



AHMEDABAD OBSTETRICS & GYNAECOLOGICAL SOCIETY

# AOGS TIMES

## “SUTRA”

“Thread” of concise knowledge

**Theme :** “Women’s Health : Prevent, Detect & Thrive”

**Motto :** “United in Purpose, Stronger Together”

NOVEMBER 2025

VOLUME 8

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MADAME MARIE CURIE

THE FIRST WOMAN TO RECEIVE 2 NOBEL PRIZES

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## નિરાશાથી આશા સુધી... આશાથી સ્વાગત સુધી...

સનફ્લાવર ivf હોસ્પિટલ **૨૨ વર્ષોનો** અનુભવ, વિશ્વાસ અને સફળતા નો વારસો લઈ ને હવે તમારી નજીક, ગાંધીનગર માં નવી શાખા સાથે આવી રહી છે.

ભારતમાં ફર્ટિલિટી સારવારમાં  
અગ્રગણ્ય-નામો માં એક,

- ૨૧,૦૦૦ થી વધુ સફળ કેસો
- ૬૦ થી વધુ દેશોના દર્દીઓનો ભરોસો
- અને દર વર્ષે હજારો પરિવારો ને માતા પિતા બનવાનું સુખ આપનાર

## હવે તમારું પણ સપનું થશે સાકાર — તમારા શહેરમાં, તમારા ઘરના આંગણે!

સનફ્લાવર IVF - એક નવા પરિવાર ની શરૂવાત નો વિશ્વાસ

અમે આપીએ છીએ

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પથિકાશ્રમ, ગાંધીનગર

મેમનગર | નારણપુરા | નરોડા | ગાંધીનગર

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**Sunflower**  
Hospital  
Infertility & IVF Centre, Ahmedabad

# TEAM AOGS MESSAGE



**Dr. Nita Thakre**  
President



**Dr. Parth Shah**  
Hon. Secretary

Happy winter dear AOGS members!

As the chill of winter finally settles in, we find ourselves enjoying that familiar mix of crisp mornings, softer sunlight, and the comforting excuse to reach for warmer cups of tea during clinic hours. It's that time of year when the pace shifts ever so slightly, giving us a moment to breathe between busy OPDs, deliveries, and academic commitments. We hope you're all easing into the season with a little extra warmth—both the literal and the emotional kind.

Of course, winter also comes with its own set of health reminders. We spend so much of our time advising patients on self-care; this is a gentle nudge for us to follow our own advice too. Staying hydrated, protecting our skin, supporting immunity, and carving out time for regular exercise are just as important for us as they are for the women we care for. With the long days and late-night calls that come with being gynecologists, winter wellness isn't a luxury—it's a necessity. Let's prioritize ourselves a bit more this season.

On that note, we're genuinely excited about our upcoming SOGOG conference. It's one of those rare times in the year when we get to step out of our usual routines, reconnect with colleagues, learn something new, and maybe even rediscover why we fell in love with this specialty in the first place. We warmly encourage all of you to register yourselves at the earliest and participate with enthusiasm.

Behind the scenes, our team has been pouring heart and effort into making this event not just academically strong, but engaging, interactive, and yes—fun-filled too. From thoughtfully designed sessions to hands-on discussions, melodious evenings filled with laughter and opportunities to unwind and bond, we're planning a conference that will make you feel welcomed, energized, and part of a vibrant community.

So here's to a wonderful winter ahead—good health, good learning, and good company. We can't wait to see you all there!

**Dr. Nita Thakre**  
President

**Dr. Parth Shah**  
Hon. Secretary

## CENTERSTAGE



### Madame Marie Curie- the first woman to receive 2 Nobel prizes

Marie Curie was the first woman to receive a Nobel Prize, awarded the 1903 Nobel Prize in Physics for her pioneering research on radioactivity, a term she herself introduced. Her meticulous investigations into the nature of radioactive elements fundamentally reshaped early atomic physics and laid the groundwork for understanding nuclear decay, ionizing radiation, and the energy stored within the atom. Working under physically demanding and resource-limited conditions, Curie's experimental rigor enabled the identification of radioactivity as an intrinsic property of certain elements rather than a chemical artifact, a paradigm shift that influenced physics, chemistry, and medical diagnostics.

