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Competency-Based LOGBOOK in Obstetrics and Gynecology for MBBS

As per the Competency-Based Medical Education Curriculum (NMC)



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Neeraj R Mahajan
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CLINICAL POSTING

Phase	*Semester*	*From (date)*	*To (date)*	*Unit*	*Concerned faculty*
II					
III Part 1					
IV Part 2					

PHASE-WISE CLASSIFICATION OF ALL PSYCHOMOTOR COMPETENCIES

IInd Year MBBS

Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
Topic: Diagnosis of pregnancy							
OG6.1	Describe, discuss and demonstrate the clinical features of pregnancy, derive and discuss its differential diagnosis, elaborate the principles underlying and interpret pregnancy tests.						
Topic: Antenatal care							
OG8.2	Elicit document and present an obstetric history including menstrual history, last menstrual period, previous obstetric history, comorbid conditions, past medical history and surgical history.						
OG8.3	Describe, demonstrate, document and perform an obstetrical examination including a general and abdominal examination and clinical monitoring of maternal and fetal well-being.						

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Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
OG8.4	Describe and demonstrate clinical monitoring of maternal and fetal well-being.						
OG8.5	Describe and demonstrate pelvic assessment in a model.						
OG8.6	Assess and counsel a patient in a simulated environment regarding appropriate nutrition in pregnancy.						
OG17.2	Counsel in a simulated environment, care of the breast, importance and the technique of breastfeeding.						
OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment.						
OG20.2	In a simulated environment administer informed consent to a person wishing to undergo medical termination of pregnancy (MTP).						
OG35.1	Obtain a logical sequence of history, and perform a humane and thorough clinical examination, excluding internal examinations (per-rectal and per-vaginal).						
OG35.3	Recognize situations, which call for urgent or early treatment at secondary and tertiary centers and make a prompt referral of such patients after giving first aid or emergency treatment.						
OG35.4	Demonstrate interpersonal and communication skills befitting a physician in order to discuss illness and its outcome with patient and family.						
OG35.5	Determine gestational age, EDD and obstetric formula.						
OG35.6	Demonstrate ethical behavior in all aspects of medical practice.						
OG35.7	Obtain informed consent for any examination/procedure.						

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Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
OG35.11	Demonstrate the correct use of appropriate universal precautions for self-protection against HIV and hepatitis and counsel patients.						
AN49.1	Describe and demonstrate the superficial and deep perineal pouch (boundaries and contents).						
AN49.2	Describe and identify perineal body.						
AN53.1	Identify and hold the bone in the anatomical position, Describe the salient features, articulations and demonstrate the attachments of muscle groups.						
AN53.2	Demonstrate anatomical position of bony pelvis and show boundaries of pelvic inlet, pelvic cavity, pelvic outlet.						
AN53.3	Define true pelvis and false pelvis and demonstrate sex determination in male and female bony pelvis.						
AN64.3	Describe various types of open neural tube defects with its embryological basis.						
PA22.2	Enumerate the indications describe the principles enumerate and demonstrate the steps of compatibility testing.						
PE18.5	Provide intranatal care and observe the conduct of a normal delivery.						
Topic: Complications in early pregnancy							
OG9.2	Describe the steps and observe/assist in the performance of an MTP evacuation.						

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IIIrd Year MBBS

Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
Topic: Diagnosis of pregnancy							
OG13.3	Observe/assist in the performance of an artificial rupture of membranes.						
OG13.4	Demonstrate the stages of normal labor in a simulated environment/mannequin and counsel on methods of safe abortion.						
OG13.5	Observe and assist the conduct of a normal vaginal delivery.						
OG19.2	Counsel in a simulated environment, contraception and puerperal sterilization.						
OG19.3	Observe/assist in the performance of tubal ligation.						
OG19.4	Enumerate the indications for, describe the steps in and insert and remove an intrauterine device in a simulated environment.						
OG31.1	Describe and discuss the etiology, classification, clinical features, diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus.						
Topic: Obstetrics and gynecological skills - I			**Number of competencies: (05)**				
OG35.2	Arrive at a logical provisional diagnosis after examination.						
OG35.8	Write a complete case record with all necessary details.						
OG35.13	Demonstrate the correct technique to perform artificial rupture of membranes in a simulated/supervised environment.						
OG35.16	Diagnose and provide emergency management of antepartum and postpartum hemorrhage in a simulated/ guided environment.						
OG35.17	Demonstrate the correct technique of urinary catheterization in a simulated/ supervised environment.						

