



SEPTEMBER. 2020 | EDITION 2 | BI-ANNUAL NEWSLETTER

MIRROR VISMAYA



VISION

To provide comprehensive and customised health services of global standards to all women with particular emphasis to high risk pregnancies.

MISSION

To provide 'Quality Service' with 'Honest Practice' that is both ethical and evidence based. Mirror Health is a radical and earnest women's health center with a strong drive to provide high end health care services for women.

Established in April 2016, Mirror Health is currently expanding to attain it's fullest potential of comprehensive health care solutions for women with a primary emphasis on high risk pregnancy care. Many of the modest gains in women's health realised in recent decades are now threatened or have been reversed, thus compelling instant explications with honest evidence based clinical practices.



Dr Govindarajan M.J MBBS, MD (Radio Diagnosis), MBA (Health Care) Chief Consultant Radiologist Director

ADMIN TEAM



Dr Revathi S Rajan MBBS, DGO, DNB(OBG), FFMM (RGUHS) Chief Consultant (Maternal Fetal Medicine) Managing Director



D.Srikanth B.E, ISE General Manager



MIRROR-HEALTH NEWS

This newsletter provides health information and insights from Mirror Health Experts, featuring information on common health topics and interests, health tips, patient stories, updates in medical research and clinical trials, upcoming events, health recipes and much more!!



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CONSULTANT PANEL

OUR SERVICES

Dr Govindarajan M.J

MBBS, MD (Radio Diagnosis), MBA (Health Care) Chief Consultant Radiologist Director

Dr Revathi S Rajan

MBBS, DGO, DNB(OBG), FFMM (RGUHS) Chief Consultant (Maternal Fetal Medicine) Managing Director

Dr Deepika. K

MBBS, MS, FRM(RGUHS) Consultant (Reproductive Medicine)

Dr

Dr Shashikala. T

MBBS, DGO, FIGE, FRM Consultant (Gynaec Endoscopy)

Dr Lokesh T.R MBBS, DCH, DNB Consultant (Paediatrician)

> Dr Sapna. T MBBS, MS General Surgeon

Dr Binduraj MBBS, MD General Physician

Dr Nandakishore S.K

MBBS, MS, DNB (Urology and Andrology), MD (Fellow in Endourology) Consultant (Urologist / Andrologist) Mrs. Shubha T.G M.Sc., Diploma in Clinical trials, Nutritionist

D. Srikanth B.E, ISE General Manager

WOMAN'S HEALTH CONSULTATION SERVCIES

High Risk Pregnancy Care Inutero Fetal Programming Infertility Care

Gynaecological Care

Adoloscent Health Care Premarital and Preconceptual Counselling

Comprehensive Breast Care

Menopausal and Postmenopausal Care

> Nutrition and Lifestyle Consultation

IMAGING AND INTERVENTIONAL SERVICES

Woman's Imaging

Ultrasound, Doppler

Tele Radiology Services

Second Opinion on Imaging in Cancer Patients

Image guided procedures -Aspirations, Biopsy, Drainage

Varicose Vein Management (RFA, Laser Ablation, Sclerotherapy)

NEWBORN & PAEDIATRIC CARE

LABORATORY SERVICES

PHARMACY SERVICES CANCER SCREENING CONSULTATION, EXPERT TELECONSULTATION AND VIDEO CONFERENCE CONSULTATION SERVICES

SCREENING FOR PRE-ECLAMPSIA (PE) IN THE FIRST TRIMESTER

Dr Revathi S Rajan, Chief Consultant (Maternal Fetal Medicine) & Managing Director, Mirror Health, Bengaluru

Introduction/Relevance/Evidence

'Pre-eclampsia' is a multisystem disorder with origin in early pregnancy. Its pathophysiology is complex and involves maternal/fetal and placental factors. **'Pre-eclampsia'** is the second leading cause of maternal mortality worldwide. The incidence is about 5 to 8% globally; though it ranges between 8 to 10% in India.



Atypical presentations would result in aclinical dilemma for diagnosis.

The conventional definitions based on high blood pressure and proteinuria no longer help map the disease precisely. This has triggered extensive research in the field of angiogenic biomarkers that map the root cause of disease (maldevelopment of placental vasculature resulting in decreased perfusion and consequent hypoxia; contributing to endothelial damage and hypertension).



Identifying early onset pre-eclampsia much before the onset of clinical is the need of the hour disease to allow for risk modulation, as this kind of disease could warrant a preterm delivery with serious maternal and perinatal consequences.

