



The Mumbai Obstetric & Gynecological Society

MOGS MATTERS

31st August 2020 | Issue 3



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www.mogsonline.org





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MANAGING COMMITTEE & YC REPRESENTATIVES 2020-2021

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President's Message

Dear friends

It gives me great pleasure to bring to you the third issue of our innovative and now extremely popularE-newsletter, 'MOGS MATTERS'.

This monthly newsletter brings to you all the latest updates which are relevant to you in your daily practise. There is also focus on 'Fit is it" our mantra for the year. Also mind games to keep



your mind sharp and a lot more. The editor Dr KedarGanlaand all the contributors have made a lot of effort to bring you concise information and creative content and we are thankful to them.

I am sure you enjoyed the unique 'Youngistan' conference -By the young for the young at heart conference and the many focussed webinars we did in the month of July 2020. I am sure the 'Pearls of wisdom' videos which you are receiving regularly are adding to your knowledge..

In august we bring to you our digital PG training programme-The NA Purandare practical training event which has hundreds of young doctors tuning in, our outreach programmes and many webinars. On 30th august we host the Conflict to Clarity conference on the digital platform with many outstanding international and national speakers.

I really look forward to interacting with you on many different platforms this yearthrough newsletters, webinars, facebook events, small group meetings and many more, till the situation of the pandemic settles down and we can have larger conferences and meet again.

I request all of you to support MOGS V CARE AND SHARE Program and donate generously through our online portal or bank transfer to MOGS. Many supporting activities for our gynaecology colleagues who are COVID warriors are being carried out through this.

Thank you once again for all your support over the years and look forward to a wonderful year at MOGS.

Stay safe , stay healthy.

Best wishes

Rishma Dhillon Pai

M.D. , F.R.C.O.G (UK), D.N.B, F.C.P.S, D.G.O., F.I.C.O.G
President MOGS.
Asst. Treasurer - International Federation of Fertility Societies (IFFS)
President 2018-19 - Indian Society for Assisted Reproduction (ISAR)
President 2018-19 - Indian Association of Gynaecological Endoscopists (IAGE)
President 2017 - Federation of Obstetricians & Gynaecologists of India-(FOGSI)



Editors Message

Dear Friends, Seniors and Colleagues,

At the outset, let me wish you all the best of health and happiness in these troubled times. We are all trying our best to adjust to the 'new normal', facing challenges and making solutions that we would have never thought possible. However, the pandemic has been a wake-up call for us. It has tested our abilities to stand up again after taking a blow. And left us with a memory that we cannot take the simple things in life for granted.



To celebrate our march towards regaining our life back, I proudly present to you the July & August issue of our monthly newsletter, MOGS matters. This issue will be focussed on the management of recurrent pregnancy loss, with articles covering the anatomical, immunological, genetic and unexplained causes of recurrent pregnancy loss. We have tried to keep these articles as specific as possible, so as to give you crisp take home messages that you can use in your daily practice.

This month has seen a lot of important events: The Youngistan conference, which was the first ever conference organised entirely by the youth council of MOGS. The energy and enthusiasm with which they executed this event as their own is, in itself, a testimony to the fact that the future of this organisation is in dependable hands. We also had the meeting with Heads of Departments of various municipal and government medical colleges, and we strive to strengthen our bond with them for better patient care. Through our ongoing program – 'V care and share', we are trying our best to support our residents and consultants who are working selflessly at the frontlines. Our CME activities continued with outreach programs and Dr NA Purandare teaching programs for post graduates.

But this issue has yet another highlight from our young guns, some of whom are part of the youth council of MOGS. In the last decade, gynaecology has evolved into various defined sub-specialities, each requiring a distinctive training and dedication to master. Recognising the dilemma faced by our post graduates, we decided to have a series on "The road after PG: Been there, done that". This includes a personal account of some of our youth council members who chose to specialise in endoscopy, IVF, and others who specialised in oncosurgery and fetal medicine. We hope that their journey and their advice will inspire and educate others who wish to follow the same path, but do not know how.

Lastly, we hope to liven up your spirits with puzzles, games, recipes and more by our members. We hope these will refresh your mind and prepare you for what lies ahead tomorrow with new zeal!

Wishing you the best in life always

Dr. Kedar Ganla

MD, DNB, FCPS, DGO, DFP, FICOG Consultant fertility physician & Director- Ankoor Fertility Clinic Jt Clinical Secretary, MOGS



Dr Anahita Chavan

MD, DGO,DFP,FICOG Former Prof and HOU Seth G S Medical College and KEM Hospital Secretary MOGS Second Joint Assistant Editor JOGI

MOGS MATTERS 3



MOGS extends a helping hand to our frontline healthcare workers. Our members have been kind enough to donate generously to this noble cause of supporting our colleagues who are leading the battle against this dreaded disease. We would like to thank the following members for their support. **Dr. Hrishikesh Pai, Dr. Rishma Dhillon Pai, Dr. Shobhana Mohandas, Dr. Shrikant Purandare, Dr. Dhaval Belvi, Dr. Nandini Ram Babu**

The MOGS V Care and Share Program is continuing its efforts in helping frontline workers and patients during the Covid pandemic.

In the last month, we focussed on:

- Income generation through private donations
 - o We were able to raise an additional Rs. 1 Lakh from private donors, through sms campaigns and personal appeals
- Distribution of care packages to breast feeding Covid positive and negative mothers
 - o 200 packages were distributed to select BMC teaching hospitals as part of the World Breastfeeding Week celebrations.
 - o These packages contained masks, hand sanitizers, soap and protein powder sachets, along with a note in Marathi encouraging mothers to breast feed
 - o This was done through our own funds along with donation of protein powder sachets by Abbott
 - o Dr. Reena Wani and Dr. Madhuri Mehendale along with Youth Council members Dr. Pradnya Supe and Dr. Pradnya Chengade helped in this activity
- Distribution of care packages to our resident doctors
 - o Our major activity in August was to focus on the health, immunity and nutrition of resident doctors who are working tirelessly during the pandemic
 - o We distributed 330 care packages to residents in all the major public and teaching hospitals -KEM, Sion, Nair, JJ, Cooper, Wadia, Bombay Hospital, Somaiya and DY Patil
 - o Each package had healthy non perishable snacks like chikki, oats cookies, peanuts and nonfried snacks which we purchased through our own funds
 - o Youth Council members Dr. Bhumika Kotecha Mundhe and Dr. Nidhi Shah helped with this activity
 - o This activity was supported by Zuventus who added surgical face masks, caps, sanitizer, and a month's supply of zinc tablets to each package
- Support to Family Planning Association of India (FPAI)
 - o FPAI has been doing excellent work through the pandemic and have continued to offer all FP services through their centres in Mumbai to more than 5600 clients
 - o They appealed to us for help with protective equipment
 - o We donated 50 PPE, 50 N 95, 20 face shields and 200 surgical masks to them which were greatly appreciated

The fight is not yet over and we will continue to make a small but meaningful difference in the coming months through our V Care and Share Program.



World breastfeeding week Distribution of 200 care packages to BF mothers







KEM Hospital





In service of COVID WARRIORS



• Healthy oats cookies • Lite chivda • Peanuts • Chikki



Sorting and packing 330 bags





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Cooper Hospital



Wadia Hospital



J J Hospital



Bombay Hospital





We are grateful to these members for their generous donations. Kindly continue to support MOGS V CARE & SHARE. We encourage our members to contribute whatever they can to this noble cause. Donations can be made via our website <u>www.mogsonline.org/vcareshare/</u>

Online payment gateway on MOGS website

http://mogsonline.org/vcareshare/





Mogs App- Version 2 Launch

MOGS app was launched initially in the year 2018 under the leadership of the then MOGS president Dr. Bipin Pandit with the idea of having all MOGS. activities to go digital.

- MOGS app version 2 was launched the Youngistan conference. The new and updated version has many new features including application for MOGS membership, events calendar, access to previous orations, monthly newsletter and members directory.
- There is a section for interesting videos which members can submit to the MOGS office and it will be available for viewing on the app.
- MOGS also introduces monthly quiz where winners will collect points and the winner at the end of six months will get an attractive prize.
- There is also Case of the Month section in which members can submit their entries of interesting cases to the MOGS office.

We invite all members to download the app and engage in MOGS activities with the new and improved version 2 of MOGS CONNECT app.

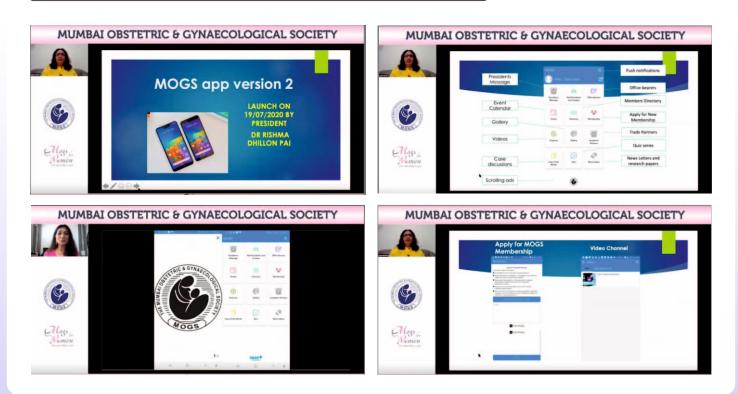
Click here for MOGS App

Android:

https://play.google.com/store/apps/details?id=com.smarthumanoid.mogs&hl=en_IN

iOS

https://apps.apple.com/in/app/mogs-connect/id1380675239





Mogs

Nomen

Click here for MOGS Twitter Handle :

https://mobile.twitter.com/mogshq



Dear Colleagues and Friends, Block your date and time:8th August 2020 from 4pm to 6pm. Register FREE NOW at togwebinar.com/ webinar98/ @MOGSHQ presents an informative #TOGWebinar on "Successful Outcomes In Ovarian Dysfunction." Listen to the Expert Dr.Jyotsna Pundir, UK talk (1/2)



25 views

14:32 · 07 Aug 20 · Twitter for iPhone

MOGS Flag

FLAG FOR MOGS GREEN: Balance, harmony, growth. Green is the color of nurturing and healing. BLUE: The colour of trust, responsibility, honesty and loyalty. Trustworthy **PINK: Represents** compassion, nurturing and love. Pink is feminine, caring and thoughtful THE MUMBAI OBSTETRIC WHITE: Is the colour of & GYNAECOLOGICAL SOCIETY perfection. It's the colour of new beginnings. Purity



Mogs News

1) MOGS CME on "Impact of Influenza in Pregnancy" on Saturday 11th July, 2020.

Торіс	Impact of Influenza in Pregnancy
Date and time	11th July, 2020.5-6.30 pm
Master of Ceremonies	Dr.Shreya Prabhoo
Chairpersons	Dr.Vaishali Chavan from Pune,
	Chairperson of FOGSI Perinatology Committee
	Dr.Kalyan Barmade from Latur,
	FOGSI Chairperson of Public Awareness Committee.
Inflenza -a public health issue in india	Dr. Raja Dhar (Pulmonologist from Kolkata),
Impact of Influenza in Pregnancy	Dr.SuchitraPandit,
Myths of Vaccination in Pregnancy	Dr.AnahitaChauhan.
Question & Answer session	moderated by Dr Parikshit Tank
Total attendance	262
Educational Grant	GSK







2) Experts Views on Intrauterine Insemination

Venue	Zoom meeting webinar
Date and time	12th July 2020 : 11am - 1pm
Esteemed Guests	Dr. Rishma Pai, Dr. Anahita Chauhan, Dr. Rajendra Sankpal
Speakers	Dr. Kundan Ingale, Dr. Jatin Shah, Dr. Manish Banker, Dr. Kedar Ganla
Master of Ceremonies	Dr. Jiteeka Thakkar
Talks	Speakers highlighted on the following topics
	Investigations
	 Evaluation before stimulation for the couple
	 Ovulation Induction in normal, hypo & hyper Responders
	• Luteal Phase support
	• Clinicians perspective in IUI .
Panel Discussion	Conducted by Dr. Rishma Pai on the questions being put up by the
	viewers and delegates . More than 30 questions were discussed &
	answered by the faculty during the session
Total registrations	227
Total attendance	170
Educational Partner	Abbott







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3) Report of HOD zoom Meeting Conducted by MOGS

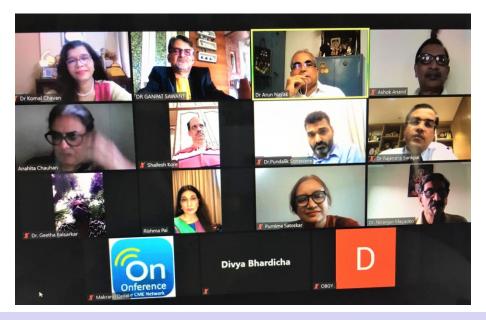
We had prestigious HOD meeting conducted by MOGS for the first time on Zoom platform due to the Covid era, on Saturday 18th July 2020 at 6.00pm.

The Conveners were Dr. Purnima Satoskar, Dr. Ganpat Sawant & Dr. Komal Chavan.

Meeting was attended by all the medical colleges HOD.

