

Obstetric Anaesthesia

Fellowship in Obstetric Anaesthesia

A tertiary, perinatal centre
dedicated wholly
to the healthcare of
women and the newborn



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Fellowship in Obstetric Anaesthesia

Prospectus

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Dear _____

Welcome to Fernandez Hospital / Prerna team.

This booklet gives you an insight into the hospital policies and procedures. The supplement of this book also serves you with our protocols, curriculum details and responsibilities towards our patients at Fernandez hospital.

We hope you find your Fellowship training here a pleasant and meaningful experience. No matter what your job, you have the opportunity to make a significant impact on others' lives by helping them in the time of need or during crisis. As with any endeavor in life, this opportunity is what you make out of it. Your orientation programme will introduce you to the resources, programmes, and people who can make this happen.

We thank you in advance for your prospective contributions to our hospital and we wish you success in your work.

Best wishes,

Dr. A. Rampapa Rao
Dr. Sunil T Pandya
Program Directors

NOTE:

Prior to commencement of the Fellowship, all students must :

- Sign and return a copy of the appointment letter
- Sign rules and regulations agreement
 - Submission of your Original Certificates
 - MBBS Degree Certificate
 - MD / DNB Degree certificate
 - Medical council registration certificate
- Additional Qualifications Certificates, if any.
- Provide a photocopy of proof of identity in the form of car license / passport / ration card / PAN card.
- Provide the name and phone number of a contact person in case of emergency.

Manifesto

Life is from God, sacred and precious.

We will do our best to affirm and preserve it always.

We will treat every individual - patient, employee and colleague -
with respect, kindness and compassion.

We will treat all patients equally,
regardless of caste, creed or economic status.

We will give our best always,
never compromising on the quality of patient care.

We will be honest with ourselves,
accepting our limitations because we are human.

We will serve with love everyone who comes to this Hospital;
because we believe that in serving them we are serving God.

*Prior to inauguration of the new hospital,
all the employees (doctors, nurses, administrative staff,
dayas, watchmen) were asked to give their views on what
THEY thought this hospital stood for and what the
philosophy was. Their answers were incorporated into this
manifesto, which is at the entrance of the hospital for
anyone to read.*

Message

If anyone should ask me what the secret of Fernandez Hospital is, my reply, without hesitation, would be: "An excellent team spirit at all levels".

I believe no individual can continue working alone if he / she wishes to serve a community. We have to work together, build a team, empower people and allow them to grow. This has to be coupled with honest self introspection, openness to criticism and evaluation of one's work. The philosophy of the organization has to be kept in mind and reinforced all the time at all levels. This explains our reason for placing our Manifesto up front for all to read and for anyone to criticize or question our inability to live up to our ideals.

All customers judge the service they receive by how well they are treated by everyone with whom they come in contact. In an organization therefore, every individual, from the watchman to the boss, is a public relations person. This is emphasized to every employee at Fernandez Hospital.

The time has come for organizations to join hands and work together to serve the community at large.

We at Fernandez Hospital are working towards an open and a transparent atmosphere.

We welcome you as a student and are happy to share our knowledge and experience with you.

A handwritten signature in black ink that reads "Erika Fernandez". The signature is written in a cursive, flowing style.

FERNANDEZ HOSPITAL

A Profile

Fernandez Hospital (FH) a private, non-funded, medical institution, was established in 1948. It is dedicated wholly to women and the newborn, with a vision to provide quality care. The Hospital has facilities to look after the health of a woman, totally, from puberty to menopause.

ABOUT THE HOSPITAL

Fernandez Hospital is headed by Dr. Evita Fernandez (FRCOG) and backed by a well-knit and committed team of obstetricians, gynaecologists, anaesthesiologists and neonatologists, who are available 24 hours a day, to cope with any emergency. The Fernandez Hospital team also has Specialists in other disciplines, like Cardiology, Neurology, Nephrology, Endocrinology, etc. who visit the hospital on a regular basis and are available on call. The inhouse team, together with the Specialists provides a total health cover under one roof, ensuring that the patient receives care of a very high calibre.

IN-HOUSE FACILITIES

With a dedicated team of 20 in-house doctors (Obstetricians, Gynaecologists, Anaesthesiologists and neonatologists, FH has a well-staffed Out-Patient Dept. with 11 Consultation Rooms. On an average the doctors treat over 200 out-patients every day. The in-house facilities include: Antenatal Clinics, High Risk Obstetric Medicine Unit, Fully-equipped Obstetric Suites, Obstetric Intensive Care Unit, Fetal Medicine Unit, Ultrasound Unit, Round-the-clock Anaesthesia & Critical Care Services, Multiple Pregnancy Unit, Pre-pregnancy Counseling, Bereavement Counseling, Gynaecological Surgery, Endoscopic Surgery, Infertility Treatment, Cancer Screening, Menopause Clinic, Neonatal Unit with ICU, Kangaroo Mother Care, Specialist clinics (Cardiology, Dermatology, Orthopedics, Endocrinology, Physiotherapy, Psychology, etc), Nutrition Clinic, 24-hour Pathology Laboratory and 24-hour Pharmacy.

Department of Anaesthesia, Pain and Critical care:

Obstetric anaesthesia practice everywhere is an emergency service. Fernandez Hospital was the first to introduce 24-hour anaesthesia service in an Obstetrics & Gynaecology unit in the twin cities. The availability of the anaesthesiologists and coordination with other specialists facilitates early attention and timely intervention. With the introduction of epidural services, the safety of obstetric anaesthesia has vastly improved. Today, 60% of the total deliveries at FH are conducted pain-free under epidural analgesia. The anaesthesia team is the backbone of our dedicated Obstetric Intensive Care unit, first of its kind to be set up in India. In addition, the department also has a dedicated PAC clinic and Acute pain services.

