

# INDIAN ASSOCIATION OF PREVENTIVE & SOCIAL MEDICINE

# Logbook for MBBS Students Community Medicine

A "free to use and adapt" undergraduate logbook recommendations prepared by the Core group task force and endorsed by IAPSM 2022

# IAPSM Logbook for Community Medicine

# Contributors (Core Group IAPSM Logbook)\*:

# **Conveners:**

- **Dr. Animesh Jain**, Professor, Department of Community Medicine, Dy. Coordinator, Medical Education Unit, Kasturba Medical College, Mangalore 575001, Manipal Academy of Higher Education, Manipal, Karnataka. email: animesh\_j@yahoo.com
- **Dr. Pankaj B. Shah**, Professor and head, Dept of Community Medicine, SRMC & RI, SRIHER, Chennai, Tamil Nadu. email: drpankajbshah@gmail.com

# Members:

- **Dr. Amrit Virk**, Professor & Head, Department of Community Medicine, Dr BR Ambedkar State Institute of Medical Sciences (AIMS), SAS Nagar, Mohali 160055, Punjab. email: dramritvirk@gmail.com
- **Dr. Kavita Vasudevan**, Professor & Head, Department of Community Medicine, Indira Gandhi Institute of Medical Sciences, Pondicherry. email: kavita.udayashankar@gmail.com
- **Dr. Manjunath S. N.**, Associate Professor, Department of Community Medicine, Mysore Medical College and Research Institute, Mysore 570001, Karnataka. email: drmanju.mmcri@gmail.com
- **Dr. Parul Sharma**, Professor and Head, Department of Community Medicine, GMERS Medical College, Dharpur, Patan 384265, Gujarat. email: paru\_1sharma@yahoo.co.in
- **Dr. Seema Jain**, Professor, Department of Community Medicine, Head and Coordinator, Medical Education Unit, LLRM Medical College Meerut, CCS University, Uttar Pradesh. email: drseemajain11@gmail.com

# Advisors:

- Dr. Suneela Garg, National President, IAPSM 2021 22
- Dr. Harivansh Chopra, President Elect, IAPSM
- Dr. A. M. Kadri, Secretary General, IAPSM 2019 22
- Dr. Sanjay Zodpey, Immediate Past President IAPSM

# \*In alphabetical order

#### **Community Medicine Logbook for MBBS Students**

Indian Association of Preventive and Social Medicine is pleased to present the logbook for MBBS Students as per the National Medical Commission (NMC) Competency Based Medical Education (CBME) curriculum. This logbook may be used in conjunction with the existing practical record book or exercise book. This is a basic document adhering to the principles of CBME and provides flexibility to be adapted locally by the departments and institutions. We are happy to launch this logbook to help the fraternity in the implementation of CBME curriculum.

Dr Suneela Garg National President, IAPSM

Dr A. M. Kadri Secretary General, IAPSM

Hanvonsh

Dr. Harivansh Chopra National President Elect, IAPSM

Aginmy

Dr. Sanjay Zodpey Past National President, IAPSM



#### **Professor Suneela Garg**

National President -- Indian Association of Preventive and Social Medicine

Competency are the mainstay for any professional course. Competency based medical education (CBME) curriculum recently introduced by the National Medical Commission is an important step to improve and impart quality medical education in India. The competencies need to be taught, assessed and documented progressively. In this regard, this logbook would go a long way. It will help in facilitating the horizontal and vertical integration too and the faculty would find it useful to document the progress of the students as they acquire skills and build on knowledge base. I compliment the team that has developed the logbook and I am certain that this would be useful to the fraternity across India. IAPSM has always been in the forefront to equip the professionals from the speciality with the latest knowledge and skills and this is another step in our endeavor to help and guide the faculty in Community Medicine.

Prof (Dr.) Suneela Garg

National President -- Indian Association of Preventive and Social Medicine



#### Prof (Dr.) Harivansh Chopra

President Elect - Indian Association of Preventive and Social Medicine

With the changing curriculum and the evolving teaching learning scenario, it is imperative that we adapt and upskill ourselves to the needs of the times. I am happy to note that the Indian Association of Preventive and Social Medicine (IAPSM) is launching the logbook for MBBS Students as per the National Medical Commission (NMC) Competency Based Medical Education (CBME) curriculum. I congratulate the entire core team for shaping this and bringing out a comprehensive document. I am certain that this would be helpful for the departments and faculty throughout the country and may also give ideas to other specialities too. My understanding is that the logbook will be updated in future as we go along and the faculty gain experience and expertise in implementing the CBME curriculum. I wish the faculty all the best in implementing the CBME curriculum and the use of this logbook.

Hanvonsh

Prof (Dr.) Harivansh Chopra

President Elect - Indian Association of Preventive and Social Medicine



Prof (Dr.) A. M. Kadri

Secretary General – Indian Association of Preventive and Social Medicine

I am very happy to see this logbook for MBBS Students as per the National Medical Commission (NMC) Competency Based Medical Education (CBME) curriculum. Indian Association of Preventive and Social Medicine (IAPSM) has always been evolving and involving its members in various activities and this logbook is no exception. The launch of this logbook signifies our commitment towards the members and the fraternity. While I congratulate the core team for working hard and shaping this to bring this document to fruition, my earnest appeal to all faculty is to adopt and adapt this logbook and provide feedback following its use. This logbook is a living document and will be updated in future as we receive feedback and the faculty gain experience in its use while implementing the CBME curriculum. My best wishes to entire team and the faculty of Community Medicine across the country in using this logbook to its potential.

Prof (Dr.) A. M. Kadri

Secretary General - Indian Association of Preventive and Social Medicine

#### Professor Sanjay Zodpey, MD, PhD

Immediate Past National President – Indian Association of Preventive and Social Medicine

I am extremely happy to learn that the Indian Association of Preventive and Social Medicine (IAPSM) has designed and developed the logbook for MBBS Students as per the National Medical Commission (NMC) Competency Based Medical Education (CBME) curriculum. This logbook would be complementary to the existing practical record / exercise book. I would like to congratulate IAPSM leadership and entire Editorial Team for this important initiative. I am confident that, this would be an important milestone in shaping and advancing the agenda of competency driven Community Medicine education and ultimately bring focus to transformative education. Both, institutional and instructional reforms are key to 21<sup>st</sup> century Community Medicine education and such initiatives would help us to drive that agenda more effectively.

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Professor Sanjay Zodpey

Immediate Past National President -- Indian Association of Preventive and Social Medicine

#### Preface

The competency based medical education (CBME) curriculum has introduced several changes in the medical education in India. This logbook is an attempt by the core group tasked by the IAPSM leadership to give a structure to the much-needed logbook in Community Medicine. While many members had attended the initial meeting, subsequent meetings were attended by a fewer members. Ultimately, seven faculty voluntarily came together and continued in pursuit with several rounds of meeting with leadership, brainstorming and iterative sessions and presentation of drafts with critical review of each segment. Once the draft logbook was ready, it was presented via online meeting to Dr. Suneela Garg and Dr. Harivansh Chopra. It was then shared with the leadership of IAPSM for their input and guidance. After further modification, the draft logbook was circulated via multiple social media groups and feedback and suggestions were invited within a period of 15 days with a deadline of 31<sup>st</sup> January 2022. Moreover, this logbook was also presented and discussed in the Pre-conference workshop on CBME in IAPSMCON 2022 on 27<sup>th</sup> February 2022, which had 205 participants registered. Thus after multiple rounds of iterations and review, the final logbook is being presented.

This logbook is intended to record all the skills in the SH domain that the CBME document details for Community Medicine and the core group felt that this was a good start and can be expanded as we go along and the faculty get more experienced over next 3-5 years. The user departments/institution/university may add further competencies/skills/activities as may be necessary. Further, an electronic version to document these as we progress, may make it much easier to record and retrieve. The core group would like to place on record its gratitude to Dr. Suneela Garg, Dr. Harivansh Chopra, Dr. A M Kadri and Dr. Sanjay Zodpey for giving us this opportunity and to all the members who reviewed and went through the logbook and conveyed feedback and appreciation. We also would like to share that this has been a team effort and the contribution from everyone has been phenomenal. We sincerely hope that this logbook would be useful in addressing the needs of the departments of Community Medicine across the country in implementing the CBME curriculum more effectively.