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IVth Year MBBS

Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
Topic: Preconception counseling							
OG5.1	Describe, discuss and identify pre-existing medical disorders and discuss their management; discuss evidence-based intrapartum care.						
OG5.2	Determine maternal high risk factors and verify immunization status.						
OG13.3	Observe/assist in the performance of an artificial rupture of membranes.						
OG13.4	Demonstrate the stages of normal labor in a simulated environment/ mannequin and counsel on methods of safe abortion.						
OG13.5	Observe and assist the conduct of a normal vaginal delivery.						
OG15.2	Observe and assist in the performance of an episiotomy and demonstrate the correct suturing technique of an episiotomy in a simulated environment. Observe/ assist in operative obstetrics cases—including: CS, forceps, vacuum extraction, and breech delivery.						
OG35.10	Write a proper referral note to secondary or tertiary centers or to other physicians with all necessary details.						
OG35.15	Demonstrate the correct technique to insert and remove an IUD in a simulated/supervised environment.						

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Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
OG35.17	Demonstrate the correct technique of urinary catheterization in a simulated/supervised environment.						
OG33.3	Describe and demonstrate the screening for cervical cancer in a simulated environment.						
OG34.4	Operative Gynecology: Understand and describe the technique and complications: Dilatation and Curettage (D and C); EA-ECC; cervical biopsy; abdominal hysterectomy; myomectomy; surgery for ovarian tumours; staging laparotomy; vaginal hysterectomy including pelvic floor repair; Fothergill's operation, Laparoscopy; hysteroscopy; management of postoperative complications.						
OG36.1	Plan and institute a line of treatment, which is need based, cost effective and appropriate for common conditions taking into consideration: • Patient • Disease • Socioeconomic status • Institution/ Governmental guidelines.						
OG36.3	Demonstrate the correct technique of punch biopsy of uterus in a simulated/supervised environment.						
OG37.1	Observe and assist in the performance of a cesarean section.						
OG37.2	Observe and assist in the performance of laparotomy.						

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Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
OG37.3	Observe and assist in the performance of Hysterectomy – abdominal/vaginal.						
OG37.4	Observe and assist in the performance of dilatation and curettage (D and C).						
OG37.5	Observe and assist in the performance of endometrial aspiration-endocervical curettage (EA-ECC).						
OG37.6	Observe and assist in the performance of outlet forceps application of vacuum and breech delivery.						
OG37.7	Observe and assist in the performance of MTP in the first trimester and evacuation in incomplete abortion.						
OG35.9	Write a proper discharge summary with all relevant information.						
OG35.12	Obtain a PAP smear in a stimulated environment.						
OG35.14	Demonstrate the correct technique to perform and suture episiotomies in a simulated/supervised environment.						

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SKILL LABORATORY

IInd year MBBS							
As per the competencies given by NMC No Class to be taken in skill laboratory in this phase							
IIIrd year MBBS							
PE7.7	Perform breast examination and identify common problems during lactation such as retracted nipples, cracked nipples, breast engorgement, breast abscess.						
PE18.5	Provide intranatal care and conduct a normal delivery in a simulated environment.						
PE18.6	Perform postnatal assessment of newborn and mother, provide advice on breastfeeding, weaning and on family planning.						
IVth year MBBS							
PE32.6	Interpret normal karyotype and recognize the Turner karyotype.						
OG34.4	Operative gynecology: Understand and describe the technique and complications: Dilatation and curettage (D and C); EA-ECC; cervical biopsy; abdominal hysterectomy; myomectomy; surgery for ovarian tumors; staging laparotomy; vaginal hysterectomy including pelvic floor repair; Fothergill's operation, laparoscopy; hysteroscopy; management of postoperative complications.						