OBSTETRICS

The team of doctors that looks after the obstetric patients at Fernandez Hospital handles approximately 3800 deliveries per

year. More than 50% of our women belong to the high risk category. We have a well equipped 12-bedded labour ward unit which includes an emergency operation theatre and an ultrasound machine to deal with all kinds of emergencies. The Pre-pregnancy Counseling Clinic looks after women with recurrent pregnancy losses and women who wish to have a pre-pregnancy evaluation. Couples are encouraged to attend these counseling sessions.

GYNAECOLOGY

In addition to treating the common gynaecological problems faced by women, the Department of Gynaecology at Fernandez Hospital has a full fledged endoscopy unit (Laparoscopy, colposcopy and hysteroscopy). Breast Clinic / Mammography unit were added, for detection and screening of breast disease, thus ensuring complete women care in the hospital.

Menopause Clinic : Fernandez Hospital was the first in Hyderabad to open a Menopause Clinic in 1994, recognizing that perimenopausal women need help to cope with this sometimes difficult transition.

FETAL MEDICINE UNIT

Fernandez Hospital was the first in Hyderabad to provide in-house tests for both the mother and the fetus when it opened its Fetal Medicine Unit in October 1998. To improve the quality of ultrasound scanning, FH acquired Colour Doppler for blood flow studies and fetal echocardiography in 1992. In 2004, two Voluson, the latest 4D high resolution ultrasound equipment were added in the process of upgrading the department further. The Perinatal Pathology Unit was also started incorporating fetal autopsy.

NEONATOLOGY

The Neonatology Department is manned by a team of competent doctors and nurses who provide round-the-clock services along with specialists like paediatric cardiologist, ophthalmologist, orthopedician, nephrologist and paediatric surgeon. The NICU at FH is an air-conditioned, 25-bed modern unit, fully equipped with ventilators, CPAP, incubators, phototherapy units, cardiorespiratory monitors, pulse oximeters, 5-parameter non-invasive monitors, bed-side blood gas analyser, and portable x-ray unit. Facilities are also provided to perform neurosonogram for babies.

KANGAROO MOTHER CARE (KMC)

Fernandez Hospital is a pioneer of Kangaroo Mother Care in Andhra Pradesh and has a KMC Unit where mothers of low birth weight babies are initiated into KMC. They are encouraged to go about their daily chores with their babies tied securely to their chests.

PATHOLOGY

Michael Diagnostics, the pathological laboratory wing of Fernandez Hospital, caters to patients on a 24-hour basis. The laboratory is equipped to carry out routine as well as special investigations : Biochemistry, Clinical Pathology, Haematology, Histopathology, Cytology and Microbiology.

SERVING THE PEOPLE

In collaboration with the Government and an NGO - MV Foundation, headed by Dr. Shantha Sinha - Fernandez Hospital runs a primary health centre at Aloor, in Andhra Pradesh. The women requiring special care are then taken care by the hospital free of cost.

MEDICAL RECORDS

Medical records and its maintenance is an integral part of the data management system of the hospital. It has a designated authority to oversee the activities of medical records maintenance and has sufficient staff to execute all aspects of this programme. All the data relating to patient care inclusive of in-patient and out-patient information is stored. The data is arranged in order and is easily retrievable. The data is analyzable and the output can be extracted for various needs of the hospital statistics / data for audits and projects.

ACADEMICS DEPARTMENT : PRERNA TEAM

We felt a long standing need of having a Dedicated well stocked Library having all important books and Journals in anaesthesia and various subspecialities of anaesthesia. Keeping this in mind, we upgraded our library facility which now stocks more than 300 textbooks in anaesthesia and has subscription of fifteen important national and international journals encompassing all the subspecialities of anaesthesiology. In addition, it encompasses a dedicated multiple user net room with broad band internet connectivity and online journal subscriptions. This is reinforced with a regular teaching programme for anaesthesia DNB trainees / post-graduates belonging to other Govt. medical colleges and other hospitals in twincities.

The library is fully airconditioned, provides good ambience and is located adjacent to Fernandez Hospital, with a 24 hour access.

ACADEMICS DEPARTMENT : FERNANDEZ HOSPITAL

Over the years Fernandez Hospital has evolved into a "Teaching Hospital". As part of its commitment to keeping abreast of advances in medical information and technology, Fernandez Hospital instituted the Academics Department in 2003. The Academics Department at Fernandez Hospital is responsible for Continuing Education of in-house doctors and para-medical personnel, coordinating the various academic activities of the DNB training programme, Fellowship in High Risk Pregnancy & Perinatology, Medical students from overseas and Perinatal Education Programme and for specialised training programme in obstetrics & gynaecology.

LIBRARY

A well stocked library, with important text books and journals, is attached to the institute, to equip the doctors and students with a vast amount of information.

A HOSPITAL WITH A VISION

While Hyderabad has developed into a highly progressive city, Fernandez Hospital has also maintained an impressive track record. With a focus on the future, FH has, over the years become a very streamlined institution. Strict procedures and protocols are maintained which are followed up by regular medical audits. Nurses and paramedics are constantly trained and updated on new technology and equipment. Totally computerised administration provides coordinated and cost-effective service. Integrity, honesty and transparency are the key mantras at all levels - from top management down to paramedics in the wards. Through the years great importance has been given to the “doctor-patient relationship” creating a bond of trust. After 55 years the patient continues to be our prime concern. Generations of patients are testimony to the uncompromising quality of patient care at Fernandez Hospital.