In 1911, Curie became the first person to win two Nobel Prizes when she was awarded the Nobel Prize in Chemistry for isolating radium and discovering polonium. Her work provided critical tools for the development of radiotherapy, radiation safety principles, and nuclear medicine. Despite the significant occupational radiation exposure she endured—she sadly died of aplastic anemia that was caused due to her constant exposure to radiation, long before modern safety protocols —Curie continued to advance the field with an ethic of scientific precision and public service. Her legacy lives on in contemporary radiation oncology, dosimetry, and imaging modalities, areas that trace their conceptual origins directly to her foundational discoveries.

## MEDICAL NEWS

- **Antimicrobial resistance (AMR):** A recent surveillance report indicates that in Gujarat, ~82% of bacterial isolates flagged as antimicrobial-resistant are either pan-drug-resistant or extremely drug-resistant – significantly narrowing effective treatment options for bacterial infections. (The Times of India)
- **Public-health outreach via mobile units:** The state's mobile medical units program has provided services to over 13.5 lakh citizens – delivering OPD care, lab tests, antenatal care, and identification of high-risk pregnancies in rural, tribal, salt-pan and desert areas. (Australia India News)
- **Rising respiratory illness** – likely pollution-linked: Gujarat has seen a surge in respiratory patients; nearly 340 new cases being reported daily according to a recent report. Physicians are attributing the rise to increased air pollution and onset of winter. (Gujarati Samachar)
- **Air Quality (AQI):** As of late November 2025, air pollution in Ahmedabad has worsened. One report noted AQI reached 212, with some localities (like Thaltej) recording ~300. The state-wide average AQI has touched ~193. Such high particulate pollution is likely contributing to the uptick in respiratory complaints, COPD exacerbations, and general public-health burden. (Ahmedabad Mirror)
- **Medical seats & health-education policy:** The first round of PG (MD/MS) admissions in Gujarat has started for 2,373 seats after delays. (The Times of India) Meanwhile, the national regulator National Medical Commission (NMC) has approved 247 additional PG medical seats for Gujarat, increasing capacity for specialty training. (Medical Dialogues)
- **Global research priorities for child health:** World Health Organization has released a new global research agenda to strengthen paediatric clinical trials – focusing on generating high-quality evidence across newborn health, infectious diseases, nutrition, and noncommunicable diseases in children (0–9 years). (World Health Organization)
- **Hope for new tuberculosis vaccines:** According to a recent update from Gavi, the Vaccine Alliance, new TB vaccine candidates are in final clinical trial stages, raising hopes for a future where tuberculosis might be substantially curtailed. (Gavi)
- **Setback in global HIV response – funding crisis:** A new report from UNAIDS warns that 2025's funding shortfalls have severely disrupted HIV prevention and treatment services worldwide – with particular impact on low- and middle-income countries. (UNAIDS)
- **Sleep supplement safety alert:** A large database review presented at the recent American Heart Association 2025 Scientific Sessions found that long-term use ( $\geq 1$  year) of Melatonin for chronic insomnia was associated with increased risk of heart failure, hospitalization for heart failure, and all-cause mortality compared to matched insomnia patients not using melatonin. (American Heart Association)

# SOGOG Olympics 2025 - Ahmedabad Zone

Well beginning of the SOGOG 2025 Events!

We're thrilled to announce that the SOGOG 2025 conference has kicked off well on a high note with the inaugural SOGOG Olympics, held in Ahmedabad for Ahmedabad zone! This innovative event brought together colleagues and friends, showcasing exceptional sportsmanship, teamwork, and camaraderie. The enthusiasm was palpable as participants excelled in various games, and the colleagues cheered them on with equal fervor.

We congratulate all the winners and participants who made this event a resounding success! Your energy and spirit have made a strong case for making the AOGS sports day a permanent fixture in our AOGS calendar.

As we look forward to the final round of Gujarat state at Ahmedabad during the SOGOG 2025 Conference, we invite all members to register and be part of this extraordinary experience. Join us from 19-21 December at Hyatt Regency Ahmedabad and witness the best of Gujarat's talent come together with a great Scientific Deliberations and memorable entertainment program!

Don't miss this opportunity to connect, share, and celebrate with your peers. Register now and be part of SOGOG 2025!