Screening for pre-eclampsia has now assumed paramount significance and when well implemented could add value to channelize the

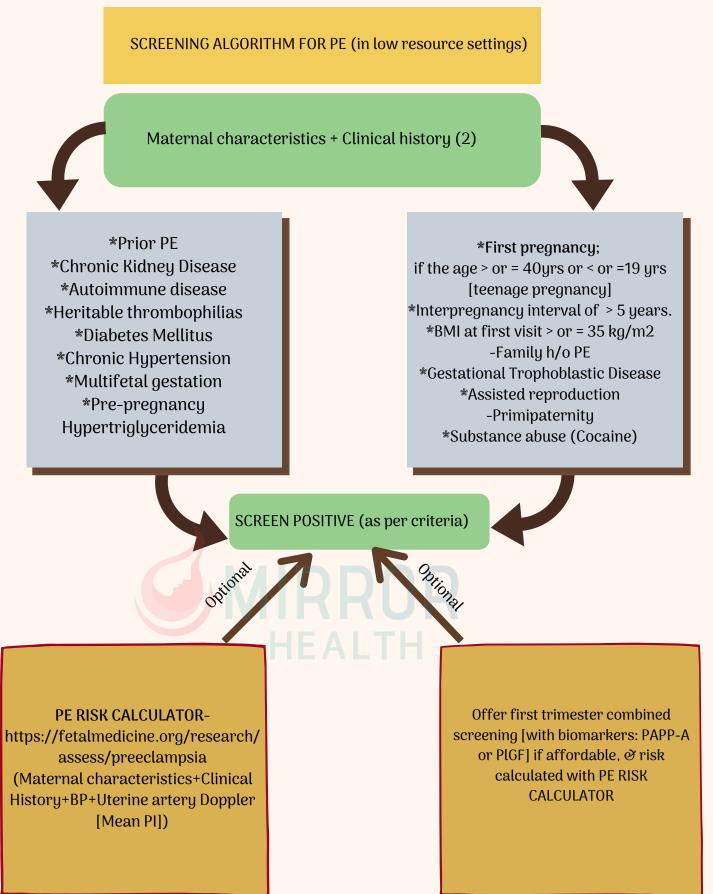
available resources for surveillance and monitoring of the 'at risk' groups.

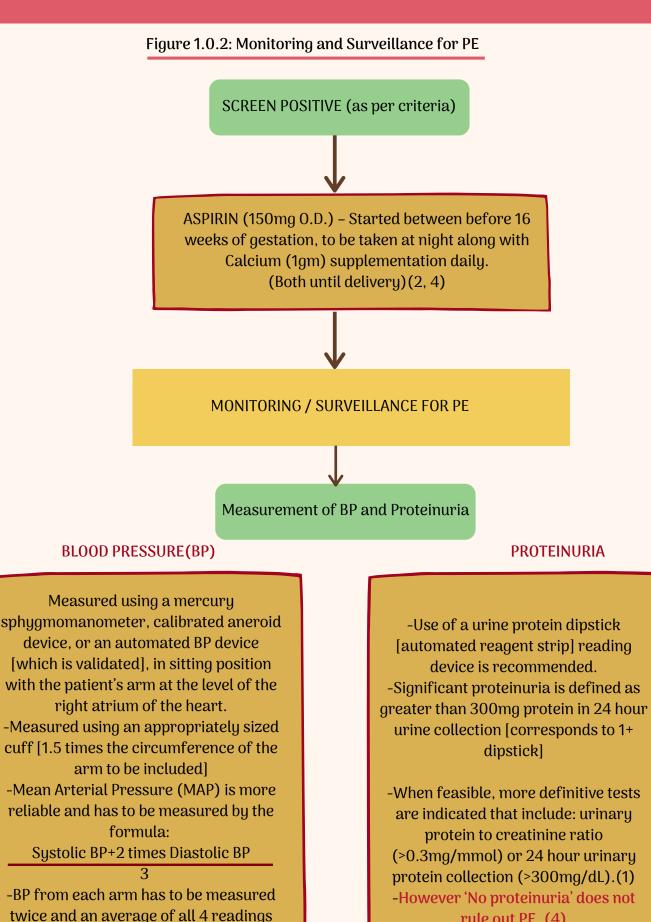
The US Preventive Services Task Force-(USPSTF) has found adequate evidence that screening for PE resulted in substantial benefit to both the mothers and the newborn based on the MAGPIE and the HYPITAT trials.(1)

Method of Screening- The Rationale

Pre-eclampsia is heterogenous in terms of its causation and presentation. Hence the disease could be reflected better with two or more biomarkers associated with different pathological processes when added on to patient characteristics.