CONTACT DETAILS

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Prerna Office:

Phone: 91-40-24756997 Extn : 443, 91-40-24754360

Fax: 91-40-24750361

Email: calarc.prerna@gmail.com

Medical Team

Dept. of Anaesthesiology, Pain and Critical care

Dr. A.Rampapa Rao, MD
Dr. Sunil T. Pandya, MD, PDCC
Dr. K. Sailaja, DA
Dr. Y. Shanti, DA
Dr. M. Srinivas, MD
Dr. Sujanith, MD
Dr. Vinay Kiran, DA
Dr. Ramesh Reddy, MD,DA

Department Of Obstetrics

Dr. Evita Fernandez, FRCOG
Dr. Kasthuri Sarvotham, DGO
Dr. S. Tarakeswari, MD
Dr. Anupama Singh, DGO
Dr. Nuzhat Aziz, DGO, DNB

Dept. of Fetal Medicine

Dr. Geeta, MD, DNB
Dr. Suseela Vavilala, MD, DNB, Fellow in Fetal Medicine

Dept. of Gynaecology

Dr. M. Lakshmi Rathna, MD, DGO
Dr. D. Shashikala, MD, DGO
Dr. Kameswari Surampudi, DGO, MRCOG

Dept. of Neonatology

Dr. G. Pramod Reddy, MD, DCH
Dr. C. Anupama Reddy, MD
Dr. Srinivas Murki

Diagnostic Services

Dr. Irfana Nikhat, MBBS, DCP (Pathologist)
Mrs. Kalyani, M.Sc. (Biochemist)

Dept. of Academics: Prerna Library

Dr. A.Rampapa Rao
Mr.Hanuman(manager)
Mr.Prasanna(Coordinator)

Dept. of Academics: Fernandez Hospital

Dr. Nuzhat Aziz DGO, DNB
Ms. Ruth S. Dasari (Secretary)
Ms. Amina Zeshan (Coordinator)

Important Phone Numbers

Fernandez Hospital 24756997 / 40222300

Prerna Office: 24754360

Internal Extension Numbers

Location	Extension Number
Academics Department-Prerna	443
Academics department-FH	309 / 427
Anaesthesia Room	339
Conference Hall	310
Canteen	315
Emergency Room	338
ICU / POW	366 / 337
Operation Theatres-Doctors room	361
Operation room-OT secretary	364
OT-I	363
OT-II	362
OT-III	365
Emergency OT	334
Labour ward	335 / 336
NICU	340 / 341
Nursing Station (Ground Floor)	331 / 332
Nursing Station (First Floor)	343 / 344
Nursing station (second floor)	368 / 369
Day Care Unit	395
Pharmacy	329
Pathology / LAB	314 / 414
OP / Inpatient desk	323 / 324 / 325 / 326
Ultrasound Department	311

Fellowship in Obstetric anaesthesia

Introduction

The training program in obstetric anesthesiology is structured to ensure optimal patient care while at the same time providing fellows with the opportunity to develop skills in clinical care and judgment, teaching, and research. The obstetric anesthesia training program also emphasizes education involving the anesthesia care of women during the reproductive years, particularly during pregnancy and the puerperium.

Essential Qualifications

M.D / D.N.B in Anaesthesia from an institute recognized by Indian Medical Council

Selection

Based on Interview

Duration of Fellowship

12 Calendar Months

Faculty

Dr. Sunil T Pandya, MD, PDCC

Incharge, Dept of anaesthesia, Pain and Critical care,
Programme director: Fellowship course
Fernandez Hospital

Dr. A.Rampapa Rao, MD

Managing Director – Prerna team
Programme director: Fellowship Course

Dr. K. Sailaja, DA,

Consultant anaesthesiologist / Course co-ordinator

Dr. Y. Shanti, DA

Consultant anaesthesiologist / Course co-ordinator

Dr. M.Srinivas, MD

Consultant anaesthesiologist

Dr. Sujanith, MD

Consultant anaesthesiologist

Dr. Tarakeswari, MD

Specialist Obstetric Medicine & High Risk Obstetrics

Dr. Suseela Vavilala, DNB, Fetal Medicine Specialist

Consultant, Fetal Medicine Unit

Dr. Anupama Singh, DGO

Consultant Obstetrician

Dr. Nuzhat Aziz, DGO, DNB

Consultant Obstetrician and Head of Dept of Academics

Dr.Pramod Reddy, MD

HOD, Neonatology

Dr.Anupama Reddy, MD

Senior consultant Neonatology

Overseas advisors:

Dr. Nirmala Saundarajan, MD, DNB, FRCA

Dr. G.Rajsekhar Reddy, MD, FRCA

Components of the Fellowship

Desirable criteria:

Desirable qualities include motivation to learn, discipline and accountability.

- The Fellow is expected to follow the protocols strictly given at the time of joining. At any time if the candidate breaches the protocol causing any harm to the patient, he / she shall immediately be terminated.
- The academic rota for the whole year shall be given to the candidate at the time of joining and should strictly follow the same. The Fellow is encouraged not to postpone any academic sessions.
- The Fellow shall be rotated in different areas of work in the twelve-month period and shall follow this rotation strictly.
- The Fellow is expected to participate in ongoing research projects in the department.
- Completion of at least one research project is essential part of the fellowship curriculum.
- The fellow shall abide by the rules laid down by the Fernandez hospital educational training committee
- Should maintain a log book provided at the time of admission

Job Description:

- Course duration: Twelve Calender Months
- Tuition fee(includes Library fees, Course material): Rs. 40,000/-, DD payable at the time of admission / FH education Trust
- Weekly working hours are about 60 hrs per week and include a residential on call commitment.
- The working environment provides fellows with a sound scientific and clinical education. Concerns for patient safety and fellow well-being have been balanced to achieve this.