Organizing team SOGOG 2025

## SOGOG 2025 - AOGS ZONAL ROUND WINNERS

### Badminton

Gold - Jayesh Patel  
Silver - Rajeshwari Modi

### Table Tennis

Gold - Bhavit Shah  
Silver - Darshan Shah

### Chess Masters

Gold - Mrugesh Shah  
Silver - Azadeh Patel

### Carrom Board

Gold - Parul Kotdawala  
Silver - Darshan Shah

### Best Performance

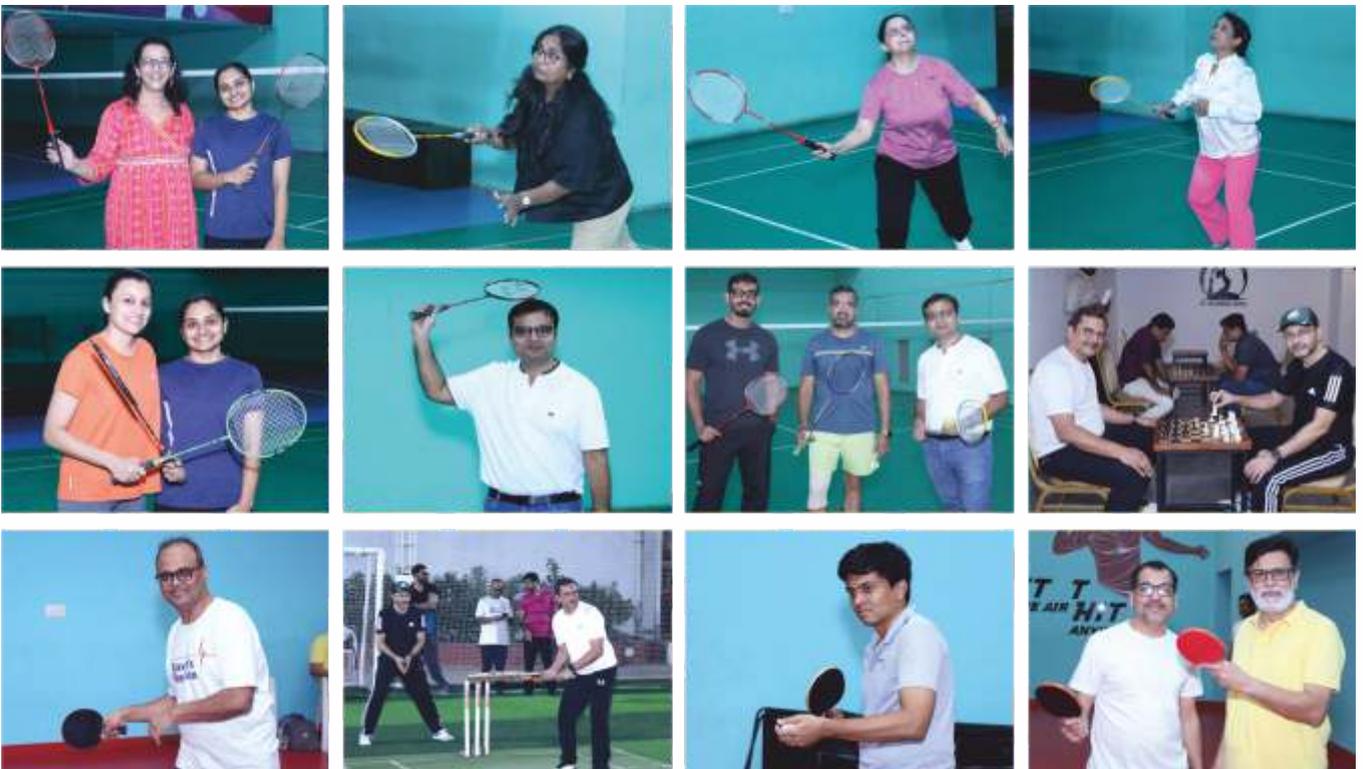
Male - Ashish Verma  
Female - Rajeshwari Modi

### Sports Couple

Shantwan Mehta  
Riddhi Mehta

### Box Cricket

Team Ashish Verma, Parth Shah, Manoj Pandya,  
Bhavith Shah, Anuj Pandya, Darshan Shah, Sanjay Shah



# SOGOG Olympics 2025 - Ahmedabad Zone



## SOGOG Olympics 2025 - Ahmedabad Zone



## SOGOG Olympics 2025 - North Zone

The Himatnagar Society had the honour of hosting this year's North Zone Zonal Sports – SOGOG Olympics, and it turned out to be a truly memorable celebration of teamwork, energy, friendship and sportsmanship.