Figure 1.0.1: Screening Algorithm for PE (adopted by FOGSI for HDP Protocols -2018)





rule out PE. (4)

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must be calculated and MAP has to be derived by the above formula. (2

Summary

- Pre-eclampsia is a complex heterogenous disease, making its prediction difficult which should be based on multiparametric approaches.
- Maternal characteristics and clinical history is the mainstay for screening especially in low resource countries.
- Screening for PE with a combination of biomarkers and uterine artery doppler performs much better than other methods, but this may have limitations in terms of high cost. This could be used in the high risk population after extensive counselling.
- Role of biomarkers for prediction of PE and adverse maternal/perinatal outcomes needs to be researched in future through large multicentric trials.

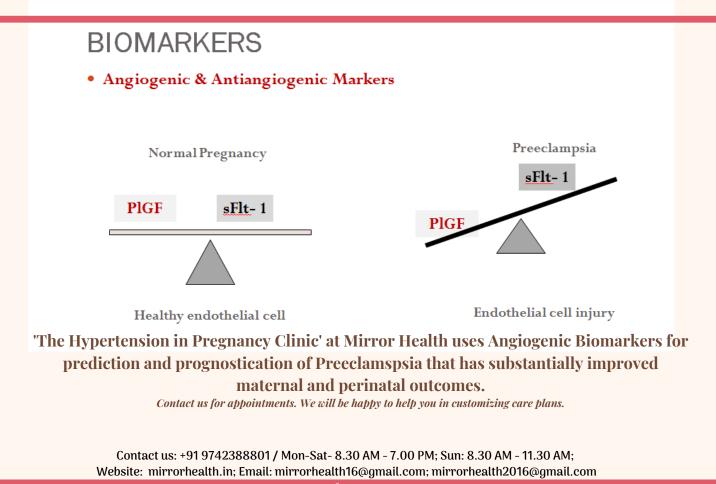
References

1. US Preventive Services Task Force - Recommendation Statement. JAMA. (2017); 317(16):1661-1667.

2. Hypertensive Disorders of Pregnancy (HDP) - FOGSI Guidelines (2018).

3. D. L. Rolnik, D. Wright, L. C. Y. Poon, A. Syngelaki, N. O'Gorman, C. de Paco Matallana et al. ASPRE trial: Performance of screening for preterm pre-eclampsia. Ultrasound of Obstetrics & Gynecology, (2017);

4. The classification, diagnosis and management of the hypertensive disorders in pregnancy: A revised statement from the ISSHP (2018)

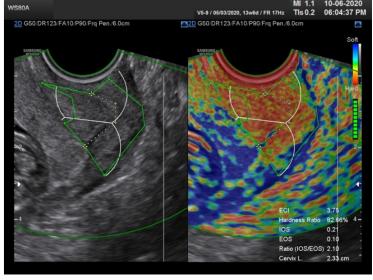


CERVICAL ELASTOGRAPHY

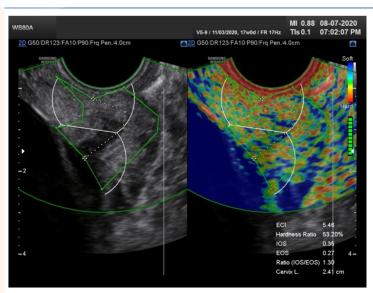
MBBS, MD (Radio Diagnosis), MBA (Health Care) Chief Consultant Radiologist, Director Mirror Health, Bengaluru

- A new tool to assess the softness/hardness of the uterine cervix (mouth of the womb)
- A cutting edge technology introduced for the first time in Bengaluru, (India) that can significantly support clinical decision making in an effort to avert preterm birth/ mid-trimester abortion.
 - Colour coded images provide good idea about the consistency.
 - Quantitative assessment using highly sophisticated application provides for accurate evaluation and interpretation.
 - A soft cervix can lead to premature labour or mid trimester abortion.

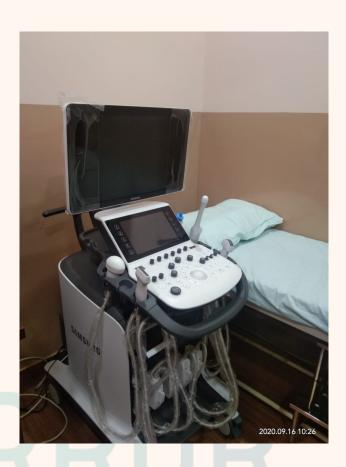
The knowledge regarding consistancy of the cervix in the early part of pregnancy can help the doctor to intervene appropriately leading to improved pregnancy outcomes.