Name	Hospital
Dr. Rishma Dhillon Pai	Mogs President
Dr. Anahita Chauhan	Mogs Secretary
Dr. Rajendra Sankpal	Mogs Treasurer
Dr. Purnima Satoskar	Convener
Dr. Ganpat Sawant	Convener
Dr. Komal Chavan	Convener
Dr. Ashok Anand	J J Hospital-HOD
Dr. Shailesh Kore	Nair Hospital- Representative
Dr. Niranjan Mayadeo	K.E.M. Hospital HOD
Dr. Arun Nayak	LTMG Hospital HOD
Dr. Geetha Balsarkar	Nowrosjee Wadia Materinity Hospital- Representative
Dr. Sneha Shirodkar	R N Cooper Hospital HOD
Dr. Sriram Gopal	D Y Patil Med. College, Navi Mumbai HOD
Dr. Pundalik Sonawane	Somaiya Medical College HOD

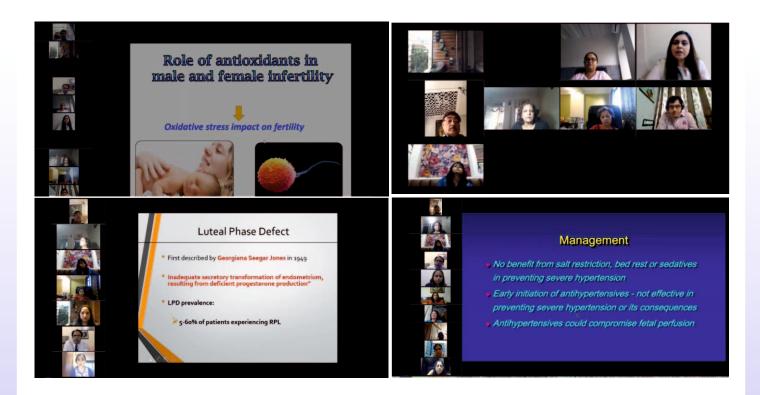
Main agenda of the meeting was – Covid 19 Situation in different medical Colleges and what MOGS can do to for smooth functioning of ObGyn department with their residents in handling Covid patients. Each HOD gave their first hand information about handling the Covid patients and challenges faced by them. All HOD were eager to help all MOGS members to reduce the maternal mortality and morbidityin their day to day practice. MOGS under the able leadership of Dr.Rishma Pai has volunteered to donate Covid essentials and neutraceuticals to all the residents.



4) MOGS Outreach Webinar

Date and time	Saturday, July 25, 2020, 6-9 pm
Conveners	Dr. Sujata Dalvi, Dr Ameya Purandare, Dr. Priya Thakur
Educational grants from	Spectra Division of Sun Pharma
Chairpersons	Dr. Neelang Shah, Dr. Kinjal Shah
Antioxidants in Infertility	Dr Unnati Mamtora
New Generation Oral Iron"	Dr Kekin Gala
Chairpersons	Dr Sudha Marwah, Dr Kunjal Bathija
	and Dr Ashok Kumar
Nutrition in COVID Pandemic	Ms NaazendehMecklai
Role of Vaginal Progesterone in	Dr. PriyaVora Thakur
High Risk Pregnancy	
Non-contraceptive Benefits of COCs	Dr SaritaBhalerao
Panel Discussion on	Moderators- Dr. Sujata Dalvi and
Therapeutic Implications of HDP	Dr. Ameya Purandare
	Panelists- Dr Shailesh Kore, Dr Reshma Rao,
	Dr Prema Kania, Dr Shilpa Agarwal, Physician
	Dr Manish Mavani and
	Intensivist Dr Gunjan Chanchalani.
Total attendance	67

Prize winners of MOGS Masti - Dr. Riddhi Doshi and Dr Kinjal Shah





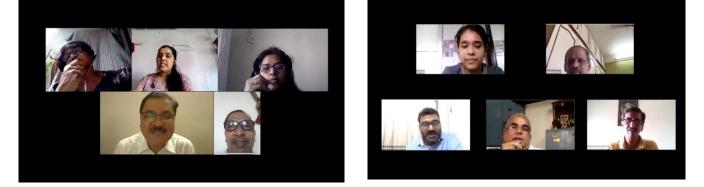
5) Second Mogs Dr. N A Purandare Teaching Program

Venue	BYL Nair Hospital and T		IBAL via Onference Webinar	
Date and time	BYL Nair Hospital and TNMC, MUMBAI via Onference Webinar 26 th July, 2020: 10am – 2pm			
Conveners	Dr. Shailesh Kore and Dr. Mansi Medhekar			
Session 1	Case presentation on	Dr. Neha	Examiners:	
	"Pregnancy in	Kulkarni	Dr.Ganesh Shinde, Dr. Ashok Anand,	
	previous LSCS"		Dr. Alka Gupta, Dr.Geetha Balsarkar	
Session 2	Chairpersons:	Dr PunitBhojani- 'Prevention and treatment of SSI'		
	Dr. SheetalGujral	Dr Pariksh	nit Tank's elaborate talk on 'Surgical	
	Dr. Ankita Pandey	management of PPH'.		
Inauguration	Welcome address by Dr Ganesh Shinde– HOD OBGY Dept – Nair Hospital,			
	Dr Rishma Dhillon Pai, President MOGS and Dr Anahita Chawhan, Secretary			
	MOGS. Dean Nair Hospital, Dr. Mohan Joshi also expressed his views on			
	how such teaching programs benefit students.			
Session 3	Case presentation on	Dr.Zayan	Examiners:	
	'Prolapse in young	Sayed	Dr. Niranjan Mayadeo, Dr. ArunNayak,	
	women'	_	Dr. Shailesh Kore,	
			Dr.Pundalik Sonawane	
Session 4	Chairpersons:	Dr. Mansi Medhekar- 'POP Q Classification'		
	Dr. VijayaBabare	Dr.Vanita	Raut - 'Prevention and Treatment of Post	
	Dr. Animesh Gandhi Hysterectomy Vault Prolapse'.		omy Vault Prolapse'.	
Session 5	A short 10 questions quiz was conducted by Dr.Shailesh kore			
Total Registrations	485			

Vote of Thanks by Dr. Shailesh Kore.

MOC - Dr Jiteeka Thakkar and Dr Medha Tankhiwale

Program coordinators - Dr. Sujata Dalvi and Dr. Ameya Purandare.







6) Report of Youngistan Conference 2020

Youngistan conference was one of its kind which was conceptualised and executed by the youth council members of MOGS with the Yuva leads and Dr. Rohan Palshetkar as the conveners. Since its inception in 2011 till date MOGS youth council has been nurtured anthe mentors have extended their support to groom their youth council members. Dr.Rishma Pai gave an opportunity to showcase their talent on this platform.

This MOGS webinar was organised on 19th July 2020 from 10am-2.30 pm. It was in association with FOGSI committees- Young Talent Promotion committee, Clinical Research committee & Public Awareness committee. Slogan competition with a theme of- Save the Girl Child and E poster creative competition with a theme of -Population stabilisation was announced alongwith the conference. Total entries received for Slogan and E poster(creative) competition were 13 and 17 respectively.

Masters of the ceremony were –Dr. Shreedevi Tanksale and Dr. Tejal Poddar. The program started with a panel on adolescent health and its burning issues. This panel was moderated by Dr. Jiteeka Thakkar and Dr. Aditi Tandon with 9 youth council members as panelists. The session expert Dr Kalyan Barmade concluded the panel incorporating his expert opinion for the same.

Thereafter, inauguration started with presidential address to the delegates. The guests of honour for this conference were young and talented Dr Siddhant Bhargava and Anvisha Pai. Dr Siddhant Bhargava is a nutritional scientist at Food Darzee. Anvisha Pai is a founder and CTO at Dover a tech start up based in Silicon valley, USA. The MOGS app version 2 was launched during the inauguration ceremony by Dr Rishma Pai after Dr Sarita Bhalerao's introductory speech about the app. Dr. Ritu Hinduja felicitated the youth council mentors.

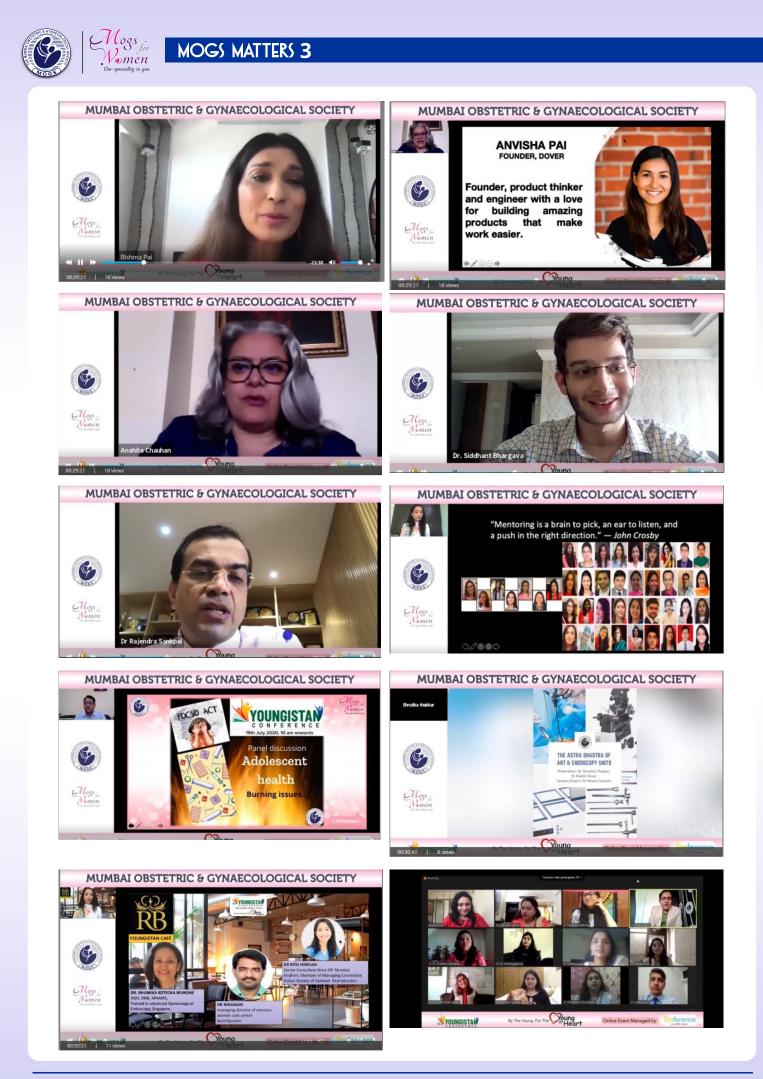
Inaugaration was followed by FIT IS IT video by Dr SargamSoni. 'Just a min' video sessions were conducted on topics related to Covid 19 pandemic by Dr. Medha Tankhiwale, Dr. Zubin Sheriar, Dr. Pranay Desai and Dr. Shruti Thar. Tips & tricks of photography was done by Sushil Shinde with the session expert being Dr Ameya Purandare. Mogs Masti questions were asked in between the sessions. The program included a brand new topic-Digitisation, a new word of mouth in a different format of talk over the coffee with Dr Niranjan Shanmugham, Dr. Ritu Hinduja and Dr.BhumikaKotechaMundhe.

The next session was Ashtra Shastra of ART and Endoscopy Units- How & Why? This was conducted by Dr. Shrutika Thakkar and Dr. Riddhi Desai with 11 youth council members as panellists. Dr Meena Samant, the session expert expressed her opinion on establishing the ART and Endoscopy units.

The last panel discussion was a round table meet on 3P's – Practice, Pregnancy & Postpartum which was moderated by Dr. Bhavini Shah Balakrishnan and Dr. Shreya Prabhoo. In this session, 9 panelists shared their experience on work life balance, breast feeding, difficult antepartum and postpartum phase and last but not the least fighting this pandemic too. The session expert Dr. Neeharika Malhotra shared her views on the same topic.

The program ended with the valedictory session, where the prize winners were declared for the Slogan competition, E poster (creative) competition and Mogs Masti questions.

Total registrations -1317.





Youngistan Slogan Poster Competition

In the Youngistan conference, an innovative Slogan and creative E-poster competition was organised. The themes for the competition were as follows:

Theme for Slogan - SAVE THE GIRL CHILD

THE WINNERS ARE - SLOGAN

FIRST PRIZE- DR. ALKA BAPAT

MOGS MATTERS 3

Mother or Father, neither is conceivable Without

'Her'

Save Herto take the Generations further.



SECOND PRIZE- DR. NIDHI SHAH

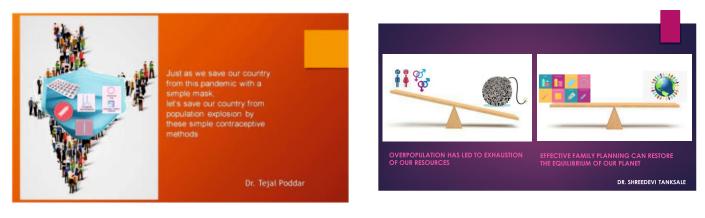


THE WINNERS ARE - EPOSTER

Theme for E poster (creative) – **POPULATION STABILISATION**

FIRST PRIZE- DR. TEJAL PODDAR

SECOND PRIZE- DR. SHREEDEVI TANKSALE



We received 17 entries for the e posters and 13 entries for the slogan competition.