Organized by :



# 48<sup>th</sup> SOGOG 2025

19 20 21

**DECEMBER, 2025**

**VENUE :**  
**HYATT REGENCY**  
ASHRAM ROAD, AHMEDABAD.

## CONFERENCE THEMES :

**Critical Care in Obstetrics**

**Foetal Medicine Frontiers**

**Infertility: Challenges & Solutions**

**Preventive Gyn-Oncology & Early Diagnosis**

**Mixed Bag**

## WORKSHOPS

- WORKSHOP 1  
**Mastering Fetal Medicine : Practical Tips**
- WORKSHOP 2  
**Operative Obstetrics Skills : Precision & Practice**
- WORKSHOP 3  
**Endometriosis & Fibroids : Comprehensive Approach**
- WORKSHOP 4  
**Vaginal Surgeries & Urogynecology : Optimizing Patient Outcome**

## REGISTRATION FEES

Registration Category	Amount
R.C. Members :	₹20,001/-
SOGOG Members (Conference+Workshop) :	₹13,800/-
SOGOG Members (Only Conference) :	₹11,000/-
Non Members (Conference + Workshop) :	₹15,500/-
Non Members (Only Conference) :	₹13,500/-
Registration (For Corporate registration) :	₹16,520/-
P.G. Students (Conference+Workshop):	₹9,440/-
P.G. Students (Only Conference):	₹8,260/-
Above 75 Years Age :	₹0/-
Accompany Person :	₹8,260/-

Including GST

## PG ACTIVITIES AT SOGOG

- PAPER / POSTER PRESENTATION
- DEBATE & QUIZ

## SCAN TO REGISTER



ORGANIZED BY : AHMEDABAD OBSTETRICS & GYNAECOLOGICAL SOCIETY

Email : sogog2025@gmail.com



# SOGOG STARS UNDER SPOTLIGHT

Date: Friday, 19th December 2025 | Time: 7:00 PM – 9:30 PM

Venue: Hyatt Regency, Ashram Road, Ahmedabad

## AN EVENING OF Talent, Laughter & Style!

Join us for a night where our own stars shine brightest, filled with fun, laughter, and unforgettable memories!



**Performances by SOGOG Societies**  
– showcasing creativity, rhythm & spirit.



**Special act by Dr. Tushar Shah**  
– Standup comedy that will leave you in splits!



**Best Outfit Award**  
– Men & Women who dazzle in their finest will be crowned the style icons of the evening.

**Dress Code: Indian Ethnic Wear – bring out the elegance and tradition in vibrant style!**

## An Evening with *Maahi*

Experience the sensational voice of Maahi, Son of the legendary Shaan!

**Saturday, 20th December 2025**

Hyatt Regency, Ahmedabad  
8:00 Pm onwards

Get ready to be enchanted by soulful melodies, electrifying performances, and a night filled with magic. Let Maahi take you on a musical journey you'll remember forever!



Organized by :



Organized By :  
AHMEDABAD OBSTETRICS & GYNAECOLOGICAL SOCIETY

**19 20 21** DECEMBER, 2025

VENUE : HYATT REGENCY, ASHRAM ROAD, AHMEDABAD

Email : sogog2025@gmail.com



**DELEGATE DETAILS :**

Title : Prof.  Dr.  Mr.  Ms.  Mrs.  Gender : Male  Female :

DELEGATE 1 NAME : \_\_\_\_\_

DELEGATE 2 NAME : \_\_\_\_\_

ACCOMPANYING PERSON 1 : \_\_\_\_\_

ACCOMPANYING PERSON 2 : \_\_\_\_\_

IF KID THEN NAME : \_\_\_\_\_

HOSPITAL NAME : \_\_\_\_\_

EMAIL : \_\_\_\_\_

CONTACT NUMBER : \_\_\_\_\_

ADDRESS : \_\_\_\_\_

COUNTRY : \_\_\_\_\_ STATE : \_\_\_\_\_

CITY : \_\_\_\_\_ PINCODE : \_\_\_\_\_

**SELECT YOUR WORKSHOP**

- 1. **Mastering Fetal Medicine: Practical Tips**
- 2. **Operative Obstetrics Skills: Precision & Practice**
- 3. **Endometriosis & Fibroids : Comprehensive Approach**
- 4. **Vaginal Surgeries & Urogynecology : Optimizing Patient Outcome**

DELEGATE 1      DELEGATE 2









**REGISTRATION FEES**

Registration Category	Amount
R.C. Members :	₹20,001/-
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SOGOG Members (Only Conference) :	₹11,000/-
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P.G. Students (Only Conference):	₹8,260/-
Above 75 Years Age :	₹0/-
Accompany Person :	₹8,260/-

