



EmOCaLS

and QUALITY STANDARDS
in Obstetric Care

PROJECT REPORT



NATIONAL RURAL HEALTH MISSION, KERALA
KERALA HEALTH SERVICES
KERALA FEDERATION OF OBSTETRICS & GYNECOLOGY
NICE INTERNATIONAL

CALICUT



KOCHI





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and QUALITY STANDARDS
in Obstetric Care**

PROJECT REPORT

A Joint Venture by
National Rural Health Mission, Kerala (NRHM)
Kerala Health Services (KHS)
NICE International &
Kerala Federation of Obstetrics and Gynecology (KFOG)

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■ PREFACE

Kerala has got much better health indices like Maternal Mortality Ratio (MMR) and Infant Mortality Rate (IMR) compared with other states in India. But the question often asked is, whether Kerala has achieved its potential in this regard. We have to consider that MMR of Kerala in early nineties was said to be 87. According to the Millennium Development Goal 5, Kerala's MMR should therefore come down to about 20 by 2015. As per the latest Sample Registration System (SRS) the MMR of Kerala was 66 (SRS 2010-12). Kerala Federation of Obstetrics & Gynecology estimates this to be about 50 on the basis of Confidential Review of Maternal Deaths (CRMD). All these figures suggest that there is need for urgent action in reducing maternal deaths in our state. Our analysis of the situation in Kerala has clearly shown that the steps urgently required are :

1. To increase the competence of the practicing obstetricians and labour room staff in providing emergency obstetric care and basic life support (EMOCALS). 2. To ensure that the quality of obstetric care provided is standardised. That is the background to the launch of this project. The National Rural Health Mission (Kerala) (NRHM) and Kerala Health Services have realised the need for this venture and supported it wholeheartedly. The financial support was by the NRHM. We are grateful to the Government of Kerala, Department of health, and the National Rural Health Mission for all the support and encouragement.

While the project was in progress, at the instance of the then Principal Secretary Health, a tie up between Kerala Government Health Services and the Nice International of the United Kingdom was established. NICE highlighted the importance of establishing quality standards in obstetric care based on the findings of Confidential Review of Maternal Deaths conducted by KFOG. After many interactive sessions, a new dimension to the obstetric care in the state was added – *quality standards in obstetric care*. The NRHM and KFOG joined hands with KHS and NICE in the launch and execution of the new project and part of the funds allotted to EMOCALS originally was transferred to that. This report will include details of that project and its accounts.

INTRODUCTION

Need for EMOCALS Training and the introduction of Quality Standards

The Kerala Federation of Obstetrics and Gynecology has been conducting confidential review of maternal deaths since 2004 and the findings of first six years (2004 to 2009) are published in two volumes. The reports have shown that there are many avoidable maternal deaths in Kerala. These are mainly due to postpartum hemorrhage, hypertensive disorders of pregnancy, sepsis, and amniotic fluid embolism. Early detection and prompt care of these problems would have saved many of these lives. If the patient has an acute collapse, life support measures have to be initiated immediately. For this the obstetricians and labour room nurses have to be trained and retrained.

The developed countries had recognized this long ago. They insist that all obstetricians should undergo skills in managing obstetric emergencies and basic life support - eg: courses like MOET(Managing Obstetric Emergencies and Trauma) and ALSO (Acute Life Support in Obstetrics). The Kerala Federation also has recognized the need for such training and has been conducting a certified training programme with the help of senior obstetricians and critical care/

anesthesia specialists. We request the government to make it compulsory for all practicing obstetricians to undergo this training.

In many labour room settings the obstetrician may not be available on the spot when such emergencies develop. It will be only the nurse/midwife or the nursing assistant/attender who will be available. So it becomes imperative to train them in recognising the critical situation and provide the first aid. Accordingly, the EMOCALS training programme added an additional scheme as EMOCALS (N) for nurses and nursing assistants. The original EMOCALS was redesignated as EMOCALS (D) for doctors.

The need for improving standard of obstetric care was realised after discussions with NICE international. After analysing the causes of maternal deaths revealed by the CRMD and published in *Why Mothers Die, Kerala*, the international body (NICE) suggested that the way forward in reducing maternal deaths is to establish Quality Standards in obstetric care. It meant establishing minimum standard steps in management of labour and delivery and associated problems that may develop. These minimum

standards were worked out after many sessions of discussions between technical experts of NICE and members of KFOG and officers of NRHM and Kerala Health Services. As a first step standards were developed for reducing deaths due to PPH(Post Partum Hemorrhage) and Hypertension. It was decided to pilot this in hospitals of various levels from Medical College to Community Health Centre. The project was launched by the government of Kerala and NICE international. There was need for visiting the various centres, analysing the situation, identifying any gaps, training the staff and data collection. KFOG was entrusted with the training of the staff and part of the fund originally allotted for EMOCALS was earmarked for this. The project was implemented from first April 2013 . Six hospitals from the Government sector and two from the private sector were selected for the pilot scheme. This report covers the Quality Standard project as well.

Executive Summary

EMOCALS (D and N) training - The ability to provide emergency care and life support measures is a must for anybody attending a labour and delivery. The Kerala Federation evolved a compact training programme called EMOCALS to train obstetricians(EMOCALS- D) and Nurses(EMOCALS _N). The Kerala Health Services and NRHM realised the importance of the training programme for the staff in the Health Services and hence the project was launched. It is a joint project of the Kerala Federation of Obstetrics and Gynecology, Kerala Health Services and the National Rural Health Mission (NRHM) Kerala.

The urgent need for training the obstetricians and nurses, especially in the peripheral centres, was highlighted by the Confidential Review of Maternal Deaths (CRMD). During this audit it was seen that many maternal deaths that occurred in the higher centres had the initial treatment and serious turn of events in the peripheral centres. These patients were then transported to higher centres without giving adequate first aid. This resulted in their death on the way or on reaching the higher centres in irreversible lethal conditions. The competence in administering essential care at the beginning of the problem will make all the difference in the outcome.

The Kerala Federation impressed upon

the Health department and the NRHM these facts. A memorandum of agreement was signed on 27th September 2012. The proposal was to give this training to obstetricians in six centres of Kerala.

There was agreement to train a core team of trainers from among the nurses so that they can be used to train the rest of the nursing community (including nurses and nursing assistants). There was budgetary provision to purchase manikins and training materials and make them available at the five regional centres in addition to the head quarters of KFOG at Thrissur. Altogether the proposal was for Rs.49, 03,110/- .

At the completion of four sessions for doctors and one session for nurses, there was a review of the programme on 15th December 2012. This was attended by the Principal Secretary Health and the State Mission Director. Principal Secretary gave instructions to make sure that nurses training is attended by faculty from government nursing colleges and schools so that they can take up the training of the nurses in service.

The remaining training sessions were completed as per schedule.

Quality Standards

After the proposed training sessions for doctors and nurses were completed and

the manikins were purchased, there was still an excess of funds. Part of this (Rupees nine lakhs twenty eight thousand five hundred and forty four) was then transferred to Quality Standards project of the Kerala Health Services and NRHM in partnership with NICE international. KFOG was invited to join this new project and help in conducting the training of the staff of the hospitals piloting the Quality Standards project. (As per order NRHM/1293/M&E(QA)/2013/SPMSU dated 29/03/2013)

KFOG volunteered to conduct some more training sessions and utilise the entire amount originally allotted. This was done by conducting four more training sessions for doctors. Two additional sessions were conducted for nurses, to help with the quality standards project.

Manikin purchase

Utilising the funds allotted we have purchased manikins for training in airway management, cardiopulmonary resuscitation, and neonatal intubation and supplied a minimum set of manikins to each of the six centres. In addition uterine models, laryngoscopes, LMA (laryngeal mask airway), Endotracheal tubes, oropharyngeal and nasopharyngeal airways, face masks, fetal skull, pelvic stand and pelvis and almirah were supplied to each of these centres. Trolley bags were provided to carry them.

For administrative convenience the EMOCALS projects for doctors and nurses were separated with separate office bearers with Dr.V P Paily remaining as the coordinator and Dr.V Rajasekharan Nair continuing as the Liaison officer for all three divisions of the project. The whole project was under the supervision of the State President of KFOG (Dr.Kunjamma Roy for the year 2013 and Dr.Lalithambika for the year 2014) and the State Secretary of KFOG Dr.Fessy Louis. Dr.Bindu Menon and Dr.Neetha George supervised the Emocals-D and Dr.Deepthy M and Dr.Betsy Thomas supervised the Emocals –N. Dr.Lola Ramachandran was the treasurer. Dr.Vasanthi Jayaraj, Dr. V.L. Arathy and Dr.A P Geetha supervised the quality standards training.

We acknowledge the services of the critical care department of Vinayaka Institute of Medical Sciences, Salem, in providing training in emergency resuscitation in the early part of the project.

MEMORANDUM OF AGREEMENT

1. This Memorandum of Agreement is made between STATE MISSION DIRECTOR (NRHM), KERALA, State Programme Monitoring and Support Unit, NRHM Building, DHS Office, General Hospital Junction (hereinafter referred to as the NRHM) Thiruvananthapuram - 695 035 and the Secretary General, Kerala Federation of Obstetrics & Gynaecology, Togs Academia, East Sooryagramam, Thrissur-5 (hereinafter referred to as the KFOG) on 27th September 2012.
2. The object of this MoA is to facilitate conducting of Training in basic and emergency obstetric care and Basic life support for obstetricians and nurses in the state of Kerala for the year 2012. KFOG submitted a proposal to the NRHM to conduct the above mentioned Training and NRHM after having carefully considered the proposal and after holding a detailed meeting with KFOG has agreed to approve the proposal subject to the following terms and conditions:
 - a. KFOG will conduct minimum of two batches of TOT (Training of Trainers) for Nurses and six batches of training for Obstetricians as per the proposal submitted. The total budget approved by NRHM under this understanding is Rs 49,03,110/- under the head A.9.3.1.
 - b. KFOG shall procure and supply the manikins and other teaching materials for the project.
 - c. Preparation, printing and distribution of teaching materials will be done by KFOG.
 - d. KFOG shall carry out the work in districts in consultation with the State Program Manager (RCH) and concerned District Programme Managers.
 - e. KFOG shall provide good accommodation on twin sharing basis to the Trainees.
 - f. TA/DA to Trainees and Trainers will be provided by KFOG as per existing rates.
 - g. KFOG shall arrange proper venue, training aids, teaching materials and provide lunch/refreshments.
 - h. KFOG shall submit the training reports, list of trainees who attended the training, copy of attendance sheet and a copy of teaching materials including soft copy developed for training to NRHM
 - i. All the trainings shall be conducted and Final Project Completion Report along with the SOE shall be furnished in by 15th February 2013 by KFOG.
 - j. A provisional utilization statement shall be furnished by KFOG by 15th December 2012 and by 15th February 2013 by KFOG.

