A pregnancy loss (miscarriage) is defined as the spontaneous demise of a pregnancy before the fetus reaches viability. It includes all pregnancy losses (PLs) from the time of conception until 24 weeks of gestation.¹

Recurrent pregnancy loss (RPL) is defined as the loss of two or more pregnancies. This definition includes pregnancy losses both after spontaneous conception and ART, but excludes ectopic, molar pregnancies and implantation failure. It describes the cases where all pregnancy losses have been confirmed as intrauterine miscarriages.¹

PREVALENCE:
It is estimated that fewer than 5% of women will experience two consecutive miscarriages and only 1% experience three or more.¹
The risk of pregnancy loss is lowest in women aged 20 to 35 years and it rapidly increases after 40 years. Smoking could have a negative impact on their chances of a live birth, and therefore cessation of smoking is recommended.

Maternal obesity or being significantly underweight is associated with obstetric complications and could have a negative impact on their chances of a live birth and on their general health. Thus to maintain normal BMI.

Excessive alcohol consumption is a possible risk factor for pregnancy loss and proven risk factor for fetal problems (Fetal alcohol syndrome) and therefore limit the alcohol consumption.

RISK FACTORS AND HEALTH BEHAVIOUR MODIFICATIONS IN RPL PATIENTS

<table>
<thead>
<tr>
<th>S.No</th>
<th>Risk Factors</th>
<th>Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Female Age</td>
<td>The risk of pregnancy loss is lowest in women aged 20 to 35 years and it rapidly increases after 40 years.</td>
</tr>
<tr>
<td>2.</td>
<td>Smoking</td>
<td>Smoking could have a negative impact on their chances of a live birth, and therefore cessation of smoking is recommended.</td>
</tr>
<tr>
<td>3.</td>
<td>Body Mass Index</td>
<td>Maternal obesity or being significantly underweight is associated with obstetric complications and could have a negative impact on their chances of a live birth and on their general health. Thus to maintain normal BMI.</td>
</tr>
<tr>
<td>4.</td>
<td>Alcohol</td>
<td>Excessive alcohol consumption is a possible risk factor for pregnancy loss and proven risk factor for fetal problems (Fetal alcohol syndrome) and therefore limit the alcohol consumption.</td>
</tr>
</tbody>
</table>

ETIOLOGY/INVESTIGATIONS/TREATMENT OF RECURRENT PREGNANCY LOSS

<table>
<thead>
<tr>
<th>S.No</th>
<th>Causative factor</th>
<th>Recommended Screening</th>
<th>Not recommended</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cytogenetic</td>
<td>None a</td>
<td>Genetic analysis of pregnancy tissue. Parental Karyotyping</td>
<td>Genetic counseling</td>
</tr>
<tr>
<td>2.</td>
<td>Hereditary Thrombophilia</td>
<td>None b</td>
<td>Factor V Leiden mutation, Prothrombin mutation, MTHFR mutation, Protein C, Protein S Antithrombin deficiency</td>
<td>Antithrombophylaxis not recommended</td>
</tr>
<tr>
<td>3.</td>
<td>Acquired Thrombophilia (Antiphospholipid Syndrome)</td>
<td>Lupus anticoagulant, Anticardiolipin antibodies (IgG, IgM) β2glycoprotein I antibodies (IgG, IgM)</td>
<td>Inconclusive evidence</td>
<td>Low dose Aspirin (75-100mg/day) starting before conception. Prophylactic dose of Heparin (UFH/LMWH) starting on date of positive pregnancy test.</td>
</tr>
<tr>
<td>4.</td>
<td>Immunological factor</td>
<td>None</td>
<td>HLA testing, Cytokine testing, Antinuclear antibodies, Natural Killer cells, Anti HLA antibody</td>
<td>Inconclusive evidence</td>
</tr>
<tr>
<td>5.</td>
<td>Metabolic and endocrinologic</td>
<td>TSH/TPO antibodies, Prolactin p</td>
<td>Assessment of PCOS, Ovarian reserve testing, Serum fasting insulin Serum fasting glucose, Luteal phase insufficiency testing, Serum androgens, Serum LH</td>
<td>Levothyroxine for overt hypothyroidism and for subclinical hypothyroidism with positive TPO antibodies. Dopamine agonists for hyperprolactinemia</td>
</tr>
</tbody>
</table>
Genetic analysis of pregnancy tissue is not routinely recommended but it could be performed for explanatory purposes like providing the patient with a reason for the pregnancy loss and help to determine whether further investigations or treatments are required. For genetic analysis of the pregnancy tissue, array-CGH is recommended based on a reduced maternal contamination effect.