Specific Objectives of the Fellowship

It is expected that the subspecialist in Obstetric anaesthesia will be able to demonstrate:

- Knowledge of the basic sciences relevant to Maternal & Fetal and perioperative anaesthetic implications / Medicine.
- A thorough knowledge of the patho-physiology, methods of evaluation and treatment of the maternal disorders and pregnancy complications contributing to high fetal risk and early newborn problems. A full knowledge and competence in all of the modalities of providing safe anaesthetic both in emergency and elective situations. State of the art skills and competence in the management of all acute and chronic problems within the discipline of anaesthesia / High risk parturients.
- An understanding of the concepts of investigative science and the development of skills in research methods.
- An understanding of the organisation of health services in the areas of Perioperative and Obstetric Medicine.
- Understanding of the methods of quality assurance and audit.

The practice of a Obstetric anaesthesia subspecialist involves:

A. Providing intrapartum pain relief:

The fellow should be well versed with all the modalities of intrapartum pain relief options and should possess skills of providing safe epidural analgesia in women requesting epidurals.

B. Providing safe and appropriate anaesthetic:

Providing appropriate anaesthetic safely to parturients undergoing various emergency (NCEPOD Class I to IV) and elective surgical procedures. The fellow is rotated to other departments to retain airway skills.

C. Provide competent care during the perioperative period in patients with medical and surgical disorders (including, but not limited to, the following examples):

Cardiac disease	Anticoagulation during pregnancy
SLE requiring corticosteroids	Pulmonary hypertension
Diabetes mellitus	Hemoglobinopathies
Hypertensive disorders: PE, Eclampsia, HELLP, Ch. HTN	Maternal malignant disease
Thromboembolic disease	Acute fatty liver of pregnancy
Antiphospholipid antibody syndrome	Steroid dependent asthma
Seizure disorder	Portal hypertension
Thrombotic thrombocytopenia	Immune thrombocytopenia
Hyperthyroidism	Renal transplant
Pheochromocytoma	HIV
Chronic renal disease	Viral infection
Hemolytic uremic syndrome	Substance abuse
Preterm labour / Tocolysis	Major obstetric haemorrhage
Prelabour rupture of membranes	Multifetal pregnancies

D. Well versed with the resuscitation protocols, blood and component therapy, should be competent in providing multiorgan support in sick parturients and should have insight into critical care medicine

E. The fellow will also have the opportunity to be a part of a multidisciplinary team.

Fernandez Hospital being a hospital for women and newborns, fellow shall also do the gynaec list / general / plastic / onco surgery list and anaesthesia for neonatal surgical procedures

F. The fellow is also expected to undergo a training course in ALS (Have tied up with EMRI).

Training Programme Syllabus

The Fellow is expected to have an indepth knowledge in the following areas mentioned:

Curriculum:

The didactic curriculum will be provided through lectures, conferences, facilitated self learning and workshops and should supplement clinical experience necessary for the fellow to acquire the knowledge to care for obstetric patients and conditions as outlined in the guidelines for the minimum clinical experience. The didactic components will focus on the following areas with specific emphasis on the anesthetic implications of the altered maternal physiologic state, the impact of interventions on the fetus, and the care of the high-risk pregnant patient. Some of the topics listed constitute components of the Core postgraduate training in Anesthesiology. They are included in the requirements for the Obstetric Anesthesiology Fellowship to emphasize their importance to the foundation of the discipline of obstetric anesthesiology and stress the need to reinforce and enrich them in the fellowship educational program. It is expected that the obstetric anesthesiology fellow will acquire knowledge that is significantly broader and deeper than that expected of a core program anaesthesia postgraduate. For instance, whereas both core residents and fellows should be expected to know that fetal acidosis results in increased fetal drug exposure with amide local anesthetics, only the fellow would be expected to know the potential differential effects of local anesthetics on cardiovascular adaptations to asphyxia at various points during gestation. This must include in-depth knowledge and application of literature supporting evidence-based obstetric anesthesiology care.

1. Maternal physiology
2. Embryology and teratogenicity
3. Fetal and placental physiology and pathophysiology
4. Neonatal physiology and neonatal resuscitation
5. Obstetric management of labor, including normal labor and abnormal labor
6. Indications for urgent and emergent delivery
7. Tocolytic therapy

8. Pain of labor, pain pathways
9. Local anesthetic use in obstetrics; recognition and treatment of complications
10. Neuraxial opioid use in obstetrics; recognition and treatment of complications
11. Regional anesthetic techniques; recognition and treatment of complications
12. General anesthesia use in obstetrics; recognition and treatment of complications
13. Anesthetic and obstetric management of obstetric complications & emergencies: including preeclampsia, eclampsia, placental abruption, placenta previa, placenta accreta, vasa previa, uterine rupture, uterine atony, amniotic fluid embolism, and umbilical cord prolapse
14. Medical disease and pregnancy: hypertensive disorders, morbid obesity, respiratory disorders, cardiac disorders, endocrine disorders, autoimmune disorders, hematologic and coagulation disorders, neurologic disorders, substance abuse, HIV infection and AIDS
15. Cardiopulmonary resuscitation and advanced cardiac life support of the pregnant women.
16. Insight into Obstetric critical care
17. Postpartum tubal ligation
18. Post-operative pain management in the parturient
19. Non-obstetric surgery during pregnancy
20. Effects of maternal medications on breastfeeding
21. Ethical issues during pregnancy
22. Principles and ethics of research in the pregnant women, their fetuses and neonates.
23. Organization and management of an obstetric anesthesia service
24. Transport and monitoring of critically ill parturients within the hospital and between hospitals
25. Maternal mortality
26. Medical economics and public health of women during reproductive years as it applies to obstetric anesthesiology. For example, availability of obstetric analgesia, reducing cesarean section rates, etc.
27. Clinical audit and statistics: Is Mandatory. The Fellow will be guided to do self audit every month and departmental audit(OT, ICU, Acute Pain) every quarterly.
28. Prerna's protocols / Department of anaesthesia, Pain and Critical care protocols at Fernandez covers the following topics:
 - 1. Duties at Fernandez hospital**
 - 2. Painrelief in labour**
 - Epidural for labour**
 - Consent**
 - Communications / counseling**
 - Investigations**
 - Contraindications**
 - Coagulopathy / Anticoagulants & Epidurals**
 - Hydration**