- k. Accounts duly audited with audit report and Utilization Certificate shall be furnished by KFOG to NRHM by 15th March 2013.
- l. NRHM will transfer the approved budget in advance to KFOG.
- m. Amounts shall be transferred only through electronic banking to the official bank account of KFOG bearing number 036805000019265 of Kerala Federation of Obstetrics & Gynaecology, South Indian Bank, East Fort Branch, Thrissur-5 subject to the vendor form of NRHM being duly filled in and submitted.
- n. KFOG agrees to use all necessary skills, care, diligence and efficiency in

conducting the training and completing it within the stipulated time-frame.

- o. Excess amount of fund over and above the budget will not be provided. Balance amount of utilized fund at the end of the project period shall be refunded to NRHM.

KFOG shall endeavour to cooperate with NRHM and Kerala Health Services Department in similar technical assignments during the period of this agreement and ahead, for improving the public health services in the state of Kerala.

Dr V.P. Paily

President, KFOG

*For & on behalf of
Federation Of Obstetrics & Gynaecology
Togs Academia, East Sooryagramam
Thrissur-680 005*

Signed and Delivered by
in the presence of witnesses

1 :

2 :

Dr. M Beena, IAS

State Mission Director (NRHM) Kerala

*For & on behalf of
National Rural Health Mission, Kerala,
NRHM Building, DHS Office,
General Hospital Junction,
Thiruvananthapuram – 695 035*

Signed and Delivered by
in the presence of witnesses

1 :

2 :

OFFICE BEARERS OF THE PROJECT

Emocals

1. NRHM- State Mission Director

Dr. Beena.M, IAS

2. Liaison Officer

Dr. Rajasekharan Nair

3. State Co-ordinators

Dr. V.P.Paily

Dr. Kunjamma Roy

Dr. Nirmala.C

Dr. Fessy Louis

Dr. Bindu M. - *President, Emocals D*

Dr. Neetha George - *Secretary, Emocals D*

Dr. Deepthy M. - *President, Emocals N*

Dr. Betsy Thomas - *Secretary, Emocals N*

Dr. Lola Ramachandran - *Treasurer*

4. Local Co-ordinators

Thiruvananthapuram

Dr. Lakshmiammal.P,

Dr. Reji Mohan

Kottayam

Dr. Sathi.M.S,

Dr. Kala B.S

Ernakulam

Dr. Gracy Thomas,

Dr. Sheela C Babu

Thrissur

Dr. Bindu.M,

Dr. Neetha George

Calicut

Dr. Jayandhi Raghavan,

Dr. Beena Guhan,

Dr. Jyothi Chandran

Kannur

Dr. Ajith.S,

Dr. Cynthia A.K

Quality Standards

Liaison Officer

Dr. Rajasekharan Nair –

Organizing Committee:

Chairperson: Prof.V.P.Paily

Secretary : Dr.Vasanthi Jayaraj

Tresurer : Dr. V.L.Arathy

: Dr.A P Geetha

Local Cordinators

1. Dr. C.R.Renuka, W & C Hospital
Thycaud, Thiruvananthapuram

2. Dr. Sujamol, SAT hospital
Thiruvananthapuram

3. Dr. Sheela Sadasivam, Govt Hospital
Ernakulam

4. Dr. V.L.Arathy, Mother Hospital,
Thrissur

List of Faculty for Emocals D & N

OBSTETRIC

Dr. Ajith.S, *Co-operative Medical College, Pariyaram, kannur*
Dr. Anitha V, *Govt.Medical College, Kottayam*
Dr. Ambujam.K, *Govt Medical College, Thrissur*
Dr. Beena Guhan, *Govt Medical College, Calicut*
Dr. Beenakumari, *Govt.Medical College, Kottayam*
Dr. Betsy Thomas, *Amala Institute of Medical Sciences, Thrissur*
Dr. Bindu K.M *Govt.Medical College, Kottayam*
Dr. Bindu.M, *Jubilee Mission Medical College, Thrissur*
Dr. Cynthia A.K, *District hospital, Kannur*
Dr. Deepthi Balakrishnan, *SUT hospital, Trivandrum*
Dr. Deepthy .M, *West Fort Hospital, Thrissur*
Dr. Geetha A.P, *Mother hospital, Thrissur*
Dr. Girija Gurudas *Medical Trust Hospital, Ernakulam*
Dr. Gracy Thomas, *City hospital, Ernakulam*
Dr. Jayandhi Raghavan *Calicut*
Dr. Jayasree Thankachi, *MMM Hospital, Kolencherry, Ernakulam*
Dr. Kala B.S, *Govt. Medical College, Kottayam*
Dr. Kavitha, *District hospital, Kollam*
Dr. .Kunjamma Roy, *Govt.Medical College, Kottayam*
Dr. Lakshmiammal, *SUT, Trivandrum*
Dr. Lola Ramachandran, *Jubilee Mission Medical College, Thrissur*
Dr. Narayanan .T, *Malabar Med College Calicut*
Dr. Neetha George, *Jubilee Mission Medical College, Thrissur*
Dr. Nirmala.C, *SAT hospital, Trivandrum*
Dr.Nishi Roshini, *Govt Medical College, Thrissur*
Dr. Paily, V.P, *Jubilee Mission Medica College, Thrissur*
Dr. Priya.V, *Govt.Medical College, Kottayam*
Dr.Rajasekharan Nair V, *SUT hospital, Trivandrum*
Dr. Reena Shaji *Govt Medical College, Thrissur*
Dr. Reji Mohan, *SAT hospital, Trivandrum*
Dr. Sangeetha Menon, *SAT, Trivandrum*
Dr. Sareena Gilvaz, *Jubilee Mission Medical College Hospital, Thrissur*

Dr. Sathi M.S *Govt.Medical College, Kottayam*
Dr. Sekharan.P.K, *PVS hospital, Calicut*
Dr. Sheela C Babu *General Hospital, Ernakulam*
Dr. Simi A
Dr. Smitha Sreenivasan
Dr. Sreedevi.N.S, *Pushpagiri Medical College, Thiruvalla*
Dr. Sujatha, *SAT, Trivandrum*
Dr. Sumangaladevi *Govt Medical College, Thrissur*
Dr. Resmi, *Med.college, Thrissur*
Dr. Suneela M.S
Dr. Vasanthi Jayaraj, *Mother Hospital, Thrissur*

NON OBSTETRIC Faculty

Dr. Babu Palatty, *Jubilee Mission Medical College, Thrissur*
Dr. Chandramouli, *Vinayaka Mission Medical College, Salem*
Dr. Gangalal , *Vinayaka Mission Medical College, Thrissur*
Dr. Janaky
Dr. Jayaraj, *Jubilee Mission Medical College, Thrissur*
Dr. Leela
Dr. Meyei.S. Appachi, *Vinayaka Mission Medical Coll*
Dr. Nisbet Samuel, *Lisie Hospital, Ernakulam*
Dr. Rajeev , *S N Medical College*
Dr. Shamshad, *Medical College, Thrissur*
Dr. Sreenath S, *Vinayaka Mission Medical College,*
Dr. Vilasu, *Aswini Hospital, Thrissur*
Dr. Vivek
Dr.Sudhakaran, *West Fort Hospital Thrissur*
Dr.Ashish K, *Govt.Med. College, Thrissur*
Dr.Anju Mariam Jacob, *Jubilee Mission Med College,*
Dr.Raveendra Varma, *Neonatologist, Mother hospital, Thrissur*

Special advisor

Dr.A.K.Unnikrishnan (*Rtd professor medical college, Thrissur*), *Consultant anaesthesiologist, West Fort Hospital, Thrissur*

Emocals - D

Report of courses conducted for doctors

List of courses conducted in the financial year 2012 -13

	Place	date	venue	No of doctors	
				govt	private
1	Thiruvalla	27&28 october 2012	Pushpagiri Medical College	12	24
2	Kollam	27&28 october 2012	Hotel Vaidya, Kollam	13	25
3	Calicut	1 st &2 nd December 2012	IMCH, Calicut	27	11
4	Kasaragod	1 st &2 nd December 2012	CPCRI, Kasaragod	9	28
5	Thrissur	2 nd &3 rd Feb 2013	TOGS Academia, Thrissur	17	7
6	Ernakulam	2 nd &3 rd Feb 2013	IMA Hall, Cochin	26	3

1st and 2nd courses of Emocals D

The courses were conducted simultaneously at Thiruvalla and Kollam so that the same faculty could cover both places.

In Thiruvalla the training programme was held at Pushpagiri Institute of Medical Sciences on 27th and 28th October 2012. A total of 36 doctors attended the programme out of which 12 were from the government sector. Local arrangements were done by Dr. N S Sreedevi and Dr. Sathi. The NRHM observer was Dr. Jaysree, deputy director(FW) DHS, Trivandrum.

A test was conducted at the beginning of the session and also at the end of the course to assess their understanding. Feedback forms were made for further improvement.

The basic life support workshop was headed by Dr. Sreenath and team from Vinayaka

Mission Medical College Salem. Reference books distributed were:

1. KFOG protocol book,
2. 2nd Edition of 'Why Mothers Die-Kerala' and
3. A manual on Basic and Advanced life support by the Salem team.

In Kollam, the Emocals programme was held on 27th &28th October 2012 at Hotel Vaidya. The obstetric team was headed by Dr.V P Paily & Dr.V Rajasekharan Nair. The local co-ordinators were Dr.Lakshmi Ammal and Dr.Kavitha. Dr.Sreenath and team conducted the life support workshop.

Delegates were from Trivandrum and Kollam. Out of a total of 38 participants 13 were from the government sector. Dr.Anu, Jr.Administrative Medical Officer, DHS was the NRHM observer. All the three

books were distributed to the delegates. Most of the delegates got more than 90% in the post test.

3rd and 4th Courses of Emocals D were held at Kasaragod and Calicut on 1st and 2nd of December 2012. There were 38 delegates in Calicut – 27 from the government sector and 11 from the private hospitals. Dr.Beena Guhan, Dr.Jayanthi Raghavan and Dr.Jyothi Rameshchandran were in charge of the local arrangements. The venue was at IMCH Calicut.

Dr.V P Paily headed the obstetric team and Dr.Sreenath and team conducted the basic life support workshop. The sessions were very interactive.

Kasaragod: The local coordinators were Dr.Sobha Mayya and Dr.Jyothi. Total of 37 delegates attended, out of which only 9 were government doctors and the rest were from private hospitals. Issues like absence of blood bank facilities, road transport, referral centres and non availability of blood components were highlighted by the delegates. Programme was well appreciated. All the three reference books were distributed to the delegates. Pre and post tests were conducted.

5th & 6th Courses

These were held at Thrissur and Ernakulam on 2nd and 3rd of February 2013.