Amrit, Animesh, Kavita, Manjunath,
 Pankaj, Parul & Seema
 Core Group IAPSM Logbook (March 2022)



### About the logbook and guidelines for its use:

- 1. This logbook has been prepared as per NMC's CBME guidelines by the Core group IAPSM CBME Logbook.
- 2. The format is variable and there is difference in structure for each competency owing to the diversity in the nature of competencies.
- 3. The different formats are given for each competency so that Faculty in a particular department may decide to adapt and use a single format for all competencies or multiple formats for each competency.
- 4. The logbook has intentionally avoided using a common format so that a variety and types of the format are available for use by faculty & departments.
- 5. This logbook is available for use by everyone and all institutions across the country as IAPSM Logbook for Community Medicine CBME Curriculum. Institutions and departments may use it with or without modification but with due acknowledgement and credit.
- 6. The intention of the core working group was to develop the IAPSM logbook as per NMC guidelines and in no way it is intended to replace the workbook or record book or theory information competency book which may be in use at various institutions.
- 7. The Core working group believes that the logbook should be easily adaptable by the departments and institutions with great ease to move CBME forward in the initial stages.
- 8. This logbook is a living document, which will be under the copyright of IAPSM, and it may be updated as faculty of Community Medicine gets more experience of CBME.
- 9. The draft logbook was circulated for 15 days until 31<sup>st</sup> January 2022 using various platforms for comments and suggestions. All feedback received was reviewed and constructive suggestions for improvement of the logbook have been incorporated.
- 10. The user departments/institution/university may add further competencies/skills/activities as may be necessary.
- 11. The core-group also feels that few of these skills may be made as certifiable skills for MBBS course at department/institutional level.



College/ Institution/ University Logo

# Logbook for MBBS Students Community Medicine

Name of student: Registration No.: Name of College:

#### **Student Particulars**

Name of the student:

Name of College:

Date of admission to MBBS Course:

Date (at least MM/YY) of beginning of the current Phase:

**Reg: No. (College ID):** 

**Reg. No. (University ID)** 

**Permanent Address:** 

**E** mail **ID**: (optional)

Phone No. (Optional):

# LOGBOOK CERTIFICATE

He/She is/is not eligible to appear for the summative (University) assessment as on the date give below.

Signature of Faculty

Name and Designation

Signature and Seal

Head of Community Medicine Department

Date:

**Principal/Dean** 

Description and particulars	Signature of Faculty		
Attendance (percentage)	Theory	Practical/Clinical	Faculty
PY 1			
PY 2			
PY 3			
Overall attendance			
	Expected	Actual completed	
Family study	2		
Clinico-social Case	6		
Seminar	2		
Small group discussion overall assessment			
Self-Directed Learning overall assessment			
Field Visit			
AETCOM (Overall grade B/M/E)			
Research undertaken			
Elective in Community Medicine (if any)			
All 18 SH Competencies Completed (Grade: M/E)			
Non-Core Ac	tivities		
Co - Curricular Activities			
(Quiz, Poster, Debate, Essay, Skits, Model WHO)			
Participation/Volunteering in dept activities (no.)			
CME/ Workshop attended (no.)			
Conference attended (no.)			
Prizes/Awards/Outstanding achievement (number)			
Overall assessment of student			

# Summary of students' activities and achievements

Signature of Faculty

Signature of Head of Department

# Competencies addressed:

Sl.	Competency	Competency Statement	Page No.
No.	no.		
1	CM1.9	Demonstrate the role of effective Communication skills in health in a simulated environment	13
2	CM1.10	Demonstrate the important aspects of the doctor patient relationship in a simulated environment	15
3	CM2.1	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community	17
4	CM2.2	Describe the socio-cultural factors, family (types), its role in health and disease & demonstrate in a simulated environment the correct assessment of socio-economic status	21
5	CM2.3	Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior	22
6	CM3.7	Identify and describe the identifying features and life cycles of vectors of Public Health importance and their control measures	30
7	CM4.3	Demonstrate and describe the steps in evaluation of health promotion and education program	32
8	CM5.2	Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method	35
9	CM5.4	Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status, etc in a simulated environment	35
10	CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	42
11	CM6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs	42
12	CM6.4	Enumerate, discuss and demonstrate Common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion	42
13	CM7.4	Define, calculate and interpret morbidity and mortality indicators based on given set of data	49

14	CM7.6	Enumerate and evaluate the need of screening tests	53
15	CM7.7	Describe and demonstrate the steps in the Investigation of an epidemic of communicable disease and describe the principles of control measures	54
16	CM7.9	Describe and demonstrate the application of computers inepidemiology	58
17	CM8.6	Educate and train health workers in disease surveillance, control & treatment and health education	62
18	CM9.2	Define, calculate and interpret demographic indices including birthrate, death rate, fertility rates	66

\* Only the SH competencies from NMC guidelines have been selected for the skills.

Competency no.	Date completed	Grade (M or E)	Signature of Faculty
СМ1.9			
CM1.10			
CM2.1			
CM2.2			
CM2.3			
CM3.7			
CM4.3			
CM5.2			
CM5.4			
СМ6.2			
СМ6.3			
СМ6.4			
СМ7.4			
СМ7.6			
CM7.7			
СМ7.9			
CM8.6			
СМ9.2			

# Competency attainment log – at a glance

### CM 1.9 Demonstrate the role of effective communication skills in health in a simulated environment

#### Learning Objectives;

1. Demonstrate ability to communicate adequately, sensitively, effectively and respectfully with patients, colleagues, families and community so as to improve patient satisfaction and health care outcomes in a simulated environment.

No.	Phase of	T/L methods	Level to be attained	Assessment method
	teaching			
1.	Phase-I	SGT using Standardised patient/ Simulated scenarios	SH	<ul> <li>Active participation of students in the sessions.</li> <li>OSCE</li> <li>Student reflections of the simulated situations discussed</li> </ul>

#### **Student Reflections/ Written Critique**

S. No.	Setting:
	Date:
Simulated Sce	nario: Illustrative examples for scenarios - Counselling for family planning; Breastfeeding advice to a postnatal mother; Doctor advising
the patient's far	mily regarding nutrition and balanced diet etc. The department may develop their own scenarios and use for this session.

What happened?	
How was it handled?	
What was the outcome?	
Faculty Feedback:	
Grade:	Faculty's Signature with date

### CM 1.10 Demonstrate the important aspects of doctor-patient relationship in a simulated environment.

#### Learning Objectives:

1. Demonstrate ability to establish professional relationships with patients and families that are positive, understanding, humane, ethical, empathetic, and trustworthy.

No.	Phase of	T/L methods	Level to be attained	Assessment method
	teaching			
1.	Phase -I	SGT using Standardised patient/ Simulated scenarios	SH	<ul> <li>Active participation of students in the sessions.</li> <li>OSCE</li> <li>Student reflections of the simulated situations discussed</li> </ul>

#### **Student Reflections/ Written Critique**

S. No.	Setting:
	Date:
Simulated Sce	enario:

What happened?			
<b></b>			
How was it handled?			
What was the outcome?			
Feedback			
Grade:			Faculty's Signature with date
Grade A: Above Expectation	Grade B: Meets Expectation	Grade C: Below Expectation	

#### CM2.1 Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community.

Milestone I: I MBBS foundation course

Session I: At the end of the session the students should be able to- I MBBS foundation session for one hour in small groups before visit to RHTC & UHTC 9 am-10 am

- 1. Define clinical assessment of an individual, family and community.
- 2. Describe the steps in involved clinical assessment of an individual, family and community.
- 3. Define socio cultural assessment of an individual, family and community.
- 4. Describe the steps in involved socio cultural of an individual, family and community.
- 5. Define demographic assessment of an individual, family and community.
- 6. Describe the steps in involved demographic assessment of an individual, family and community.