- Crash cart
- Technique
- Test dose policy
- Maintenance regimes:
- Intermittent boluses
- PCEA
- CEI
- Inadequate pain relief- How to go about?
- Inadvertant dural puncture: How to go about?
- Bloody tap: How to go about?
- Subdural / Other major sequelae
- Ambulation in labour
- Monitoring
- Safety net
- Labour epidural going for Em. LSCS
- Alternate methods
- 3. PAC clinic /Antenatal counselling / Counselling for ICU patients
- 4. Premedication / Preoperative instructions / Acid aspiration prophylaxis
- 5. Difficult Airway algorithm
- 6. CPR in a Parturient
- 7. Guidelines for planning an anaesthetic technique for a surgical procedure
- 8. Blood reservation policy
- 9. Blood and blood product transfusion guidelines
- 10. Intraoperative monitoring
- 11. Anaesthesia record / Critical incident record / ICU – HDU record
- 12. Antibiotic policies: Elective surgeries / Emergency surgeries / ICU patients
- 13. Post-operative instructions
- 14. Post-partum rounds / Post-operative rounds
- 15. Acute pain services: Postoperative pain management
- 16. DVT prophylaxis
- 17. Preventing PPC's
- 18. Dural puncture and PDPH / EBP
- 19. Neurological problems following regional anaesthesia: Management policies
- 20. Handling HIV / HBsAg / HCV positive cases in OT / ICU / LW
- 21. OT / ICU sterilization
- 22. Day care surgeries: Admission / Anaesthesia-Surgery / Discharge
- 23. Breast feeding in POW / ICU
- 24. Severe PE / Eclampsia / HELLP syndrome
- 25. Heart disease complicating pregnancy
- 26. Massive Obstetric haemorrhage

27. **ICU / HDU admissions and policies**
28. **Glycemic control in Diabetics and non-diabetics: Perioperative period / peripartum period / ICU patients**
29. **Indications and initiation of mechanical ventilatory support in sick parturients:**
 - a. **Antenatal period**
 - b. **Postnatal period**
30. **Monitoring / Care of a patient on a ventilator**
 - a. **Antenatal Intrapartum / Intraoperative Period**
 - b. **Postnatal / Postoperative Period**
31. **Sedation in ICU / Post-operative patients**
32. **Weaning from mechanical ventilation**
33. **Nutrition in ICU patients**
34. **Radiology work-up**
35. **Use of recombitant APC / factor VIIa**
36. **Transferring patient from ICU / POW elsewhere or LAMA policies**
37. **Followup of ICU patients / Patients with Anaesthesia related morbidity**
38. **Administration / setting-up OA services / Medical ethics**

Administration

A working knowledge is required of the organizational responsibilities inherent in the practice of Obstetric anaesthesia fellow at a subspecialty level. These responsibilities may include:

- Creating protocols for management
- Participation in perioperative / peripartum data collection systems
- Organisation and co-ordination of clinical meetings

Research

A substantial knowledge of the principles and practice of research is required. This must include:

- Knowledge of statistical methods as applied to biological research
- An understanding of research methodology sufficient to design studies in clinical, epidemiological and laboratory settings
- An understanding of the procedures involved in evaluation of new diagnostic tests, including the principles of efficacy studies and of randomised controlled trials
- An understanding of the principles of coordinating multi centre trials
- Being able to evaluate critically the perinatal literature
- Having experience in the development and use of perinatal data collection systems

Teaching

Experience is required in teaching at postgraduate levels in the field of Obstetric / perioperative Medicine.

Clinical Rotations

Clinical rotations will be in the following specialized fields:

AREAS OF ROTATION

1. Elective Operation theatre
2. Labour ward
3. Emergency OT
4. Critical Care Unit
5. Infertility clinic & Family planning
6. Neonatal intensive care unit

In addition, the fellow shall do regular shifts in the PAC clinic, Post-operative rounds, postnatal rounds, antenatal education / counseling sessions, ICU counseling sessions, Post ICU discharge follow up clinic, Nurses teaching sessions etc.

The Fellow is expected to do the following procedures*:

* Numbers possible only if the candidate is regular in his / her work.

Patient category	Anaesthesia	Technique Number
Low risk / EI. LSCS	Subarachnoid block	050
	C L E	050
	C S E A	050
Low risk /Em. LSCS	Subarachnoid block	075
	CSEA	050
	GA / ETT / IPPV	005
Labour epidurals	C L E	250
	CSEA	010
Alternate methods (TENS, IV PCA)		020
High risk / LSCS	Subarachnoid block	005
	C L E	050
	CSEA	025
	GA / ETT / IPPV	005
Tubal ligation	Subarachnoid block	025
	GA	010
Miscellaneous procedures SAB / CLE / GA-LMA etc (Cerclage, Rescue cerclage, Abd. Cerclage, ERPC, manual removal of placenta, non obstetric surgeries in pregnancy, Massive haemorrhage etc)		030
Central venous cannulations / Arterial cannulations		025

Academic Activities

All fellows should set aside a few hours each day for study. The study plan may be devised in consultation with the faculty / senior consultants / head of the department.