Parental karyotyping can be recommended based on genetic history (like in case of the previous birth of a child with congenital abnormalities, offspring with unbalanced chromosome abnormalities in the family, or detection of a translocation in the pregnancy tissue).

Hereditary hemophilia screening is done if there is family history or previous VTE.

Serum prolactin testing is considered when there are symptoms of hyperprolactinemia (oligo/amenorrhea).

If transvaginal 3D ultrasound is not available, MRI is considered.

Sperm DNA Fragmentation Test is done for explanatory purposes.

<table>
<thead>
<tr>
<th>S.No</th>
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<th>Recommended Screening</th>
<th>Not recommended</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>Anatomic (Congenital)</td>
<td>Transvaginal 3D Ultrasound.² If mullerian uterine malformations are there: Investigate for kidneys and urinary tract. If tubal patency to be investigated: SHG is preferred over HSG.</td>
<td>Metroplasty for bicornuate uterus. Uterine reconstruction for unicornuate uterus.</td>
<td>Hysteroscopy septal resection for septate uterus as it improves Live birth rate and decrease miscarriage rate.</td>
</tr>
<tr>
<td>7.</td>
<td>Anatomic (acquired)</td>
<td>Transvaginal 3D ultrasound</td>
<td>Inconclusive evidence</td>
<td>Insufficient evidence supporting hysteroscopic removal of submucosal / intramural fibroids or endometrial polyps or intrauterine adhesions</td>
</tr>
<tr>
<td>8.</td>
<td>Cervical insufficiency</td>
<td>Serial cervical sonographic surveillance is offered to women with a history of second-trimester PLs and suspected cervical weakness</td>
<td>Inconclusive evidence</td>
<td>Cerclage is considered In women with a singleton pregnancy and a history of recurrent second-trimester PL attributable to cervical weakness</td>
</tr>
<tr>
<td>9.</td>
<td>Male Factor</td>
<td>None *</td>
<td>Inconclusive evidence</td>
<td>Modification of lifestyle factors like, avoiding smoking, alcohol, excessive exercise and weight</td>
</tr>
</tbody>
</table>

α. Genetic analysis of pregnancy tissue is not routinely recommended but it could be performed for explanatory purposes like providing the patient with a reason for the pregnancy loss and help to determine whether further investigations or treatments are required. For genetic analysis of the pregnancy tissue, array-CGH is recommended based on a reduced maternal contamination effect. Parental karyotyping can be recommended based on genetic history (like in case of the previous birth of a child with congenital abnormalities, offspring with unbalanced chromosome abnormalities in the family, or detection of a translocation in the pregnancy tissue).

β. Hereditary hemophilia screening is done if there is family history or previous VTE.

μ. Serum prolactin testing is considered when there are symptoms of hyperprolactinemia (oligo/amenorrhea).

ζ. If transvaginal 3D ultrasound is not available, MRI is considered.

π. Sperm DNA Fragmentation Test is done for explanatory purposes.
No apparent causative factor is identified in 50% to 75% of couples with RPL. Patients with unexplained RPL to be counseled that the chance for a future successful pregnancy can exceed 50%-60% depending on maternal age and parity.

References


ABBREVIATIONS:

ART: Artificial Reproductive Techniques
MTHFR: Methylene tetrahydrofolate reductase
UFH: Unfractionated Heparin
LMWH: Low Molecular Weight Heparin
TSH: Thyroid Stimulating Hormone
TPO: Thyroid Peroxidase
TPO Ab: Thyroid Peroxidase Antibody
PCOS: Polycystic Ovarian Syndrome
SHG: Sonohysterography
HSG: Hysterosalpingography
VTE: Venous Thromboembolism
15th Annual Congress of Indian Fertility Society
FERTIVISION 2019
6-8 December
The Leela Ambience Hotel, Gurugram
New Delhi | India

Organised by
Indian Fertility Society

Theme: Beyond Tomorrow

First Announcement

www.fertivision2019.com
Invitation

Dear Friends, Welcome to FERTIVISION 2019

On behalf of the Indian Fertility Society (IFS), we are extremely pleased to announce and cordially invite you to the much awaited academic event – the 15th National Annual Conference - Fertivision 2019, to be held on 6th, 7th & 8th December 2019 at Hotel The Leela Ambience, Gurugram, New Delhi / NCR, India.