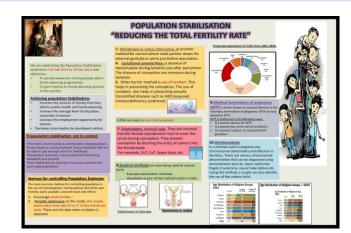


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DR POOJA KOLI, Jon., DR. REENA WANI, AD HIBTMC & DR. R. N. CO

POPULATION STABILIZATION

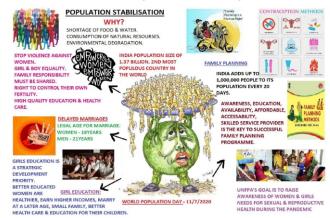
"Easier said than Done



Dr. Pooja Mishra



Dr. Shreya Chinchoriya



Dr. Kinjal Shah

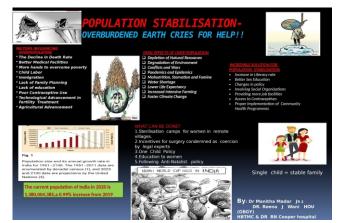


Dr. Rana Choudhary





Dr. Navin Srinivasan



Dr. Manitha Madar



Only Child, Only Happiness



Dr. Mayuri More

POPULATION STABILIZATION



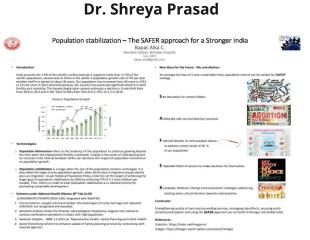
"FEEL PITY ON EARTH, CONTROL BIRTH"

met need by improved nily planning services.

ing the basket of cho f current methods av

of set vices to all be





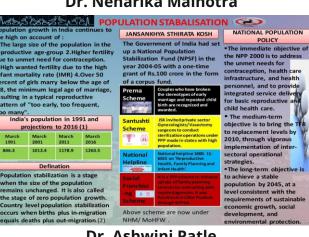
Dr. Alka Bapat



Dr. Kathan Acharya



Dr. Neharika Malhotra



Dr. Ashwini Patle



Dr. Pradnya Changede



Breastfeeding Week Competition 2020

FOGSI invited entries for Slogan, Video and Poster competition on Breast Feeding- Elixir of Life. MOGS members submitted their entries to **MOGS** office. The winners were selected by an esteemed panel of judges. These entries represented Mumbai society in the all India event. The winners are as follows:



1.Dr. Rashi Koria

"BREASTMILK" Nothing can be better Be Atmanirbhar

Slogan : Dr. Tejal Poddar

POSTERS



2. Dr. Shreedevi Tanksale



CROSS CRADLE HOLD

Video : Dr. Bhavini Shah https://www.youtube.com/watch?v=uX4LFdhvo6E

FORTHCOMING EVENTS - C2C

The **MOGS Virtual Conference** : Conflict to Clarity will be held online on **Sunday** the **30th** of **August 2020** from **16:00 hrs to 20:30 hrs.**

This conference aims to analyse and validate some of the important controversial issues that we, as gynaecologists face in present day practice. This conference will aim to apprise practising doctors of the latest and best in the discussed topics in a comprehensive yet practical manner.







7) MOGS Outreach Webinar

Date and time	Sunday, Aug 09, 2020 10:25am – 12:25pm
Associations	FOGSI Medical Disorder Committee
Conveners	Dr. Purnima Satoskar, Dr. Punit Bhojani,
	Dr. Nagendra Sardeshpande,
	Dr. Mansi Medhekar
Masters of Ceremony	Dr. Riddhi Doshi, Dr. Pranay Desai
Educational grants from	Senora – A Division of Sun Pharma
Session 1	Chairpersons: Dr. Swapnali Malkar,
	Dr. Anagha Chhatrapati
Uterine Fibroids - Emerging	Dr. Riddhi Doshi
Medical Treatment Options	
Cutting Edge Calcium:	Dr. Nagendra Sardeshpande
Dicalcium Malate	
Session 2	Chairpersons: Dr. Amarish Warty,
	Dr. Niraj Jain
Breaking Bad News	Dr. Bipin Pandit
Progesterone in Preterm	Dr. Ashok Kumar
Labour	
Session 3: Panel Discussion on Multiple	Moderators-Dr. Punit Bhojani,
Pregnancies :	Dr. Mansi Medhekar
Interesting case scenarios	Panelists- Dr. Purnima Satoskar,
	Dr. Komal Chavan,
	Dr. Madhuri Mehendale,
	Dr. Pooja Vazirani, Dr. Rakhee Sahu,
	Dr. Suchita Pisat.
Total attendance	547

MOGS Masti Conducted by Dr. Namrita Sheregar. Winners : Dr. Dhaval Belvi, Dr. Unnati Shah, Dr. Smriti Saxena





8) MOGS 3rd Dr. N A Purandare Teaching Program

Venue	Bombay MUMBAI via Onference Webinar		
Date and time	13 th August, 2020: 4-8 pm		
Conveners	Dr. Sujata Dalvi and Dr. Ameya Purandare		
Session 1	Case presentation	Dr.Sakina Radiowala	Examiners : Dr. Suvarna Khadilkar,
	on Heart disease in		Dr. Nagesh Waghmare,
	pregnancy		Dr. Shashi Goyal, Dr. Sujata Dalvi
Session 2	Chairpersons:	Dr. Satyavan Sharma- Management of cardiac disorders	
Capsules	Dr. Satish Tibrewala,	in pregnancy	
	Dr. Kunjal Bhatija,	Dr. Satish Khadilkar- Being a PG what is it really about?	
	Dr. Shilpa Ambekar		
Inauguration	Welcome address by Dr. Suvarna Khadilkar. Dr R Patil and Dr Satish Khadilkar		
	also encouraged the students.		
	Presidential address by Dr Rishma Pai		
Session 3	Chairpersons:	Dr. Abhay Bhave Peri operative coagulation and bleeding	
Capsule	Dr. Neelima Mantri,	management	
	Dr. Varsha Pai	Dr. Piya Thakkar Drug therapy in GDM	
Session 4	Case presentation	Dr Alka Bapat. Examiners -: Dr. Prema Kania	
	on Abnormal	Dr Anahita Chauhan,	
	Uterine bleeding	Dr Pratima Chipalkat	ty
Total	230		
Registrations			

Vote of Thanks by Dr Tejaswi Kamble

OR IS EVERYTHING CORONA

Dr. MOC Dr Kinjal Shah, Dr. Preeti Deshpande, Dr Pradnya Supe, Dr Siddhesh Iyer Program coordinators - Dr. Suvarna Khadilkar and Dr Kunjal Bhatija



9) MOGS Outreach Webinar

Date and time	Sunday, Aug 16, 202010 am to 1 pm	
Conveners	Dr Atul Ganatra, Dr Pratik Tambe, Dr. Ashwin Kakkar	
Masters of Ceremony	Dr Jagruti Ghosh	
Educational grants from	Inca Lifesciences– A Division of Sun Pharma	
	TRIBUTE TO Dr. PARAG PATIL by Dr Niranjan Chavan	
Session 1	Chairpersons : Dr. Anjali Tillu, Dr. Snehaletha Kuris,	
	Dr. Sujata Dalvi	
Hyperprolactinemia	Dr. Shreedevi Tanksale	
Pre ART Hysteroscopy	Dr. Riddhi Desai	
Session 2	Chairpersons: Dr. Kishori Kadam, Dr Samir Pradhan	
Covid -19 -	Dr. Anita Matthew	
Intensivist's prespective		
FOGSI- GCPR on Covid 19	Dr. Atul Ganatra	
Session 3	Chairpersons: Dr Shraddha Upasani, Dr Jayant Maheshwari,	
	Dr Rajendra Nagarkatti	
OAT Whats New?	Dr Kedar Ganla	
Obstetric in Low resource	Dr Ashwin Kakkar	
setting		
Session 3: Panel	Moderators - Dr. Pratik Tambe, Dr. Priya Vora	
Discussion on Interesting	Panelists - Dr.VarshaPhadke, Dr Egbert Saldanha,	
cases in Infertility	Dr Anoop Gupta, Dr. Meghal Goswsami, Dr. Rohan Palshetkar,	
	Dr Aditi Tandon, Dr. Tejal Poddar, Dr Jagruti Ghosh	
Total attendance	297	

MOGS Masti conducted by - Dr. Mansi Medhekar Winners - Dr Rejeev Srivastava and Dr Samir Pradhan







Unexplained Recurrent Pregnancy loss

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Introduction:

• Spontaneous pregnancy loss is a quite common and around 15% of all pregnancies may result in abortions.

• Generally defined as 3 consecutive pregnancy losses prior to 20 weeks from the last menstrual period.

When the cause for these losses is not found on standard investigations, it is called Unexplained Recurrent Pregnancy loss.

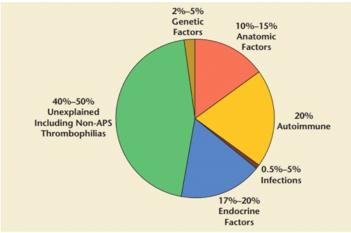
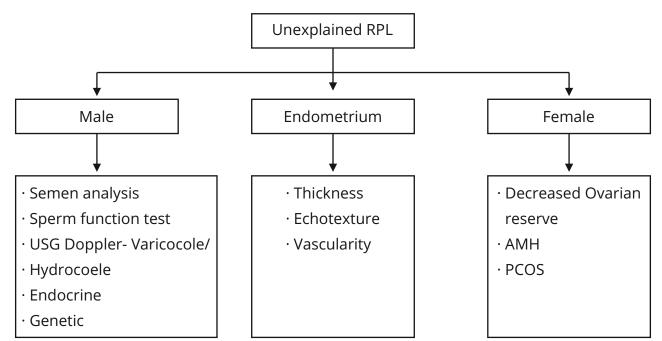


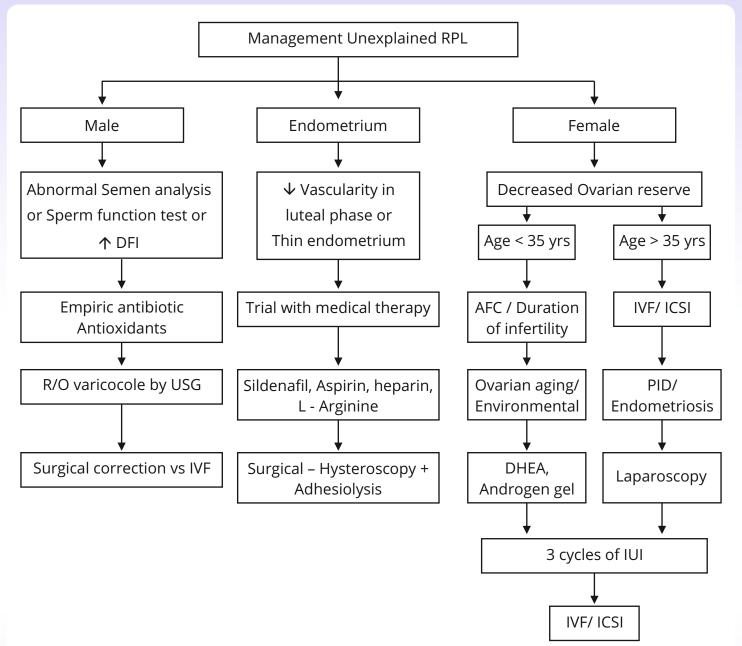
Fig 1: . Etiology of recurrent pregnancy loss. APS, antiphospholipid antibody syndrome.



Investigations in RPL:







Salient features:

· Accepted etiologies for RPL include parental chromosomal abnormalities, untreated hypothyroidism, uncontrolled diabetes mellitus, certain uterine anatomic abnormalities, and the antiphospholipid antibody syndrome (APS). Other probable or possible etiologies include additional endocrine disorders, heritable and/or acquired thrombophilias, immunologic abnormalities, and environmental causes. After evaluation for these causes, around 30 -40% will remain unexplained.

 $\cdot\,$ In cases of unexplained RPL, progesterone has been shown to be beneficial in decreasing the miscarriage rate.

· Low-dose aspirin may be considered.

The most effective therapy for patients with unexplained RPL is often the most simple: Antenatal counseling and Psychological support.



RPL - Autoimmune disorders and thrombophilia in pregnancy

DR. PRITI VYAS MD, DGO,FCPS,MSC

Managing Committee member and Youth Mentor MOGS National Coordinator FOGSI YOUTH MELA Consultant Laparoscopic surgeon & Fertility Specialist Expert in Women's intimacy issues Director Sangita maternity Surgical and Diagnostic Centre and One to One Guidance Centre



Pregnancy is a hypercoagulable state, and maternal thrombophilic defects would exaggerate the hemostatic response of a normal pregnancycausing arterial and venous thrombosis – systemic / placental resulting in complications such as RPL, growth restriction in fetus, preeclampsia, placental abruption, placental infarctions and still birth.

These defects can be hereditary or acquired. While Anti phospholipid syndrome comes under the acquired defect, a number of thrombophilia also have similar pathophysiology and treatment; and hence we will discuss them under one heading here.

Immunologic Factors

Both autoimmune and alloimmune mechanisms have been implicated as a cause for recurrent pregnancy loss.

Auto immune disorders involve an immune response directed against a specific part of the host or self with formation of antibodies; such as SLE and APLS. The dysregulation of the immune system causes the circulating endogenous antibodies to react with the self-antigens and form immune complexes which get deposited in the tissues causing tissue damage and the disease.

Autoimmune Disorders – SLE:

Systemic Lupus Erythematosus is a polyetiological, chronic, multisystem autoimmune diseasewhich has been associated with RPL since long and is responsible for 20 % of the RPL as per various studies.

- · Incidence of pregnancy loss is 6% in SLE patients as compared to 1-3% in general population.
- Most of the miscarriages are in the second and third trimester
- Early miscarriages are not more common in women with SLE than in general population
- Active disease at conception, onset during pregnancy and renal disease; increase risk of pregnancy loss

Autoimmune Disorders - Antiphospholipid Syndrome:

Antiphospholipid Syndrome is a systemic autoimmune condition characterized by recurrent vascular thrombosis with pregnancy comorbidities along with presence of antiphospholipid antibodies (APS).