Thrissur: The venue was TOGS Academia Thrissur. Dr.Bindu Menon and Dr.Neetha George were the local coordinators. Total delegates were 24, of which 17 were from the government hospitals. Basic life support workshop was organised by Dr.Babu Palatty and team from Jubilee Mission Medical College Hospital, Thrissur. A slight modification was made this time – only those who scored above 70% in the post test were given the completion certificate of the Emocals training programme. Others were given only the participation certificate.

Ernakulam: Venue was IMA Hall, Cochin. Local coordinators were Dr.Sheela C Babu and Dr.Gracy Thomas. A total of 29 doctors attended the course, out of which 26 were recruited from the government sector. Pre and post tests were conducted and completion certificates were mailed to them according to the post test results.

Programmes conducted in 2013-14

List of courses conducted for doctors in 2013-14

	District	date	venue	No. of delegates	
				Govt	Private
1	Trivandrum	15,16 June 2013	Trivandrum	30	-
2	Malappuram	24,25 August 2013	Malappuram	14	19
3	Kottayam	26,27 October 2013	Kottayam	13	10 + (12 PGs)
4	Kannur	11,12 January 2014	Anjarakandy Medical College,	13	16 + (6 PGs)

These were also conducted in the same pattern as the previous six courses. Training was for two days - one day was assigned to critical care and one day to obstetric topics. Most of the presentations were as workshops, drills, videos or demonstrations. The sessions were interactive; a pre and post tests were conducted on both days. The delegates were given the two books – KFOG protocol book and the Why Mothers Die - Kerala 2nd edition. The whole programme was planned and chaired by Dr. V.P.Paily and Dr. Kunjamma Roy.

1st course conducted at Trivandrum was attended by 30 delegates, out of which 10 were staff nurses. All were from the government hospitals. Dr.Lakshmiammal and Dr.Reji Mohan were the co-ordinators.

The second one was at Malappuram and the co-ordinators were Dr.Beena Guhan and Dr.Jyothi. It was attended by 33 delegates, 14 from the government sector and 19 from the private hospitals.

Third programme was held at IMCH, Kottayam on 26 & 27th October 2013. A total of 35 doctors attended the course. The local co-ordinators were Dr.Sathi M and Dr.Kala.

Fourth course was at Anjarakandy Medical College, Kannur on 11th & 12th of January 2014. It was attend by 35 delegates including postgraduate students. Dr.Cynthia and Dr.Kunjikannan were the co-ordinators.

PRE-TEST AND POST TEST MODEL

1. I V fluid of choice in the initial management of patient in shock is -
2. Rare but significant lung injury caused by blood transfusion is -
3. An antibiotic used against Methicillin resistant staphylococcus aureus is -
4. Pathogen responsible for acute pyelonephritis is -
5. Rectal mucosa in a 4° perineal tear is sutured with which suture material
6. Normal range of fibrinogen in an adult is
7. Expand PRES
8. Steroids in a pregnant overt diabetic can precipitate which complication
9. Primi, 30 weeks, with blood pressure 180/120 and urine albumin ++. Antihypertensive of choice for rapid control of BP will be-
10. The most dreaded cerebral pathology contributing to maternal mortality in uncontrolled hypertension in pregnancy is –
5. Expand the acronym HELPERR for shoulder dystocia
6. Three variables you will look for in a CTG
7. Loading dose of MgSO₄ in regime promoted by KFOG
8. Two pre-requisites for Factor V11a administration
9. Two pre-requisites to apply an outlet forceps
10. The four Ts as causative factor of PPH
11. Any three surgical steps to control bleeding in atonic PPH
12. Patient, post LSCS, day 4, is seen in ward with convulsions, drowsiness, right sided weakness, BP 140/80
 - a. Your first diagnosis
 - b Three steps to avoid development of this condition
 - c. Gold standard investigation for diagnosis
 - d. Any two steps in management
13. Primi, 35 wks with acute onset of pain abdomen, absent FM, mild bleeding P/V
 - a. Your diagnosis
 - b. Two relevant investigations
 - c Three complications

Short answers (Points only)

1. 3 components of active management of 3rd stage of labour
2. Instruments in a cervical inspection set
3. Two special steps different in obstetric hysterectomy compared with gynecological hysterectomy
4. Any two methods to deliver the aftercoming head in breech.
14. A 25 yr old primi presents with acute pain abdomen and bleeding p/v at 2months amenorrhea. Three differential diagnosis
15. Dose of Fresh Frozen Plasma

Curriculum

The topics covered are listed below. Modifications were made depending on requests by the trainees.

- APH, PPH atonic and traumatic
- Active Management of third stage
- Surgical procedures to arrest bleeding,
- Obstetric hysterectomy, Rupture uterus
- Pre Eclampsia, Eclampsia
- Anticonvulsants, Antihypertensives
- Operative deliveries
- Blood and component use
- Acute collapse, Amniotic fluid embolism
- Thromboprophylaxis
- Shoulder dystocia
- Emergency cerclage
- CTG
- Sepsis, Antibiotic use
- Neonatal resuscitation

Life support

- Vascular access, Commonly used monitors
- Cardio respiratory arrest, management
- Airway management,
- Defibrillators
- Fluid and electrolyte management

SAMPLE PROGRAMME - OBSTETRICS

8.15 – 8.45 Pre Test

Session 1 Lectures

- 845-8.55 Introduction and Overview of programme
- 9.00-9.40 Active management of 3rd stage & 4th stage of labour
PPH drill and management of PPH, PPH Box
- 9.40-9.55 Cervical, vaginal and perineal tears(video)
- 9.55-10.05 Recap and interaction
- 10.05-10.15 Rupture uterus(Demonstration)
- 10.15-10.25 Obstetric hysterectomy (Demo)

- 10.25-10.35 Internal iliac ligation
- 10.35-10.50 Recap and interaction
- 10.50 -11.00 Coffee break, photo

Session 2 Lectures

- 11.00 – 11.15 Acute hypertension, Eclampsia,
MgSo4 use, Eclampsia box
- 11.15 – 11.30 Cerebro vascular emergencies
- 11.30-11.40 Anticonvulsants other than MgSo4
- 11.40-11.50 Discussion & Recap
- 11.50 – 12.10 Demonstrations
Extension of CS incision, forceps in C.S, Abnormal presentations

Session 3 Lectures

- 12.10-12.25 Blood components
- 12.25-12.35 DIC, Factor VII A
- 12.35-12.50 Acute collapse
- 12.50-13.05 Thrombo prophylaxis
- 13.05 -13.15 Discussion, Recap

13.15 -14.00 lunch

Session 4 Workstations

- 14.00- 15.10
 1. Cervical inspection, uterine packing, condom tamponade
 2. Uterine, ovarian branch ligation, Brace stitch
 3. Shoulder dystocia
 4. Venous cut down, Cavafix
 5. Instruments, digital rotation
 6. Emergency cerclage, emergency trolley ,
- 15.10-15.30 Review of workstations, discussion & Recap

Session 5 Lectures

- 15.30 - 16.00 Septic shock
- 16 .00 –16.15 Early pregnancy emergencies
- 16.15-16.30 Jaundice in 3rd trimester
- 16.30-16.45 Discussion & recap
- 16.45-16.55 Tea
- 16.55-17.05 Abruptio
- 17.05-17.25 Obstetrician and the neonate
- 17.25-17.45 Videos - Difficult CS, Morbidly adherent placenta,
Common Iliac clamp
- 17.45-18.00 Situation management
- 18.00-18.15 Cord prolapse
- 18.15-18.30 Multiple pregnancy
- 18.30 Post test, High tea**

EMOCALS-D

SAMPLE PROGRAMME – Basic Life Support

8-8.30 am	Breakfast		
8:30-8:45	Multiple gestation		
Session 1	Lectures		
8.45-9.10	Basics of ECG relevant to obstetrics	Salem	25'
9.10-9.30	Monitors	Salem	20'
9.30-9.50	Resp and Ventilatory support	Salem	20'
9.50-10.00	Discussion		
10.00-10.30	Coffee break		
Session 2	Lectures		
10.30-10.50	Fluid ,electrolyte management	Salem	20'
10.50-11.10	Vasoactive drugs- when to use	Salem	20'
11.10-11.35	ABG- how to interpret	Salem	25'
11.35-11.55	Cardiac arrest	Salem	20'
11.55-12.15	Non pneumatic Antishock garment	Salem	20'
12.15-12.45	Neonatal Resuscitation	Salem	30'
12.45-1pm	Discussion		
1-2 pm	Lunch break		
Session 3,			
2-3.30 pm	Work stations		15'each
	BLS		
	Central venous access		
	Newborn resuscitation		
	Defibrillation & cardioversion		
	ECG		
	Airway basics & beyond		
3.30-3.15 pm	Review		
3.15 pm	Photo, Certificate distribution		

Emocals Training Programme

List of delegates

27th & 28th October 2012, Thiruvalla

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27th & 28th October 2012, kOLLAM

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9	Dr.Jayalakshmi Suraj	
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12	Dr.Kala Raman	
13	Dr.Krishna Kumar	
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15	Dr.Lakshmi Mohan	
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- 17 Dr.Lysamma Mathew, Jr. Consultant, District Hospital, Kanhangad
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- 19 Dr. Maya S Mallya
- 20 Dr. Nebissa P.K
- 21 Dr. Padmavathi
- 22 Dr. Prathima PG Student KMCL
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- 25 Dr. Rehima
- 26 Dr.Sameer
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- 28 Dr.Shoba
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- 34 Dr. Veena
- 35 Dr.Vidhya
- 36 Dr.Yasodha T.K
- 37 Dr.Zuhra, Carewell Hospital, Kasargod

2nd & 3rd February 2012, THIRISUR

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24th & 25th August 2013, MALAPPURAM

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4	Dr. Mini P	THQH, Malappuram	9446435381
5	Dr. Sreeja P.T	Assistant Surgeon of Gynae., THQH, Nilambur	9961762744
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10	Dr. Shalima T.V	Gynaecologist, CHC Areacode	9495536240
11	Dr. Lekshmy L	CHC, Edappal	9895455685
12	Dr. Devakikutty	CHC, Kondotty	4832711434
13	Dr. Anisa P.M	CHC, Pothukal	9747980789
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26th & 27th October 2013, KOTTAYAM

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| 10. | Dr.Priyanka Viswanath | Pushpagiri Medical College, Thiruvalla
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Govt. Doctors