This conference is aimed to provide the most comprehensive academic platform in the field of Infertility and Assisted Reproductive Technology (ART)” befitting the theme of the meeting “Beyond Tomorrow”

Renowned and leading expert faculty from around the world would gather and deliver talks in our cutting edge scientific program which will not only enrich your current knowledge and clear all doubts faced in day-to-day clinical practice, but will also enlighten you about the latest innovations and ongoing research.

A large number of renowned international faculties have already confirmed their participations till date. The pre-congress workshops on 6th December are specially designed for informal in-depth training with hands on sessions on simulators and live, where ever feasible. There will be 4 simultaneous running streams on 7th & 8th December covering a wide variety of topics, enabling you to choose the deliberations specific to your area of interest and clinical practice. We are having a dedicated hall for the esteemed embryologist friends.

The best oral and poster presenters under various categories and the quiz winners will be honored with special awards and prizes. Do join us in large numbers and update your knowledge with most updated current standards in clinical practice, as well as get inspired to innovate further to overcome remaining enigmatic issues!

The three days of scientific program will encompass didactic lectures, keynote presentations, panel discussions and orations. There will be 9 Pre-conference workshops based on Ovulation Induction, Ultrasound, Andrology, Embryology, Hands on Embryo Transfer, Ovum Pickup and PGS and more. These workshops will be in addition to the special state of the art workshops by the faculty from IFFS and ESHRE. We expect delegates across India, Sri Lanka, Bangladesh, Nepal, Middle - East Countries and African Nations and the arrangements are being made to accommodate more than 2500 delegates.

The exhibition area will be one of the highlights of the conference. Exhibiting provides tremendous benefits to both participating industry and the society. Tea, coffee and lunch will be served confluent with the trade area to allow optimal interaction between the trade companies and delegates during beverage and lunch breaks.

We invite you to participate in the Fertivision 2019 and exchange your expertise with more than 2500 specialists in the field of Assisted Reproduction.

We look forward to your active participation and suggestions for successful conduct of the conference.

With Our Best Regards

Dr. M Gouri Devi
Organizing Chairperson
FERTIVISION 2019

Dr. Pankaj Talwar
Organizing Secretary
FERTIVISION 2019

and All Executive Committee of Current IFS team
Choose from 10 Pre Conference Workshops | 6 December

1) IFFS Workshop on Do’s and Don’ts in Ovarian Stimulation
2) Reproductive Surgery
3) Ultrasound Imaging In Infertility
4) Andrology & Semenology
5) Ovum Pickup and Embryo Transfer (With Simulators)
6) Cryobiology
7) Total Quality Management
8 A) Holistic Medicine and Patient Counselling
8 B) Publish or Perish
9) PGT and Genomics
10) A Great Opportunity for All of Us to Amalgamate the Most Updated Current Standards in Our Clinical Practice and Look Beyond Tomorrow

Registration Details

<table>
<thead>
<tr>
<th>Category</th>
<th>Early Bird Fees</th>
<th>Regular Fees</th>
<th>Onspot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Till 1st September 2019</td>
<td>Till 15th October 2019</td>
<td></td>
</tr>
<tr>
<td>IFS Member</td>
<td>INR 10500</td>
<td>INR 12500</td>
<td>INR 14500</td>
</tr>
<tr>
<td>Non IFS Member</td>
<td>INR 12500</td>
<td>INR 14500</td>
<td>INR 16500</td>
</tr>
<tr>
<td>Conference Registration plus Life Time IFS Membership</td>
<td>Embryologist INR 14500</td>
<td>Embryologist INR 16500</td>
<td>Embryologist INR 18500</td>
</tr>
<tr>
<td></td>
<td>Gynaecologist INR 15500</td>
<td>Gynaecologist INR 17500</td>
<td>Gynaecologist INR 19500</td>
</tr>
<tr>
<td>PG Students (No Dinner)</td>
<td>INR 6000</td>
<td>INR 7000</td>
<td>INR 8000</td>
</tr>
<tr>
<td>Accompanying Person</td>
<td>INR 10500</td>
<td>INR 11500</td>
<td>INR 12500</td>
</tr>
<tr>
<td>Foreign Delegates</td>
<td>$350</td>
<td>$400</td>
<td>$500</td>
</tr>
</tbody>
</table>

Inclusive of 18% GST

Register at www.fertivision2019.com
The Leela Ambience Hotel & Residences is located on the fringe of the Gurgaon Central Business District, fifteen minutes from Delhi’s International Airport and thirty minutes from Central Delhi.