PAPS- primary Antiphospholipid Syndrome where pregnancy loss is in fact one of the criteria for its diagnosis. Prevalence in general population is 2%, in women with RPL is low – 3-5 % but in the ones with SLE it is as high as 30%. It is a potentially treatable cause and hence should be evaluated.

33-75% of pregnancy losses related to APLS occur after 10 weeks' gestation

• Women with APS have a miscarriage rate of 90 % in subsequent pregnancies if untreated.



Autoimmune Disorders - Thyroid Autoimmune Disease:

Maternal thyroid dysfunction is associated with RPL. Presence of ANA and Antithyroid antibodies-Thyroid Peroxidase antibodies and Thyroglobulin antibodies –more than triples the risk of miscarriages and preterm deliveries. Women with antithyroid antibodies have higher chance of becoming hypothyroid and may present with subclinical hypothyroidism, also would have chance of postpartum thyroiditis.

Alloimmune Disorders

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-involve abnormal maternal immune response to fetal or placental antigens. These may be through absence of the maternal blocking antibodies or presence of cytotoxic antibodies or disturbance of natural killer cell function and distribution.

Inherited Thrombophilia

In some women the thrombogenic changes of pregnancy exaggerate an inherent tendency to thrombosis which results in reduced uteroplacental blood flow, thrombosis in the placental bed vessels and pregnancy loss or complications. It encompasses a group of disorders where there is imbalance between procoagulant and thrombolytic factors– imbalance between the clotting factors, the anticoagulant proteins and the fibrinolytic mechanism.

Pathophysiology

Fetal Death is usually preceded by poor fetal growth, oligohydramnios, heart rate abnormalities, preeclampsia or eclampsia –all may be due to placental insufficiency and resultant hypoxemia.

- Increased thrombosis with Uteroplacental thrombosis / vasoconstriction / placental infarcts
- The APLA are directed to platelets causing aggregation and again thrombosis.
- Decreased fibrinolysis
- Abnormalities of early trophoblasts invasion early and late pregnancy losses
- At present Cytokine dysregulation of immune system operating at the materno-fetal interface is the most likely pathophysiological mechanism involved in Alloimmune Disorders.

Inherited Thrombophilia- Basic cause is Imbalance in coagulation and fibrinolysis – imbalance between the clotting factors, the anticoagulant proteins and the fibrinolytic mechanism- results in increased thrombin generation and hypercoagulable state.

• Factor V Leiden and prothrombin gene mutation are the most common especially in the Caucasian population

- Deficiencies of Antithrombin III, protein C and protein S, and factor XII deficiency
- Association more with second trimester and later losses rather than early losses.

Diagnosis and screening

The International Consensus Definition for the Diagnosis of APLA:

The characteristic features of APS are venous and arterial thrombosis, fetal losses and thrombocytopenia. It is an autoimmune disorder having specific clinical and lab criteria for diagnosis. At least one lab and one clinical criteria has to be present



Clinical criteria:

1. Vascular Thrombosis- Thromboembolic event (arterial, venous, small vessel)- confirmed by doppler/imaging/histopathology (without significant inflammation in vessel wall), with exception of superficial venous thrombosis.

2. Pregnancy morbidity-

One or more losses after 10 th week of morphologically normal fetus

One or more preterm delivery before 34 weeks due to pre-eclampsia/eclampsia/placental insufficiency

✤ 3 or more unexplained consecutive early marriage.

Laboratory Criteria:

1. Lupus Anticoagulant present 2 or more occasions 12 weeks apart

2. Anticardiolipin Antibodies-IgG or IgM in medium to high titers on 2 or more occasions 12 weeks apart

3. Anti B2 Glycoprotein 1 antibody of IgG or IgM in 99prcentile titer on 2 or more occasion 12 weeks apart

In 2006 Newer marker, Antiphophatidylserine-dependent antiprothrombin antibody has also been detected in these patients .

Autoimmune Disorders - SLE Diagnostic tests

Screening	CBC – Anemia, leukopenia, mild
	thrombocytopenia
	ESR- raised
	Urine – proteins and sediments
	Creatinine and uric acid
	Antinuclear antibodies
Specific	Anti dsDNA antibody
	Complement C3, C4, CH50
	Anti RO/SSA and AntiLA/SSB antibodies
During pregnancy	Screening for APS- Antiphospholipid
	antibodies

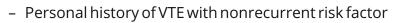
ANA and Antithyroid antibodies are not clinically significant in Euthyroid women with RPL, but women with antithyroid antibodies have higher chance of becoming hypothyroid and may present with subclinical hypothyroidism, also would have chance of postpartum thyroiditis.

Tests

ANA and Antithyroid antibodies- Thyroid Peroxidase antibodies and Thyroglobulin antibodies

For Inherited Thrombophilia - Indications for screening and treatment are not yet established with respect to RPL.

- Reasonable to screen unexplained RPL -with suspicious loss after 8 wks. of gestation or after detection of embryonic heartbeat, or history of other pregnancy complications in previous pregnancy.



- First degree relative with a high-risk thrombophilia or VTE before age 50 in absence of risk factors

• Race must be also considered, the prevalence of some is high among European but very low among Asians, African and Native Americans.

• Tests for Thrombophilia

Thrombophilia	Test to be done	
Factor V Leiden	Activated Protein C resistance followed by	
	genetics	
Prothrombin mutation	Free antigen levels	
Protein S deficiency	Protein S antigen levels	
Protein C deficiency	Chromogenic activity	
Antithrombin deficiency	Heparin linked cofactor assay	

The incidence of inherited thrombophilia especially Protein S and C deficiency is rare in the Caucasian population, however ethnic and racial diversity exists(TIPPS Study). In India and SE Asia, the incidence is much higher.

Treatment:

Alloimmune disorders:

The assumption of the abnormal immune response being the cause of RPL in these patients has led to the theory of two different immunotherapies – one is immunostimulatory (Paternal leukocyte stimulation) and the other immunosuppressive (IV Immunoglobulins).

A Cochrane review of these randomized trials have concluded that these are not proven to improve the live birth rate as compared to placebo treatment.

Treatment of SLE –

In general, avoid pregnancy or delay till remission of 6 months.

If Moderate renal insufficiency, - increased risk of pregnancy loss

In severe renal insufficiency, - avoid pregnancy

Even successful pregnancies – increased risk of preeclampsia and preterm delivery

Stop using NSAIDs when trying for pregnancy

Crucial decision may be to continue the pregnancy or not to in cases of worsening hypertension or renal complications or pulmonary arterial hypertension.

• HCQ started preconceptionally and continued all through pregnancy

· Low dose aspirin – at 12 weeks onwards prevents onset of pre-eclampsia

 \cdot Corticosteroids- oral or IV- high dose initially and then maintenance therapy oral – co administered with immunosuppressants

 \cdot Immunosuppressants- Safe ones which can be used during pregnancy are Azathioprine, Cyclosporin, Tacrolimus and Rituximab



 \cdot Vigilant obstetric management with fetal surveillance

Treatment of APLS

1. Antiplatelet agents – Low dose Aspirin- 75-150 mg /day - Benefit of low dose aspirin is less when given alone

2. Prophylactic anticoagulation with heparin unfractionated or LMWH - throughout pregnancy beginning at confirmation of pregnancy and till 6 weeks postpartum.

Live Birth rate with combined treatment of Aspirin and Heparin or LMWH (70-80%), is much better than aspirin alone or no treatment (20-40%) and is the preferred treatment.

However, the inherent risks that come with the disease – preterm labor, preeclampsia, eclampsia, oligohydramnios, IUGR, fetal demise all remain even with the treatment.

Both Heparin and LMWH have anti-coagulant properties and also have anti complementary effect which is protective.

Both do not cross the placenta and no fetal complications are reported.

Unfractionated heparin

 $\cdot~$ 5000-7500 IU BD- prophylaxis and 10000lu BD- the rapeutic dose, dose can be reduced during labor

- · Before elective surgery stop 48 hrs. prior to surgery
- Main danger osteoporosis- pregnancy and breastfeeding further.
- Heparin induced Thrombocytopenia immune response not related to the dose of heparin injection; the platelet count monitor frequently day 4 to day 14; if drops shift to LMWH.

LMWH

Dose – 1mg/kg body weight/ day once pregnancy is confirmed. Enoxaparin 60 mg /day or Dalteparin 5000 Units /day till 36 weeks

Advantage over unfractionated heparin,

- lesser chances of osteopenia
- No thrombocytopenia.
- \cdot Longer half-life so once daily dosing
- · Needs less monitoring.

3. Other therapies: Immunosuppressive therapies - corticosteroids and IVIG

• Prednisolone may have efficacy – with APLS- risks of Diabetes, Hypertension preterm birth - outweigh the benefits.

• IV immunoglobulins have also been used, but efficacy has not been directly compared to the combined treatment with Aspirin and LMWH. 2005 A Cochrane review concluded that it did not improve the live birth rate ; but another metanalysisshowed a significant increase in the live birth rate in women refractory to aspirin and LMWH. It is beneficial in secondary RPL but not Primary RPL.

• Warfarin – pregnancy category D – discontinue in the first trimester- risk of embryopathy, switch to aspirin and LMWH combination.



Practical difficulties or Issues with Heparin or LMWH

Common Questions and issues

• How often do I need to monitor the patients CBC and PT INR—Only once at start of therapy for LMWH. For unfractionated heparin monitor frequently day 4 - day 14

• Precautions while giving the injection – subcut only and not intradermal.

• Bruising – blackblue patches, at injection site and Ecchymosis – Postinj, give firm pressure on site for few minutes, apply ice and reassure.

· What if taken injection and goes in labor or have to do Emergency surgery-

-Ideally gap of atleast 8hrs. between the surgery and last dose, so delay surgery if possible -blood reservation

-Antidote for heparin is Inj protamine sulfate (one mg for neutralizing 80-100 iu of heparin if given 15 mins after the inj heparin. Lesser dose if more time has lapsed after the injection.)

- a spinal or epidural anesthesia has to be avoided.

- · Elective Surgery- 8 Hours gap after inj
- · Restart after 8 hours of the surgery or delivery.
- · Risk of PPH or intraoperative bleeding –usually no such incidences

• How long to continue postpartum? – Minimum 6 weeks ,sometimes 12 weeks postpartum if H/O thrombosis in the past.

• Cost -even though the cost of UFH is lower than LMWH, the additional cost of hospitalization, coagulogram monitoring, laboratory monitoring of anticoagulant activity is needed to adjust the dose of heparin and monitor its effect in the hospital, the total cost of therapy associated with UFH is higher than with LMWH, and the compliance is better with LMWH.

 \cdot the risk of osteopenia and thrombocytopenia is with unfractionated heparin

• Enoxaparin may interact with other medications- such as NSAIDs, Antiplatelet drugs and herbal supplements such as Gingoko biloba, fish oil, garlic, ginsengetc. which are blood thinners- patients have to warned against use of these without informing the doctor

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Anatomical Factors in first trimester Recurrent Pregnancy Loss

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EPIDEMIOLOGY OF RPL

RPL affects 0.4–1% of couples. The risk of losing the pregnancy is more in earlygestations, mostly in the first trimester. There is 22–57% of risk of miscarriage withpregnancy less than 6 weeks.

From various studies the prevalence of RPL is found to be between 0.6% and 2.3%.

Twelve to sixteen percent of RPL cases are associated with anatomic abnormalities. These include congenital uterine anomalies (incomplete mullerian fusion or septum, uterine artery anomalies, DES exposure, and cervical insufficiency) and acquired anomalies (intrauterine adhesions and uterine fibroids or polyps). Defectivevascularization of endometrium leads to improper placentation and finally pregnancyloss. Congenital uterine anomalies are usually also linked with second trimester

pregnancy losses. Septate uterus accounts for 76% risk of spontaneousabortion in affected women and it is the commonest uterine anomaly associated with RPL. Other uterine anomalies, like bicornuate, unicornuate, and didelphicuterus, have very low risk for RPL. Intrauterine adhesions result in early pregnancylosses due to its impact on placentation. It is found that RPL results if there is submucosalfibroid or intramural fibroids more than 5 cm size.

Anatomical factors responsible for first trimester recurrent pregnancy loss can be classified into two categories: Congenital factors and acquired factors. The congenital factors are Uterine septum, T shaped uterus, Bicornuate uterus and unicornuate uterus. Acquired factors are fibroids, polyps, synechiae, TB and adenomyosis.

Investigations

Non invasive investigations, particularly imaging modalities form the mainstay of diagnosis of these conditions. While conventional 2D ultrasound may be good enough in most cases, the addition of more advanced imaging systems like 3D ultrasound and MRI may be valuable in some cases. Let's take a look at some of the important imaging modalities available.

1. 2D Ultrasound: conventional 2D ultrasound is easily available in most centres, and is cost effective. Trans vaginal ultrasound provides good diagnostic accuracy and has good patient acceptance. TVS visualises the endometrial cavity reliably, but is unable to provide reliable assessment in cases of septate Vs bicornuate uteri, and cannot measure volume in cases of T shaped uterus.

2. 3D ultrasound: is far more accurate in imaging minor defects of both the myometrium and the endometrium, and can provide reliable pre operative data for correction of septate, bicornuate and



T shaped uteri. It is also better for fibroid mapping, particularly multiple fibroids at varying locations. The major disadvantage is the increased cost over conventional 2D ultrasound

3. MRI: Like 3D ultrasound, MRI provides a complete 3D reconstruction of the uterus. It is specifically useful in cases of large and multiple fibroids, differentiating fibroids from focal adenomyomas, and for rare congential anomalies of the uterus like Robert's uterus, OHVIRA syndrome, Accessory Cavitated Uterine Mass (ACUM) which may be misdiagnosed even by 3D USG.