#### Level: K & KH

#### Assessment : FA

**Session II**: At the end of the session the students should be able to- I MBBS foundation session for one hour in small groups before visit to RHTC & UHTC 11-12 noon (1 hour excluded In the travelling time) (in very preliminary stage or way under faculty supervision)

- 1. Perform clinical assessment of an individual, family and community.
- 2. Perform socio cultural assessment of an individual, family and community.
- **3.** Perform demographic assessment of an individual, family and community.
- 4. Presentation in groups clinico socio-cultural and demographic assessment of the individual, family and community

Level : S & SH

#### Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Paradial (Pa)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E)	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

Assessment : FA during foundation course

#### Milestone 2: I MBBS ECE

At the end of the session the students should be able to- I MBBS ECE session for one hour in small groups before visit to RHTC & UHTC 10-12 noon (1 hour excluded In the travelling time) (in very preliminary stage to higher level under faculty supervision )

- **1.** Perform clinical assessment of an individual, family and community.
- 2. Perform socio cultural assessment of an individual, family and community.
- **3.** Perform demographic assessment of an individual, family and community.
- 4. Presentation in groups clinico socio-cultural and demographic assessment of the individual, family and community

Level : S & SH

#### Logbook entry:

Competency	Name	Date	Attempt at	Rating – Below	Decision of faculty –	Initial of	Feedback
no.	of	completed	activity First or	expectations (B), Meets	Completed (C), Repeat	faculty and	received
	activity		Only (F),	expectations (M),	(R), Remedial (Re)	date	Initial of
			Repeat (R),	Exceeds expectations (E)			learner
			Remedial (Re)	<b>OR Numerical Score</b>			

Assessment : FA during ECE

#### Milestone 3: II MBBS clinical posting

At the end of the session the students should be able to- II MBBS clinical posting (three times at field level during the duration of 4 weeks of clinical posting) for two hour in small groups before visit to RHTC & UHTC 10-12 noon (1 hour excluded In the travelling time) (in very higher level to advanced level under faculty supervision)

- 1. Perform clinical assessment of an individual, family and community.
- 2. Perform socio cultural assessment of an individual, family and community.
- **3.** Perform demographic assessment of an individual, family and community.
- 4. Presentation in groups clinico socio-cultural and demographic assessment of the individual, family and community

Level : S & SH Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Remedial (Re)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E) OR Numerical Score	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

**Assessment :** FA during clinical posting (last day or assessment same day on the session). In addition, many aspects may be assessed during case presentation and family study presentation at various other occasions during clinical posting.

#### Milestone 4: III MBBS clinical posting

At the end of the session the students should be able to- III MBBS clinical posting ( three times at field level during the duration of 4 weeks of clinical posting) for two hour in small groups before visit to RHTC & UHTC 10-12 noon (1 hour excluded In the travelling time) (in very higher level to advanced level under faculty supervision)

- 1. Perform clinical assessment of an individual, family and community.
- 2. Perform socio cultural assessment of an individual, family and community.
- **3.** Perform demographic assessment of an individual, family and community.
- 4. Presentation in groups clinico socio-cultural and demographic assessment of the individual, family and community

#### Level : S & SH Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Remedial (Re)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E) OR Numerical Score	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

**Assessment** : FA during clinical posting (last day or assessment same day on the session). In addition, many aspects may be assessed during case presentation and family study presentation at various other occasions during clinical posting.

CM 2.2: Describe the socio-cultural factors, family (types)	, its role in health and disease	& demonstrate in a simulated	environment the
correct assessment of socio-economic status			

	Competency	SLOs	Domain	Level	Core	T/L Method	Assessment
		A second phase student should	K/S/A/C	K/KH/	Y/N		
		be able to:		SH/P			
CM 2.2: Desc socio facto (type in h disea demo a envin corre asses socio statu	Describe the socio-cultural factors, family	1. Define family and it's types with their characteristics	K	К	Y	Small group discussion, Family Study	Written / Viva voce
	in health and disease & demonstrate in a simulated environment the correct assessment of	<ol> <li>To know the role of family in Health and Disease</li> </ol>	K	К	Y	Small group discussion, Family Study, clinico-social case presentation	Written / Viva voce
	socio-economic status	3. To Describe the socio- cultural factors in Health and Disease	К	КН	Y	Small group discussion, Family Study, clinico-social case presentation	Written / Viva voce/Family Study/clinico- social case presentation
		4. Define Social class and it's determinants	К	К	Y	Family Study, clinico-social case presentation	Written / Viva voce/Family Study

		5. Describe the different types of socio-economic classification with their merits and demerits	K	КН	Y	Family Study, clinico-social case presentation	Viva voce/Family Study/ clinico- social case presentation
		6. Demonstrate with accuracy the assessment of socio- economic status in a simulated environment.	S	SH	Y	Family Study, clinico-social case presentation	Skill assessment, OSPE, family study, clinico- social case presentation
CM 2.3	Describe and demonstrate in a simulated environment the assessment of	1.Describe the good health practices in the family with respect to physical, biological and pschycosocial environment.	K	КН	Y	Lecture, Small group discussion, DOAP session.	Written / Viva voce/ Clinico- social case presentation
	barriers to good health and health seeking behavior	2.To understand the health seeking behavior of the family	К	КН	Y	Family study, PBL, Clinico- social case presentation	Clinico-social case presentation
		3.To assess the barriers to good health practices	К	КН	Y	Family study,PBL,Cl inico-social case presentation	Clinico-social case presentation
		4. To assess the barriers to health seeking behaviour	K	КН	Y	Family study,PBL,Cl inico-social case presentation	Clinico-social case presentation

#### **Rubric for Small group Discussion**

Score	Criteria for assessment
5	Is a proactive participant showing a balance between listening, initiating, and focusing discussion. Displays a proactive use of the whole range
	of discussion skills to keep discussion going and to involve everyone in the group. Understands the purpose of the discussion and keeps the
	discussion focused and on topic. Applies skills with confidence, showing leadership and sensitivity.
4	Is an active participant showing a balance between listening, initiating, and focusing discussion. Demonstrates all the elements of discussion
	skills but uses them less frequently and with less confidence than the above level. Keeps the discussion going but more as a supporter than a
	leader. Tries to involve everyone in the group. Demonstrates many skills but lacks the confidence to pursue them so that the group takes longer
	than necessary to reach consensus. Demonstrates a positive approach but is more focused on getting done than on having a positive discussion.
3	Is an active listener but defers easily to others and lacks confidence to pursue personal point of view even when it is right. Participates but
	doesn't use skills such as summarizing and clarifying often enough to show confidence. Limits discussion skills to asking questions,
	summarizing, and staying on topic. Lacks balance between discussion and analytical skills. Either displays good analysis skills and poor
	discussion skills or good discussion skills and poor analysis skills.
2	Is an active listener but defers easily to others and tends not pursue personal point of view, lacking confidence. Limits discussion skills to
	asking questions, summarizing, and staying on topic. Rarely demonstrates analysis skills because doesn't understand the purpose of the
	discussion, and as a result, offers little evidence to support any point of view.
1	Demonstrates no participation or effort. Participates only when prompted by the teacher. Only responds to others and initiates nothing.
	Provides limited responses that are often off topic. Participates minimally so that it is impossible to assess analysis skills or understanding of
	the issues.

1 to 3 =Below Expectations; 4=Meets Expectations; 5=Above Expectations

#### Assessment Tool/Rubric for Clinico-social case presentation

**<u>Ref:</u>** Gohel M, Singh US, Bhanderi D, Phatak A. Developing and pilot testing of a tool for "clinicosocial case study" assessment of community medicine residents. Educ Health 2016;29:68-74 (Gohel M, Singh US, Bhanderi D, Phatak A. Developing and pilot testing of a tool for "clinicosocial case study" assessment of community medicine residents. Educ Health 2016;29:68-74)

Unsatisfactory=Below Expectations, Satisfactory=Meets Expectations, Superior=Above Expectations

CM2.2 Describe the socio-cultural factors, family (types), its role in health and disease & demonstrate in a simulated environment the correct assessment of socio-economic status

CM2.3 Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior

Competency # addressed	Name of Activity	Date completed	AttemptatactivityFirst or Only (F)Repeat(R)Remedial (Re)	RatingBelow(B)expectationsMeets(M)expectationsExceeds(E)expectations	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

**Clinico-social Case Presentation** 

CM2.2 Describe the socio-cultural factors, family (types), its role in health and disease & demonstrate in a simulated environment the correct assessment of socio-economic status

CM2.3 Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior

			Attempt at	Rating	Decision of faculty		
Competency	Name of	Date	activity	<b>Below (B) expectations</b>	Completed (C)	Initial of	Feedback
# addressed	Activity	completed	First or Only (F)	Meets (M)	Repeat (R)	faculty	received
			Repeat (R)	expectations Exceeds	Remedial (Re)	and date	Initial of
			Remedial (Re)	(E) expectations			learner

<b>Reflection on Family Vi</b>	sits	
Name of Session:		
Name of the Faculty Me	mber/Presenter:	
Date:	Time:	<b>Duration:</b>
Specific Learning Object	tives of the session	
1.		
2.		
3.		

**Reflection on Teaching Learning Methods** 

• What Happened?

• So What?

• What Next?

**Signature of Faculty** 

<b>Reflection on</b>	Clinico	social o	case F	Presentation
<b>Reflection on</b>	Clinico	social o	case F	Presentation

Name of Session:

Name of the Faculty Member/Presenter:

Date: Time: Du

**Duration:** 

Specific Learning Objectives of the session

- 1.
- -
- 2.
- 3.

