogesh Badshah
Dr. Sridhar Ambekar
Dr. Prasanth Vemula
Dr. Anurag Sahay

Session 3:
12:00 pm – 1:00 pm: "Cognitive Behavioral Therapy for Poor Responders"
Dr. Sridhar Ambekar

Session 4:
1:00 pm – 1:30 pm: "Latest Aspects of Poor Response Management"
Dr. Prasanth Vemula

Session 5:
1:30 pm – 2:00 pm: "Tips and Tricks for Improving Poor Response"
Dr. Anurag Sahay

Lunch Break

Session 6:
2:00 pm – 2:30 pm: "New Developments in POI Management"
Dr. Yogesh Badshah

Session 7:
2:30 pm – 3:00 pm: "Update on POI and Management Tips"
Dr. Sridhar Ambekar

Session 8:
3:00 pm – 3:30 pm: "Role of Lifestyle in Poor Response Management"
Dr. Prasanth Vemula

Session 9:
3:30 pm – 4:00 pm: "Recent Advances in POI Research"
Dr. Anurag Sahay

Session 10:
4:00 pm – 4:30 pm: "New Developments in POI Management"
Dr. Yogesh Badshah

Session 11:
4:30 pm – 5:00 pm: "Role of Lifestyle in POI Management"
Dr. Sridhar Ambekar

Session 12:
5:00 pm – 5:30 pm: "Current Trends in POI Management"
Dr. Prasanth Vemula

Session 13:
5:30 pm – 6:00 pm: "New Developments in POI Management"
Dr. Anurag Sahay

Lunch Break

Session 14:
6:00 pm – 6:30 pm: "Recent Advances in POI Research"
Dr. Yogesh Badshah

Session 15:
6:30 pm – 7:00 pm: "Role of Lifestyle in POI Management"
Dr. Sridhar Ambekar

Session 16:
7:00 pm – 7:30 pm: "Current Trends in POI Management"
Dr. Prasanth Vemula

Session 17:
7:30 pm – 8:00 pm: "New Developments in POI Management"
Dr. Anurag Sahay

Invitation

Indian Fertility Society

In association with
Surat Obstetric & Gynaecological Society

You are cordially invited for the Installation Ceremony of

Dr. Nimish Shelat
as Patron
Gujarat Chapter IFS
and their team for the year 2022-24.
:: Installing Officer and Chief Guest ::

Dr. K D Nayar
President, Indian Fertility Society 2022-24

CME - Infertility

5th June 2022, Sunday, 09:00 am to 01:00 pm
Venue: The Amore, Near V.R. Mall, Dumas Road, Surat

Dr. Sumeet Chhunnon
Secretary General, IFS
Dr. Jayesh Amin
Additional Joint Sec. IFS
Past Sec. Guj. Chapter IFS
Dr. Darshan Vaddekar
President, IFS
Dr. Ravindra Korat
Secretary, IFS

IFS Tamilnadu and SIG Andrology

Hands on Semen Analysis and Preparation

Dr. K. D. Nayar
IFS President

Dr. Sumeet Chhunnon
IFS Secretary General

IFS Tamilnadu Chapter

Dr. Mahesh Athavale
Secretary
Dr. K. Saraswathy Paari
Executive Member

Dr. Venugopal
SIG Andrology
CME
Organized by Indian Fertility Society
in association with Shadan Institute of Medical Sciences and Apollo Medical College - Hyderabad
on 16th June 2022 - Saturday
Timing- 6PM- 8PM
Venue- Radisson Blu Plaza Hotel- Banjara Hills, Hyderabad