Invasive investigations:

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Sonosalpingography: Transvaginal sonography when performed concomitantly with injection of a saline solution into the endometrial cavity, is called sonosalpingography. The saline delineates the inside of the endometrial cavity and intra cavitary lesions are seen clearly. It is a painless procedure performed in the OPD, and has no side effects

1. Hysterosalpingography: is a time tested investigation for the assessment of intra luminal pathologies like septate uterus, submucous fibroids along with assessment of tubal patency. The only disadvantage is that the procedure is painful and uncomfortable to the patient.

2. Hystero laparoscopy: forms the gold standard for the diagnosis and treatment of most anatomical causes of infertility and recurrent abortion. It offers a "see and treat" approach to the disease, and any pathology can be corrected in the same sitting

IMPACT ON FERTILITY AND TREATMENT OF INDIVIDUAL PATHOLOGIES

Though several factors, either congenital or acquired, may co -exist with a history of recurrent pregnancy loss, they may not always have a direct cause-and -effect relationship. This means that all pathologies that are diagnosed by routine imaging methods may not necessarily require treatment, for improving reproductive outcome in a given patient. In operating upon a patient who does not require surgery, the surgeon may do more harm than good, and post operative sequelae may worsen the fertility prognosis.

UTERINE SEPTUM

Definition: To understand the impact of a uterine septum on fertility, it becomes necessary to first define a septum. Earlier, an inward indentation of the fundal midline of 1 cm or more was considered an acceptable limit to differentiate between a septate and arcuate uterus. While the septum was considered worth correcting, an arcuate uterus was considered a physiological variant and required no surgery

However, the present consensus based on the CONUTA (Congenital Uterine Anomalies) classification by ESHRE defines a septum to be "an inward indentation of more than 50 percent of the uterine wall thickness as measured on 3D USG. This means drawing an "inter-ostial line" joing the 2 ostia on a coronal sector of the uterus, and measuring the distance above and below this line at the midline

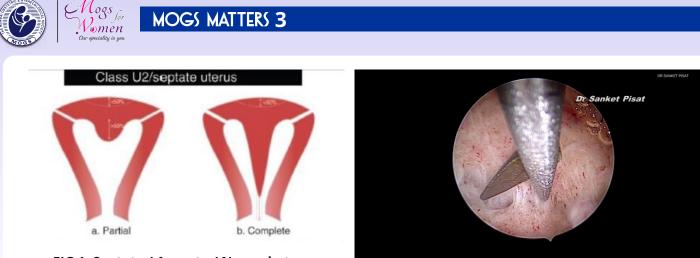


FIG 1: Septate / Arcuate / Normal uterus (CONUTA classification)

2: Incising the septum with hysteroscopic scissors

Surgical correction:Hysteroscopic correction of the septate uterus is done by dividing the uterine septum to join the 2 halves of the uterine cavity. This may be done using either the cold hysteroscopic scissors or a Colin's knife with electrical energy. The former is preferred due to minimal damage to the surrounding endometrium (Fig 2). Care has to be taken to stay in the midline to avoid cutting into either the anterior or posterior wall, and the end point of surgery at the fundus is the visualisation of the two ostial openings in one straight line. This improves the available space in the uterus and divides the fibrous septum, thus enabling endometrial growth over the cut parts and effective implantation in subsequent cycles. In cases of complete vaginal septum (i.e. extending from the fundus upto the vagina, the cervical part of the septum may be left undivided to prevent cervical incompetence after surgery.

Impact on fertility:

The ASRM, in its guideline states that there is insufficient data to show that the presence of a septum adversely affects fertility. But it also states that there is 'fair' evidence that the presence of a septum causes miscarriage and preterm birth. A recent Cochrane review stated that there was no evidence of any benefit of the procedure in infertile women. Yet, in the authors personal opinion, the procedure does have significant fertility enhancing effects in patients of recurrent pregnancy loss where other factors have been ruled out. [1]

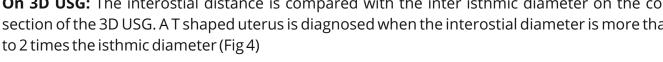
T SHAPED UTERUS

Definition: A T shaped uterus is one with convergent lateral walls, that reduce the volume of the endometrial cavity. These are proposed to have decreased blood supply, thereby causing implantation failure and subsequently, abortions. The CONUTA classification has classified T shaped uterus into 2 subtypes: (Fig 3)

Class U1 a: This is a uterus which is morphologically normal with a ratio of 2/3rd body and 1/3rd cervix. The reduction of space in the cavity is due to hypertrophy of the lateral walls. This type of T shaped uterus responds well to hysteroscopic lateral metroplasty.

Class U1b: This is a uterus which is morphologically abnormal with a ratio of 1/3rd body and 2/3rd cervix. The reduction of space in the cavity is due to the abnormal morphology rather than hypertrophy of the lateral walls. This type of T shaped uterus responds may not respond well to hysteroscopic lateral metroplasty.

On 3D USG: The interostial distance is compared with the inter isthmic diameter on the coronal section of the 3D USG. A T shaped uterus is diagnosed when the interostial diameter is more than 1.5



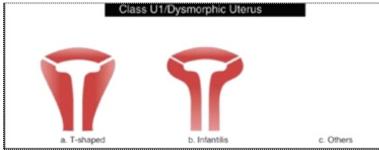


FIG 3:Types of T shaped Uterus



Surgical correction:

Surgical correction of the T shaped uterus involves making releasing incisions on the lateral walls of the uterus. This causes an expansion of the uterine volume. Correction is done either with

hysteroscopic scissors or by electrocautery. As in the case of uterine septum, the cold scissors is preferred because it causes no collateral damage to the surrounding endometrium. The end point of surgery is being able to visualise both the ostia from the level of the internal os, and the appearance of fine blood vessels seen over the lateral walls after the fibrous tissue has been cut and the normal musculature is approached. (Fig 5)

FIG 5: Hysteroscopic lateral metroplasty using scissors

Impact on fertility

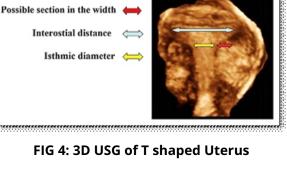
Recent studies show a significant beneficial effect of lateral metroplasty on reproductive outcome, when performed in indicated cases. Lateral metroplasty increased the volume of the uterus from a mean of 2.5 ± 1 mL before surgery to 3.2 ± 1 mL by the end of 1 year.

Lateral metroplasty increased the volume of the uterus from a mean of 2.5±1 mL before surgery to 3.2±1 mL by the end of 1 year[2]The live birth rate increased in a statistically significant manner following enlargement metroplasty. In parallel, the miscarriage rate was statistically reduced. In the subgroup of infertile patients, 49% of pregnancies which occurred were spontaneous.

UNICORNUATE / BICORNUATE UTERUS

Definition: Unicornuate uterus is the development of only one of the 2 horns of the uterus, and results from non development of one of the Mullerian ducts. Bicornuate uterus, on the other hand is an incomplete fusion of the two Mullerian ducts resulting in two separate horns of the uterus. By and large, these anomalies do not have a significant detrimental effect on fertility, and patients are able to conceive naturally. (fig 6)

Surgical correction: corrective surgery is only indicated in patients having repeated losses. In cases of unicornuate uterus, the correction involves mild expansion of the cavity volume by a procedure







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similar to hysteroscopic lateral metroplasty. In cases of bicornuate uterus, corrective surgery (unification of the two horns) is again indicated only in case of repeated second trimester losses. Routine correction in all cases by unification surgery may be detrimental, as the possibility of uterine rupture in late pregnancy exists and has been documented by authors

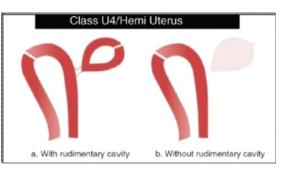


FIG 6 : Unicornuate uterus ENDOMETRIAL POLYP

An endometrial polyp is an overgrowth of endometrium that acts as a space occupying lesion within the endometrial cavity and affects implantation. These polyps may also be pre malignant in some cases. Whether polypectomy is required or not from a fertility point of view depends on the size and location of the polyp.

Surgical technique: Hysteroscopic polypectomy is done using hysteroscopic scissors, bipolar instruments like versapoint, or electrical instruments like resectoscope. Scissors are preferred as

they do not damage the surrounding endometrium. However, for larger polyps, it sometimes becomes necessary to slice the polyp or shave it into smaller pieces for easy removal. After cutting with scissors, the polyp can be grasped with hysteroscopic grasper and removed. Alternatively, in the case of smaller polyps, the polyp can be directly avulsed from its base with a hysteroscopic grasper.



FIG 7: Hysteroscopic polypectomy using grasper

Impact on fertility: Current evidence supports the resection of endometrial polyps diagnosed prior to commencement of IVF cycles. There is Class II evidence that polyps may spontaneously regress in approximately 25% of cases, with smaller polyps more likely to regress compared with polyps >10 **mm** in length

Several large studies suggest a beneficial effect of hysteroscopic polypectomy both prior to initial IVF and after failed IVF. There may be an added benefit of hysteroscopy itself in facilitating subsequent embryo transfer via dilation of the cervix or by increasing endometrial receptivity through endometrial injury. Patients can undergo ovarian stimulation after their next menses post polypectomy procedure without affecting IVF-ET outcomes[3,4]

SUBMUCOUS FIBROIDS

Submucous fibroids have been associated with recurrent pregnancy loss and infertility in several published studies over the years. These fibroids are classified from type 0 (completely in the cavity) to type 3 (minimally projecting into the uterine cavity). Any fibroid that causes a distortion of the endometrial lining needs to be removed for enhancement of fertility.

Surgical technique

Hysteroscopic resection of the submucous fibroid is carried out using an electrical loop and an instrument called the resectoscope. Earlier, glycine was used as the distension medium for electrosurgery in hysteroscopy, as it is a poor conductor of electricity. However, now bipolar electrosurgical systems have been developed. These special units allow the use of bipolar current underwater, thereby enabling the surgery to be performed using normal saline. This makes the procedure considerably safer. (Fig 8)



Fig 8: Hysteroscopic resection with bipolar resectoscope

Impact on fertility

In asymptomatic women with cavity-distorting myomas (intramural with a submucosal component), myomectomy (laparoscopic/ hysteroscopic) may be considered to improve pregnancy rates. Myomectomy is generally not advised to improve pregnancy outcomes in asymptomatic infertile

women with non-cavity distorting myomas.

There is fair evidence that hysteroscopic myomectomy for submucosal fibroids (Type 0,1,2) improves clinical pregnancy rates. (Grade Bevidence)[5]

INTRA UTERINE SYNECHIAE (ASHERMAN'S SYNDROME)

Asherman's syndrome is most commonly encountered in patients with history of prior surgical termination of pregnancy. The other commonly encountered causative factor is endometrial tuberculosis. Other lesser common pathologies are previous surgeries on the uterus like a myomectomy, resection of a septum etc

Surgical technique: Asherman's syndrome is a condition where surgical management in carefully selected cases yields excellent results. The adhesions may present as midline bands or as an overall

narrowing of the cavity due to fundal or lateral wall fibrosis. Lysis of intra uterine synechiae is carried out with hysteroscopic scissors. In the author's opinion, excision rather than incision of these fibrous bands enables the surgeon to leave minimal fibrotic tissue behind, which may act as a foreign body and cause implantation defect, causing recurrent pregnancy loss. (Fig 9)



Post operatively, patients are given estradiol valerate for aiding endometrial growth. Many surgeons also prefer to

put a barrier, like a Foley's catheter no 8, in the uterine cavity t prevent adhesions. Newer avenues in therapy are PRP injections, stem cell therapy, use of sildenafil citrate etc [6]

Conclusion:

Correction of anatomical factors in first trimester recurrent pregnancy loss cases can be extremely rewarding in carefully selected patients. However, patients must be carefully screened to exclude any other causes of abortion that may be the actual reason for the patient's condition.

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Kungfu Pande 2.0 @pb3060

Another pandemic waiting for us



Himesh Reshammiya: I have composed 300 new songs during lockdown

Love Story of Doctor and PPE

Hum Tere Bin Ab Reh Nahi Sakte Tere Bina Kya Wajood Mera

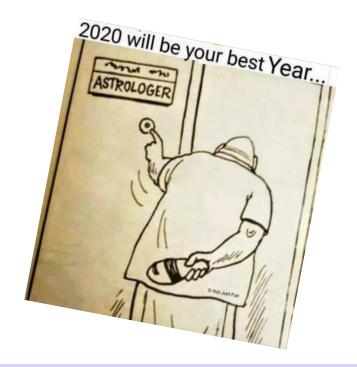
Tujhse Juda Gar Ho Jaayenge Toh Khud Se Hi Ho Jaayenge Judaa

Kyunki Tum Hi Ho Ab Tum Hi Ho Zindagi Ab Tum Hi Ho

Chain Bhi, Mera Dard Bhi Meri Aashiqui Ab Tum Hi Ho



COVID 19 PRESENTS





Genetics and Recurrent Pregnancy Loss



Dr. Punit Bhojani MS,DNB,DGO,FCPS,DFP Consultant obstetrician and gynaecologist, Mumbai Member , managing council MOGS Quiz master MOGS & FOGSI Website

MOGS MATTERS 3



Dr. Tejal Poddar MS,DFP,BIMIE,FRM,FMAS,DE Consultant Fertility specialist Member, Youth council MOGS

The definition of recurrent pregnancy loss (RPL) has long been debated and differs among international societies. For the ESHRE and the RCOG, RPL refersto 3 consecutive pregnancy losses, including nonvisualized ones. However, according to the ASRM, it is defined as two or more clinical pregnancy losses (documented by USG or HPE), but not necessarily consecutive.