- | | | | |
|-----|---------------------|-----------------------------------------------------------------------------------|--------------|
| 1. | Dr.K.G.Letha | Civil Surgeon, BPHC, Uzhavoor P.O, Kottayam | 9446067640 |
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| 4. | Dr.Sibimol Aji | THQH, Thodupuzha
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| 5. | Dr.Anjali Prem | District Hospital, Kottayam
anjalina-prem@yahoo.co.in | 9446024970, |
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| 7. | Dr.Letha kumara.L | Govt. General Hospital, Changannasseri
lethamanmohan@gmail.com | 9495200849 |
| 8. | Dr.Rani Lakshmi.S | District Hospital, Kottayam
ranilakshmis@gmail.com | 9446588339 |
| 9. | Dr.Shiny.V.S | District Hospital, Mavelikkara
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| 10. | Dr.S.Anithakumari | W&C Hospital, Alappuzha
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| 11. | Dr.Sheena Mathew | THQH, Pampadi
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| 12. | Dr.Geetha Cherian | W & C , Alappuzha | 9846565245 |
| 13. | Dr.Mariya Jerome | MCH, Kottayam | 9567959210 |

P.G Students

1. Dr.Jisha Jayaprakash	THQH, Haripad drpsharush@yahoo.com	9495124932,
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3. Dr.Jeeva.P.Bal	MCH, Kottayam jeevapbal84@gmail.com	9447128122
4. Dr.Nisha.S	MCH, Kottayam nisha.shamsudeen@gmail.com	9497879146
5. Dr.Jincy Jacob	MCH, Kottayam jincy-86@yahoo.com	9847249185
6. Dr.Aysha.K.M	MCH, Kottayam ayshayasmin@yahoo.com	9495956346
7. Dr.Remya.M	MCH, Kottayam remya0432@gmail.com	9496114662
8. Dr.Hitha Sabu	MCH, KTM drseban77@gmail.com	9495767216
9. Dr.Anjana Balachandran	MCH, KTM dranjanab@gmail.com	940047542
10. Dr.Divya Vishnu	MCH, Kottayam vishnudivya@yahoo.com	9995754392
11. Dr.Seeja.P.	THQH, Vaikom	8156874257
12. Dr.Fiji Raj	MCH, Kottayam fijiraj@yahoo.co.in	9497272716

11th & 12th January 2014, KANNUR

Faculty

No:	Name	Hospital Address
1	Dr. Kunjamma Roy	Kottayam Medical College
2	Dr. Sathy M.S	Kottayam Medical College
3	Dr. Bindu Sajith	Kottayam Medical College
4	Dr. V.P Paily	Mother Hospital, Thrissur
5	Dr. Bindu Menon	JMMCH
6	Dr. Jayaraj	JMMCH
7	Dr. Siju	JMMCH
8	Dr. Kashyap C.K	JMMCH
9	Dr. Jyothy	Calicut Medical College
10	Dr. Smitha	Calicut Medical College
11	Dr. Ajith	Pariyaram Medical College
12	Dr. P.V Jose	Pariyaram Medical College
13	Dr. Mrudulla	W&C, Mangattuparamba, Kannur
14	Dr. Cynthia	DH, Kannur
15	Dr. Dilnath	Paediatrics, Thalassery
16	Dr. HariParasad	Taliparamba
17	Dr. Arun Mathur	Kannur Medical College
18	Dr. Smitha Rajiv	Co-Operative Medical College, Kannur

Govt. Delegates

1	Dr. Thankamani	DH, Kannur
2	Dr. M.R Reshmi	W&C Hospital, Mangattuparamba, Kannur
3	Dr. Anupa R	W&C Hospital, Mangattuparamba, Kannur
4	Dr. Suja Ajith	General Hospital, Thalassery
5	Dr. Bindu Mol	DH, Kannur
6	Dr. V Preman	P.H.C Mattool
7	Dr. Aruna K.N	Taluk Hospital, Thaliparamba
8	Dr. Thufail	W&C Mangottuparamba, Kannur
9	Dr. Madhu Soodhanan	Taluk Hospital, Payyannur
10	Dr. Poornima Prabhu	GH, Thalassery
11	Dr. C.K Rajmohan	Taluk Hospital, Thaliparamba
12	Dr. Appu Susheel	Govt Medical College, Calicut
13	Dr. Mrudula M.P	W&C Mangottuparamba, Kannur

Delegates from private hospitals

1	Dr. Gopinathan P	Kannur Medical College, Anjarakandy
2	Dr. Philomina George	Kannur Medical College, Anjarakandy
3	Dr. Chaithra Gowde	Kannur Medical College, Anjarakandy
4	Dr. Reshmi V.P	Pariyaram Medical College
5	Dr. Meera	iruveetil Medical Centre
6	Dr. Mini Balakrishnan	Co-Operative Hospital, Thalassery
7	Dr. Sr. Louice	Josgiri Hospital, Thalassery
8	Dr. Bhargavi P	Shemi Hospital, Talassery
9	Dr. Susan Joseph	St. Vincent de Paul, Ollur, Thrissur
10	Dr. Shyamala Mukundan	Meenakshmi Amma Memorial Hospital, Payyannur
11	Dr. Sonita Shramsh	Lourde Hospital, Taliparamba
12	Dr. Viswan V	Saba Hospital, Payyannur
13	Dr. Praveen Gopinath	Mukunda Hospital, Payyannur
14	Dr. Sindhu Prasanth	Ashraya Hospital, Mattannur
15	Dr. Simi Kurian	Pariyaram Medical College
16	Dr. Sreedevi Binu	Koyili Hospital, Kannur

P.G Students

1	Dr. Rabeeh V	Pariyarm Medical College
2	Dr. Divya Louis	Pariyarm Medical College
3	Dr. Nishi Kailash	Pariyarm Medical College
4	Dr. Blessy Mary	Pariyarm Medical College
5	Dr. Jisha R Raju	Pariyarm Medical College
6	Dr. Shony Thomas	Pariyarm Medical College

15th & 16th June 2013, TRIVANDRUM

List of participants

Govt. Doctors

Name & Address

- 1 Dr. Jaya LalMohan State Training Consultant, NRHM, Kerala
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- 2 Dr. Renuka Leslie W & C Hospital, Thycaud, Trivandrum
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- 5 Dr. Aganes R SATH, Medical College, Trivandrum
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- 11 Dr. Ambili Kumari S Taluk Hospital, Chirayinkeezhu
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- 12 Dr. Lissa Prabhakaran Govt. W & C Hospital, Thycaud, Trivandrum
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- 13 Dr. Sobha Kumari O W & C Hospital, Thycaud,
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- 14 Dr. Sreekala Devi S Junior Consultant W & C, Thycaud, Trivandrum
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Staff Nurse

- 1 Suja Nair J.S Staff Nurse, W & C Hospital, Thycaud, Trivandrum
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- 2 Lekshmi S Nair Staff Nurse Govt. W & C Hospital, Thycaud, Trivandrum
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- 8 Bindu V.P Staff Nurse DMH, Peroorkada,TVM
04712432071(Hos) 9388138021
- 9 Preetha Kumari K.R Staff Nurse DMH, Peroorkada, TVM
04712432071(Hos) 9400276397
- 10 Lekha Kumari S Staff Nurse THQH, Chirayinkeezhu
Ph: 0470 2646666(Hos)

KFOG is acutely aware of the need for empowering nurses and nursing assistants in tackling emergencies in obstetrics as they are usually the only ones available at the scene of an emergency when it strikes. However, it is not possible for KFOG to undertake this training for all nursing personnel. Hence it was proposed to train the senior and middle level nursing faculty

especially from nursing college and schools with the hope that they in turn will train the nurses and nursing assistants. The initial plan was to conduct two such 'training the trainers' courses. However, after the launch of the quality standards two more training sessions were conducted for the staff of SAT Thiruvananthapuram and General Hospital Ernakulam. A brief report of the training programme is given below.

EMOCALS Training of Trainers for Nurses

The Schedule

Date	Venue	Local organisers
8 th , 9 th Dec 2012	Togs Academia, Kizhakke Suryagramam, Behind Bishop Palace, East Fort, Thrissur -5	Dr. Deepthy Muraly, Mob: 9447267794 Dr. Betsy Thomas, Mob: 9895579077
23 rd , 24 th Feb 2013	Togs Academia, Kizhakke Suryagramam, Behind Bishop Palace, East Fort, Thrissur -5	

1st Course

The first training module for the trainers of EMOCALS-N was conducted at TOGS academia, Kizhakkumpattukara on Dec 8th and 9th 2012. A total of 45 delegates attended the programme. The participants were nurses mainly from government sector. They were from Thrissur, Alappuzha, Kottayam, Idukki & Ernakulam districts. The observer was Mrs. Ancy Mathew, Associate Professor, School of Nursing, Kottayam.

Registration started at 8 am. The participants were given a kit of bag, pen, writing pad, programme copy and copy of 2 books-

1. Why Mothers Die-Kerala, 2nd edition
2. The Protocol book prepared by KFOG.

The programme started with introduction of the programme and outline by Dr.V.P.Paily. He

stressed on the need of these types of training programmes for staff nurses and nursing assistants who will be carrying out the activities of labour room. It was followed by a test which had 20 questions on the practical aspects. The first session was BE PRESENT AND BE PREPARED. A pre-test was given before the lectures.

The lectures were more of interactive sessions with ample time for discussion and suggestions from the delegates. All the lectures were supported by power point presentations. Post lunch sessions were workstations where delegates were divided into small groups and were given hands on training on various drills and practical procedures. The first day's programme was concluded by 5.30 pm. Second day started with recap of first day's activities. Sessions were taken by gynecologists, anesthesiologists, and neonatologist. After the

post lunch workstations a post test was conducted with the same questionnaire used for pre-test which showed a marked improvement of scores. A sample score of the first course is shown below.

Mark	Pre test	Post test
5	0	0
6	1	0
7	3	0
8	4	0
9	2	1
10	1	0
11	8	2
12	2	0
13	2	3
14	6	2
15	2	9
16	5	4
17	2	7
18	1	5
19	1	2
20	0	3

Certificates, TA/DA as per government norms, softcopy of study materials, and a copy of group photo of delegates were given to all candidates by Dr. V.P.Paily. The meeting concluded at 4.30 pm. On both days breakfast, coffee, and lunch were served. Accommodation was provided on twin sharing basis on Saturday. The suggestions from the feedback forms from the delegates were as follows :

1. All appreciated the content and presentation of the programme, and wanted more frequent training sessions, preferably on week days.
2. Most appreciated sessions were on PPH, Eclampsia, Asepsis, Sterilisation, and Neonatal resuscitation.
3. Most of them were keen to start antenatal classes in their set up and to arrange emergency trolley.

2nd course

This was conducted in a similar pattern at TOGS Academia. There were 23 nurses participating from different districts.