Program - Hybrid mode

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<th>PREMIUM</th>
<th>ONLINE</th>
<th>HYBRID</th>
<th>VALIDITY</th>
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<tbody>
<tr>
<td>Welcome address and Introduction</td>
<td>Dr. Boney Raniwal</td>
<td>Dr. Boney Raniwal</td>
<td>06.00PM-06.45PM</td>
</tr>
<tr>
<td>Quiz on Infertility</td>
<td>Dr. Shefali Dhami</td>
<td>Dr. Shefali Dhami</td>
<td>06.45PM-07.30PM</td>
</tr>
<tr>
<td>Talk on &quot;Environmental Factors and Indomethacin&quot;</td>
<td>Dr. K.R. Nayak</td>
<td>Dr. Suresh Gummalla</td>
<td>07.30PM-08.15PM</td>
</tr>
<tr>
<td>Feedback</td>
<td>Dr. Renu Malhotra</td>
<td>Dr. Renu Malhotra</td>
<td>08.15PM-09.00PM</td>
</tr>
<tr>
<td>Talk on &quot;Environmental Factors and PCOS&quot;</td>
<td>Panel Discussion</td>
<td>Panel Discussion</td>
<td>09.00PM-09.45PM</td>
</tr>
<tr>
<td>Panel Discussion: &quot;Environmental Factors, Infertility, other problems and their management&quot;</td>
<td>Panel: Dr. Suresh Gummalla, Dr. Chiranjeevi, Dr. Floyd, Dr. Shaila Thimmaiah, Dr. Gagan MV, Dr. Srilatha Garde</td>
<td>Panel: Dr. Boney Raniwal, Dr. Renu Malhotra</td>
<td>09.45PM-10.30PM</td>
</tr>
<tr>
<td>Release of Feedback</td>
<td>Dr. K.R. Nayak</td>
<td>Dr. Boney Raniwal</td>
<td>10.30PM-10.45PM</td>
</tr>
<tr>
<td>Feedback</td>
<td>Panel Discussion</td>
<td>Panel Discussion</td>
<td>10.45PM-11.30PM</td>
</tr>
<tr>
<td>Prize distribution for Quiz</td>
<td>Dr. Boney Raniwal</td>
<td>Dr. Boney Raniwal</td>
<td>11.30PM-11.45PM</td>
</tr>
<tr>
<td>Valedictory</td>
<td>Dr. Renu Malhotra</td>
<td>Dr. Renu Malhotra</td>
<td>11.45PM-12.00PM</td>
</tr>
</tbody>
</table>

www.corconnect.org/ifsvidarbh

President: Dr. Boney Raniwal
Secretary: Dr. Renu Malhotra
Treasurer: Dr. K.R. Nayak
Events Director: Dr. Suresh Gummalla
Program Coordinator: Dr. Shilpa Thimmaiah

Chief Guest:

Speakers:

Moderators:
This new technology, smaller than a pinhead in size holds up to 10 eggs in segregated positions for quicker injection, making easier for embryologists to track and avoid the risk of errors. By removing the need for the pipette that normally holds the unfertilized egg in position during ICSI, this device simplifies the injection process, reduces dependency on a high level of technical experience and will dramatically improve embryo

Conclusion: Microinjection within this device minimizes the requirement for the expert operator for handling and manipulation, may improve embryo developmental potential and that they may form a precursor to automated ICSI. The device is expected to undergo global clinical trials in 2022. This require less training for embryologists with less expensive equipment.


Any Suggestions / Queries May Be Sent to indianfertilitysocietydelhi@gmail.com
Memories
FERTIVISION 2021
17th Annual Conference of Indian Fertility Society which was also a virtual and global conference and was FERTIVISION 2020 hosted jointly by the four northern chapters Chandigarh, Punjab, Haryana & Himachal Pradesh.

70+ International Faculties

300 National Faculties

Nearly 2000 Delegates participated in the 10 workshops organized.

More than 3000 logins for the main conference

130 Original Research Papers were Presented

Participated by Memories FERTIVISION 2021
Annual Conference of Indian Fertility Society

FERTIVISION 2021

17th Annual Conference of Indian Fertility Society

More than 3000 logins for the main conference

300 International Faculties

80+ International Faculties

Nearly 2000 delegates participated in the 10 workshops organized

Original Research Papers were presented by 130 participants

Participated by 300 National Faculties
1st Prize: Anviti Saraf

2nd Prize: Y. Annapurna Bhavya Reddy

3rd Prize: Chandana.S.Bhat

Dr. Kuldeep Jain - Best Clinical Paper(<40 yrs)
Dr. Reeta Mahey - Dr Bhawani Shekhar

Dr. Kuldeep Jain - Best Embryology Paper(<40 yrs)
Dr. Monika Rajput

Dr. K.D. Nayar - Best Clinical Paper(>40 yrs)
Dr. Reeta Bansiwal

Dr. K.D. Nayar - Best Embryology Paper(>40 yrs)
Mr. Akhil Garg - Dr. N Sujatha Reddy
Brig R.K. Sharma - Best Poster (<40 yrs)
Dr. Sana Naqash

Brig R.K. Sharma - Best Poster above (>40 yrs)
Dr. Vasanthi Palanivel

Dr. Gouri Devi Prize - 1st Team in Quiz Competition
Dr. Bhawani Shekhar

Dr. Gouri Devi Prize - 2nd Team in Quiz Competition
Dr. Nidhi Tripathi

Dr. Umesh Jindal Best Paper Among Current Batch of IFS fellows
Dr. Prabhneet Kaur
Dr. Kriti Singh

Dr. Sonia Malik Prize Best Clinical IFS Fellow (1st in exit exam)
Dr. Jaya Kumari

Dr. Sonia Malik Prize 2nd Best Clinical IFS Fellow (2nd in exit exam)
Dr. Ruchika Sood

Dr. Abha Majumdar Best Published Original Research Paper 2021
Dr. Nidhi Sharma