In addition to 322 contemporary and world class five star deluxe rooms and suites, The Leela Ambience Gurgaon also features 90 residencies (with one, two and three bedroom) fully serviced luxury Residences.

Multi Award winning restaurants include; Multi-cuisine all day dining– Spectra, Italian – Zanotta, cucina Italiana, North Indian – Diya and whisky bar- Rubicon. The "Royal Club" is located on the 6th floor of the Hotel. The Royal Club features are 24 hour butler service, with evening cocktails and a Boardroom.

The 27,000 square feet, beautifully finished convention facilities, meeting and boardrooms were recently awarded the prestigious 5-Star deluxe "Best Luxury Hotel and Conference Centre – India".

This venue has been chosen with a lot of care and thought keeping in mind the comfort and also enjoyment of the delegates when visiting Delhi.

Conference Secretariat

Indian Fertility Society
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C.P, New Delhi - 110001
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+91-11-40018184

Conference Manager

Conferences International
Mr. Sumeet Ghai
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Opposite Kali Masjid, Savitri Nagar
New Delhi – 110017
Mobile: +91 9560493999

fertilvision2019@gmail.com
15th Annual Congress of Indian Fertility Society

FERTIVISION 2019
6-8 December
The Leela Ambience Hotel
Gurugram, New Delhi, NCR | India

Registration Form

Title Prof/ Dr/ Mr/ Ms ___________________________________________
Gender : Male □ Female □
First Name ___________________________________ Last Name _______________________________
Institution ___________________________ IFS Member No. __________________________
Correspondence Address ________________________________________________________________
City ___________________________________ Pin Code __________________________ State ________________________
Mobile No. ____________________________ Email _________________________________________________

Choose from 9 Pre Conference Workshops | 6 December
Choose Any 1 Workshop

1) [ ] IFFS Workshop on Do’s and Don’ts in Ovarian Stimulation
2) [ ] Reproductive Surgery
3) [ ] Ultrasonography Imaging In Infertility
4) [ ] Andrology & Semenology
5) [ ] Ovum Pickup and Embryo Transfer (With Simulators)
6) [ ] Cryobiology
7) [ ] Total Quality Management
   Pre Lunch Workshop (0900 - 1300 Hrs)
8 A) [ ] Holistic Medicine and Patient Counselling
   Post Lunch Workshop (1400 - 1700 Hrs )
8 B) [ ] Publish or Perish
9) [ ] PGT and Genomics

Conference Registration Fees Includes
- 18 Hrs of World Class Academic Program with Access to Best & Brightest International & National Faculty
- 3 Lunches and 6 Tea / Coffee Served During the Conference on 6, 7 & 8 December
- Banquet Dinner on 7 December
- Conference Kit (Including Bag, Badge, Notepad, Certificate & Pen)
- 1 Pre Conference Workshop
- Accompanying Person is Entitled for Food Coupons Only

Cancellation Policy
- Cancellation till 31st October, 2019 – 50% Refund.
- Cancellation from 1st November, 2019 – No Refund.
- All refunds will be made after the congress.

Cheque / Draft No. ____________________________________________
Total Amount ____________________________

Note: Kindly email us bank deposit slip / UTR number once you made the payment for our record.
Payment confirmation will take 7-10 working days post deposit of cheque, DD or RTGS

3. To Register online log on to www.fertivision2019.com

Mode of Payment
1. Bank Draft/Cheque - To be made in favor of “INDIAN FERTILITY SOCIETY”
2. Bank Transfer Details
   IFS Account Name : Indian Fertility Society
   Account Number: 50562010067180
   IFSC Code : ORBC0100179
   Bank Name: Oriental Bank of Commerce
   Branch: Connaught place, New Delhi- 110001

Congress Manager’s
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Conferences International
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