List of delegates (1st course)

- | | | |
|----|------------------|-------------------------------------------------|
| 1 | Santhakumary N.V | THQH, Chengannur |
| 2 | Ashalatha P.R | THQH, Harippad, Alappuzha |
| 3 | Sreelatha K.N | Nursing tutor, School of Nursing, Ernakulam |
| 4 | Ushakumariamamma | Dt.H, Mavelikkara |
| 5 | Elsy Thomas | THQH, Kodungallore, Thrissur |
| 6 | Dhanya M.R | Dt.H, Kottayam |
| 7 | Nishi Punnan | Dt.H, Kottayam |
| 8 | Usha M.V. | Nursing Tutor, School of Nursing, Ernakulam |
| 9 | Alphonsa George | THQH, Adimali, Idukki |
| 10 | Soumiya T.S | MCH, MGKavu, Thrissur |
| 11 | Preeja P.S | MCH, MGKavu, Thrissur |
| 12 | Shiny C.R | THQH, Perumbavoor, Ernakulam |
| 13 | Khadeeja V.M | THQH, Kothamangalam, Ernakulam |
| 14 | Blessy Skaria | THQH, Vaikom, Ernakulam |
| 15 | Rani Paul | THQH, Vaikom Ernakulam |
| 16 | Beena T.John | Nursing Tutor, School of Nursing, Ernakulam |
| 17 | Carmel Andrews | W&C Hospital, Mattancherry, Ernakulam |
| 18 | Ushakumari.P.K | THQH, Thodupuzha |
| 19 | Jerusela George | PHC, Kumaramangalam |
| 20 | Christy Samuel | CHC Muttam, Thodupuzha |
| 21 | Jasmine Jose | THQH, Nedumkandam |
| 22 | Sheemol P.K | DH, Cheruthoni, Idukki |
| 23 | Saly N.J | Nursing Tutor, Govt School of Nursing, Thrissur |

24	Shaji P.I	Govt.school of Nursing, Thrissur
25	K.V.Rosily	THQH,Chavakkad, Thrissur
26	Mary.P.O	THQH,Chalakkudy, Thrissur
27	Siby Antony	Dt.H,Aluva, Ernakulam
28	Sheela.N.F	Dt.H,Thrissur
29	Omana. T.D	School of Nursing,Thrissur
30	Nitha Premnath	W&C,Hospital,Alappuzha
31	Priya.P.K.	THQH,Cherthala, . Alappuzha
32	Manjumol.M	Ernakulam
33	Sheeba Chacko	Nursing School,Kottayam
34	Reena Thomas	Nursing School,Kottayam
35	Jooly Verghese	Nursing School,Kottayam
36	Rev.Sr.Roscilla	Jubilee Mission H,Thrissur
37	JayasreeK.G	"
38	Joicy.C.V	"
39	Saly Thomas	Jubilee Mission H,Thrissur
40	Divya.K	Westfort Hitech Hospital,Thrissur
41	Suseela.V	Mother Hospital,Thrissur
42	Lissy John	Mother Hospital, Thrissur
43	Soudamini.V.T	Westfort Hospital,Thrissur
44	Shibi.T.B	Westfort Hospital,Thrissur
45	Mary Joseph	Govt MCH, , Thrissur

2nd course at TOGS Academia

List of participants

Sl. Name	Working Station	Place	
1	Jessy V.M	Govt. School of nursing	Kannur
2	TijiMol N Thomas	Govt. School of nursing	Kasargod
3	Chitra P.A	Nursing Tutor Govt. School of nursing	Alappuzha
4	Giggy John	Asst.Professor,GovtCollege of Nursing	Thrissur
5	Chitra Chandran	Lecturer,govt college of nursing	Thrissur
6	Sunitha Koopilakkal	Govt School of Nursing	Manjeri, MPM
7	Mary Devassy	KMK Hospital	Aluva - Private
8	Sigi Baby	KMK Hospital	Aluva - Private
9	Bindu K Sankar	Govt School of Nursing	Wayanad
10	Sobhana Ramakrishnan	Govt College of Nursing	TVM
11	Sona P.S	Asst Professor Govt College of Nursing	TVM
12	Reena A Thankaraj	Asst Professor Govt College of Nursing	TVM
13	Anu S.O	Lecturer Govt College of Nursing	TVM
14	Rasiya K.K	Asst Professor Govt College of Nursing	MCH, Calicut
15	Babitha C.K	Asst Professor Govt College of Nursing	Kozhikode
16	Molly Thomas	Govt School of Nursing	Calicut
17	Thresiamma John	Nursing Tutor F.H.S.T.S, Malaparambu	Kozhikode
18	Shyma P	Nursing Tutor Govt School of Nursing	Palakkad
19	Binu Sadanandan	Nursing Tutor Govt School of Nursing	Ernakulam
20	Rema T.U	Govt School of Nursing	Kottayam
21	Beena Rani S	Nursing Tutor Govt School of Nursing	Asramam, Kollam
22	Sindumol T	Asst Professor Govt College of Nursing	Kottayam
23	Latha Sukumaran	Nursing Tutor Govt School of Nursing	Kottayam

EMOCALS - N Training the Nursing Trainers

SAMPLE PROGRAMME

December 8th and 9th 2012 TOGS Academia, Thrissur- 680005

Timing	Presentation	Presenter	Time
Day 1	8 th December		
8.00- 8.30	Breakfast		
8.30-9.00	Registration		
9.00- 9.10	Introduction and breaking the ice	Prof. V P Paily	10'
9.10- 9.20	Outline of the workshop	Prof. V P Paily	10'
9:20-9:30	Pretest		10'
Session 1 –9:30 – 10:10 Be present and be prepared			
	Antenatal care, antenatal class, danger signals	Prof. V P Paily	10'
	Setting up labour room –Stages 1,2,3 and Neonatal corner	Dr. Nishi	10'
	Instruments, Packs, emergency trolley	Dr. Deepthy	10'
	Interaction and Recap	Prof V P Paily	10'
Session 2 – 10:10 – 10:45 Companion and Communicator			
	Communication with patient, relatives and doctors	Prof Rajasekharan Nair	10'
	Companionship in labour	Dr. Deepthy	10'
	Managing crowd in emergencies	Dr. Betsy	5'
	Documentation	Dr. Resmi	5'
	Interaction and Recap	Prof Rajasekharan Nair	5'
10:45 – 11 :00	Coffee break		
Session 3 –11:00-11:50 Emergencies during Labour			
	I stage with NST	Dr.Deepthy	10'
	II stage with delivery	Prof Paily	10'
	3 rd stage and 4 th stage	Dr. Resmi	10'
	Labour monitoring with examples from CRMD	Dr. Betsy	10'
	Interaction and Recap	Prof. Paily	10'
Session 4 –11:50-12:20 Role play			
	Acute collapse, Em.trolley	Dr. Deepthy	10'
	PPH, PPH Box	Dr. Resmi	10'
	Eclampsia, Eclampsia Box	Dr. Betsy	10'

Session 810.30-11:20 Against infections			
	Wound management	Dr. Deepthy	10'
	Sepsis	Prof. VPP	10'
	Antibiotic policy	Dr. Lola	10'
	Anaphylaxis	Dr. Betsy	10'
	Interaction and recap	Prof. VPP	10'
Session 911.20- 12.00		The Killers	
	Hypertensive disorders of pregnancy – definition, classification	Dr. Lola	5'
	Management of hypertension	Dr. Deepthy	10'
	Management of eclampsia	Prof. V P Paily	5'
	HELLP syndrome, DIC	Dr.Lola	10'
	Interaction and recap	Prof. VPP	10'
Session 10 12:00- 1:00 Drugs and fluids			
	Important Drugs and administration	Dr. Geetha A P	10'
	I V fluids	Dr. Lola	10'
	Blood and blood products	Dr. Geetha A P	10'
	Interaction and recap	Prof. VPP	10'
	General overview of resuscitation	Prof.A.K.Unnikrishnan	10'
	Outline of neonatal resuscitation	Dr.Raveendravarma	10'
1.00-2.00	Lunch		
2.00-3.30	Workstation		15' each
	1 ECG	Dr. Sudhakaran	
	2 I V access	Dr. Lola	
	3 Neonatal resuscitation	Dr. Raveendra Varma	
	4 Cardiac compression	Dr. Asish	
	5 Airway	Dr. Shamshad, Dr. Vilasu	
	6 Monitors	Dr. Anju	
3:30 – 4:30 - Post test , Feedback and Conclusion			

ADDITIONAL COURSES

Two additional courses were conducted for nurses to help
with the quality standards project.

1. Training at Thiruvananthapuram on 6&7th July 2013

2. Training at General Hospital, Ernakulam on 13th & 14th July 2013

Delegates who attended training at GH Ernakulam

Sl.No	Name of delegates	Designation	Institution	Phone No:
1	Nisha Antony	Staff Nurse	General Hospital, EKM	9846175578
2	Chinnamma PU	Head Nurse	General Hospital, EKM	9446125288
3	P.M Lissy	Head Nurse	General Hospital, EKM	9446895983
4	M.I Valsamma	Head Nurse	General Hospital, EKM	9846313152
5	Selvi K Varkey	Staff Nurse	General Hospital, EKM	9446017625
6	Geetha T.V	Head Nurse	General Hospital, EKM	9142022588
7	D Vanajamma	Head Nurse	General Hospital, EKM	9495017449
8	Sheena mole S	Staff Nurse	General Hospital, EKM	
9	Padmini Kumaran	Staff Nurse	General Hospital, EKM	9446612769
10	Arundhathi K.K	Staff Nurse	General Hospital, EKM	9446416206
11	Suni T.V	Staff Nurse	General Hospital, EKM	9446718672
12	P.K Geethakumary	Head Nurse	General Hospital, EKM	9995355200
13	K.S Molly	Head Nurse	General Hospital, EKM	9495425157
14	Lysa Thomas	Head Nurse	General Hospital, EKM	9249896079
15	Vijayakumari C.D	Staff Nurse	General Hospital, EKM	9895125395
16	Komalavally V.C	Staff Nurse	General Hospital, EKM	8547175973
17	Shiny Antony	Staff Nurse	General Hospital, EKM	9497443795
18	Alice P.G	Staff Nurse	General Hospital, EKM	9447733696
19	Carmel Mary	Staff Nurse	General Hospital, EKM	9895646304
20	Vilasini A.K	Head Nurse	General Hospital, EKM	9447940961
21	Sandhya N Namboothiri	Staff Nurse	General Hospital, EKM	9447366727
22	Nancy Xavier	Head Nurse	General Hospital, EKM	9497962278
23	Mini C.N	Staff Nurse	General Hospital, EKM	9847777812
24	Preetha S	Staff Nurse	General Hospital, EKM	9495519268
25	Jayanthimol K.S	Staff Nurse	General Hospital, EKM	9495990032
26	Victoria Mathew	Staff Nurse	General Hospital, EKM	9446437361
27	Jacklin C Joseph	Staff Nurse	General Hospital, EKM	9847291074
28	Anupama P.U	Staff Nurse	General Hospital, EKM	8547504650
29	V.D Lissy	Nursing Suptd	General Hospital, EKM	9447672876
30	Thara K.N	Staff Nurse	General Hospital, EKM	9387639321
31	Selma N.M	Staff Nurse	General Hospital, EKM	9995183816
32	Saritha K.K	Staff Nurse	General Hospital, EKM	8281030584
33	P.M Mary	Head Nurse	General Hospital, EKM	9447930315
34	Sudha P John	Staff Nurse	General Hospital, EKM	9746335301
35	Raji M.K	Staff Nurse	General Hospital, EKM	9847336585
36	Tintu M.M	Staff Nurse	General Hospital, EKM	9497280285