**Reflection on Teaching Learning Methods** 

• What Happened?

• So What?

• What Next?

Signature of Faculty

#### CM 3.7 Identify and describe the identifying features and life cycles of vectors of Public Health importance and their control

#### measures

#### **Specific Learning Objectives**

- 1. List vectors of public health importance
- 2. Identify different vectors of public health importance
- 3. Describe lifecycle of vectors of public health importance
- 4. Describe control measures of different vectors of public health importance

Suggested time: 2-3 hours. Practicals or Postings.

#### Faculty guide

Teaching to be done during the practical classes and student may be allowed to learn and practice identification of vectors and their characteristics. Formative assessment may be scheduled on rotation at the end of the posting or teaching block.

#### Formative Assessment (Criteria for grading)

Exceeds Expectations	Meets expectations	Below expectations
The student is able to identify the given	The student is able to identify the vector and describe at	The student is not able to
vector supported by all the characteristic	least two characteristic microscopic identification	identify the vector under
identification features of the vector, and draw	features of the vector and at least one public health	the microscope and unable
representative diagram. The student can also	importance. The student should be able to list at least	to correctly suggest the
describe the public health importance and list	one important prevention and control measure against	identification features
all the control measures.	the vector or disease transmitted.	and/or control measures.
The student is able to correctly identify all	Additionally, the student MUST be able to correctly	
(100 percent) the vectors among the	identify <b>80 percent</b> of the vectors among the displayed	
displayed slides (at least 10 to be displayed).	slides (at least 10 to be displayed).	

### Summative assessment (Criteria for grading)

Exceeds Expectations	Meets Expectations	Below Expectations
The student is able to correctly identify at	The student is able to correctly identify 60	The student is able to correctly identify less
least 80 percent of the vectors among the	percent of the vectors among the displayed	than 60 percent of the vectors among the
displayed slides (at least 5 to be displayed)	slides (at least 5 to be displayed) with reasons.	displayed slides (at least 5 to be displayed).
with supporting reasons.		

Grade: E/M/B

**<u>Note</u>**: The FA criteria is more stringent to train the student well.

Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F),	Rating – Below expectations (B), Meets expectations (M),	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of
			Repeat (R), Remedial (Re)	Exceeds expectations (E) OR Numerical Score			learner
# CM 4.3 Demonstrate and describe the steps in evaluation of health promotion and education program

Professional Year 3; Professional Year 2 may also be the time to introduce the concept (as the department decides)

Suggested time/no. of hours: 3 to 4 hours (min)

#### **Specific Learning Objectives**

At the end of the session, the student shall be able to

- 1. describe the steps in evaluation of health promotion and education program
- 2. demonstrate the evaluation of health promotion and education programme in a given scenario/simulated environment
- 3. Analyse and provide feedback/comments on the health promotion and education programme in a given scenario/simulated environment

#### Faculty guide for session

The student may be taught about health education and involved in health promotion and education activities during field visits, postings as well as clinico-social case taking. Faculty may specifically ask students to counsel or advise/educate the patient/family during the clinic-social or family study and observe them while they do so.

**TL Method** – A mix of methods including field visits, demonstration, role play, SGT with video of health education. *SDL may also be considered*.

For assessment - A session with pre-recorded health education session or a video may be used and played while the student is made to

assess health promotion and education activity demonstrated based on the following

- a. Amount of information provided Adequate/Inadequate
- b. Sequence of topics/content Logical and appropriate/Not logical or appropriate
- c. Creativity and Uniqueness of delivery Creative/Not creative or unique
- d. Terminology and language used Simple language without the jargon/Difficult for common person and/or jargon used
- e. Quality of information Good/Poor
- f. Impact assessment Whether the education made an impact on the recipient? (An immediate effect as judged by reaction).

# **Rubric for assessment**

Exceeds Expectations	Meets expectations	Below expectations
The student analyses and describes the session	The student provides	The student is not able to provide a coherent and
based on all the parameters that includes	assessment of the health	appropriate assessment of the health promotion
analysis of all the six elements mentioned	promotion and education	and education session.
above. S/he provides inputs regarding the	session and <i>includes</i>	
quality and amount of information provided in	analysis of at least 4 of	
the session, comments on creativity,	the 6 elements mentioned	
elaborates on the sequence of the topics while	above. The student	
delivery of content and provides feedback	provides adequate	
regarding the terminology used. The student	analysis and feedback on	
also checks for and provides points to	the amount and quality of	
substantiate the impact of the health education	the content delivered.	
on the audience.		

To be certified as competent, at the least the student must meet expectations in two out of three assessments.

# Logbook Entry

1	2	3	4	5	6	7	8	9
Sl.	Name of Activity	Date	Method or	Attempt	Rating Below	Decision of	Initial	Feedback
no &		completed:	process of	at activity	(B)	faculty	of	Received
No.		dd-mm-	Assessment/	First or	expectations		faculty	
Of		уууу	documentation	Only (F)		Completed	and	Initial of
times			/ certification	Repeat (R)	Meets (M)	(C)	date	learner
				Remedial	expectations	Repeat (R)		
				(Re)	Exceeds (E)	Remedial		
					expectations	(Re)		
					OR			
					Numerical			
					score			
1	Analyse and provide							
2	feedback/comments on the							
3	health promotion and							
4	education programme in a							
5	given scenario/simulated							
	environment							

CM5.2 Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method

CM5.4 Plan and recommend a suitable diet for the individuals and families based on local availability of food and economic status etc in a simulated environment.

Nutrition: PY 1 & PY 2 = 8 hrs + 8 hrs, PY 3 = 4 hrs in revision (Total 20 hrs) can be divided in LGDs & SGDs

Faculty Guide-Year wise Distribution of Topics according to Competencies, Total Duration, SLO wise T/L methods and Assessment methods

S.no	Competency	SLOs	Phase	Session	Level	Core	T/L	Assessme	Integration
•			/Prof	type	K/KH	Y/N	Method	nt method	
					/SH/P				
					to be				
					attain				
					ed				
(5.2)	Describe and	Describe about balanced diet, macro and micro	Ι	Lecture	K/KH	Y	Lecture,	LQ,SAQ,	Biochemistry
$1^{st}$	demonstrate the	nutrients.					sgds field	MCQ,	Horizontal
prof	correct method of						study	Viva	
and	performing a						demo-cp		
$2^{nd}$	nutritional	Describe about role of nutrients in health and	II	Lecture	K/KH	Y	DO ", case	-Do-,	Physiology/
Prof	assessment of	prevention of disease					CLINICS,	Presentati	н
	individuals,							on	11
	families and the								
	community by	Describe about common nutritional problems in	II	Practica	K/KH	V	Family	Long case	Medicine
	using the	Children Pregnant and High-risk groups	11	1	К/КП /S/SH	1	study	short	Wiedleffie
	appropriate	(DM HTN Obesity)		1	/5/511		cases	Cases	,OBG . Paeds
	method						raviaus	ospe	Vertical
							1011018	,0spe	
								,cinical	
								vivo	
								viva	

	Knows/Describe about Dietary Requirements of	II or		SH/P		Lecture	Viva ,	
	nutrients for different individuals at various stages	Final-	Practica			demo , sdl	short	
	of life	Part I	1				notes,	
							clinics	
							judgement	
	Describe about various methods of nutritional	II	Practica	SH/P	Y	MINI	Portfolios,	
	assessment.		1			CEE		
						SGD S		
-	Knows about using appropriate methods for	Final	Practica	SH/P	Y	Family	CRs,	
	identified individuals of different ages and body		1			VISIT,	Focused	
	structure in families.					sccase.	observation	
						DOAP	and	
							evaluation	
	Knows/Shows about community diagnosis of	II	Practica	SH/P	Ν	DOAP for	Case logs,	Medicine
	common nutritional problems.		1			all	case based	
						measurem	discussion	
						ents	checklist	
							evaluation	
							in clinical	
							posting	
	Shows/Describe Anthropometric measurement	II	Practica	SH/P	Y			
	used to assess nutritional status of community,		1					
	family and individual							
	Shows how to measure Various Anthropometric	Final	Practica					
	measurements such as Birth weight, BMI, MUAC,		1					
	Crown to heel length, height							
	Knows/shows clinical assessment of kwashiorkor	Final	Practica					
	and marasmus, Stunting, Wasting		1					

• Activity maybe selected based on the resources and manpower available in the department. All activities mentioned here are not compulsory

• Date of completion can be either the date of that specific activity. For eg. Date of OSCE exam. It can also be the date of end of the postings/ survey. The department can decide prior.

