

DEPARTMENT OF PHYSIOLOGY

Page 1: OVERVIEW/PHYSIOLOGY

Physiology is the scientific study of functioning in human body. Physiology is the foundation of all medical sciences. Our Evidence based clinical Medicine is based on Physiology. It connects science, medicine, and health, and creates a framework for understanding how the human body adapts to stresses, physical activity, and disease. This understanding enables students correlate between pathology of a disease & its treatment, contributing to the development of the core skills of a competent doctor.

Physiology department is a full-fledged department in Government Medical College, Nandurbar which conducts quiz programs and student seminars on regular basis. The department is equipped to fulfill students need and make them well trained medical professionals.

Curriculum:

As per the MUHS Nashik, available at

http://www.muhs.ac.in/upload/syllabus/Phase1_060810_16082012_1233.pdf

Goal:

- 1) To provide comprehensive knowledge of organ systems of the body.
- 2) To understand physiological basis of health and diseases.

Educational Objectives:

- 1) At the end of course students will be able to describe the normal functions of all the organ systems, their regulatory mechanisms and interactions of various systems for well coordinated total body functions
- 2) To understand the relative contribution of each organ system in homeostasis.
- 3) Explain the physiological aspect of normal growth and development.
- 4) Analyze the physiological responses and adaption to environmental stresses
- 5) Comprehend the physiological principles, underlying pathogenesis and treatment of disease.
- 6) Correlate knowledge of physiology of human reproductive system in relation to national family welfare program.

Skills:




At the end of course students should be able to

- 1) Conduct experiments designed for study of physiological phenomenon.
- 2) Interpret experimental / investigative data.
- 3) Distinguish normal and abnormal data derived as results of tests which he/she has performed and observed in the laboratory.

Page 2: FACULTY

Head of the Department: Dr. S.D.Gundre

Sr No	Name	Current Designation	Qualification	Email-id
1	Dr.S.D.Gundre	Professor & HOD	MBBS,MD	drsgundre@rediffmail.com
2	Dr.R.N.Ramteke	Associate professor	MBBS,MD	rajratnaramteke@gmail.com
3	Dr.S.S.Chitta	Assistant Profesor	MBBS,MD	csrinivas23@gmail.com

Sr No	Name	Current Designation	Experience	Reg. No	Photograph
1	Dr.Sandeep D.Gundre	Professor & HOD	23 Years	MMC- 85591	
2	Dr.Rajratna N.Ramteke	Associate professor	11 Years	MMC- 2002/03/1732	
3	Dr.Shrinivas S.Chitta	Assistant Professor	12 Years	MMC-2019-02-0451	

List of Non Teaching staff :

Sr.No	post	Name
1	Technician	Shri.J.U.Gangurde , Shri. Ravindra Bagul , Miss. Asha Tadvi
2	Lab Assiatant	Shri. Swapnil Pawar
3	Junior clerk	Shri. Mayur Patil
4	Laboratory attendant	
5	Peon	Shri. Abhay Chaure
6	sweeper	Shri. Ganesh Gavitt

Page 3: Duties and Responsibilities –**Professor in physiology:**

- 1) To teach UG & PG students in subject.
- 2) To take tutorial classes.
- 3) To arrange teaching program of department in consultation with Dean.
- 4) To guide & conduct research in the subject.
- 5) To be in charge as HOD.
- 6) To do any other work that may be assigned to him by Dean.

Associate Professor in physiology:

- 1) To look after the work of physiology.
- 2) To be responsible for lecture, demonstration & practical classes in the subject & any other departmental work assigned by professor & Dean.
- 3) To take part in research work & also to help professor in supervision of department work, store & verification.
- 4) To perform any other duties so may be allotted by the professor & Dean in the interest of departmental work.

Assistant professor in physiology

- 1) To assist the professor in teaching the subject.
- 2) To conduct tutorials and demonstrations.
- 3) To arrange and supervise the practical in the department.
- 4) To prepare specimens for museum tutorials, practicals etc. when required
- . 5) To assist professor in research.
- 6) To be responsible for the stores and laboratories under his charge.
- 7) To do after duties assigned by the professor or dean of the college.