The Academic activities in the hospital include:

- The common morning academic sessions: Anaesthetic interaction, Maternal morbidity meet, perinatal mortality meet, Guest faculty talk etc
- The seminars and case discussions
- Paper presentations
- Audits / projects
- Thesis
- Conferences / workshops

Lectures

Perna has always kept up with the rapid changes / advances in anaesthesiology, pain and perioperative medicine

Morning academic sessions: The morning sessions are held for the entire Fernandez Hospital team of doctors. We expect the fellow to attend the common sessions and other important medical disorders sessions as mentioned above. The schedule is put up on the notice board every month.

- Morning classes are held in the Conference hall, LJJ Block from 8:00 am to 9:00 am three days a week.
- Be punctual and reach the conference hall before 8:00 am and sign your attendance. Trainees are expected to attend all classes. The doors of the lecture hall close at 8:10 am.
- Fellows are expected to participate in discussions.
- For all the journal clubs, case presentation and Mortality meets, all students should read the articles / review case records before the class, in addition to their preparation from text and journals, so that they are able to discuss the subject with the moderator and appropriate consultants.
- Any student **not** attending the classes will have to give a written explanation or send an email to the Director.
- Absence from three lectures/ seminars (Academics + DNB) in a month will be taken as one day leave.
- Please inform the Academic Department if you are on an emergency duty / Labour ward / OT.
- Daily report of attendance will be submitted to the Director.
- Class attendance will be a part of your evaluation process.

DNB seminars / case presentations:

In addition to morning sessions, one Seminar and one case presentation per week are exclusively held for the fellow and can be attended by the other faculty members. The time schedule of the Fellowship training schedule is also put up on the notice board.

In-house presentations

- The Fellows are allotted academic sessions and are expected to prepare with the help of the assigned consultant.
- Fellows must seek the assistance of their consultants with whom they are posted in the selection of cases / journal articles
- Try to prepare well in advance. Use various display modes such as slides, videos, power point.
- Senior consultants should help new students to improve their presentations during their discussions.
- Ensure that the presentation has been seen by the Consultant prior to presenting it to the entire group.

Paper presentation:

Every student is expected to select a topic in consultation with the program coordinator and submit a paper for presentation in a state / national conference.

Research Project

- The fellow is expected to do atleast one study during the training period. A research topic has to be decided and approved within one month of joining the programme.
- A guide from among the Consultants is allotted to the student.
- The fellow is then responsible to the assigned consultant for her thesis work and log book

Audits/ Projects

- Fellows should choose at least one project topic within two months of joining. Selection of the research topic should be done in consultation with the advice of the program coordinator.
- Before the initiation of the project it needs to have an **approval** from the Institutional Review Board (Ethics committee)
- Try to involve yourself in as many projects as possible.
- Project work should be completed within 6 months of starting so that it can be presented in-house or in conferences or can be submitted for publication.

Conference / Workshops:

The Fellow will be allowed to attend one conference / workshop held outside the institute. If a paper is accepted for presentation, then the registration fee, travel (three tier AC train fare) and accommodation / daily expenses (maximum of Rs. 1,500/- per day) will be reimbursed by the institute. Before applying for a conference students will **HAVE** to obtain permission from the Academics In-charge and the Director of the Institute.

- Not more than two persons from the department will be sent to a conference at a given time.
- No Abstract for paper presentation can be sent without routing it through the Prerna's Academics Department / Director's approval.

Library

The Anaesthesia Library is located on the 2nd floor (202 B) of Subhodaya apartment, building adjacent to Fernandez Hospital. The hospital's is in the LJF Block and you can have access to it 24 hours a day. The Library can be accessed through the Academics Department / security staff. The library has an internet facility.

Note: **Library books are for reference ONLY.**

Web/Internet Policy

The Hospital supports a connection to the Internet and the World Wide Web for students, and staff in support of the mission of the hospital. The Internet connection should be used in an open, accessible, and academically free manner to support the teaching, research, and outreach missions of the hospital. The System encourages faculty, staff, and students to make broad use of the Internet as a tool for learning and communication.

The Internet system is a valuable resource that serves a large number and variety of users. Individuals should act responsibly in their use with regard to it, not infringing on the rights, integrity, or privacy of others of their data. The use of the Internet is a privilege, not a right, and users have the responsibility to employ these resources in an ethical and legal manner. Inappropriate use of the Internet may result in suspension of this privilege.

You can access the Fernandez Hospital website through www.fernandezhospital.com

Usage of Computers:

Every Nursing station is provided with a computer. For academic purpose, the students can use the library computer for internet use, presentations and data collection. Make a folder bearing your name in the My Documents file and store your data. Please do not save the files on the desk top / delete other files / or juggle stored files. Use of internet facility has to be entered in a note book kept in the library.

Telephones:

- Each department has been provided with list of extension numbers within the hospital.
- To make local calls please dial 9 and ask the operator to connect you to the number you require.
- Please specify whether the call is made for a personal reason or on behalf the hospital.
- To make STD calls please contact IP Desk extn. 325 / 326.
- Personal Use of Telephones: Except for emergencies, employees should make and receive personal calls only during their break or lunchtime. Personal calls must not interfere with the employee's work.

Mail and Electronic Communication

Mails have to be routed through the Stores Department for dispatch and the priority of the mail has to be specified on the mailing envelope.

Evaluation

Each student is evaluated every month by the programme coordinator. The evaluation forms should be collected from the Academics Department and be evaluated by the respective consultant at the end of every month. The filled in form should be submitted to the Academics Department before the 10th of each month.