13 weeks pregnant-hard cervix - ECI 3.75 and hardness ratio - 82.7%



17 weeks pregnant-soft cervix - ECI 5.46 and hardness ratio - 53.2% This suggests imminent abortion





MIRROR ACADEMIA



Dr Revathi S Rajan

Dr Meghana Sreenath

Mirror Academia is involved in collaborative research that is based on '**Preeclampsia'** (a serious form of hypertension in pregnancy).

Dr Revathi S Rajan is the primary researcher supported by research assistants Dr Meghana Sreenath and Mr D.Srikanth. Currently the research team at Mirror Health has been working on the Role of Angiogenic Biomarkers (sFlt-1 / PlGF) in the prediction and prognostication of preeclampsia.

The team is also working for a collaboration with Molecular Biologists from reputed research centres in Bengaluru in an attempt for quick and easy diagnosis of Preeclampsia.

Dr Govindarajan M.J has also been presenting talks based on Onco-Imaging to a pan India audience through webinars disseminating latest scientific information to one and all.



Dr Govindarajan M.J

Mr D. Srikanth

Mirror Health hosts **THE SOCIETY FOR MATERNAL FETAL MEDICINE (INDIA);SMFM(I)** This society encompasses like-minded clinicians who are involved in the management of high risk pregnancies – **Website:** <u>http://smfmi.com/</u>



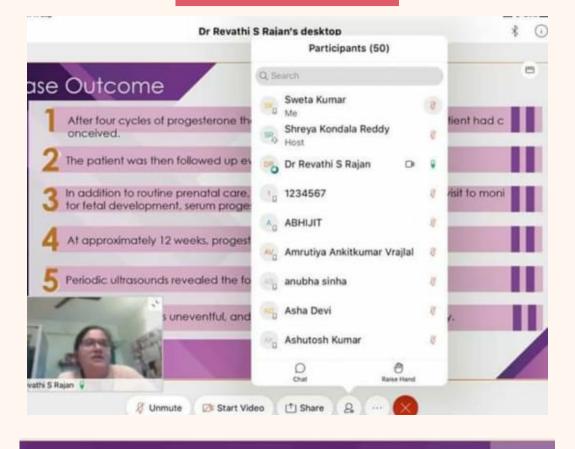
MIRROR WEBINARS - 1



A webinar (coordinated by Roche India) on the clinical utility of biomarkers in averting adverse maternal and fetal outcomes to a chain of IVF centers (INDIRA IVF) pan India (held on 07-0 8 2020) from MIRROR Conference Room. Dr Revathi S Rajan was the key speaker that included a virtual audience from all over the country.

Management of difficult pregnancies (high risk) especially after IVF ; considering most elderly women are getting pregnant now with preexisting medical problems was discussed. This was based on a test (sFlt-1 / PlGF) that could be used in the prediction and prognostication of preeclampsia (a serious form of hypertension in pregnancy) was discussed from the Indian context.

MIRROR WEBINARS - 2



Background

thi S Rajan 💡

- Pregnancy outcomes could be influenced by a <u>complex interaction at the</u> <u>maternal fetal interface</u> reflected as challenges and countered by adaptive mechanisms.
- Anticipation and Surveillance for these perceived challenges with incorporation of appropriate risk modulation strategies is the key that better fertility and pregnancy outcomes.



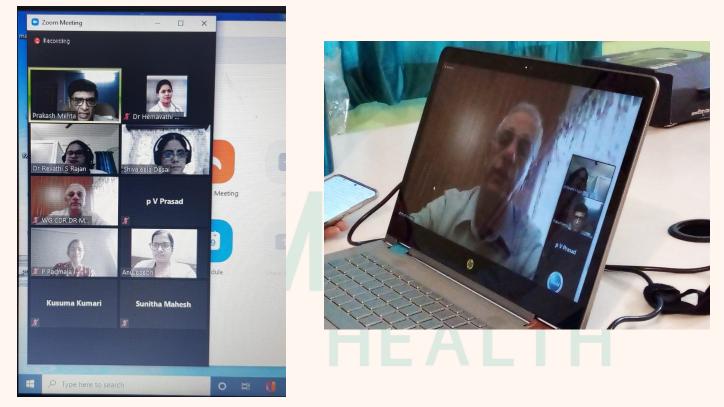


SMFM(I) WEBINARS - 1 & 2



Dr Revathi S Rajan is the current Secretary for the SMFM(I) and participated in two LIVE webinars (held on 18-07-2020 and 16-09-2020) in collaboration with ANBAI (Association of National Board Accredited Institutions).