**SCAN TO REGISTER**



Including GST

**PAYMENT DETAILS:** By Cheque / DD:  By Cash:  Amount: \_\_\_\_\_

Amount in Word: \_\_\_\_\_

Cheque / DD No.: \_\_\_\_\_ Cheque / DD Date: \_\_\_\_\_

Bank Name: \_\_\_\_\_ Branch: \_\_\_\_\_

**NET BANKING**

**NEFT**     **IMPS**

**UPI**

To Make Payment  
USE This QR Code

Reference Number: \_\_\_\_\_

UPI Transection ID: \_\_\_\_\_

Payment Date: \_\_\_\_\_

Payment Date: \_\_\_\_\_

Bank Name: \_\_\_\_\_

From Name: \_\_\_\_\_

Branch: \_\_\_\_\_

From UPI ID OR Number: \_\_\_\_\_



**REGISTRATION GUIDELINES**

**Important Points**

- All rates are inclusive of applicable taxes (18% GST Included) and shall be charged as per prevailing rates. ● Spot registrants will not be guaranteed Conference Kit and Gift.
- Congress Registration is mandatory for registration in Workshop and Banquet. ● Please provide your membership number (FOGSI Society Registration No.) for our reference. ● Provide all the necessary details as required in the form; it will be used for the conference communication only.
- Provide us your updated email id and WhatsApp Mobile number; it will be used for the registration receipt and other conference communication. ● Conference Organizers are not responsible for postal delays / failure of delivery by post or failure of electronic communication. ● PG. Students should attach a letter from HOD as a Proof of belonging to that College / University.

**Travel and Accommodation**

- In case of any cancellation of flight/train or any mode of transportation, booking amount will not be refundable. ● In case of late arrival at Venue, guests will not be entitled for missed meals or other activities. ● Any incidental, personal and other expenses and cost of items which are not specified/mentioned in the inclusions are to be borne by the guest.

**Liability and Safety**

- Management is not responsible for the loss of personal belongings of the guest. Guests are requested to take care of their belongings. ● Guests carrying valuables such as fragile items, money, jewellery, silverware, cameras, electronics / laptop or photographic equipment, antiques, artefacts, work of art, precious metals and other similar valuables at their own risk. ● Organizers reserves the right to cancel reservation without any prior notice in case of any Central/State Government Event/Meetings/Visits or any unwanted natural calamities. In which case, alternative dates can be set or full refund will be given. ● All guests can opt for adequate insurance coverage through their Insurance Company prior to travel.

**General Rules**

- Any dispute arising in above mentioned terms & condition is subject to Ahmedabad Jurisdiction only. ● No Pets are allowed inside The Venue. ● Guests have to follow the house rules and applicable laws of the land. ● Child below 6 years is complimentary. For the kid above 6 years accompany Person Registration is required.

**CANCELLATION & REFUND**

**Delegate Registration Cancellations**

- Cancellations made on or before November 1, 2025 will receive a 50% refund. ● Cancellations made after November 2, 2025 are not refundable.

**No-Shows :** Delegates who do not attend the conference ("no-shows") are not eligible for a refund.

**Transfer of Registration :** Delegate registrations can be transferred to another individual, subject to approval by the SOGOG 2025 organizing committee. A transfer fee of 500 INR will apply.

**Conference Cancellation or Postponement**

- In the event that SOGOG 2025 is canceled or postponed due to unforeseen circumstances, registered delegates will have the option to: Receive a full refund of their registration fee. ● Transfer their registration to the rescheduled conference date (if applicable).

**Refund Process**

- All refund requests must be submitted in writing to sogog2025@gmail.com ● Refunds will be processed within 30 business days of approval. ● Refunds will be issued to the original payment method used during registration.

**Exceptional Circumstances**

- Refunds may be considered in exceptional circumstances (e.g., medical emergencies, bereavement) at the discretion of the SOGOG 2025 organizing committee. Supporting documentation will be required.

**NEFT Details:**

A/C Name : SOGOG - 2025  
 A/c Number : **20021021000023**  
 Bank : BANK OF INDIA  
 Branch : ASHRAM ROAD, AHMEDABAD  
 IFSC Code : BKID0002002

Conference Secretariat :

**AHMEDABAD OBSTETRICS & GYNAECOLOGICAL SOCIETY**

2nd Floor, Dream Icon @ PARIMAL, Nr. Krupa Petrol Pump, Nr. Kalgi Cross Road, Surendra Mangaldas Road, Ellisbridge, Ahmedabad, Gujarat 380006 | Phone : 079 - 26586426 | E-mail : sogog2025@gmail.com

# Management of Rh Negative pregnancy

## A ready reckoner for obstetricians



**Dr. Kirtan Vyas**  
M.S., FICOG

### 1. Screening & Initial Work-up

- Confirm ABO and Rh(D) type at the first visit (8–12 weeks).
- Perform an indirect antiglobulin test (antibody screen).
- Rh-negative and unsensitized: give RhIG according to protocol.