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BEDSIDE CLINICS

Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
IInd year MBBS							
OG6.1	Describe, discuss and demonstrate the clinical features of pregnancy, derive and discuss its differential diagnosis, elaborate the principles underlying and interpret pregnancy tests.						
OG8.2	Elicit document and present an obstetric history including menstrual history, last menstrual period, previous obstetric history, comorbid conditions, past medical history and surgical history.						
OG8.3	• Describe, demonstrate, document and perform an obstetrical examination including a general and abdominal examination and clinical monitoring of maternal and fetal well-being.						
	• Describe and demonstrate clinical monitoring of maternal and fetal well-being.						
OG8.6	Assess and counsel a patient in a simulated environment regarding appropriate nutrition in pregnancy.						
OG35.1	Obtain a logical sequence of history, and perform a humane and thorough clinical examination, excluding internal examinations (per-rectal and per-vaginal).						
OG35.3	Recognize situations, which call for urgent or early treatment at secondary and tertiary centers and make a prompt referral of such patients after giving first aid or emergency treatment.						
OG35.4	Demonstrate interpersonal and communication skills befitting a physician in order to discuss illness and its outcome with patient and family.						
OG35.5	Determine gestational age, EDD and obstetric formula.						

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Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
OG35.6	Demonstrate ethical behavior in all aspects of medical practice.						
OG35.7	Obtain informed consent for any examination/procedure.						
IIIrd year MBBS							
OG9.2	Describe the steps and observe/assist in the performance of an MTP evacuation.						
OG13.3	Observe/assist in the performance of an artificial rupture of membranes.						
OG35.2	Arrive at a logical provisional diagnosis after examination.						
OG5.8	Write a complete case record with all necessary details.						
PE7.7	Perform breast examination and identify common problems during lactation such as retracted nipples, cracked nipples, breast engorgement, breast abscess.						
PE18.3	Conduct antenatal examination of women independently and apply at-risk approach in antenatal care						
PE18.6	Perform postnatal assessment of newborn and mother, provide advice on breastfeeding, weaning and on family planning.						
IVth year MBBS							
	Describe, discuss and identify pre-existing medical disorders and discuss their management; discuss evidence-based intrapartum care.						
	Determine maternal high risk factors and verify immunization status.						
OG15.2	Observe and assist in the performance of an episiotomy and demonstrate the correct suturing technique of an episiotomy in a simulated environment. Observe/assist in operative obstetrics cases—including: CS, forceps, vacuum extraction, and breech delivery.						

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Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
OG35.10	Write a proper referral note to secondary or tertiary centers or to other physicians with all necessary details.						
OG36.1	Plan and institute a line of treatment, which is need based, cost effective and appropriate for common conditions taking into consideration: • Patient • Disease • Socioeconomic status • Institution/Governmental guidelines.						
OG36.3	Demonstrate the correct technique of punch biopsy of uterus in a simulated/ supervised environment.						
OG37.1	Observe and assist in the performance of a cesarean section.						
OG37.2	Observe and assist in the performance of laparotomy.						
OG37.3	Observe and assist in the performance of hysterectomy—abdominal/vaginal.						
OG37.4	Observe and assist in the performance of dilatation and curettage (D and C).						
OG37.5	Observe and assist in the performance of endometrial aspiration-endocervical curettage (EA-ECC).						
OG37.6	Observe and assist in the performance of outlet forceps application of vacuum and breech delivery.						
OG37.7	Observe and assist in the performance of MTP in the first trimester and evacuation in incomplete abortion.						
PE32.8	Interpret normal karyotype and recognize the Turner karyotype.						