There were two such webinars and each of these were co-hosted by SRL(India) and Shield Healthcare respectively.



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GRADUATION DAY



Mirror celebrates ' New Moms with their little ones' on their Graduation Day !!







MIRROR CELEBRATIONS









WOMEN'S HEALTH CAMP

Team Mirror conducted free health checks and also performed free testing of Haemoglobin percentage, GRBS and Body mass composition including testing for bone density.

A comprehensive consultation by Dr.Revathi S rajan (Obstetrician and Gynecologist/ MFM Specialist) added value to the participants.







MARCH INTERNATIONAL WOMEN'S DAY (HEALTH CAMP)



The camp got in paticipants from in and around Basaweshwaranagar and lasted for 3days (2 hours each day). The participants extended good reviews about its coduct





















TRIAGE AREA Internet in the second se

TRIAGE AREA OUTSIDE THE CLINIC TO FACILITATE PATIENT STRATIFICATION







BODY TEMPERATURE CHECKS WITH

DECLARATION FORMS INDICATING PURPOSE OF VISIT / TRAVEL HISTORY









SOCIAL DISTANCING

We facilitate speedy consultation/review process by meticulous scheduling of patient appointments
We also insist to fetch **only one attender** with the patient.

PERIODIC SANITIZATION OF THE PREMISES













Ms Rekha & Ms Akhila - Front Office Executives /Scan room Coordinators



Mr Tom Chief Pharmacist

Sr Jessy - Staff Nurse



Mr Arjun - Assistant Pharmacist

Mirror Pharma







Ms Nisha – Phlebotomist Mirror Lab



Ms Bhagyamma



Housekeeping



Support Staff

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WS 80 Elite

This high end ultrasound machine is designed specifically for women's imaging. Features include –

- Complete range of obstetric scans
- 3D, 4D
- Cervical Elastography
- Breast ultrasound with elastography
- Colour Doppler
- Gynaecological Imaging of uterus and ovaries
- 3D of uterus

• Infertility Imaging - Follicular growth monitoring,

Endometrial evaluation, VOCAL





TH celebrates

RROR

NATIONAL NUTRITION WEEK

s1st to 7th-Sep-2020



Contact us

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Patients write...



It was a wonderful experirence at Mirror Health over last 3 years. Tiring & dedicated efforts of Dr Revathi ensured we could have our second baby. The meticulous efforts put in by her combined with her in detail observations & follow ups can match to none. Her personal connect with each of her patients is commendable. She took extreme care that every minute detail was taken care throughout our journey without which this dream of ours would not have been possible. We thank her, Dr Govindarajan M.J and the entrie team at Mirror Health for their whole hearted service. The sisters have been really kind & friendly. The front desk staff have also been very patient friendly. We would like to share our happiness with all of you and our sincere gratitude to Dr Revathi and team Mirror Health. Wish to continue this association as far as it could go. Happy to share the birth of our second daughter on 30–6–2020 !

We had almost given up of conceiving after trying for many years. We had a pleasant surprise when we figured out that we had conceived naturally. the initial happiness turned to fear & anxiety due to the past events where we encountered preeclampsia & gave birth to a pre mature baby who did not survive long.

But, Dr Revathi & her team have done a fantastic job so far in giving us hope & assurance. We are now relaxed & eager to delver babies. Waiting for the day when we can come back and click pictures. Thanks for all that you have done in the past months.

I am very thankful to Dr Revathi S Rajan & Dr Govindarajan for helping me out for successful pregnancy.

Thank you so much for the difference you make in lives of your patients. Your kindness, sincere caring & concern make everything better and are a great encouragement. Thank you so very much for taking care of me and being so skilled at what you do. Every day of my life will be better beacause of you.

Great Work!!!

NOTE:

• These are **feedbacks** from our **registered patients** which have been published **verbatim** after relevant consenting.

Actual identity of the patient has been kept anonymous. Concerned documentation is under the ownership of Mirror Health. Contact us: +91 9742388801 / Mon-Sat- 8.30 AM - 7.00 PM; Sun: 8.30 AM - 11.30 AM; Website: mirrorhealth.in; Email: mirrorhealth16@gmail.com; mirrorhealth2016@gmail.com