Consultant Evaluation:

The student gets the opportunity to evaluate the consultant with whom he / she is posted each month. The forms should be collected from the Academics Department and submitted after evaluation by 10th of every following month.

Log Books:

The log books are to be collected from the Academics Department at the time of joining. The log books have to be signed by doctors and the update has to be submitted every month at the time of monthly evaluation. Please collect the update form from the department.

Terms and Conditions

Working Hours

The working hours in a week cannot be fixed for a trainee. The usual pattern is of two shifts morning and afternoon

- Morning shift : 8:00 am to 5:00 pm
 - Afternoon shift : 12 Noon to 8 pm
- One 24hrs shift once a week
One Sunday duty every month by rotation

Note : All the trainees are expected to stay on till the completion of operation theatre list on their post duty day

Work schedule changes

- You are allowed to make changes in your schedule only with prior consultation and consent of your supervisor.
- You will be a full time student of Fernandez Hospital and you will not be allowed to serve other institutions during your Fellowship period.

Attendance :

- All trainees are expected to sign in the attendance register placed in the operation theatre.
- A swipe card / ID card will be given to you for maintaining the time of entry and exit from the hospital by the time office.

Leave :

Types of leave :

1. Casual Leave
2. Study Leave

Entitlement of Leave:

Casual Leave 15 per year	Pre Examination Study Leave 30 days for the entire training period
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Casual Leave:

- Casual leave cannot be accumulated and will automatically lapse at the end of the calendar year.
- Student can prefix / suffix holidays / day off to the casual leave
- Students are entitled to one day of leave for each month of training completed. They cannot avail of more than seven days leave at a time. To avail seven days of leave at a time, they should have completed at least six months of training.
- A trainee Fellow must make up time missed due to leave exceeding the maximum number of days that can be availed in a year; the resident will **NOT** be paid for extension period.

Excess Leave :

7 days – 15 days - Extension period of fifteen days

15 days – 30 days - Extension period of one month
More than 30 days - Extension of two months

Applying for Leave :

Leave application forms are available and permission has to be taken from the Consultant (under whom you are posted) and also the roster in-charge. The RELIEVER would have to be specified in the application form and it is the trainee's responsibility to arrange for a reliever.

The leave application will then be submitted to the Academics Department and the eligibility of the candidate will be checked for the number of days applied. The leave will then be authorized. The Academics Department will notify the time office, Director and the concerned department.

- Submission of leave application is a **MUST** for all types of leave.
- DO NOT forward leave applications to the Sanctioning Authority for approval **UNLESS** it has been routed through the respective HOD and the coverage is clearly mentioned.
- It is the responsibility of the person taking leave and the respective HOD to provide viable coverage.
- Leave is calculated from the date of joining.
- Planned leave has to be submitted one month in advance.
- Except in emergency situations and sudden illness, all leaves must be approved in advance. The leave application forms can be obtained from the Academics Department.
- Notification of Absence from Work (Emergency Leave Only): You must notify the sanctioning authority about your emergency leave **AS EARLY AS POSSIBLE** and submit the application within 24 hours of joining duty

Stipend :

The fellow will receive a monthly stipend of Rs.15000/- on the first of every month. In case the student discontinues the course before completion, shall forfeit the entire amount.

Grievance :

Good employee morale is essential for the growth and development of any organization. If you feel you have a formal complaint, discuss the situation with your supervisor. If the problem is not resolved, please contact any Consultant.

Completion of Fellowship programme:**Notification of Fellowship Completion**

- You should notify your supervisor, in writing, at least one month prior to your last working day.
- Original certificates will be given **ONLY** after the completion of the prescribed months of the training period.
- Completion Certificate will be given **ONLY** after :
 - ◆ Completion of minimum of 330 days of training.
 - ◆ On submission of the following documents :
 - A log book update
 - Completion of the research topic
 - A clearance certificate
 - Return ID, Keys, and Other Items:

Your ID badge must be returned to the Department. Keys checked out in your name should be turned in by your last working day. Any equipment, tools, books or other hospital property given to you, must be returned by your last working day.

Code of Conduct & Ethics

Ethics and Professionalism

Name Badge:

- Wear your name tag at all times
- Your name and picture is clearly visible to all.

Dress Code:

- Clothes should be clean, pressed and properly fitting.
- Jeans/denim, shorts, capris, cropped pants, leggings, backless/ strapless/spaghetti-string are not acceptable
- Tops or dresses with low necklines, sweat shirts and sheer attire are not acceptable work attire.
- The chewing of gum during direct patient care activities is unacceptable.
- Male members should not wear T-shirts and Jeans / casuals on a regular working day
- Hospital scrubs will be provided to students while in specialized areas such as the Operating Room / ICU's.
- On duty trainees should dress formally with a coat.

Professional Appearance:

- Maintain a professional appearance as required by your department.

Demonstrate a positive attitude to all customers and Fellow employees.

- Acknowledge patient and visitors' presence with a smile and eye contact.
- Greet guests, employees and peers.
- Immediately end **all** personal and non-emergent conversations in the presence of patients and visitors.
- Maintain a positive attitude in public places.
- Apologize and acknowledge patient complaints and concerns as an employee of Fernandez Hospital.
- Welcome new employees / students.
- Speak positively of the Health System and other departments to patients and visitors.

Patient Care

- Communicate with compassion and courtesy.
- Before entering a patient room, knock and ask if you may come in. Wait for a response, and then identify yourself and the purpose of your visit.
- During examinations and procedures close curtains/doors and maintain privacy.
- Ensure the patient knows the doors are being shut to protect her privacy.
- Make sure all protected patient information is not visible or heard by visitors and other patients.
- Maintain confidentiality of all patient and employee information.
- No wireless communication, unrelated to the patient, is to be made in a patient's room.
- Never comment to visitors, patients about staffing levels / work load or other internal concerns.