Spontaneous pregnancy loss is the most common complication of pregnancy. Approximately 70% of human conceptions fail to achieveviability, with almost 50% of all pregnancies ending in miscarriagebefore the clinical recognition of a missed period or the presence of embryonal heart activity

Genetic causes are the most common entities resulting in first trimesterabortion. The frequency of aneuploidy is almost 90% in fetal loss in thefirst 6 weeks ; about 50% in losses 8 to 11 weeks of gestation; 30% inthose with 16-19 weeks and less than 10% above 20 weeks.

GENETIC FACTORS AS THE CAUSE OF RPL

There are a variety of genetic factors that may result in failure of a pregnancy to develop. These include aneuploidy, chromosomal imbalances as a result of parentally harbored translocations or inversions, deletions or duplications of genetic information within chromosomes, and single-gene mutations

Broadly, genetic factors may be divided into embryonic errorsderived from known parental chromosomal abnormalities and embryonic errors that arise de novo in apparently chromosomally normal parents.



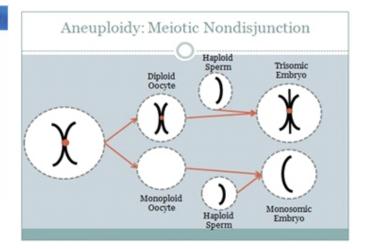
Most result from random errors in germ cell development that affect pregnancies in couples with and without a history of RPL equally. Typically, numerical aneuploidy results from meiotic nondisjunction in the germ cells of couples with normal parental karyotypes, and the recurrence of a particular abnormality in future pregnancies is rare

Chromosomal findings in F	KPL
Apparently normal	40%
Abnormal	60%
 Trisomy (47 chromosomes – 1extra) 	30%
+45X (45 chromosomes - one missing)	10%
Triploidy (69 chromosomes - three sets)	10%
Tetraploidy (92 chromosomes - four sets)	5%
Other chromosome anomalies (e.g. structural anomalies)	5%

MOGS MATTERS 3

Mogs

Nomen

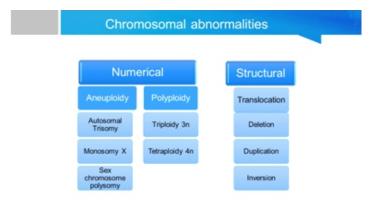


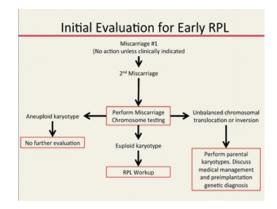
Parental chromosome anomalies occur in 3-5% of couples with RPL as opposed to 0.7% in the general population.

Balanced translocations are the most common chromosomal abnormalities contributing to RPL. In couples with RPL, this abnormality is found more frequently in the female partner at a ratio of 2:1 up to 3:1 .Recent data from PGD has shown that embryos resulting from parents harboring a balanced reciprocal translocation have rates of unrelated chromosomal aneuploidy at rates exceeding 35%.Studies indicate that when the Robertsonian translocation is maternal, there is a greater risk that the fetus will exhibit an unbalanced phenotype. The vast majority of early pregnancy losses (50%–60%) are the consequence of chromosomal abnormalities, which can be of parental origin, or arise de novo in the embryo from parents with normal chromosomes

The most common parental abnormalities are balanced translocations, found in 2%–4% of cases of RPL, compared to 0.7% in the general population.All balanced translocations can be detected by ordering a peripheral karyotyping in parents. Parents carrying balanced translocations are usually asymptomatic. The karyotype of their product of conception (POC) can be entirely normal or have a balanced or an unbalanced translocation. Pregnancies with unbalanced translocations usually end in miscarriage – which is often seen as a natural selection mechanism – but can also lead to stillbirths, or even live births with major congenital defects.

Because most cases are de novo errors, the risk of an embryo aneuploidy occurring in a subsequent pregnancy is low, and the higher the number of miscarriages, the less likely they are to be related to chromosomal abnormalities. The incidence of embryo chromosomal abnormalities is thus lower in women with RPL than in those with sporadic miscarriages.





INVESTIGATION/LAB EVALUATION



- Couple Karyotype should be done in
- ✓ Repetitive first trimester losses
- ✓ Anembryonic pregnancy
- ✓ History of malformations or mental retardation in previous pregnancy
- ✓ Advanced maternal age

Knowledge of the karyotype of the products of conception allows an informed prognosis for a future pregnancy outcome to be given. While a sporadic fetal chromosome abnormality is the most common cause of any single miscarriage, the risk of miscarriage as a result of fetal aneuploidy decreases with an increasing number of pregnancy losses. If the karyotype of the miscarried pregnancy is abnormal, there is a better prognosis for the next pregnancy.

The triad of analysis includes the POC and the samples of both the parents.

Significance of Chromosome Testing of Embryonic Material/ parental blood: Miscarriage tissues provide a rich source of material for research on the origins of chromosome errors. The opportunity can be utilised only if counselling is done in advance and the parents are explained about the need for the tissue analysis. This is because the products of conception may be minimal and there is a need to send with appropriate precision for analysis. In more than half of cases (and in more than 80% in older women), the cause of the miscarriage is identifiable. Detection of numerical error in chromosomes entails no further testing or treatment, since :

a.it is mostly non-recurrent

b.the risk of another miscarriage is not increased above that of any woman of the same age.

Current data suggest that routine karyotyping of couples with recurrent miscarriage cannot be justified. Selective parental karyotyping may be more appropriate when an unbalanced chromosome abnormality is identified in the products of conception.

TREATMENT OPTIONS

Genetic counselling & Familial chromosome studies.

Reproductive options in couples with chromosomal rearrangements include proceeding to a further natural pregnancy with or without a prenatal diagnosis test, gamete donation and adoption.

PGD has been proposed as a treatment option for translocation carriers. Since it necessitates IVF, couples with proven fertility need to be aware of the financial cost as well as implantation and live birth rates per cycle

Furthermore, they should be informed that they have a higher (50–70%) chance of a healthy live birth in future untreated pregnancies following natural conception than is currently achieved after PGD/IVF (approximately 30%).



After PG- the road ahead: Young guns who've been there, done that! Gynecological Endoscopy



Dr. Gaurav Desai MS FCPS Pelvic Surgeon & Fertility Specialist Assistant Professor Seth GS Medical College and KEM Hospital Member, Managing Commitee MOGS



Dr. Pranay Desai MS, DNB Consultant Obstetrician & Gynecologist Gynecological Endoscopic Surgeon Cosmetic Gynecologist Nirmala Multispeciality Hospital, Mahalaxmi Wockhardt Hospital, Mahalaxmi Active Member of Youth Council of MOGS.

"We interviewed two young - established Gynec-Endoscopic surgeons to know what drove them getting their hands onto their laparo and hysteroscopes."

Can you both tell us where did your passion for endoscopic surgery start?

Gaurav: My passion for endoscopy started by seeing my father perform endoscopic surgeries at workshops and of course when I was a trainee in medicine. I felt endoscopic surgery is the right blend of artistry and treating a patient using skill, medical knowledge and technical knowhow all at the same time.

Pranay: My passion for surgery got me interested in Gynec-endoscopy. My first ever encounter with laparoscopy was when I attended a lecture by late Dr. Rakesh Sinha, back in my undergrad days. I was in awe! I could not believe that someone could perform an entire hysterectomy just by making a few, centimeter-sized incisions on the abdomen. Since then, I have taken active efforts to know more about the field and have been fortunate for having met great mentors to guide me through.

Is Training in Degree / Diploma enough for someone to practice Endoscopy right after postgraduation?

Gaurav: I believe a superspecialisation and degree is not necessary as long as you see and perform a large number of procedures in endoscopy. Endoscopy is now a must know even at the postgraduate level.

Pranay: The primary degree or diploma in Obstetrics and Gynecology is enough to practice endoscopy. Any surgical skill requires adequate exposure and practice. If the primary institute for PG training has teachers performing endoscopic surgery, the students will have a fair enough exposure. In the future, however, a time may come when a special degree in Minimally Invasive Surgery may become mandatory. In this regard, there are institutes offering MUHS recognizedfellowship.At present the best proof of credibility is the log book of one's own cases.

How does one go about training for endoscopic surgery?

Gaurav: Today there are many more avenues and opportunities available for endoscopic surgery. As an assistant professor at one of the largest municipal institutes in the country, I have the opportunity to learn from teaching medical students and residents.

There are also fellowships and training programs. However I learnt a fair amount by assisting surgeons during live operative workshops across the country. Additionally there are many endoscopy videos on YouTube and social media platforms that I watch after dinner or whenever I have free time during my duty hours. Piggy backing with freelancer endoscopists on holidays has also helped me.

Pranay: Training in endoscopy may be broadly divided into Fellowship Programs (Short - 3 months and Long - 6 - 12 months), Specialized Courses (Basic & Advanced) and Workshops. Fellowship programs give an in-depth knowledge about the subject, starting from basic leading up to advanced surgeries, along with good hands - on training. The Specialized Courses are usually for a period of one to four weeks and concentrate on a particular topic with fewer hands-on training e.g. Laparoscopic Hysterectomy course, Retroperitoneal anatomy course, Hysteroscopy course etc. While Workshops last from one to seven days, they provide a general idea about the topic with minimal or no hands-on training.

Did you train with freelancing surgeons or at an institute? What would you recommend?

Gaurav: Yes I did follow some of the laparoscopic surgeons around the city of Bombay when I had free time and also travelled with them across the country during my vacations or when I took leave. Performing endoscopy yourself as a faculty at an institute and applying the knowledge you have gained also helps you a lot.

Pranay: I had the opportunity to work with freelancing surgeons as well as at an institute. Both have their strengths and flaws. Freelancing surgeons provide an intimate and in depth knowledge but with limited hands-on exposure. Institutes, although, provide a thorough training with adequate hands-on experience, may lack the personal touch. However, in either form of training, it is extremely important to have a one-to-one preceptorship in the initial part of the learning curve.

Currently which are the best institutes for endoscopy?

Gaurav: There are a number of good institutes for training in various parts of India. The most prominent places to go are down south in Kerala and Chennai as well as in Mumbai, Ahmedabad and Pune too. At Mumbai, one can learn from practicing at tertiary hospitals where one can observe some good endoscopic surgeons operate as well as in peripheral hospitals where one can get a lot of free-hand operative work.

Pranay: A lot of institutes offer different types of training. A trainee, fresh out of PG who has little or no knowledge about endoscopy, should choose an institute which provides a comprehensive exposure inclusive of laparoscopy and hysteroscopy and which not only focuses on developing the surgical skill but also managing the patient condition as a whole.

What are the basic investments and equipments necessary to start endoscopic surgery?

Gaurav: If one is strapped for money one can purchase a good second-hand equipment and make



initial mistakes on these before purchasing expensive endoscopic equipment from top of the line windows.

Pranay: I agree. One may settle for local made hand instruments. However, a good Three Chip HD camera and an LED / Xenon light source are indispensable and should not be compromised upon.

What are the most important things before starting to operate?

Gaurav: The most important thing before one actually starts operating individually is first the knowledge of the operating equipment, the pathology as well as techniques and skills of endoscopic surgery. One can learn certain aspects of endoscopic surgery like suturing on pelvitrainers as well as watch videos and assist experts. One needs patience, skill and good hand eye coordination to perform successful endoscopic surgeries.

Pranay: Yes, I absolutely agree. The importance of practicing on an Endo-trainer cannot be stressed enough. I spent many hours on it to get my suturing skills right before taking a knot on a live patient. Performing your first endoscopic surgery independently after training will be an unforgettable experience. The number of things that may go wrong is unimaginable. Frustration will take over sooner than you know it. Hence, there is no shame in having help from an experienced surgeon assisting you in the first few cases.

Any tips or advice for practice?

Gaurav: Endoscopy practice is different from what is done in institutions. One has to learn how to adapt and should not have an ego if one has to convert an endoscopic procedure into an open surgery. One must remember that the patient's life is most important.

Pranay: The advantage of endoscopy is that the surgery can be recorded. The best way to improve yourself is to review your own surgery over and over again. You will only excel if you are better than what you were in the previous surgery. And of course, you should have an undying hunger to learn more.





Reproductive Medicine



MOGS MATTERS 3

Dr. Shreedevi Tanksale DNB, DGO, FRM, DE

Director, Little Miracles Fertility clinic



Dr. Tejal Poddar MS, DFP, BIMIE, FRM, DE Director, Little Miracles Fertility clinic

IT ALL BEGINS WITH A DREAM

Looking back on the last 9 years, reminds us of so many ups and downs. Both of us were co residents under Dr. Geeta Niyogi in KJ Somaiya Hospital. It was during our residency days that we were introduced to infertility as we had weekly infertility OPD. Dr. Kirti Bendre and the lectures taught us Follicular study scans. They taught basics on infertility along with minimal stimulation protocols. This is the time when we started developing interest inmanagement of fertility patients. After completion of post graduation, we decided to join public hospital to gain more experience and improve our surgical skills. We completed a year of Senior resident post in LTMMC SION Hospital and KEM hospital. During these posts, also we were keenly involved in the infertility opds. This was the time we took experience of working in private practise with Dr. Shyam Desai and Dr. KedarGanla.