37	Neethu Mol Mohanan	Staff Nurse	General Hospital, EKM	9605185829
38	Shalu Sasi	Staff Nurse	General Hospital, EKM	9633778936
39	Vanija Varghese	Staff Nurse	General Hospital, EKM	9037541561
40	Geetha P.G	Head Nurse	General Hospital, EKM	9446391609
41	Ajitha P.T	Staff Nurse	General Hospital, EKM	9846175460
42	Bindu K Kumar	Staff Nurse	General Hospital, EKM	9961570429
43	Nirmala	Head Nurse	General Hospital, EKM	9497793938
43	Ramla P.M	Staff Nurse	THQH, Kothamangalam	9947712741
44	Sigy T.H	Staff Nurse	THQH, Kothamangalam	8129515011
45	Santha M.I	Staff Nurse	THQH, Fort Kochi	9656131041
46	Sany M.V	Staff Nurse	THQH, Fort Kochi	9447819307
47	LisyA.D	Staff Nurse	THQH, Paravoor	9846995102
48	Mary K.G	Staff Nurse	THQH, Paravoor	9400944214
49	N.A Daisy	Staff Nurse	W&C, Mattancherry	9495933915
50	Anna Susy V.A	Staff Nurse	W&C, Mattancherry	9961302058
51	Deepa Mathew	Staff Nurse	THQH, Perumbavoor	9947855813
52	Liji K Mathew	Staff Nurse	THQH, Perumbavoor	9995029326
53	Shijimol P.J	Staff Nurse	THQH, Thripunithura	9400710598
54	Jissy Mathew	Staff Nurse	THQH, Thripunithura	9495764495
55	M.K Prasanna	Staff Nurse	G.H, Muvattupuzha	9645851270
56	Radhamany P.T	Staff Nurse	G.H, Muvattupuzha	9544516191
57	Sr. Liza grace	Staff Nurse	Dhanya Mission H, Potta	2710271
58	Sr. Liya	Staff Nurse	Dhanya Mission H, Potta	2710271
59	Jolly Francis	Staff Nurse	Medical Centre, EKM	9495174332
60	Sunitha mol N.O	ANM, Pvt	Medical Centre, EKM	9142693670

Sl.No	Name of delegates	Designation	Institution	Phone No:
1	Pushpa Joseph	Nursing Assistant	General Hospital, EKM	9048685088
2	Omana P.R	Nursing Assistant	General Hospital, EKM	9605716014
3	Mani N.B	Nursing Assistant	General Hospital, EKM	9744149833
4	Cheruvaumma P.K	Nursing Assistant	General Hospital, EKM	9656778373
5	M.K Vinu	Nursing Assistant	General Hospital, EKM	9656931303
6	Valsala V.S	Nursing Assistant	General Hospital, EKM	8281261074
7	Money K.S	Nursing Assistant	General Hospital, EKM	9747311304
8	Tansi Jose K	Nursing Assistant	General Hospital, EKM	9946951761
9	Bhadra Devi T.K	Nursing Assistant	General Hospital, EKM	9605603779
10	A.K Shyla	Nursing Assistant	General Hospital, EKM	9744820927
11	Lalitha T.N	Nursing Assistant	General Hospital, EKM	9946527524
12	Ramla T.U	Nursing Assistant	General Hospital, EKM	9946278139
13	K.I Anjana Mallika	Nursing Assistant	General Hospital, EKM	9846286147
14	Anila K.S	Nursing Assistant	General Hospital, EKM	9946784152
15	K. Valsamani	Nursing Assistant	General Hospital, EKM	9496768170
16	Sarada C.K	Nursing Assistant	General Hospital, EKM	9947168731
17	Navya P.T	Staff Nurse	City Hospital, EKM	8281600672
18	Ranjini S	Staff Nurse	City Hospital, EKM	9061743803
19	Shijina P.B	Staff Nurse	City Hospital, EKM	9645583668

Emocal N Training of Staff Nurses 6th & 7th July 2013, Trivandrum

List of participants

1	Anuja S E	SATH
2	Rekha	SATH
3	Jaya S	SATH
4	Renuga E	SATH
5	Nisha	SATH
6	Sunaja A S	SATH
7	Suja A P	SATH
8	Aswathi R	SATH
9	Hani Raj	W & C Thycaud
10	Resmi G	SATH
11	Nimisha S	SATH
12	Shammela m H	SATH
13	Arathi S Nair	SATH
14	Leela K	SATH
15	Sherly G L	DMH Peroorkada
16	Jaya S	Govt College of nursing
17	Jeethu R	Govt College of nursing
18	Anitha T	SATH
19	Prema V R	SATH
20	Manjumol V J	SATH
21	Bijula M R	W & C Thycaud
22	Kairali K M	W & C Thycaud
23	Suja T N	W & C Thycaud
24	Sindhu T G	W & C Thycaud
25	Sudha M	THQ Chirayinkezhu
26	Sreedevi S	THQ Chirayinkezhu
27	Jansy John	W & C Thycaud
28	Lini K	Govt College of nursing
29	Rincy Aruja	Govt College of nursing
30	Lini K	Govt College of nursing
31	ArunPriya T L	Govt College of nursing

Emocal N Nursing Assistant on 6th July

1.	Sreekumri L	SATH
2.	Usha Kumari C	SATH
3.	Usha Kumari g	SATH
4.	Kumari Rama	SATH
5.	Jayalakshmi	SATH
6.	Vijaya Kumari	SATH
7.	Hemalatha	SATH
8.	Radha	SATH
9.	Asha Kuamri	SATH
10.	Pushpavall	SATH
11.	Girija	SATH
12.	Vasantha Kumari	SATH
13.	Sheela Thankachi	SATH
14.	Shalini D	SATH
15.	Sujatha S	SATH

Quality standards in Obstetric Care

In 2012, the Kerala Government invited the UK organization, NICE international, to study the state of maternal and infant health care in Kerala and suggest any steps to reduce the maternal and infant mortality rate. This was a sequel to the realization that these rates remained almost static in the last decade. Even though these Kerala rates were below the millennium development goals set for India, the Government was concerned that there were still avoidable maternal and infant deaths in the state.

A team from NICE headed by its senior officials paid several visits to the state and had discussions with the health secretary and other officials and the Kerala Federation of OBS &Gyn. They studied the document “Why Mothers die - Kerala” prepared by the Kerala Federation of Obstetrics and Gynecology on the basis of confidential reviews of maternal deaths. The NICE team felt that to reduce maternal deaths further, the two leading causes, namely hemorrhage and hypertension should be addressed. Standard of obstetric care has to be improved. Five steps each in the management were identified to prevent haematological and hypertensive deaths. After extensive group discussions it was decided to pilot these steps of quality standards in 6 Government and 2 private Hospitals in the state. The 10 steps, known as quality standards were as follows.

A. To prevent PPH death

1. Practice active management of third stage of labour in every delivery
2. 4th stage management- observe every woman after delivery for two hours
3. Give blood transfusion to everyone who

- developed BP fall in spite of IV fluids
4. Observe in the ICU/HDU, everyone who received blood transfusion.
5. Insist on ultra sound scan at 32 weeks for every woman pregnant after previous cesarean to identify potential cases of placenta previa accreta

B. To prevent deaths due to hypertension

1. Increase the pickup of pre eclampsia cases by insisting on urine examination for protein in every antenatal case once in 1st and 2nd trimesters and during all visits after 34 weeks.
2. Start antihypertensive treatment for every pregnant woman with BP above 140/90
3. Start parenteral antihypertensives for every woman with BP above 160/100.
4. In every woman with high BP, check blood for liver enzymes and platelets and if identified to be having HELLP, consider expedited delivery.
5. Use Magnesium sulphate as the first line anti convulsant in the standard dose for every case of eclampsia and impending eclampsia.

It was decided that before starting the pilot, baseline data from the pilot hospitals had to be collected. The hospitals had to improve the infrastructure and staffing pattern. The staff had to be trained to improve the care and incorporate the required changes in the management. KFOG agreed to conduct the preliminary training of staff of different categories- Obstetricians, nurses and nursing assistants. Funds were allotted to KFOG to conduct the training and supply of

instruments required for improved management of labor and post partum period. The instruments were later to be used in the department for patient care. The National Rural Health Mission agreed to be the funding agency and as per order No: (NRHM)1293/M&E(QA)/2013/SPMSU Dt.29-03-2013 allotted rupees Nine lakhs Twenty eight thousand Five hundred and Forty four(9,28,544/-) from the RS 49 lakhs allotted earlier for the EMOCALS project. This amount was for conducting the training and providing the training equipment and instruments to the pilot hospitals under the Government sector. The details of training sessions, instruments and equipment's supplied to the hospitals are included in this report.

The pilot Hospitals were:

1. W & C Hospital,
Thycaud, Thiruvananthapuram
2. SAT Hospital, Thiruvananthapuram
3. CHC Kanyakulangara,
Thiruvananthapuram
4. Thaluk Headquarters Hospital,
Chirayankeezhu, Thiruvananthapuram
5. Government Hospital ,Perurkada,
Thiruvananthapuram
6. Government General Hospital,
Ernakulam
7. SUT Hospital, Thiruvananthapuram
8. Mother Hospital, Thrissur

Dr.V.P.Paily was appointed as KFOG's representative to the quality standards project of Kerala.

Training was imparted to the labour room staff of pilot hospitals, as an introduction to the way the labour room practices have to be changed on the basis of quality standards.

The prelaunch training was conducted during March 2013 in the following places:-

1. W & C Hospital, Thycaud -
on 7th& 8th March 2013.
2. SAT Hospital, Thiruvananthapuram
On 9th& 10th March 2013
3. General Hospital , Ernakulam
On 22nd March 2013
4. Mother Hospital, Thrissur
On 23rd March 2013

By December 2013, it was felt that the Quality Standards should be expanded further to include new hospitals where large number of deliveries took place. It was decided to recruit the following hospitals.

1. Victoria Hospital, Kollam
2. District Hospital, Palakkad
3. Tribal Specialty Hospital, Attappady
4. W&C Hospital, Kottapparambu, Kozhikode
5. District Hospital, Mananthawady
6. District Hospital, Manjeri

The proposal was to train the staff in these respective hospitals on data entry first, without implementing the quality standards, so that baseline data will be available and then only ask them to start practising quality standards. Accordingly Dr.V P Paily visited all these hospitals to give them training in data entry. However, the implementation did not happen.