S.no	Competency	Specific learning Objective	Phase /Prof	Session	Lev	Core	T/L	Assessment	Integration
•				type	el	Y/N	method	method	
					K/K				
					H/S				
	51 1	~			H/P		<u></u>		
5.4	Plan and	Knows/Describe about Home	II/ final prof part I/	Practical	SH/	Y	Clinical	Viva	
	recommend a	available TOOLS to measure or	foundation course	/FC			Teaching		
	suitable diet for	assess diet and food							
	the individuals	Knows/Describe about role and	II/ final prof part I/	Practical	K	Y	Do	Viva	
	and families	availability of seasonal fruits and	foundation course	/FC					
	based on local	vegetables							
	availability of	Knows/Describe about cost-	II/ final prof part I/	Practical	K	N			
	food and	effective cheap nutritional therapy	foundation course	/FC					
	economic status	and remedies.					<u></u>	0.007 0	
	etc in a simulated	Knows to communicate about food	II/ final prof part I/	AETCOM	SH/	Y	Clinical	OSCE, Case	
	environment.	preferences and counsel for diet in	foundation course	classes/FC	Р		posting ,	Review	
		a simulated environment					SDGs, Role		
							play		
		Knows/describe the local	II/ final prof part I/	Lecture/pr	K				
		availability of food depending on	foundation course	actical					
		the socio-economic status							
		Knows how to find out the	II/ final prof part I/	Practical	K				
		consumption unit of individual as	foundation course	/lecture					
		well as of the family							
		Knows about the energy	II/ final prof part I/	Practical	K				
		consumption in various physical	foundation course	/lecture					
		activities in various types of							
		workers							
		Knows/shows how to use food	II/ final prof part I/	Practical/l	K				
		tables	foundation course	ecture					

Shows how to make Diet chart	II/ final prof part I/	Practical/l	SH		
with commonly used food items in	foundation course	ecture			
the community					
Shows how to make a diet plan	II/ final prof part I/	Practical/l	SH		
according to food intake and	foundation course	ecture			
energy expenditure.					

# • In Practical, participation in group may be graded as

Above expectations	Meets expectations	Below expectations
Took active part in the group activity on his	Took active part in the group activity with	Hardly took part in the group activity in
own.	some encouragement from peers and tutors	spite of being instructed by the tutor

S. No.	Competency Adressed	Name of Activity/ SLOs	Date Compl eted	Attempt at activity first or Only(F)/ Repeat( R)/ Remedia l (Re)	Rating Below expectatio ns (B)/ Meets expectatio ns (M)/ Exceeds Expectati ons (E) / Overall Score (Out of 5)	Decision of Faculty Complet ed (C)/ Repeat (R)/ Remedia l(Re)	Initials of Faculty and Date
1.	Describe a	ndKnows/Describe about balanced diet, macro and micro nutrients.					
	correct method performing nutritional assessment individuals, families and community	<ul> <li>Knows/Describe about role of nutrients in health and prevention of disease</li> <li>Knows/Describe about common nutritional problems in Children, Pregnant and High-risk groups (DM,HTN, Obesity)</li> <li>Knows/Describe about Dietary Requirements of different individuals at various stages of life</li> <li>Knows/Shows about various methods of nutritional assessment.</li> </ul>					
	using	he Knows/Shows about using appropriate methods for identified and					
	method	Knows/Shows about community diagnosis of common nutritional problems.					
		Shows/Describe Anthropometric measurement used to assess nutritional status of community, family and individual					
		Shows how to measure Various Anthropometric measurements such as Birth weight, BMI, MUAC, Crown to heel length, height					
		Knows/shows clinical assessment of kwashiorkor and marasmus, Stunting, Wasting					

2.	Plan and	Knows/Describe about Home available methods			
	recommend a				
	suitable diet for				
	the individuals	Knows/Describe about role of seasonal fruits and vegetables			
	and families				
	based on local	Knows/Describe about cost-effective cheap nutritional therapy			
	availability of	The way beserve about cost encentre encup nutritional inerapy			
	food and	and remedies.			
	economic status	Knows about the various socio economic classification used in			
	simulated	both urban and rural			
	environment.				
		Knows/describe the local availability of food depending on the			
		socio-economic status			
		Knows how to find out the consumption unit of individual as well			
		as of the family			
		Knows about the energy consumption in various physical			
		activities in various types of workers			
		Knows/shows how to use food tables			
		Shows how to make Diet chart with commonly used food items in			
		the community			
		Shows how to make a diet plan according to food intake and			
		energy expenditure.			

#### Nutritional detail assessment:

### **To Be Filled By Students**

1. Please describe briefly what was discussed OR details of activity/assignment/assessment:

2. What did you learn from the discussion OR the activity/ assignment/ assessment:

3. Do you feel that the knowledge you have acquired will help you become a better doctor? Please explain in your own word

CM6.2 Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data

CM6.3 Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs

CM6.4 Enumerate, discuss and demonstrate Common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion

#### Learning objectives:

At the end of the session, the learner should be able to

- 1. Describe the various types of data and scales of measurement
- 2. Discuss the various methods of data collection, merits and demerits of each method and errors in data collection
- 3. Describe Common samplingtechniques and their application
- 4. Calculate sample size for a cross-sectional study
- 5. Calculate and interpret the measures of central tendency and dispersion
- 6. Describe tests of significance
- 7. Choose an appropriate test of significance for a given data from different study designs
- 8. Perform tests of significance and interpret the results t-test, chi-square test and correlation
- 9. Analyse and interpret a given data set
- 10. Present the results of the analysis using appropriate tables and charts
- 11. Develop charts and graphs using MS excel for the given data set

# Faculty-guide

Learning	Learning objective	Phase of	Session	T/L method	Level to	Assessment	Remarks
objective		teaching	type		be	method	
No.					attained		
1	a. Describe the various types of data and scales of measurement	II	Practicals	Lecture/ SGT	КН	Written exam- MCQ/SAQ	
2	<ul> <li>a. Discuss the various sources of data; methods of data collection, merits and demerits of each method; errors in data collection</li> <li>b. Collect data during a village survey/ project</li> </ul>	II II/ III	Practicals	Lecture/ SGT	КН SH	Written exam- MCQ/SAQ Participation in the survey	When survey is not possible, data collection and analysis from records/ reports can be attempted, tools like google forms etc can also be used, so that learners actually perform data collection
3	<ul> <li>a. Describe the various sampling techniques- probability &amp; non-probability</li> <li>b. Choose a specific sampling technique for a given scenario</li> <li>c. Demonstrate by using of a sampling technique during village survey</li> </ul>	II II/ III	Practicals Clinical postings	Lecture with demonstration / SGT with demonstration	KH SH SH	Written exam- MCQ/SAQ OSCE Participation/ EOP-OSCE	
4	a. Calculate sample size for a descriptive cross-sectional study	II	Practicals	Lecture or SGT with demonstration	SH	OSCE	Demonstrate using software like open- epi

5	a. Describe the various measures of central tendency and	II	Practicals	Lecture with demonstration	КН	Written exam- MCQ/SAQ	Use examples from published journal
	dispersion			/ SGT with	SH	EOP-OSCE	articles to explain and
	b. Calculate the measures of			demonstration	CII	66	interpret measures of
	central tendency		Clinical		бн	66	central tendency &
	c. Interpret the measures of central	11/ 111			CII	"	dispersion
	d Calculate the mansures of		postings		ы		
	dispersion				SН	"	
	e Interpret the measures of				KH	Written exam-	
	dispersion					MCO/SAO	
	f. Describe the characteristics of a						
	normal distribution						
6	a. Distinguish between descriptive	II	Practicals	Lecture with	KH	Written exam-	Use examples from
	and analytical statistics			demonstration		MCQ/SAQ	published journal
	b. Describe null hypothesis and			/ SGT with			articles to explain and
	alternate hypothesis			demonstration	KH		interpret hypothesis
	c. Distinguish between clinical and						testing and p value
	statistical significance				КН		
	d. Describe p-value and its				1/11		
	significance				КН		
	e. Distinguish between parametric				VU		
	their assumptions				K11		
	f Enlist the various tests of				кн		
	significance				1111		
	g. Describe power, type I and type				КН		
	II errors						
7	a. Choose an appropriate test of	II/ III	Practicals	Lecture/ SGT	SH	OSCE	Use published
	significance for a given data						journal articles to
	from different study designs						demonstrate choice