Page 4: FACILITIES –

The department of physiology is well equipped and consists of following laboratories

- 1) Haematology
- 2) Clinical physiology
- 3) Central Research Laboratory

All the laboratories are provided with adequate infrastructure and equipments to accommodate 25 students.

Equipments:

The department has all the necessary equipments as per the NMC norms.

Page 5 : RESEARCH & PUBLICATIONS –

1. Dr. Sandeep Gundre

1. Study of pulmonary function test in cotton industry worker ,S.D.Gundre ,S.N.Handergulle, B.Balsubhramaniam Ak et all National Journal Of Medical Sciences July2014 volume3 No2

2.Study of dermato glyphs in Rh blood Group ,kshirsagar SV,Gundre S.D.,Anatomica Karnataka,VOL-6,(1) Page 70-73 (2012)

3.Injury Profile in State level inter university sports competition , S.D.Gundre, ¹S.V.Suryavanshi, ²Dhananjay sangle²,D.B.Sonawane,³L.P.Dafne,³D.M.Dangre,³Sachin Gaikwad,⁴ IOSR JOURNAL OF SPORTS AND PHYSICAL EDUCATION (ISOR-JSPE) E-ISSN-2347-6737 P-ISSN:2347-6745 VOLUME 2 ,ISSUE 3 (May-June 2015),Pp 44-47

4. To Assess the Need for Motivations of Medical Teachers, Dr.S.V.Kshirsagar, Dr.S.D.Gundre,JIARAM ,Volume 1, Issue 2 (March2013) ISSN:2320-5803.

2. Dr. Rajratna Ramteke

S.No	Title of the publication	Journal	Indexed? (Yes/No)	PubMed/Scopus / Web of Science/Other
1	Learning Style Preferences among 1st year MBBS students	International Journal of Scientific Research	Yes	Copernicus
2	Comparison of working memory between male and female students of 1st year MBBS in Nagpur	International Journal of Scientific Research	Yes	Copernicus
3	Cross-sectional study of cold pressor test response in adults in Nagpur	Indian Journal of Applied Research	Yes	Copernicus
4	Influence of age and gender on Cold Pressor Test response in	International Journal of Scientific Research	Yes	Copernicus

	Indian adults: an interventional study			
5.	Prospective effects of yoga on hypertensives, diabetic and normal subjects	International Journal of Scientific Research	Yes	Copernicus

3. Dr. Shrnivas Chitta

1. Chitta S, Nandedkar P, Tayade P, Kherde P. Effect of yogic practices on cardiovascular risk factors in postmenopausal woman. International Journal of Recent Trends in Science and Technology [Internet].2014 Nov; 13(1):50-52
2. S Chitta S, Tambe MK, Kherde PM, Aggarwal SS, Nandedkar PD, G Atram G. Effect of Cigarette Smoking on Semen Quality Parameters in Male Partners of Infertile Couple: A Cross Sectional Study. IOSR Journal of Dental and Medical Sciences. 2016 Sep;15(09):112–6.
3. Tayade PrashantT, Chitta Shrinivas S. Correlation Between Glycated Haemoglobin (Hba1c) and VO2 Max. In Type-2 Diabetic Subjects in Central India: A Cross Sectional Study. IOSR Journal of Dental and Medical Sciences. 2017 Mar;16(02):41–6.
4. Kherde P, Mishra N, Chitta S, Gahukar S. Influence of sawdust on peak expiratory flow rate in sawmill workers of central India working in unprotected environment and its correlation with duration of exposure. National Journal of Physiology, Pharmacy and Pharmacology. 2017;7(1):68.
5. Nandedkar Prerna D.,Sonune Sanjay.,ChittaShrinivas S.,Rajurkar Sampada R. Comparative study of hyperlipidemia in patients of CKD with nephrotic syndrome and CKD without nephrotic syndrome. Journal of pharmaceutical and biomedical sciences (J Pharm Biomed Sci.) 2013 July; 32(32): 1396-1399.