### 2. Standard Antenatal RhIG

- Administer 300 µg RhIG at approximately 28 weeks.
- Re-dose within 72 hours after delivery if the neonate is Rh-positive or Rh-unknown.
- Single-dose RhIG regimen is effective (JOGC 2024).

### 3. Following RhD Sensitizing Procedures

- Interventions: amniocentesis, CVS, cordocentesis, maternal bleeding, abdominal trauma, external cephalic version, or miscarriage.
- For gestation < 13 weeks, 50 µg RhIG is acceptable (USPSTF).
- For gestation ≥ 13 weeks, administer the full 300 µg.
- ACOG 2024: routine RhIG after < 12 week loss is optional.

### 4. Determining Fetal RhD Status

- Perform cell-free fetal DNA (cffDNA) analysis between 16 and 26 weeks gestation.
- Eliminate unnecessary RhIG if the fetus is Rh-negative.
- If cffDNA is insufficient, follow with paternal genotyping or invasive testing.

### 5. Following Up Sensitized Patients

- Perform serial antibody titer measurements.
- Use MCA Doppler to assess fetal anemia (PSV ≥ 1.5 MoM indicates severe disease).
- Consider intrauterine transfusion if anemia is confirmed.

### 6. Management of Severe Alloimmunization

- Intrauterine transfusion (IUT) remains the standard of care.
- Intravenous immunoglobulin ± plasmapheresis is an adjunct to decrease transfusion needs.
- These therapies are reserved for high-risk or refractory cases.

### Summary Table

Intervention	Action
Booking visit	ABO/Rh typing + antibody screen
Routine prophylaxis	Administer 300 µg RhIG IM at 28 wks
Post-delivery	Rh+ baby or Rh-status unknown: Give 300 µg RhIG within 72 h
Early pregnancy loss	< 12 wks: By shared decision process; routine RhIG not mandated (ACOG 2024)
Invasive procedure	< 13 wks: 50 µg; ≥ 13 wks: 300 µg
cffDNA result	Use result to optimize prophylaxis dose
Sensitized pregnancy	Maternal titers + MCA Doppler; proceed to IUT or IVIG if indicated

## ANTENATAL MANAGEMENT OF RH-NEGATIVE MOTHER



### SCREENING & EARLY WORK-UP

At first prenatal visit (booking, usually 8–12 weeks)  
Perform ABO and Rh (D) blood typing and indirect antiglobulin (antibody) screen

### PROPHYLAXIS WITH RH IMMUNE GLOBULIN

#### Routine Antenatal Prophylaxis

Standard: 300 µg at ~28 weeks gestation and repeat within 72 hours postpartum if the baby is Rh-positive or status is unknown.



#### After Potential Sensitizing Events

Administer 50 µg if <13 weeks gestation or 300 µg if ≥13 w



### FETAL RhD STATUS ASSESSMENT

cffDNA (non-invasive): Determine fetal RhD status from maternal plasma



### MONITORING IF SENSITIZATION OCCURS

Close monitoring with serial maternal antibody titers  
Use MCA Doppler to assess fetal anemia



### INTERVENTIONS FOR SEVERE CASES

IUT remains standard treatment  
In selected cases, IVIG ± plasmapheresis may reduce need for transfusion



### KEY CLINICAL PEARLS

- Individualize early-loss prophylaxis
- Leverage cffDNA testing
- Remain vigilant for sensitization
- Advanced interventions in high-risk cases

### Key References:

- USPSTF: Screening & prophylaxis (2024).
- ACOG Clinical Practice Update, Dec 2024: Early loss management.
- JOGC 2024: Routine 28-week prophylaxis.
- SOGC / WHO / RCOG / NICE: International guidance on early losses.
- NICE DG25 & NHS: Use of cffDNA testing.
- MCA Doppler & IUT: Standard of care in sensitized pregnancies



# AOGS FAMILY TRIP

8 NIGHT / 9 DAYS

# Vietnam



Time : 1st Week of February, 2026

Cost : **1.35 Lac**

(Per Person Approx) (Flight Included)

Tour Operator : Flamingo Transworld

### Accommodation

- › 2 Night(s) in Hanoi at 4 Star or similar
- › 1 Night(s) in Halong at 4 Star or similar
- › 3 Night(s) in Da Nang at 4 Star or similar
- › 2 Night(s) in Ho Chi Minh City at 4 Star or similar