SAMPLE PROGRAMME

Quality Standards- prelaunch staff training (Coordinator – Morning Session: Dr.Rajasekharan Nair)

8.00 -8.30 Registration,

Overview of Quality standards - what are they, purpose and how to implement	VP Paily
Discussion on each of the first 5 quality standards	V P Paily
Discussion of last 5 points of Quality Standards	Rajasekharan Nair
Conduct of labour in the light of quality standards,	Vasanthi Jayaraj
Setting up labour room, Sample delivery set, H/N	Suseela
How to reduce episiotomy,	Seetha
Companion in labour – how practical, what problems?	Kunjamma Roy
Common pitfalls in aseptic practice, keeping labour room tidy	VP Paily
Day to day running of labour room	Suseela/Shiny
Preparations for labour, cesarean, giving enema, shaving	Suseela/ Shiny

Interactive session

Lunch 1.00 – 2.00pm

Post lunch workstations. Coordinator –V P Paily (Each station 15 mts)

1. When bleeding occurs – how to tackle, PPH chart, Condom tamponade, PPH Box VJ/Hasta/Anuja
2. When high BP occurs, what to look for, How to reduce BP, MgSO₄ Use, Eclampsia Box VRS/Hema/ Regi
3. Third and 4th stages, blood loss measurement – . During vag delivery, during CS Lalkshmiammal/ Bindu Thomas/ Arathy
4. When the patient suddenly collapses, what first aid, how to proceed, BLS, Cardiac compression Anesthetist, Sujatha/

Lectures

Data Entry in Labour Register	VPPaily
Manual Data collection monthly	Hasta / Anuja
A/N class – purpose, who should conduct, what should be taught	Vasanthi
Induction of labour – different methods, video support	Vasanthi
Basics of instrumental deliveries	VP Paily

How to reduce c.section rates

Interaction and Feedback

Conclusions

Model labour sets, cervical inspection sets and extra amniotic saline(EAS) sets were issued to the participant hospitals. Contents of each set issued is given

Contents of Model labour set

Steel tray to be used as baby tray 19"x13"x4"	one
Placental bowl 8.5"	one
Smaller bowl 4"	one
Sponge holder forceps	one
Episiotomy scissors 6"	one
Cord scissors 4"	one
Cord clamp – steel	two
Artery forceps 6"	two
Needle holder	one
Thumb forceps	one

Contents of cervical inspection set

Single bladed large speculum	Three
Long, broad sponge holder	Three

Contents of Extra amniotic saline set

S S Tray rectangular	one
Small bowl (stainless steel)	two
Special Allis forceps	one
Sponge holding forceps	one
Long straight artery forceps	one
Artery forceps	one
Special cusco's speculum	one

Details of the instruments supplied

Name of the institution: W & C Hospital, Thycaud, Thiruvananthapuram

Baby Tray 18 x13	:21
Placental bowl	:21
Small bowl for cotton swabs	:31
Straight scissors 6"	:33
Straight scissors 7"	:32
Thumb Forceps 7"	:24
Dissecting forceps 6"	: 3
Sponge holding Forceps	:37
Curved Artery 6"	:53
Straight Artery 8"	:55
Needle Holder	:30
EAS Tray	:5
Allis Forceps	:5
Cuscos Speculum	:5
Obstetric forceps	: 1
Cervical Inspection set	2
Single Blade Speculum	:6

- 2 Allis Forceps :2
- 3. Sponge holding forceps :6

PV Pack 2

- . S.Small bowl :2
- artery forceps :2

Name of the Institution: S.A.T Hospital

- Baby Tray :26
- Placental bowl :26
- Small bowl for cotton swabs :36
- Straight Scissors 6" :42
- Straight Scissors 7" :40
- Thumb Forceps 6" :30
- Dissecting forceps 7" :06
- Sponge holding forceps :45
- Curved Artery 6 " :65
- Straight Artery 8" :72
- Needle Holder :40
- EAS Tray :5
- Allis Forceps :05
- Cuscus Speculum :05
- Obst.Forceps :02
- Common iliac artery clamp :02

Cervical Inspection set : 03

- Single Blade Speculam :09
- Sponge holding Forceps :09

Name of the institution: CHC Kanyakulungara

- Baby Tray 18x13 :04
- Placental bowl :04
- Small bowl for cotton swabs :08
- Straight Scissors 6" :04
- Straight Scissors 7" :04
- Thumb Forceps :04
- Sponge holding Forceps :06
- Curved Artery 6" :10
- Straight Artery 8" :08
- Needle holder :04
- EAS Tray :02
- Allis Forceps :03
- Cuscus Speculum :02

Cervical Inspection set : 01
Single blade Speculum :03
Sponge holding forceps :03

PV Pack : 02
Small Steel Bowl : 02

Name of the institution: Thaluk Head Quarters Hospital, Chirayinkeezhu

Baby Tray 18x13	08
Placental bowl	08
Small bowl for cotton swabs	12
Straight Scissors 6"	08
Straight Scissors 7"	08
Thumb Forceps	08
Sponge holding forceps	10
Curved Artery 6"	18
Straight Artery 8"	16
Needle holder	08
EAS Tray	02
Allis Forceps	03
Cuscos Speculum	02
Obst .Forceps	01

Cervical Inspection set
1.Single Blade Speculum :03
2.Sponge holding forceps :03

PV Pack-2
Steel small bowl :02
7" Artery Forceps :02

Name of the institution: Govt. Hospital Perurkada

Baby Tray	: 08
Placental bowl	: 08
Small bowl for cotton swabs	: 14
Straight Scissors 6"	: 08
Straight Scissors 7"	: 08
Dissecting Forceps	: 08
Sponge holding Forceps	: 11
Curved Artery 6"	: 19
Straight Artery 8"	: 16
Needle holder	: 08
EAS Tray	: 03
Allis Forceps	: 03

Cuscos Speculum :03
Obst. Forceps :01

Cervical inspection set :01

1. Single blade Speculum :03
2. Allis Forceps :01
3. Sponge holding forceps :03

PV Pack -2

Small bowl :02
Artery Forceps 7" :02

Name of the institution: General Hospital, Ernakulam

Baby Tray 18 x 13 :16
Placental bowl :16
Bowl for cotton swabs : 22
Straight Scissors 6" : 23
Straight Scissors 7" : 22
Dissecting Forceps : 15
Sponge holding forceps : 22
Curved Artery 6" : 36
Straight Artery 8" : 39
Needle holder : 24
EAS Tray : 03
Allis Forceps : 04
Cuscos Speculum : 03
Obst. Forceps : 01
artery forceps 7" : 09
thumb forceps 7" : 02

Cervical inspection set: 01

1.Single blade Speculum : 03
2.Sponge holding Forceps : 03

PV Pack - 02

Small Steel bowl :02
Artery Forceps 7" :02

Quality Standards Staff Training List – 2013

Sensitization meeting at thiruvananthapuram on 16/02/2013

1	Dr. V.P Paily	KFOG
2	Dr. Sunimol S	RMO
3	Dr. K.M Chandini Devi	Chief anaesth.
4	Dr. Mayadas	consultant
5	Dr. Sajith Mohan	Asst. Surgeon
6	Dr. Vimaladevi J	Head Nurse
7	Saroja J	Head Nurse
8	Jayasree B.S	Head Nurse
9	Ushakumari K	Head Nurse
10	Sulochanadevi A	Nursing Suptd
11	Sheela Many	Head Nurse
12	Syamalakumari	Nursing Suptd
13	Geetha Kumari R	Staff Nurse gr 1
14	Dr. Nissa Beegum K	Jr Consultant
15	Dr. Jeeja Beegum	Jr Consultant
16	Dr. Ambily	consultant
17	Dr. Shaila Das	Jr Consultant
18	Dr. Shirli	consultant
19	Dr. Thankam	consultant
20	Dr. Nirmala	consultant
21	Dr. Giji	Gynaecologist
22	Dr. V Rajasekharan Nair	KFOG
23	Dr. Vasanthi Jayaraj	KFOG, TCR
24	Dr. Shanthi	Gynaecologist

Staff training on 07/03/2013 & 8/3/13 at W & C Hospital, Thiruvananthapuram

25	Dr. D Leela	Consultant O & G
26	Dr. Thankam	Consultant
27	Dr. Renuka	Consultant, W&C
28	Sajitha R.B	Supervioser, KIMS
29	Vimaladevi J	Head Nurse
30	Sailaja Kumari S	H/N
31	Saraswathy	Nursing Assistant
32	Saradadevi P	N/A
33	Dany George	Staff Nurse
34	Sreeja S	S/N
35	Shilpa S	S/N

36 B. Sujakumari	S/N	
37 Suja T.N	S/N	
38 Leshmi S Nair	S/N	
39 Sasikala Amma P	S/N	
40 Sheela	S/N	
41 P. Radha	S/N	
42 Girijakumary C.L	H/N	
43 Bindu S	S/N	
44 Remadevi C	H/N	
45 Valsala P	H/N	
46 Thankamani T	GR 11	
47 Latha M.V	GR 11	
48 Lalitha R	N/A	
49 Dr. Sam John Varghese	Consultant O & G	
50 M. Pankajam	N/A	
51 Sudha N	S/N	THQH
52 Jayasree B.S	H/N	W&C Hosp., TVM
53 Ajithakumari	S/N	W&C Hosp., TVM
54 Aswathy R Nair	S/N	W&C Hosp., TVM
55 Suma S	S/N	W&C Hosp., TVM
56 Ajesh dev Ag	S/N	W&C Hosp., TVM
57 Rithugami S	S/N	W&C Hosp., TVM
58 Sathikumari	N/A	W&C Hosp., TVM
59 Aswathy G	WH	W&C Hosp., TVM
60 Sr. Dona	S/N	W&C Hosp., TVM
61 Dr. Sreekala	Jr. Consultant	W&C Hosp., TVM
62 Dr. Rejitha Devi	Jr. Consultant	W&C Hosp., TVM
63 Dr. Mayadas		W&C Hosp., TVM
64 Dr. Lini Prabhakaran	Jr. Consultant	
65 Dr. Anuja	PG Student	Mother Hosp., Olari
66 Dr. Vasanthi Jayaraj	Consultant	Mother Hosp., Olari
67 Dr. Syad	Consultant	
68 Dr. Geetha G Nair	Consultant,DMH	Peroorkada

Staff training on 22/03/2013 at General Hospital, Ernakulam

<i>Name</i>	<i>Designation</i>	
69 Prof. V.P Paily	Consultant	Mother Hospital
70 Dr. Vasanthi Jayaraj	Consultant	Mother Hospital
71 Dr. Bindu Varghese	Consultant O&G	Mother Hospital
72 Dr. Kunjamma Roy	HOD of O&G	Medical College, Kottayam
73 Dr. Sathi M.S	Asst.professor	Medical College, Kottayam