So in January 2016, both of us reached their Surat centre to begin the six months fellowship. It felt like being back to residency days. Initial few days we were lost. So many cycles happening. Daily ovum pickups and daily transfers. After first 10-15 days we got the hang of it. We started seeing patients from first consultation to workup and then start of protocol. After a month in Surat we shifted back to Pardi and that's when the roller coaster began. Our day would typically begin with Pick ups followed by Embryo transfers then OPD followed by lunchbreak at 3or 4 pm and then evening opd. Dr Purnima Nadkarni would be doing all this in a day and we would follow her everywhere. We learnt everything with her. She taught us how to talk to a patient. How to counsel patients. She took lectures in the morning time. With every patient she taught us why she selected this protocol. She taught us how to talk to a patient when cycle fails. She gave us insight into each and every aspect of fertility management. Alongwiththis ,we were also taught andrology and complete management of male infertility. We were so excited after doing our first OPU.

Two days in a week we also had laparoscopy training. Hysteroscopy is a basic tool for any fertility specialist. I was confidently doing hysteroscopies after two months into training. In these six months we also learnt how to do basic gynec scan alongwithobstretic and NT scan.

Alongwith this clinical learning, we were also exposed to laboratory work. The embryologist at the centre would take lectures for us. We would be screening for oocytes during pickup. Its equally

important to know what your embryologist does. This overall exposure in the six months that we stayed there gave us tremendous confidence.

We wanted to gain some international perspective. So we applied at some centres in USA and Belgium. We worked with Dr John Jarett at Indianapolis, USA. He is a senior fertility specialist with private practise. The way they talk to patients and their method of counselling is something we all should learn.

Luckily we were accepted at the prestigious Leuven University, Belgium. We completed hands on training in IVF protocols and Laboratory techniques in ART under Dr. Christen Meuleman and Dr Tomasetti. We recommend that all those want to pursue any super specialty must do an international course. These people are so welcoming and they are willing to share and exchange knowledge without any hangups. This is the place where we understood the advantages of doing group practice. That's when the ball started rolling that we should work together.

Post Belgium we went to Giessen Germany to finish International Laparoscopy training in ART under Dr. Prof Tinneberg. Every fertility specialist should know basic endoscopy and should be able to perform diagnostic endoscopy atleast. All these international courses, gave us lot of varied experiences and enriched our knowledge. After we came back, there was a big question mark-what now? Join some fertility centre chain or follow some fertility specialist? What to do next?

We met few fertility specialists in the city. We went to meet Dr AmeetPatki. He asked me everything about my training and then he said something that no one else had said to us before. Why don't you start on your own? Initially, we were shocked. But later we gave it a thought at length. We discussed all the issues we may face. We noted all the benefits we have since we both are passionate about the same subject and also the fact we have learnt same things throughout. This was the moment when we sowed the seed. We nurtured the idea and we gave it our heart, sweat and soul and our that's how our – LITTLE MIRACLES FERTILITY CLINIC was born. We decided on the basic framework of our work pattern. We have two opd clinics where both of us consult at mutually exclusive timings. We have our own IUI setup in our clinics. We did not go to any professional company to setup our clinic for us. We took quotes from vendors and ourselves designed the clinic. As we had closely observed the equipment used in all the centres, we knew what is essential and what is optional.We could setup our IUI lab in almost one third the cost that a professional had quoted(around 6 lakh rupees). We had decided that initially we may not get enough IVF cycles, so we could use already setup ART lab. The cost of setting up a fully equipped ART centre starts with atleast 1000 square feetspace and laboratory setup costing anywhere between rupees 70 lakhs to 1 crore. To make this centre sustainable we need to have atleast 30-40 cycles in a month.

You should also be aware about practicality of your decisions. We knew that we could not setup an IVF lab immediately. So we worked on a solution and are very happy working with another centre but with the freedom of managing our own practise. To start your own IUI setup, needs certain important things over and above the usual opd clinic. As we do our own follicular studies, we needed PCPNDT registration for the sonography machine and IUI clinic. There is wide range of



sonography machines available with cost ranging from rupees 3-10 lakhs. We need to maintain records, consent forms and details of all patients.

Throughout our journey till now we have always got positive support from all our teachers and mentors. The goodness that surrounded us inculcated so much positivity inside of us that we were able to serve all our patients with kindness and patience.

Everything we did till now was because we were focussed on what we wanted to do in professional life. We meet residents who don't know what they want to do. To all those who are clueless, we have to say one thing always make sure that you make your basic obstetrics and gynecology knowledge strong. Because you are foremost an OB GYN. Later on you may become an endoscopic surgeon or infertility specialist or oncosurgeon. Make sure you develop a strong base. Its good that we got little exposure of all the super specialities in our residency and SR post. That's how we decided our calling. We choose infertility management and concentrated on it. We were focussed on gaining maximum knowledge and experience in the subject we chose. The options available to us in India are FNB in Reproductive Medicine-2 year degree course or the six months ICOG course. Make sure that you find your calling. You cannot be jack of all trades but master of none. Explore all avenues and then make a choice.

There has been no better satisfaction in life than seeing the smiles on our patients face when they hold their kid in their arms. These smiles are our driving force to make us give our best care to our patients.

It is because of all the learning experiences and our constant endeavour to strive for the best possible care for our patients that we have been successful in giving babies to our patients. We have had our share of failures as well, but we never allowed them to overpower us. We faced our failures and we improved for the next battle.

Lastly we would like to say that learning never stops. Dont be ashamed to unlearn wrong and learn new things. Always follow ethical clinical practices. It will help you in the long run.







My journey as a Fetal Medicine Specialist.

Dr. Ashwini Rathi

MD (OBGY), MRCOG Director – Mumbai Fetal Medicine Centre, Andheri. Fetal Medicine Consultant Surya Mother and child Hospital, Santa Cruz.



In the rapidly evolving field of obstetrics; a sub specialty that has come to the fore front more so in the last decade is Fetal Medicine. Fetal Medicine involves three broad aspects of antenatal care – "Sonography" which is the corner stone of Fetal medicine (NT scan, anomaly scan, fetal echocardiography, fetal Dopplers), "counselling" and "pre-natal invasive procedures" (Amniocentesis, CVS, Selective fetal reduction, intra uterine transfusion, intra uterine lasers for TTTS, interstitial lasers for TRAP etc.).

Fetal medicine has slowly but steadily entrenched itself in routine antenatal care. Currently obstetrics without fetal medicine would be unthinkable and grossly incomplete.

During my residency at PGIMER – Chandigarh; I had my first fling with fetal medicine. I witnessed an intrauterine transfusion and it enthralled me. To give a successful outcome to an eight gravida with severe Rh isoimmuniatsion was to me the pinnacle of medical science. Thus began my journey of fetalmedicine.

There weren't any well-defined DM or sub specialty training programs after OBGY when I passed out (there aren't any till date). There were 1-2 year fellowship options and I pursued one at Apollo Centre for Fetal Medicine with Dr. Anita Kaul. During my training I was exposed to the changing scene of prenatal diagnostics. Gone were thosedays when termination was the only option and parents didn't have a closure after poor outcomes.

With the rapidly changing international fetal medicine scene (Thanks to Professor Kypros, London)knowledge and practices were percolating to ourcountry faster than I would have imagined. NT scans were becoming routine and anomaly scans were becoming increasingly systematic and detailed.

Combined with huge leaps in genetics; prenatal diagnostics now had answers for many couples with bad obstetrichistory or previous anomalous fetuses. Ultrasound technology has progressed so rapidly that it would put fetal MRI images to shame.

Thereafter during my stay in the UK; I witnessed intra uterine procedures like lasers for TTTS, tracheal balloons for CDH and since then there has been no looking back.

I chose to give up conventional obstetrics and dedicatedly practice fetal medicine till date.

Animportant aspect of fetal medicine is that it gives a chance of perfect work-life balance, which is something I treasure. Our career and family graphs often oppose each other directly.... As we reach the late 30s-40s ...our clinical practice starts peaking. But this is also the time that our ageing parents and growing children need us the most. With fetal medicine one has an opportunity to maintain a well-stratified life.

Another balance it strikes is between clinical and academic work. It definitely gives time to collate



your thoughts and contribute meaningfully in the academic arena.

Most of the obstetricians feel the need for a fetal medicine input in the management of many of their patientsesp. in the current situation of increasing high-risk pregnancies, precious pregnancies and litigation charged environment.

Therefore fetal medicine as a subspecialty is here to stay both in the corporate hospitals as well as the smaller maternity units across the country.

On the flipside a fetal medicine consultant might have to kiss goodbye to the sheer adrenaline rush of obstetrics, surgical exploits of gynecology, glamour of IVFor endoscopy and a bit of moolah. Is it worth the sacrifice?? I totally think so.

How to go about it:

omen

A residency program in OBGY is seldom enough to start practicing a sub specialty right away. Therefore, further training is amust. When one finishes residency, it would be a good idea to explore sub-specialties like infertility, high-risk obstetrics, endoscopy, gyne-oncology or fetal medicine. This could be done during or after completion of bond by taking up observership or assisting seniors in those particular fields. Since it's an important juncture; take your time, as there shouldn't be regrets later. Also, a SWOT analysis of yourself is a good way to help you choose.

If one narrows down to fetal Medicine; then fellowshipsis the way to go.

To the best of my knowledge currently therearen't any formal DM training programs after OBGY. The national board of examination offers FNB (Fellowship of National Board) programs that need an entrance exam. However; most of the other fetal medicine fellowships will need a good CV and an interview.

Fellowship options for fetal medicine (1-2 years):

- 1. Apollo FetalMedicineCentre, Apollo Hospital, New Delhi Dr. Anita Kaul
- 2. Bangalore Fetal Medicine Centre, Bangalore Dr. Prathima Radhakrishnan
- 3. Mediscan Centre, Chennai- Dr. S. Suresh.
- 4. FNB in maternal and fetal medicine- Fernandez Hospital, Hyderabad.

These are the oldest fellowship programs. Newer programs are being added to the list in different cities like Dr. Prashant Acharya – Ahmedabad, Dr. Chinmayee Ratha- Hyderabad.

Except for the FNB; none of the other fellowship programs have an exit exam. FNB however; will need a thesis and a formal exit exam. Thereafter international fellowships can also be pursued esp. in UK and Europe.

The fellowship training will be adequate for the honingscanning skills. However; intra uterine invasive procedures will have a longer and steeper curve to master. These can be gradually mastered by observing or assisting seniors.

A fetal medicine unit can be standalone or as part of a maternity unit. To start a standalone unit will need significant investment mainly due to the cost involved in the high-end sonography machines. Therefore, classically one starts free lancing and gradually moves on to the next stage.

Hope this helps young PGs in making the difficult choice. Because like Professor Albus Dumbledore said to Harry Potter... "It is not your abilities but your choices that define you".



Mogs Masti

MOGS MASTI is a fun filled interactive quiz session introduced to make the academic program in online webinars more engaging. The MASTI winners win exciting prizes, announced during valedictory.

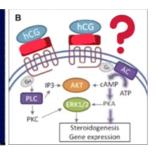
1. Youngistan Conference – 19thJuly, 2020

MOGS MASTI was conducted by Masters of Ceremony Dr. Shrutika Thakkar and Dr. Bhumika Kotecha Mundhe,. It featured two academic and one non-academic questions.



Answer : **Bakri Balloon** Winner : **Dr. Aditi Abhade, Mumbai**





Answer : Luteinizing Hormone (LH) Winner : Dr. Prachi Risbud, Mumbai





Answer : **Asian Paints, Bajaj, Dabur.** Winner : **Dr. Smriti Saxena**

2. MOGS Outreach Program – 25thJuly, 2020

The Outreach Program was conducted by the Masters of Ceremony Dr. Shreedevi Tanksale and Dr. Tejal Poddar. The MASTI session had an academic and a non-academic question each.



Answer : **Spiral Artery** Winner : **Dr. Riddhi Doshi**



Answer : Herapheri, KuchKuchHota Hai, Krish, Dilwale Dulhania Le Jayenge Winner : Dr. Kinjal Shah



Pearls of Wisdom

It gives us great pleasure to present to you '**Pearls of Wisdom**', a series of short videos made by experts on interesting topics to you. Last month we sent three videos and now this month we present the next two videos in the series. You all have received these videos via email.

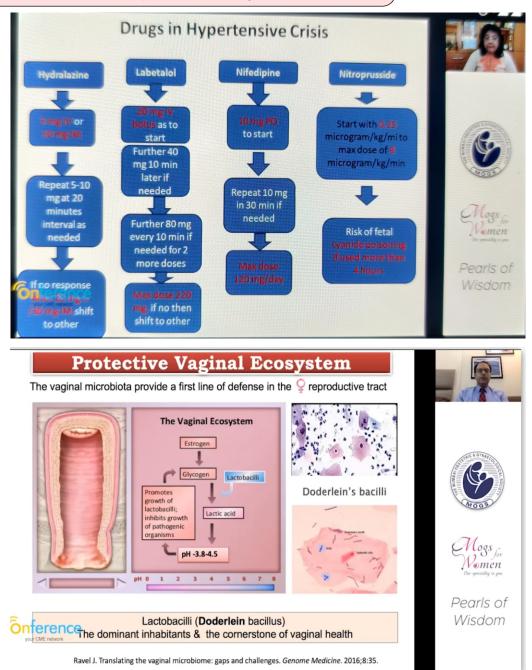
Episode 4 -

Drug Therapy for Preeclampsia, Dr. Reena Wani

https://www.onference.in/c/drug-therapy-for-eclampsia/1463

Episode 5- Probiotics in Vaginal Health- Dr. Ameya Purandare

https://www.onference.in/c/probiotics-in-vaginal-health/1464







Dr Rishma Pai, President, MOGS.