### Sightseeing Hanoi, Vietnam

Hanoi city tour, Cyclo tour Hanoi

### Sightseeing Ninh Binh, Vietnam

Ninh Binh Day Trip (Tam Coc, Bich Dong, Hoa Lu temple)

### Ho Chi Minh City, Vietnam

- › Saigon City Tour › War Remnants museum
- › Cu Chi Tunnels

### Da Nang, Vietnam

- › Ba Na Hills › Hoian Ancient Town
- › Da nang City Tour

**RSVP : AHMEDABAD OBSTETRICS & GYNAECOLOGICAL SOCIETY**

For More Detail Contact : **Dr. Nisarg Dharaiya M. : 75672 00111**

Mukesh Gohil M. : 6357 425 315 | Kanubhai M. : 94274 98443

## MEDICAL QUIZ

### Rh Isoimmunization – MCQ Quiz

**1. Rh isoimmunization most commonly results from:**

- A. Transfusion of Rh-positive platelets
- B. Fetomaternal hemorrhage of Rh-positive fetal RBCs into an Rh-negative mother
- C. Maternal ingestion of fetal cells via breastmilk
- D. Rh antibody transfer from grandmother to mother

**2. The antibody most responsible for clinically significant Rh hemolytic disease of the fetus and newborn (HDFN) is:**

- A. IgG anti-D
- B. IgM anti-D
- C. IgA anti-D
- D. IgE anti-D

**3. A 28-year-old Rh-negative pregnant woman has an antibody screen negative for anti-D at 12 weeks. The recommended routine prophylaxis with anti-D immunoglobulin is given at:**

- A. 16 weeks and delivery
- B. 28 weeks and within 72 hours postpartum
- C. 12 weeks only
- D. Only postpartum if the baby is Rh-positive

**4. Which test quantifies the volume of fetomaternal hemorrhage to determine additional anti-D dose?**

- A. Kleihauer–Betke test
- B. Coombs test (indirect)
- C. TORCH screen
- D. Amniocentesis

**5. The critical maternal anti-D antibody titer associated with risk of fetal anemia is generally:**

- A. 1:4
- B. 1:8
- C. 1:16
- D. 1:64

**6. In a sensitized pregnancy, the most appropriate noninvasive test to monitor for fetal anemia is:**

- A. CTG
- B. Middle cerebral artery peak systolic velocity (MCA-PSV) Doppler
- C. Amniotic fluid AFI measurement
- D. Maternal serum AFP levels

**7. MCA-PSV > 1.5 MoM in an Rh-sensitized pregnancy indicates:**

- A. Fetal thrombocytopenia
- B. Risk of maternal hemorrhage
- C. Placental insufficiency
- D. Severe fetal anemia

**8. Which of the following situations requires anti-D prophylaxis in an Rh-negative unsensitized woman?**

- A. Urinary tract infection in pregnancy
- B. External cephalic version
- C. Oligohydramnios
- D. Hyperemesis gravidarum

**9. The mechanism of action of anti-D immunoglobulin prophylaxis is best described as:**

- A. Blocking fetal D antigens from binding maternal macrophages
- B. Suppression of maternal B-cell activation by clearing fetal Rh-positive cells
- C. Prevention of placental transfer of IgG across the villi
- D. Inducing maternal tolerance to the D antigen

**10. The gold-standard treatment for severe fetal anemia due to Rh isoimmunization is:**

- A. High-dose maternal corticosteroids
- B. Immediate cesarean delivery regardless of gestational age
- C. Amnioinfusion
- D. Intrauterine intravascular transfusion (IVT)