							of tests of significance
8	<ul> <li>a. Perform a student t test for paired and unpaired data (manually/ using a software) for a given data set</li> <li>b. Perform a chi-square test (manually/ using a software) for</li> </ul>	II/III	Practicals	Lecture/ SGT	SH SH	OSCE	Use published journal articles to interpret findings of tests of significance Combine with competency 7.9
	a given data set				SH		competency 7.5
	<ul><li>d. Interpret the findings of a test of significance</li></ul>				SH		
9	a. Analyse and interpret a given data set	II	Practicals	Demonstration	SH	OSCE presentation	Combine with competency 7.9
	<ul> <li>b. Interpret data during a village survey/ project</li> </ul>	II/ III	Clinical postings		SH	Participation in group activity	competency (1)
10	<ul> <li>a. Describe the components of a Table</li> <li>b. Present the results of the analysis using appropriate tables</li> <li>c. Describe the various graphs and pictures used for representation of data</li> <li>d. Present the results of the</li> </ul>	II II/ III	Practicals	Lecture Demonstration Lecture Demonstration	KH SH	OSCE	Combine with competency 7.9
	<ul> <li>analysis using charts and pictures (Manually)</li> <li>Present data collected during a village survey/ project</li> </ul>		Clinical postings	Seminar		Participation in group activity	
11	a. Prepare charts and graphs using MS excel for the given data set	II II/ III	Practicals	Demonstration	SH SH	OSCE Participation in group activity,	Combine with competency 7.9

b. Prepare charts for data collected	Clinical	response station	
during a village survey/ project	postings	OSCE	

- Activity may be selected based on the resources and manpower available in the department. All activities mentioned here are not compulsory
- Date of completion can be either the date of that specific activity. For eg. Date of OSCE exam. It can also be the date of end of the postings/ survey. The department can decide prior.
- Demonstration of data analysis using MS excel or other freely available softwares can be done. We can use Peytons four step approach
- Station OSCE (unobserved or observed station) for the same can be prepared such that the student does the analysis/ visual representation and interpretation of a given data set either manually with a calculator/ graph sheets or using a computer/ software.
- Checklist for OSCE can be prepared and the numerical score may be entered in the logbook
- Participation in group may be graded as

Above expectations	Meets expectations	Below expectations
Took active part in the group activity on his	Took active part in the group activity with	Hardly took part in the group activity in
own	some encouragement from peers and tutors	spite of being instructed by the tutor

# Logbook entry for CM 6.2,, CM 6.3 & CM 6.4

(Please enter numerical score for OSCE and presentation)

1	2	3	4	5	6	7	8	9
	Name of Activity	Date	Method or	Attempt	Rating Below	<b>Decision of</b>	Initial	Feedback
		completed:	process of	at activity	(B) expectations	faculty	of	Received
	(may choose one or more based on	dd-mm-	Assessment/	First or			faculty	
	the resources/ manpower available)	уууу	documentation	Only (F)	Meets (M)	Completed	and	Initial of
			/ certification	Repeat (R)	expectations	(C)	date	learner
				Remedial	Exceeds (E)	Repeat (R)		
				(Re)	expectations	Remedial		
					OR	(Re)		
					Numerical score			
1	Choose a specific sampling		OSCE					
	technique for a given scenario							
2	Calculate sample size for a		OSCE					
	descriptive cross-sectional study							
3	Calculate & Interpret the measures of		OSCE					
	central tendency							
4	Calculate and interpret the measures		OSCE					
	of dispersion							
5	Choose an appropriate test of		OSCE					
	significance for a given data from							
	different study designs							
6	Perform a student t test for paired and		OSCE					
	unpaired data (manually/ using a							
	software) for a given data set							
7	Perform a chi-square test (manually/		OSCE					
	using a software) for a given data set							

8	Perform a correlation test using software for a given data set	OSCE		
9	Interpret the findings of a test of significance	OSCE		
10	Collect data during a village survey/ project	Participation		
11	Demonstrate by using of a sampling technique during village survey	Participation		
12	Analyse and interpret data from a village survey/ project	Participation		
13	Interpret the findings of a given data set	OSCE		
14	Present the results of the analysis using appropriate tables	OSCE		
15	Present the results of the analysis using appropriate charts	OSCE		
16	Present data collected during a village survey/ project	Presentation		
17	Prepare charts and graphs using MS excel for the given data set	OSCE		
18	Prepare charts for data collected during a village survey/ project	Participation & presentation		

# CM 7.4: Competency: Define, Calculate and interpret morbidity and mortality indicators based on given set of data

Large group session: (*The document tells SGT only so can be small group as well depending on the department's decision*) Specific Learning Objectives: At the end of the session the students should be able to-

- 1. Define morbidity indicators
- 2. Define mortality indicators
- 3. Classify morbidity and mortality indicators of public health importance with examples.
- 4. List the uses of morbidity and mortality indicators in public health

#### Small group session

SLO: At the end of the session the students should be able to-

- 1. Calculate the values for morbidity and mortality indicators from the given set of data
- 2. Interpret the values in the light of the public health measures taken/to be taken
- 3. Comment of the impact of national health programmes based on the given set of data on morbidity and mortality indicators

# Faculty-guide:

# Total protected hours for this competency: 6-8 hours

No.	Learning objective	Phase	of	Session type	T/L	Level to be	Assessment	Remarks
		teaching			method	attained	method	
1	1. Define morbidity indicators	II		Interactive	Lecture/	K & KH	Written tests-	
	2. Define mortality indicators			Large group	SGT		MCQ/SAQ	
	3. Classify morbidity and mortality							
	indicators of public health importance							
	with examples.							
	4. List the uses of morbidity and							
	mortality indicators in public health							
2	5. Calculate the values for morbidity and	Π		Practicals	SGT	SH	Written tests with	
	mortality indicators from the given set						vignettes	
	of data							
	6. Interpret the values in the light of the							
	public health measures taken/to be							
	taken							
		II/ III				SH		
3	7. Comment of the impact of national			Practicals	SGT	SH	Written tests with	Combine with
	health programmes based on the given						vignettes	competency
	set of data on morbidity and mortality	III				SH	Participation in	6.4, 7.9
	indicators						group activity	
4	8. Find out the current mortality and	III		Large group	SDL	SH	Activity	Combine with
	morbidity indicators from census,			briefing			completion	competency
	SRS, NFHS and DLHS. Comment on						Reflection and	
	the current IMR and MMR.						narratives	

# Logbook entry

# CM 7.4: Define, Calculate and interpret morbidity and mortality indicators based on given set of data

1	2	3	4	5	6	7	8	9
	Name of Activity	Date	Method or	Attempt	Rating Below	Decision of	Initial	Feedback
		completed:	process of	at activity	(B) expectations	faculty	of	Received
	(may choose one or more based on	dd-mm-	Assessment/	First or		· ·	faculty	
	the resources/ manpower available)	уууу	documentation	Only (F)	Meets (M)	Completed	and	Initial of
			/ certification	Repeat (R)	expectations	(C)	date	learner
				Remedial	Exceeds (E)	Repeat (R)		
				(Re)	expectations	Remedial		
					OR	(Re)		
					Numerical score	~ /		
1	Calculate the values for morbidity							
	and mortality indicators from the							
	given set of data							
	Interpret the values in the light of the							
	public health measures taken/to be							
	taken							
2	Comment of the impact of national							
	health programmes based on the							
	given set of data on morbidity and							
	mortality indicators							
	Can be considered as a certifiable							
	skill							
3	Find out the current mortality and							
	morbidity indicators from census,							
	SRS, NFHS and DLHS. Comment on							
	the current IMR and MMR.							

## Assessment of Small Group Learning (SGL) Sessions

Competency No :\_\_\_\_\_

PHASE \_\_\_\_\_ DATE \_\_\_\_\_

Scale: 1. Never

2. Occasionally

3. Sometimes

4. Often

5. Always

1 2 3 4 5

1.	Assembles for the session in time			
2.	Contributes relevant information in discussions			
3.	Shares learning resources relevant to the topic			
4.	Gives critical feedback			
5.	Takes criticism in a healthy manner			
6.	Seeks answer to learning questions			
7.	Integrates old and new knowledge (across the course)			
8.	Shows consideration for group process			
9.	Shows confidence in areas of understanding			
10.	Shows commitment to correct deficiencies			
	TOTAL			

Grade A: Exceeds expectations: 40-50

Grade B: Meets expectations: 30-40

Grade C: Below expectaions: Less than 30

# CM 7.6 Enumerate and evaluate the need of screening tests

### **Specific Learning Objectives**

- 1. List the criteria for screening of a disease
- 2. List and explain the evaluation indicators for a screening test.