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DEMONSTRATE, OBSERVE, ASSIST, PERFORM (DOAP) SESSIONS

Number of competency addressed	*Name of activity*	*Date completed dd-mm-yyyy*	*Attempt at activity First or Only (F) Repeat (R) Remedial (Re)*	*Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations*	*Decision of faculty Completed (C) Repeat (R) Remedial (Re)*	*Initial of faculty and date*	*Feedback received Initial of learner*
IInd year MBBS							
OG8.3	Describe, demonstrate, document and perform an obstetrical examination including a general and abdominal examination and clinical monitoring of maternal and fetal well-being.						
OG8.4	Describe and demonstrate clinical monitoring of maternal and fetal well-being.						
OG8.4	Describe and demonstrate pelvic assessment in a model.						
OG8.5	Assess and counsel a patient in a simulated environment regarding appropriate nutrition in pregnancy.						
OG17.2	Counsel in a simulated environment, care of the breast, importance and the technique of breastfeeding.						
OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment.						
OG20.2	In a simulated environment administer informed consent to a person wishing to undergo medical termination of pregnancy (MTP).						
OG35.11	Demonstrate the correct use of appropriate universal precautions for self-protection against HIV and hepatitis and counsel patients.						
AN49.1	Describe and demonstrate the superficial and deep perineal pouch (boundaries and contents).						
AN49.2	Describe and identify perineal body.						
AN53.1	Identify and hold the bone in the anatomical position, describe the salient features, articulations and demonstrate the attachments of muscle groups.						

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Competency-Based LOGBOOK in Obstetrics and Gynecology for MBBS

After the implementation of competency-based medical education (CBME) curriculum by the new NMC from the academic calendar 2019-20, logbook became the need of this hour. Logbook records the performance of the students in achieving those competencies longitudinally in the most transparent manner. Similarly, this logbook ensures the documentation of acquisition of knowledge, skills, ethics and attitude incorporated in a particular competency. The added advantage of this logbook is that all the competencies are classified into various phases of MBBS so that recording and verifying them becomes feasible as well as easier. In Obstetrics and Gynecology, the formative assessments begin in phase 2 MBBS while the summative assessment takes place in phase 4 MBBS. Therefore, this logbook accompanies the learning and assessment record of the student throughout the MBBS.

Salient Features

- Based on NMC logbook module, all the performance level (P) competencies are classified according to the mode in which they are to be covered viz. bedside clinics, skill labs, self- directed learning, DOAP sessions, etc.
- Separate section is provided for AETCOM competencies which are classified phase wise.
- The format is simplified in the form of tables as given according to the NMC logbook guidelines.
- All the skills are rated as per below expectation (B), meets expectation (M), exceeds expectation (E) duly attested by the faculty.
- A separate page is dedicated for the scientific contribution also so that the students remain motivated for the research activities.
- A flexible approach has been adopted by including other certifiable competencies which can be considered by the respective departments of various institutes.
- Few competencies of other subjects like pediatrics, anatomy, pathology, community medicine are also included.

Arun Gupta MS (Obstetrics and Gynecology) is Head and Senior Professor, Department of Obstetrics and Gynecology, Geetanjali Medical College and Hospital, Udaipur, Rajasthan, India. He is a leading obstetrician and gynecologist of Rajasthan. He has more than 40 years of clinical as well as undergraduate (UG) and postgraduate (PG) teaching experience. He has been a PG guide for more than 15 years. He retired as a Professor and unit head from Rabindra Nath Tagore (RNT) Medical College, Udaipur, Rajasthan, India. Long back in 80s, he had done fellowship courses in ultrasound, laparoscopy and In vitro fertilization (IVF). He has several publications in many prestigious national and international journals. He continues to be an exemplary academician, clinician and surgeon till date.

Neeraj R Mahajan MD DNB (Physiology) is an Associate Professor, Department of Physiology, Smt. NHL Municipal Medical College, Ahmedabad, Gujarat, India. He has more than 20 years of teaching experience in the subject of Physiology. Having done advanced course in medical education from CMC, Ludhiana, Punjab, India, he is a faculty in the field of medical education at NMC Nodal Centre, Ahmedabad, for more than 12 years. He has 35 publications at state, national and international level both in physiology and medical education. He has authored two books both at PG and UG level. He owns a You Tube channel and a popular mobile app "Physiology solution".

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Printed in India

Available at all medical bookstores or buy online at www.jaypeebrothers.com

JAYPEE BROTHERS
Medical Publishers (P) Ltd.
EMCA House, 23/23-B, Ansari Road,
Daryaganj, New Delhi - 110 002, INDIA
www.jaypeebrothers.com

Join us on facebook.com/JaypeeMedicalPublishers

ISBN 978-93-5465-766-5