Dr Anahita Chauhan, Secretary, MOGS.





Fit Is It Team



Dr Komal Chavan Dr Madhuri Mehendale Managing Council Members, MOGS.



Dr Amrita Tandon Dr Aditi Tandon Youth Council Members, MOGS.

Contributor : **Dr Sargam Devkrishna Soni.** Consultant Gynecologist, Obstetrician, Infertility Expert. Mumbai, India. Youth Council Member, MOGS

"FIT IS IT" is the MOGS Matra for the year 2020. Recognizing the importance of fitness in the hectic lives of us doctors, the FIT IS IT team at MOGS, showcases short fitness videos, healthy food recipes and motivating stories in every program, conference and newsletter for the year 2020. These will inspire us to get MOVING even though the world is on a LOCKDOWN.

Dr. Sargam Devkrishna Soni: 19/07/2020 – Youngistan Conference







MOGS MATTERS 3

Organ Donation

On 1 st July 2020, we at Mumbai Obstetrics and Gynecological society decided to, change the ending to someone's story – by pledging to the cause of organ donation under the able leadership of our president Dr Rishma Dhillon Pai and Secretary Dr Anahita Chauhan. It was a drive which was conceptualized by our FOGSI President Dr Alpesh Gandhi and 47 of our MOGS members held banners and took the solemn pledge and also motivated other medicos as well as well as non-medicos to take the Pledge!

#MOGSPLEDGESFORORGANDONATION #PLEDGEFORORGANDONATION #LIVEAFTERDEATH #LIFEISAMAZINGPASSITON #IDONATE

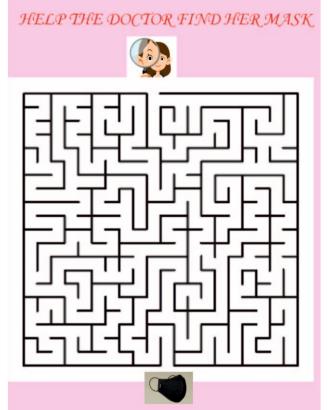


DR ROHAN PALSHETKAR 2) DR UNNATI MAMTORA 3) DR MADHURI PATIL 4) DR SANKET PISAT 5) DR VANITA RAUT 6)DR PRITI VYAS 7) DR PUNIT BHOJANI
 B) DR MANSI MEDHEKAR 9) DR GEETHA BALSARKAR 10) DR SARITA BHALERAO11) DR JAYDEEP TANK12) DR RISHMA PAI (PRESIDENT MOGS) 13) DR ANAHITA
 CHAUHAN (SECRETARY MOGS) 14) DR SUVARNA KHADILKAR 15) DR ATUL GANATRA 16) DR SHRUTIKA THAKKAR 17] DR RITU HINDUJA 18) DR SHREYA PRABHOO
 19)DR PRIYA VORA



Are you a true Mumbaikar? Have you been there done that? Strike out if you have done any of these activities in MUMBAI

mumad Bingo						
BEEN TO A Film set	TAKEN A FERRY Ride	HAD Sardar Pav Bhaji	BEEN TO Essel World	BEEN TO MT MARY FAIR		
TRAVELED WITHOUT TICKET IN LOCAL	FOUGHT WITH Auto Wala	BUMPED INTO A Celebrity	TOOK WEEKEND Trip to Lonavala	WALKED IN KNEE DEEP WATER TO WORK		
SEEN SUNSET AT Marine Drive	HAD Kirti College Vada Pav	Free	RAN Mumbai Marathon	HAD FILTER Coffee @ Matunga		
MISSED A MEETING Due to traffic	GOT WET IN MUMBAI RAINS	WAITED IN Q AT Lalbaugcha Raja	SHOPPED AT Kala Ghoda Fest	GOT TIFFIN Through Dabbawala		
SEEN A PLAY @ NCPA	BOUGHT MOVIE TICKET IN BLACK	STROLL AT JUHU BEACH	HAD MUCHCHAD PAN AT MIDNIGHT	BEEN TO BORIVAL NATIONAL PARK		



MECONINM VN2MEB KEY

GYNE SCRAMBLE

Unscramble The Words And Write The Letters In The Boxes.

Use The Letters In Shaded Boxes To Form A New Word That Answers The Riddle.

EOICUMMN		
ORATOPMZSAE		
SMESIOIANCNTE		
TTCALYSSOB		
OEISRINMDSOTE		
GOCRHODRAOTIAYPC		
YNAPECHLNAE		МАЯЭОТЯА9ЭЛОДКОТ ЯЭМ2ИА
SCHOPTOSYYER		АИЕИСЕРНАLY НҮЗТЕROSCOPY СRYPTOMEUORRHEA
OTNCEHRYMEPARRO		BLAZTOCYST ENDOMETRIOSIS CARDIOTOCOGRAPHY
Q. THE OFFICIAL RECORD	OF PROGRESS OF LABOUR IS CALLED AS?	SPERMATOZOA AMNIOCENTESIS



SPOT DIAGNOSIS

1.

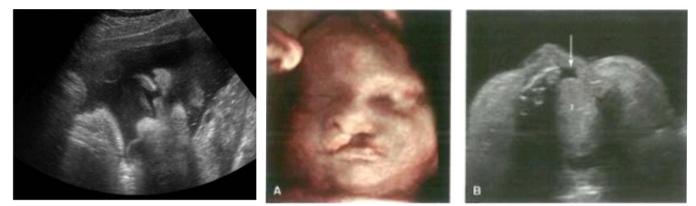


GUESS THIS RARE COMPLICATION OF TWIN PREGNANCY



WHAT IS THIS PATTERN IN CTG?

3. GUESS THE ANOMALY



MOGS MATTERS 3

Recipe

Cinnamon Beetroot Halwa

Healthy, sugar free, antioxidant rich dessert! By **Dr. Aditi Tandon**

INGREDIENTS

2 beetroots, 1 apple, 200 ml coconut milk, 1 tbsp jaggery powder/ equivalent stevia powder, 3 - 4 tbsp pure ghee, 1 tsp cinnamon, Handful of nuts, Almonds, Walnuts, Dry figs, Dates, Raisins Optional - Dried Cranberry, Blueberries

Recipe

Prep-20 mins

Grate the apple and beetroot. Cut the nuts and dry fruits fine.

Cooking time - 80 mins.

Steps:

1. Take 2 to 3 tbs ghee in a non-stick pan and add the grated beetroot to roast on a slow flame. Add the grated apple to the pan. Roast well for 40 to 45 mins. When roasted adequately, add the coconut milk to pan and let it simmer for 15 - 20 mins on a slow flame. Add jaggery powder or stevia for sweetness as per taste. A small quantity goes a long way as beetroots are naturally sweet!

2. On a separate pan, take 1 tbsp ghee and roast the nuts and dry fruits for 10 to 15 mins.

3. Add the nuts and dry fruits to the pan. Add 1 tsp cinnamon to taste. Your healthy halwa is ready! Enjoy guiltlessly as this desert has a wealth of healthy ingredients and also tastes delicious!

Gujarati Raab Recipe By **Dr. Kinjal Shah**

The traditional Gujarati Raab Recipe is a healthy and nutritious porridge. It is served mostly during winter time to keep warm and given to people who are recovering after a bout of illness to recover strength and built up their stamina (energy drink).Very good and useful in this corona pandemic.

Recipe:

TIME TO COOK: 20 - 25 MIN

INGREDIENTS:

2 tablespoon Gond / Gondh/ Gundar(Edible gum), 3 tablespoon Ghee, $\frac{1}{2}$ cup jaggery , 2 tablespoon Sooth (Dry ginger powder), 1 tablespoon Pipramul powder, $\frac{1}{2}$ cup dry coconut crushed, $\frac{1}{2}$ cup crushed almonds, 2 cup water

METHOD:

In a pan take Gond and Ghee and on slow flame cook it till the Gond swells. Add 2 cup of water thereafter and stir well on slow flame till the Gond dissolves completely. Add jaggery + Soonth + Pipramulpowder and boil it for 5min. Add crushed dry coconut and almonds to the mixture and boil it till the mixture is thick. Gujarati Raab is ready to be served hot.













PESSARETTU By Dr. Bhavini Shah

INGEDIENTS

2 cups Green Gram (Moong) soaked overnight, Coriander leaves, Ginger chopped, Green chilli as per taste, Cumin seeds, Salt as per taste, 1/2 cup Rice soaked overnight (optional)

METHOD

- 1. Wash and soak the green gram in warm water overnight (app. 6 hrs)
- 2. If you wish to add rice, you can soak that too with the green gram.
- 3. In a Mixer, blend the green gram, coriander leaves, ginger green chilli cumin seeds and salt with some water to make a smooth batter like that of a dosa batter.
- 4. Heat a nonstick or a dosa pan till slightly hot.
- 5. Pour the batter with a ladle and spread it into a thin round layer with the base of the ladle.
- 6. You can use Ghee (optional) to roast it.
- 7. Ensure that the Tawa is not very hot when you spread the batter. Cook it on medium flame.
- 8. You do not need to flip the side. Once cooked well, it starts coming off the pan from the sides.
- 9. To make crispy pessarettu, Rice should be added or you can also add 1 tbsp rice flour.

10. Between two pessarettus, make sure to sprinkle some water on the pan and allow it to cool down a bit.

11. It can be served with coconut chutney. It tastes good with hot and sweet tomato ketchup as well. It can also be served with sauted onions.

FUSION QESADILLAS

By Dr. Riddhi Doshi

Fusion Qesadillas in 3 steps

1. Stuffing

Keep chopped veggies ready in a cup(I used red & yellow bell pepper,broccoli,corn,zucchini).Saute these vegetables with butter on high flame in a pan till veggies become soft(roughly ½ minute).Add ½ cup of paneer cubes.Flavour it with chilliflakes,oregano& as per flavour.

2. Sauce:

Quick mixture of Schezwan ,tomato ketchup and mayonnaise in your desired proportions.

3. Tortilla

One can use ready made tortilla roti or make few cornflour+maida chapattis and keep it ready

The Final Assembly-

Take the tortilla and spread sauce on it evenly. Apply the prepared stuffing on individual roti on one half. Add cheese to it and fold it carefully into half moon shape. Apply butter on both sides of quesadilla and cook it on pan with low flame till it becomes crispy.











Mogs Talent

Inspite of our hectic work schedules, some of our members take time out to follow their passions. We would like showcase some talented doctors from our MOGS family.



Dr. Pradnya Changede is learning classical singing from Suresh Wadkar'sAjivasan academy.



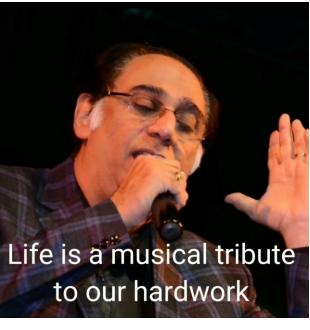
Dr. Amrita Tandon loves singing. You can hear one of her favourite songs by clicking on this link. <u>https://youtu.be/GoIQ0nYTrKQ</u>

As a tribute to COVID warriors, this video was made by Group of doctors. It is a soulful rendition of famous song- Mile sur meratumhara https://youtu.be/Uij4FEU9PnM



Dr. Riddhi Doshi revisited her childhood days by restarting dance practise during lockdown. She now wishes to continue to pursue it alongwith work.





Mile Sur Mera Tumhara Dr Bipin pandit



Photos

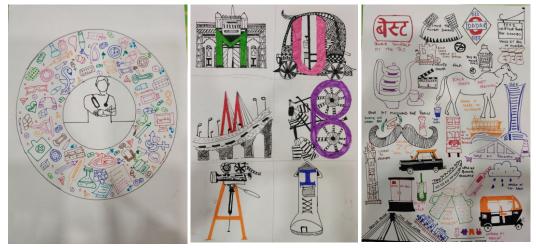
DR. SARITA CHHANAWAR CLICKS



DR. SUSHIL SHINDE BIRDS PHOTOS



DR. TEJAL PODDAR - DOODLE



DR. SHREEDEVI OILPASTELS





Rakhi Special

'Raksha Bandhan' or **'Rakhi'** is a special occasion to celebrate the bond of love between a brother and a sister. Some of our members or their children prepared handmade Rakhis to celebrate the occasion.

They made beautiful Rakhis using different articles easily available at home like silken thread, paper, crayons ribbon, etc. Their artisanship was quite fascinating. I am the kids thoroughly enjoyed this activity that tickled their creative side.



Little Aadya, 4 year old daughter of **Dr. Amruta and Dr. Siddheshlyer** made these colourfulrakhis for her younger brother Adheet.



Dr. Deepali Kali has innovatively used quilling technique and crafted these pretty handmade rakhis.



Miss Vritti Mundhe daughter of Dr. Bhumika Kotecha Mundhe has beautifully hand crafted this vibrantrakhi.



Dr. Shreya Prabhoo and her kids have prepared these glittery and colourful rakhis.



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For Luteal Phase Support, In Difficult-to-treat cases, High risk pregnancies



Improves Pregnancy Rate





SLDS technology: Lipid-based delivery system facilitates Vaginal and Oral administration





Effervescent Technology for Efficient Pharmacokinetics





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Micronised Estradiol Valerate Tablets 1 mg & 2 mg











Norethisterone Acetate Controlled Release Tablets (Micronised) 0 10 mg 0 15 mg





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