# Faculty guide:

# Illustrative examples of a problem to be calculated (may be modified by the departments)

1. A given population in a city ABC had been screened by the health department for a chronic disease X. The following table gives result of Screening test done for disease X in a population.

Screening test	Disease present	Disease absent	Total
Positive	190	30	220
Absent	50	180	230

Calculate the sensitivity, Specificity, Positive predictive value, Negative predictive value of the test. Interpret the results. What are the criteria for a good screening test?

2. In a city XYZ, the prevalence of disease A is estimated to be 60 percent while that of disease B is estimated to be 20 percent. There are screening tests available for both the diseases. What are the considerations to be borne in mind before embarking on a mass screening programme?

**Guide Points for discussion:** The prevalence of the detectable preclinical phase of disease has to be high among the population screened. This is related to the relative costs of the screening program in relation to the number of cases detected and to positive predictive value. The expenditure of resources on screening must be justifiable in terms of eliminating or decreasing adverse health consequences. A screening program that finds diseases that occur less often could only benefit few individuals. Such a program might prevent some deaths. While preventing even one death is important, given limited resources, a more cost-effective program for diseases that are more common should be given a higher priority, because it will help more people. Life threatening diseases have serious consequences and thus are suitable for screening.

In some cases though, screening for low prevalence diseases is also cost effective, if the cost of screening is less than the cost of care if the disease is not detected early. For example, phenylketonuria (PKU) is a rare disease but has very serious long-term consequences if left untreated. PKU occurs in only 1 out of every approximately 15,000 births, and if left untreated can result in severe mental retardation that can be prevented with dietary intervention. The availability of a simple, accurate and inexpensive test has lead many states, including New York State, to require PKU screening for all newborns.

Source: Disease Screening: Statistics Teaching Tools. Available from URL: https://www.health.ny.gov/diseases/chronic/discreen.htm

CM 7.7 Describe and demonstrate the steps in the investigation of an epidemic of communicable disease and describe the principles of control measures.

### Learning Objectives:

At the end of the session, the learner should be able to

- 1. Define the terms outbreak, epidemic, endemic, and pandemic.
- 2. List the steps in the investigation of an epidemic.
- 3. Describe the steps in the investigation of an epidemic of communicable disease
- 4. Review, analyse and interpret data pertaining to investigation of an epidemic of communicable disease
- 5. Describe the principles of control of epidemics
- 6. Identify appropriate epidemic control measures for communicable diseases at local, national and international level

# Faculty-guide

No.	Learning objective	Phase of teaching	T/L methods	Level to be attained	Assessment method
1	Define the terms outbreak, epidemic, endemic, and pandemic.	II/ III	Lecture/ SGT	К	Written exam- MCQ/SAQ
2	<ul> <li>a. Enlist the steps in the investigation of an epidemic of communicable disease</li> <li>b. Describe the steps in the investigation of an epidemic of communicable disease</li> <li>Given the initial information of a possible communicable disease epidemic, describe how to determine whether an epidemic exists.</li> <li>Describe the importance of having a case definition and the factors to consider in developing a case definition.</li> </ul>	II/III	Lecture/ SGT Epidemic case study/ Simulated epidemic which students investigate, analyse and interpret followed by write up/ presentation	КН	Written exam- MCQ/SAQ Participation in Group activity

3	<ul> <li>Review, analyse and interpret data pertaining to investigation of an epidemic of communicable disease</li> <li>Explain how to gather, record, and analyze descriptive data related to characteristics of person, place, and time that will generate hypotheses about the source of an epidemic</li> <li><i>For a given dataset</i>, Create a "line listing" manually and using an Excel spreadsheet.</li> <li>Define and calculate prevalence and incidence.</li> <li>Define and calculate a) mortality rate, b) morbidity rate, c) attack rate, d) casefatality rate.</li> <li>Identify the following types of epidemic curves: a) point source epidemic, and c) propagated source epidemic.</li> </ul>	II/III	SGT Epidemic case study/ Simulated epidemic which students investigate, analyse and interpret followed by write up / presentation	SH	Participation in group activity
4	<ul> <li>a. Describe the principles of control of epidemics of communicable disease</li> <li>b. Identify appropriate epidemic control measures for communicable diseases at local, national and international level</li> </ul>	II/III	SDL	SH	Group Presentation on Epidemic Investigation

# **Grading Rubric**

Skill	Exceeds expectations (15)	Meets expectations (10)	Below expectations (5)
Learner contribution	Always willing to help and do more. Routinely offered useful ideas. Always displays positive attitude. (3)	Cooperative. Usually offered useful ideas. Generally displays positive attitude. (2)	Sometimescooperative.Sometimes offered useful ideas.Rarely displays positive attitude.(1)
Learner commitment	Tries to keep people working together. Almost always focused on the task and what needs to be done. Is very self-directed. (3)	Does not cause problems in the group. Focuses on the task and what needs to be done most of the time. Can count on this person. (2)	Sometimes not a good team member. Sometimes focuses on the task and what needs to be done. Must be prodded and reminded to keep on task. (1)
Learner Team skills	Participated in all group tasks. Assumed leadership role as necessary. Did the work that was assigned by the group. (3)	Participated in most group tasks. Provided leadership when asked. Did most of the work assigned by the group. (2)	Participated in some group tasks. Provided some leadership. Did some of the work assigned by the group. (1)
Learner Communication skills	Always listens to, shares with, and supports the efforts of others. Provided effective feedback to other members. Relays a great deal of information–all relating to the topic. (3)	Usually listens to, shares with, and supports the efforts of others. Sometimes talks too much. Provided some effective feedback to others. Relays some basic information–most relate to the topic. (2)	Often listens to, shares with, and supports the efforts of others. Usually does most of the talking– rarely listens to others. Provided little feedback to others. Relays very little information–some relate to the topic. (1)
Completion of work	Work is complete, well organized, has no errors and is done on time or early. (3)	Work is generally complete, meets the requirements of the task, and is mostly done on time. (2)	Work tends to be disorderly, incomplete, not accurate, and is usually late. (1)

Grade A: 12 - 15 Grade B: 8-11 Grade C: < 8

# CM 7.7 Describe and demonstrate the steps in the investigation of an epidemic of communicable disease and describe the principles of control measures.

	Name of Activity (may choose one or more based on the resources/ manpower available)	Date completed: dd-mm- yyyy	MethodorprocessofAssessment/documentation/ certification	Attempt at activity First or Only (F) Repeat (R) Remedial (Re)	RatingBelow (B)expectationsMeets (M)expectationsExceeds (E)expectations	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback Received Initial of learner
1	Define the terms outbreak enidemic				OR Numerical score			
1	endemic, and pandemic.							
2	List the steps in the investigation of an epidemic.							
3	Describe the steps in the investigation of an epidemic of communicable disease							
4	Review, analyse and interpret data pertaining to investigation of an epidemic of communicable disease							
5	Describe the principles of control of epidemics							
6	Identify appropriate epidemic control measures for communicable diseases at local, national and international level.							

## CM7.9 Describe and demonstrate the application of computers in epidemiology

Milestone I: I MBBS foundation course in addition to computer based training indicated in foundation course

Session I: At the end of the session the students should be able to- I MBBS foundation session for one hour in small groups before visit to RHTC & UHTC 9 am-10 am - family survey at community or with sample data

- 1. Describe the steps in computer for data analysis for various surveys
- 2. List various computer applications available both in free version as well as paid version
- 3. Describe concepts of bio-statistics for data analysis.

#### Level: K & KH Assessment : FA

Session II: At the end of the session the students should be able to- I MBBS foundation session for one hour in small groups before visit to RHTC & UHTC 11-12 noon (1 hour excluded In the travelling time) family survey at community or with sample data. (in very preliminary stage or way under faculty supervision)

- 1. Perform analysis of data on computer using various software.
- 2. Present and report the findings of the analysis

# Level : S & SH

#### Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Remedial (Re)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E) OR Numerical Score	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

#### Assessment: FA during foundation course

# Milestone 2: I MBBS ECE

At the end of the session the students should be able to- I MBBS ECE session for one hour in small groups before visit to RHTC & UHTC 10-12 noon (1 hour excluded In the travelling time) (in very preliminary stage to higher level under faculty supervision) family survey at community or with sample data

- 1. Perform analysis of data on computer using various software.
- 2. Present and report the findings of the analysis

# Level : S & SH

### Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Remedial (Re)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E) OR Numerical Score	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

Assessment : FA during ECE

#### Milestone 3: II MBBS clinical posting

At the end of the session the students should be able to- II MBBS clinical posting (three times at field level during the duration of 4 weeks of clinical posting) for two hour in small groups before visit to RHTC & UHTC 10-12 noon (1 hour excluded In the travelling time) (in very higher level to advanced level under faculty supervision) family survey at community or with sample data

- 1. Perform analysis of data on computer using various software.
- 2. Present and report the findings of the analysis

Level : S & SH

Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Remedial (Re)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E) OR Numerical Score	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

Assessment : FA during clinical posting (last day or assessment same day on the session).