Maintain a safe, clean and attractive environment.

- Pick up trash that you drop or see
- Keep hallways clear and free of hazards.
- Handle / return all equipment to the proper place.

Telephone conversations:

- Cell phones are not allowed at work places. Fellows are expected to put in silent mode and answer the calls once he or she is free. **AT ANYTIME CONVERSATIONS IN OT / ICU'S OR IN FRONT OF THE PATIENTS SHALL NOT BE TOLERATED.**
- In answering inhouse calls, Speak slowly and softly
- State your department name, your name and say "May I help you?"
- When placing someone on hold state: department name and "may I place you on hold?" Wait until they say yes and follow up with them after they are placed on hold.
- Be responsible / accountable for your communication.
- Acknowledge other staff waiting to speak or who are responding to a call from your department.
- Pass on information to your colleagues in a timely manner.

- If a request can not be fulfilled immediately, then give a specific time when the request will be honored and keep the promise.
- Try to answer the telephone before the 3rd ring.
- Address all patients and staff by their name and not room number / designation example: Do not say daya or nurse. Call them by name.

Record Maintenance

- Ensure the completeness of records seen or maintained by you. Check the front-page diagnosis including systemic diagnosis and any new event / diagnosis, clinical findings, and treatment orders etc. at every visit. Enter any new diagnosis on the Antenatal / Gynaec card.
- Each continuation sheet should bear the date, time, medical record number and the patient's name.
- Records are not to be taken out of the Medical Records Department.
- Write legibly and neatly in straight lines. Always put your name and signature clearly at the end.
- Do not waste any paper. Use a page fully before taking an additional sheet.

Handling Medical Records

- Do not give the medical record to patients.
- Make sure that all papers are intact while handling records.
- Do not carry records to areas where they are not required (staff lounge etc).
- Do not scribble / tear or remove pages from the record.
- The medical records / data can be requisitioned from the Medical Records Department by submitting the requisition slip signed by the Consultant concerned.
- Inform the Medical Records Department, if any change or correction in the case sheet has been made.
- Use only standard abbreviations.
- Please pass on the record to Medical Records Department if it is found lying unattended.
- All records must be kept in Medical Records Department for the night.

Safe Work Habits:

Each employee is responsible for practicing safe work habits. If you notice an unsafe situation in your work area, correct the problem or alert your supervisor.

Conflict of Interest:

Trainees shall not deal with contracts, purchases, payments, claims, or other monetary transactions, shall not solicit or accept any benefit from a person who does business with the college, or may be likely to do business in the future. Employees who are asked about donations to the hospital should refer these requests to the Director.

Employees must remember they are employed by a public institution. Their actions (professional, financial, or political) should not conflict with their official Fernandez Hospital duties nor appear to do so.

Fernandez Hospital Pvt. Ltd

Contract for Fellowship Programme

I, the undersigned, do hereby accept enrolment as a Fellow in obstetric anaesthesia at Fernandez Hospital, Hyderabad; commencing on _____ (Date, month and year) and ending _____ (Date, month and year).

It is understood that training, research, teaching and clinical assignments will be approved by the Director of the hospital.

Duty hours will be consistent with institutional and program requirements based on educational rationale and patient need, including continuity of care, with supervision available at all times. The number of hours cannot be fixed.

It is understood that the position of Fellowship trainee involves a combination of supervised, progressively more complex and independent patient evaluation and management functions and formal educational activities. The competence of the trainee is evaluated on a regular basis and the program maintains a confidential record of the evaluations.

It is understood that Fernandez Hospital reserves the right to dismiss me at any time during the training period according to policies for selection, evaluation, dismissal and supervision. I understand that the due process of the right of appeal and a grievance procedure is available to me.

Each student agrees to protect and hold confidential all information regarding patients, former patients, employees, medical staff, volunteers, students, business matters, official documents/records and/or electronic communications of Fernandez Hospital. Students will not share any information with unauthorized persons. Students must understand that sharing of confidential information with unauthorized persons may be the ground for termination and may be punishable by fine or suspension.

Name of the student Signature

The Program Coordinator Signature

Director Signature

Suggested Reading*

Text Books:

- Principles and practice of Obstetric anaesthesia: David chestnut, 3rd edition
- Snidor's text book of Obstetric anaesthesia
- Common problems in Obstetric anaesthesia: Sanjay Dutta
- Obstetric anaesthesia and uncommon disease: Gambling
- Painrelief and anaesthesia in Obstetrics: Andre Van Zundert
- Anaesthesia for Obstetrics: Hughes
- MOET: Richard Johanson
- de Swiet M , Medical Disorders in Obstetric Practice.
- Caesarean section Sentinal audit: 2005
- Critical care Obstetrics: Dildy
- Nature and management of Labour pain: A meta analyss study: AJOG suppleent,2002
- Hand boon Of Obstetric medicine: Catherine Nelson Pierce, 2006
- Why Mothers die: Trinneal audit report:
- Controversies in Obstetric anaesthesia: Barbara Morgon
- Hypertension in Pregnancy: Sibai,Baha
- Drugs in Pregnancy and Lactation: Foley
- Principles of Intensive care: Irvin, Rippe
- High Risk Pregnancy:management options: David K James
- Principles and practice of Obstetric anaesthesia: Selwyn Crawford

Journals

- International Of Obstetric anaesthesia
- Obstetric anaesthesia digest
- Anaesthesia and Analgesia
- Anaesthesiology
- Current opinion in anaesthesia
- Indian Journal of anaesthesia
- SCCM: Critical care journal

* All the mentioned books and journals are available at Prerna's Library