74	Anula Shanmugham	S/N	GH, EKM
75	Soumya Varghese	S/N	GH, EKM
76	Ajitha Jolly A	S/N	GH, EKM
77	Raji M.K	S/N	GH, EKM
78	Ambika M.P	GR 11	GH, EKM
79	Asma K.M	N/A	GH, EKM
80	Cicily Thomas P	N/A	GH, EKM
81	Pathukutty	N/A	GH EKM
82	Sumathykutty K.R	S/N	GH,EKM
83	Dr. Hasta Kusthe	P.G	Mother Hospital
84	Minu Paulson	S/N	Mother Hospital
85	Aswathy V.B	S/N	Mother Hospital
86	Dincymol M.D	S/N	Mother Hospital
87	Suseela V	H/N	Mother Hospital
88	Riaji N Mohan	S/N	GH EKM
89	Nasee Bai P.D	H/N	GH ,EKM
90	Sini M.N	JPHN	
91	C.X. Philomina	H/N	G.H, EKM
92	Shaini N.K	S/N	
93	Remya K.V	S/N	
94	M.I Valsamma	H/N	
95	Jollyamma Thomas	H/N	
96	Prameela V.T	N/A	
97	Sheela K.R	GR 11	
98	Tojo Thomas	S/A	
99	Suseela MK	GR 11, Attender	
100	Sandhya N.D	JPHN	PHC, Thiruvaniyoor
101	Bindu K.V	JPHN	CHC, Kechery
102	Bindu mol C.D	GR 11, Attender	EKM
103	Shyji K.J	S/N, GR 11	G.H, EKM
104	Sheenamole S	S/N, GR 11	G.H, EKM
105	Komalavally D	N/A	G.H, EKM
106	CarmelMary	S/N	G.H, EKM
107	Dr. V Moshan Das	Gynaecologist	G.H, EKM
108	Vasanthi M.K	S/N	G.H, EKM
109	Dr. Nergis S	Consultant O&G	THQH, N. Parur
110	Dr. Girija V	Consultant O&G	G.H, EKM
111	Dr. Kala	Senior Consultant	
112	Dr. Anju B Nambiar	House Surgeon	G.H, EKM
113	Veena S.R	Staff Nurse	G.H, EKM
114	Rajamma P.K	Head Nurse	G.H, EKM
115	Vanajamma	H/N	G.H, EKM
116	Shibi Paul Raj	S/N	G.H, EKM
117	Ronny M.P	H/N	G.H, EKM
118	Anu Joseph	S/N	G.H, EKM

119 Kanchana A.V	S/N	G.H, EKM
120 Chinnu K.C	H/N	G.H, EKM
121 Saramma I Mathai	H/N	G.H, EKM
122 Many A.P	S/N	G.H, EKM
123 Sibi K.R	S/N	G.H, EKM
124 Seenath T.B	N/A	G.H, EKM
125 Asmabeevi K.S	N/A	G.H, EKM
126 Meeramma Fernandez	H/N	G.H, EKM
127 Joly Joseph	H/N	G.H, EKM
128 Radhamani K.T	Gr 11	G.H, EKM
129 Nalini K	N/A	G.H, EKM
130 K.H Shajitha	N/A	G.H, EKM
131 Lucy Joseph	H/N	G.H, EKM
132 Nirmala K	H/N	G.H, EKM

Staff training on 9 & 10 March 2013 at SAT, Trivandrum

Faculty

Dr.Paily V P
 Dr.Rajasekharan Nair V
 Dr.Vasanthy Jayaraj
 Dr.Arathy V L
 Dr.Sujatha
 Dr.Sujamol Jacob
 Dr.Sreelatha

Participants

1	Dr.Anita V	Asst professor	SATH
2	Dr.Bindu	Asst professor	
3	Dr.Uma T	Asst professor	SATH
4	Dr.Tanyalal	Asst professor	
5	Dr.Vasanthakumari	Additional professor	
6	Dr.Simi A	Asst professor	SATH
7	Dr.Manjula	Asst professor	SATH
8	Dr.Deepa R Nair	Junior Consultant	
9	Dr.Ambili	Consultant	
10	Dr.Lakshmi	Asst professor	SATH
11	Dr.Thanuja	Asst professor	
12	Dr.Sreekumari	unit chief O5	
13	Dr.Jamie T Jacob		SUT Hosp
14	Dr.Lakshmi Ammal		SUT Hosp
15	Dr.Sheela		GH
16	Dr.Patsy Verghese		SATH
17	Dr.Shehida	Asst professor	
18	Dr.Jaithra		
19	Dr.Neena Chandran	PG 1st year	
20	Dr.Regetha	PG 1st year	

21	Dr.Chethana N	Senior Resident	SATH
22	Dr.Shila S	professor	SATH
23	Dr.Rajeena	Asst professor	
24	Dr.Sreekumari	Asst professor	
25	Dr.Priyasree J	Associate prof	
26	Dr.Anu Anna		
27	Dr.Deepthy B	Asst professor	SATH

Nursing Staff			Nursing Assistants		
1	Nisha P		1	Esther	2nd grade
2	Renuka E		2	Sobha	2nd grade
3	Remya		3	Thulasi	1st grade
4	Usha B		4	Sheela D	2nd grade
5	Mary		5	Minimol	2nd grade
6	Indies T		6	Usha Kumari	2nd grade
7	Aswathy V R		7	Rajan M	1st grade
8	Sajitha T R		8	Sreelatha	2nd grade
9	Jessy Beegum		9	Jayalakshmi	NA
10	Mariamamma Philipose		10	Vijayakumari	
11	Anjali V		11	sasikala	
12	Nirupama K		12	Vijayamma	
13	Lekshmi S		13	Meharunnisa B	
14	Sudhakumari		14	Shajeha Beevi	
15	Nadia Amanullah		15	valsala	
16	Anjal Krishna K L		16	Suresh Babu	
17	Anupam G R		17	Salini	
18	Divya M S		18	Nandakumar	
19	Amiya		19	Prabha S	
20	Seline		20	Vimala	
21	Sheela A		21	Hemalatha	
22	Nisa salim		22	Maya S	
23	Prakashini P		23	Rema A	
24	Sreedevi		24	Sreekala	
25	Metilda		25	Pushpalatha	
26	Anjumol K O		26	Molly	ANM
27	Rajanee M				
28	Shani S S				
29	Shajitha S	SATH			
30	Saraswathy	SATH			
31	Sreedevi	THQ			

Staff Training on 23/03/2013, Mother Hospital at Thrissur

S. No	Name	S. No	Name
1	Leomon T.B	38	Nitha Jaison T.
2	Surumi Rahman	39	Muhasina M.
3	Chinju Mathew	40	Nanma V.
4	Nimmi C.J	41	Vipin Sankar M.
5	Nivya T.P	42	Aneesh Poly
6	Fayis Shabu	43	Sanjay P.
7	Divya Tony	44	Vinaya Varghese
8	Akhil Gijo	45	Nismath K.
9	Abin	46	Vinaya Varghese
10	Sanoop C.R	47	Anu Binoj
11	Jinate George	48	Shiny Varghese
12	Sajana Jose	49	Jisha Johnson
13	Nimisha K.H	50	Rosmy Augustine
14	Rathika O.	51	Ancy Paskal
15	Litty C.J	52	Geetha K.G.
16	Neethumol K.M	53	Vijaya T.V.
17	Silpa K.P	54	Joicy C.L.
18	Riya Scaria	55	Geetha Venu
19	Seethal K. Paul	56	Jancy
20	Shiji Edison	57	Elsy
21	Stephy Paul	58	Reena Anto
22	Akhila P.A	59	Viji Varghese N.
23	Linda Cherian	60	Luxy A.L
24	Jasmy Johnson	61	C. Jebitta Beny
25	Silja T.J	62	K.K Saffiya
26	Tintu Xavier	63	Celin Baby
27	Pranaviya K.P	64	Lissy John
28	Anet Paul	65	Jeseenta M.L.
29	Sudhina Abdullah	66	Omana Jacob
30	Jintha Raj M.K	67	Nini Johnson
31	Harsha Vincent	68	Dhanya K.T
32	Dr. Fareena	69	Sophy Davis
33	Dr. Philo	70	Jincy Varghese
34	Dr. Anitha V. Pai	71	Ansi Benny
35	Rose Paul T.	72	Rakhi Raj
36	Stephy Clarence	73	Ancy Ouseph
37	Sruthi M.P		

C.KRISHNAKUMAR & Co.
CHARTERED ACCOUNTANT



CIVIL LINES ROAD,
THRISSUR-680004
Phone: 2381807, 2382887

UTILISATION CERTIFICATE

Name of Institution : Kerala Federation of Obstetrics and Gynecology
Address : Kerala

Sl.No.	Sanction Letter No.	Amount
1	Memorandum of Agreement Dt.27 th September 2012	49,03,110/-
	Total	

Certified that out of Rs. 49,03,110/- Sanctioned during the year 2012 in favour of **Kerala Federation of Obstetrics and Gynecology**, under the Department Letter No. mentioned above, and Rs.77,551/-, received as Bank Interest, and Rs.1,20,000/- received from KFOG as advance,. a sum of Rs.50,39,281 /- has been utilized by the **Kerala Federation of Obstetrics and Gynecology** for the purpose of implementation of **EMERGENCY OBSTETRIC CARE AND BASIC LIFE SUPPORT (Rs.15,02,698.50 for Purchase Manikins; Rs.18,51,237.50 for Emocals Training of Doctors and a Sum of Rs.8,02,019/- for Trainers Training of Nurses Emocals and Rs.8,83,326/- for the implementation of Quality Standards Projects of KHS, NRHM, KFOG and NICE as per Government order(NRHM) 1293/M&E(QA)/2013/ SPMSU Dt.29-03-2013** and balance amount of Rs.61,380/ had been returned to KFOG as partial repayment of the advance .KFOG agreed to waive the sum of Rs.58,620/ and treat it as its contribution to the training.

Certified that I have satisfied myself that the conditions on which the amount was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilised for the purpose for which it was sanctioned. Original Voucher/records/documents are available at the central location of this institution and shall be made accessible for examination by authorities.


Kinds of checks exercised:

1. Verification of Books of account viz. Day book and Ledger
2. Supporting vouchers
3. Bank statements

Date:08-04-2015



Signature (With Name and Designation)

C. KRISHNAKUMAR & Co.
CHARTERED ACCOUNTANTS

C. KRISHNAKUMAR
CHARTERED ACCOUNTANT (ICAI)
MEMBERSHIP No: 19763
Firm No: 0049345



Planning & Review meetings on different occasions



C M releasing QS with British Health Minister



Kasaragode



Kollam



Kottayam



Thrissur



NATIONAL RURAL HEALTH MISSION, KERALA
KERALA HEALTH SERVICES
KERALA FEDERATION OF OBSTETRICS & GYNECOLOGY
NICE INTERNATIONAL