### Milestone 4: III MBBS clinical posting

At the end of the session the students should be able to- III MBBS clinical posting ( three times at field level during the duration of 4 weeks of clinical posting) for two hour in small groups before visit to RHTC & UHTC 10-12 noon (1 hour excluded In the travelling time) (in very higher level to advanced level under faculty supervision) family survey at community or with sample data

- 1. Perform analysis of data on computer using various software.
- 2. Present and report the findings of the analysis
- 3. Describe the use of these analyzed data for policy making and national health planning.

# Level : S & SH

# Logbook entry:

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Remedial (Re)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E) OR Numerical Score	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

Assessment: FA during clinical posting (last day or assessment same day on the session).

## Milestone 5: only for the selected or identified students who have requested for elective in Research in Elective 1

At the end of the one week long training session the students should be able to- (in very higher level to advanced level under faculty supervision) family survey at community as per planned activity (possible if elective allotment happens in the beginning of III MBBS) or with sample data using larger data sets

- 1. Perform analysis of data on computer using various software.
- 2. Present and report the findings of the analysis
- 3. Describe the use of these analyzed data for policy making and national health planning.

# Level : S & SH

Competency no.	Name of activity	Date completed	Attempt at activity First or Only (F), Repeat (R), Remedial (Re)	Rating – Below expectations (B), Meets expectations (M), Exceeds expectations (E) OR Numerical Score	Decision of faculty – Completed (C), Repeat (R), Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

#### Logbook entry: (Portfolio entry required: preferably electronic portfolio)

Assessment: Day to day FA with portfolio and logbook. (Note: paper presentation in conferences to be avoided to avoid overburdening the students and it should be considered as desirable activity- other many poor quality papers and reports will be generated)

# CM 8.6: Educate and train health workers in disease surveillance, control & treatment and health education

Specific Learning Objectives: At the end of the session, the students should be able to-

- 1. List the different training methods for grass root health workers.
- 2. Prepare a plan for training ASHA workers in disease surveillance, control and health education
- 3. Conduct a mock training programme for ASHA workers in disease surveillance at RHTC/UHTC

# **Faculty-guide:**

# Total protected hours for this competency: 6-8 hours

No.	Learning objective	Phase of teaching	Session type	T/L method	Level to	Assessment	Remarks
		teaching		memou	attained	memou	
1	<ol> <li>Define disease control, elimination and eradication</li> <li>Define disease surveillance</li> <li>List types of surveillance</li> <li>Enlist notifiable diseases in India</li> <li>Plot the organogram of surveillance team</li> </ol>	III part 1	Interactive lecture	Lecture	K & KH	Written tests- MCQ/SAQ	Module 3.3 of <b>Pandemic module</b> covers this competency Combine with competency NO: 1.6,1.9 AETCOM 2.4
2	<ul><li>1.List the different training methods for grass root health workers</li><li>2. Prepare a plan for training ASHA workers in disease surveillance, control and health education</li></ul>	III	Demonstration/FV	SGT	SH	Participation in FV using the checklist provided below Reflection and narrative writing	Can be combined with Interns training where Interns will act as mentors RHTC/UHTC visit and interacting with medical officers and field

							staff about surveillance activities going on there as part of IDSP. Getting acquainted with different registers
							formats for all three types of surveillance.
3	1.Conduct a mock training programme for ASHA workers in disease surveillance at RHTC/UHTC	III	Demonstration/FV/Observation of a training session (tag along session)	SGT	SH	Mock training session Role play/skit MSF Kalamazu consensus checklist	Can be done during Internship also This element can be a part of elective in CM

# Logbook entry

# CM 8.6: Educate and train health workers in disease surveillance, control & treatment and health education

1	2	3	4	5	6	7	8	9
	Name of Activity	Date	Method or	Attempt	Rating Below	Decision of	Initial	Feedback
		completed:	process of	at activity	(B) expectations	faculty	of	Received
	(may choose one or more based on	dd-mm-	Assessment/	First or			faculty	
	the resources/ manpower available)	уууу	documentation	Only (F)	Meets (M)	Completed	and	Initial of
			/ certification	Repeat (R)	expectations	(C)	date	learner
				Remedial	Exceeds (E)	Repeat (R)		
				(Re)	expectations	Remedial		
					OR	(Re)		
					Numerical score			
1	1.List the different training methods							
	for grass root health workers							
	2. Prepare a plan for training ASHA							
	workers in disease surveillance,							
	control and health education							
2	Conduct a mock training programme							
	for ASHA workers in disease							
	surveillance at RHTC/UHTC							
	(Role play or reflective writing in							
	case not able to conduct a mock							
	training)							
								ļ
3	Reflection on the training session							
	What happened							
	• So, what (what went well)							
	• What next (what							
	improvements can be made)							
	_							

# Check list for Evaluation of Field Visit Report

Field Visit Report will be marked on five-point Likert Scale:

# 1=Strongly, 2=Disagree, 3=Neutral, 4= Agree, 5= Strongly Agree

1.	There is a comment on whether the objectives			
	of the visit have been fulfilled, if not which			
	objective has not been covered			
2.	There is Clear Description of student			
	observation / skill learned.			
3.	Analysis of strengths and weaknesses of the			
	services in light of theory and key concepts of			
	the course			
4.	Report include information that supports			
	student analysis { Picture, Maps, forms }			
5.	There is evidence of active participation of			
	student during the visit			
6.	There is statement of Limitation / suggestions			

# CM 9.2: Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates

Specific learning Objectives: At the end of the session the students should be able to-

- 1. Enumerate demographic and fertility indicators
- 2. Define, birth rate and death rate
- 3. Define General fertility rate, Age specific fertility rate, Total fertility rate and Net Reproductive Rate
- 4. Describe the public health importance of demographic and fertility indicators
- 5. Demonstrate the understanding of family welfare through calculation and interpretation of vital statistics and fertility indicators

# Faculty-guide:

#### Total protected hours for this competency: 3-4 hours

No.	Learning objective	Phase of	Session type	T/L method	Level to	Assessment	Remarks
		teaching			be	method	
					attained		
1	1.Enumerate demographic and	I/II	Interactive lecture	Lecture	K & KH	Written tests-	Integrate with
	fertility indicators					MCQ/SAQ	competency NO:
	2.Define, birth rate and death rate						CM1.8, CM10.1 and
	3.Define Fertility indicators						Foundation course
	( GFR,ASFR, GRR, TFR and						3.2
	NRR)						
	4.Describe the public health						Vertical integration
	importance of demographic and						with OBG (OG 1.1 &
	fertility indicators						1.2)
2	Demonstrate the understanding of	III	Demonstration/Field	SGT/Case	SH	Written tests	Visit to
	family welfare through calculation		Visit (FV)	based			RHTC/UHTC to
	and interpretation of vital statistics			learning on		Participation in	study the various
	and fertility indicators			vital		FV using the	fertility and vital
				statistics,		checklist	statistics registers
				fertility		provided below	maintained and their
				indicators			use
				and trends			

# Logbook entry

CM 9.2:Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates

1	2	3	4	5	6	7	8	9
	Name of Activity	Date	Method or	Attempt	Rating Below	Decision of	Initial	Feedback
		completed:	process of	at activity	(B) expectations	faculty	of	Received
	(may choose one or more based on	dd-mm-	Assessment/	First or			faculty	
	the resources/ manpower available)	уууу	documentation	Only (F)	Meets (M)	Completed	and	Initial of
			/ certification	Repeat (R)	expectations	(C)	date	learner
				Remedial	Exceeds (E)	Repeat (R)		
				(Re)	expectations	Remedial		
					OR	(Re)		
					Numerical score			
1	Demonstrate the understanding of							
	family welfare through calculation							
	and interpretation of vital statistics							
	and fertility indicators							
EXTRA-CURRICULAR	ACTIVITY							
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Sl. No.	Date	Activity	Remarks, if any	Signature of faculty

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