**✓ Answer Key : 1.B, 2.A, 3.B, 4.A, 5.C, 6.B, 7.D, 8.B, 9.B, 10.D**

## READER'S CORNER

### Book Review: *The Gene: An Intimate History*

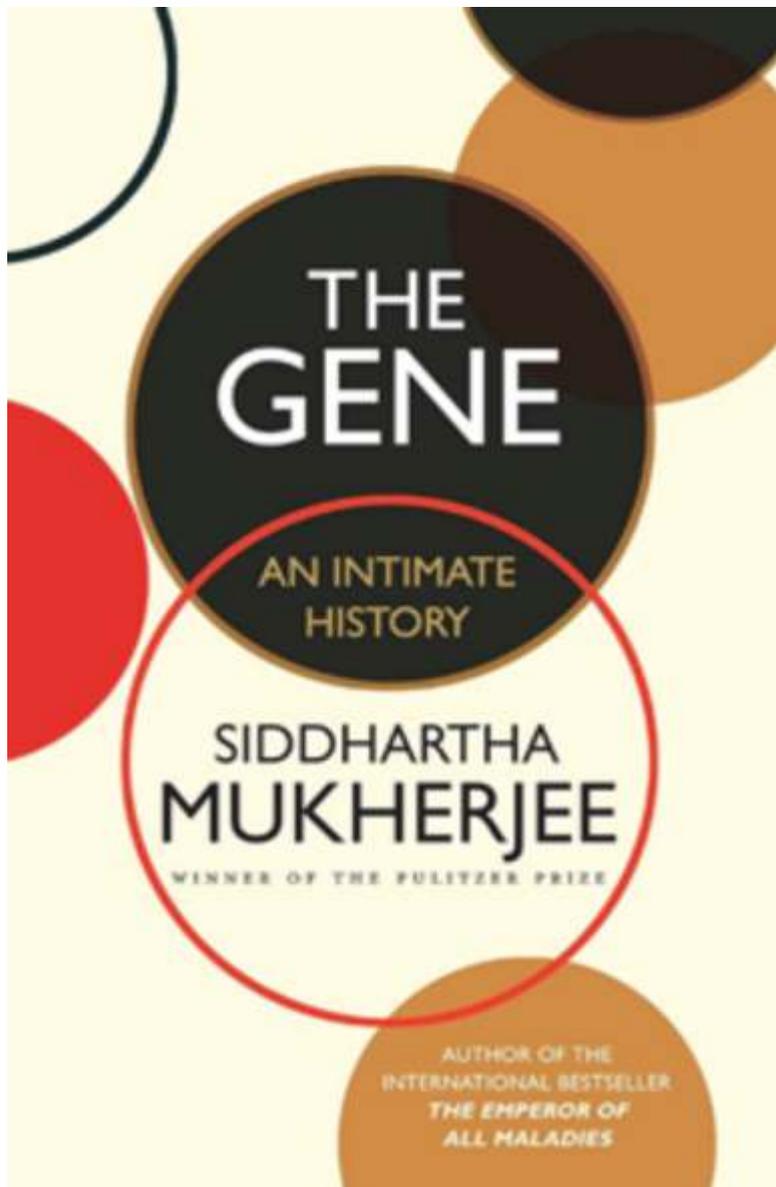
Siddhartha Mukherjee's *The Gene* is a masterful synthesis of science, history, ethics, and personal narrative – a sweeping chronicle of the concept of the gene, from its earliest inklings to the cutting-edge genomics of the 21st century. Mukherjee traces the trajectory of genetic thought starting with the experiments of Gregor Mendel in 19th-century pea plants; through the rediscovery of heredity, the identification of chromosomes, the discovery of DNA's double helix by James Watson and Francis Crick (with vital contributions by Rosalind Franklin); and onward to modern advances such as recombinant DNA, genome sequencing, and gene editing. Mukherjee explains complex molecular biology with clarity, but also situates genetics within its social, historical, and philosophical contexts – showing how the gene is not just a biochemical unit but a cultural and moral idea that shapes notions of identity, normality, and destiny.

Interwoven with this grand scientific history is an intimate personal thread: Mukherjee

discusses his own family's experience with mental illness – schizophrenia and bipolar disorder across generations – as a tangible reminder that genetic inheritance is not abstract, but deeply personal and often fraught. This vulnerability roots the narrative, turning what could easily be an impersonal review of scientific progress into an emotionally resonant story about heredity, fate, and human fragility.

Yet the book does more than recount discoveries. Mukherjee does not shy away from the ethical perils that accompany genetic knowledge: the history and horrors of eugenics, the misuse of heredity to justify discrimination and violence, and the contemporary challenges posed by gene-editing technologies or genetic screening. His reflections challenge the reader – especially clinicians, scientists, and policy-makers – to confront not only what we can do with genetic knowledge, but whether we ought to.

**Verdict:** *The Gene* is essential reading for any physician, biomedical researcher, or medically literate layperson concerned with the roots of heredity, the promises and perils of genomics, and what it means – ethically, socially, personally – to carry a genome. It is equal parts a history and a warning: a celebration of scientific triumph, and a sober meditation on the power—and limits—of genes.





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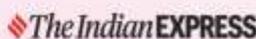
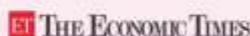
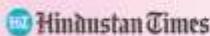


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