

Department of Anatomy

- Department of Anatomy, established in 1989 and grown enormously in both its infrastructural facilities and the academic and social outreach activities.
- NMC recognized department for undergraduate and post-graduate teaching in Anatomy
- **Goals: To provide comprehensive knowledge of gross structure, microscopic structure and development of human body necessary to understand the anatomical basis for the disease presentations and various interventional methods**

Objectives:

To study -

- **The various organ systems to understand the normal disposition and topography**
- **The microscopic structure**
- **The normal sequence of development**
- **The developmental basis of major variations and congenital anomalies**
- **Anatomical basis of common clinical procedures**
- It is a M.C.I. recognized postgraduate (M.D.) department where eighteen students have completed post-graduation(MD Anatomy) and nine MSc. Medical Anatomy till date
- The department faculty consists of qualified and well experienced teachers, who are dedicated and trained in Medical Education Technology
- The department is located on the entire fourth floor of the college building and well spread over 1700 square meter area consisting of spacious dissection hall with attached embalming facility and with all the dissection equipment
- Well-equipped Histology practical hall with separate U.G. and P.G. Laboratories
- ICT facilities available in the class rooms and demonstration rooms
- Adequate number of teaching material in the form of bones, specimen, histology slides, embryology models is available
- Bone retrieval by maceration technique is done in the department and Bone bank facility available for the students
- State of art museum with systematically arranged and catalogued specimens and models
- Department library with plenty (total number= 654) of textbooks, reference books and journals and with internet facility
- Online teaching facility for lectures as well as practicals is available and regularly used since April 2020

- Faculty and students are encouraged to participate and present their research work in various national and state conferences

- New CBME curriculum implementation from 2019 with following are the important features

1. Foundation Course
2. Competencies based outcomes of subject
3. Early clinical exposure (ECE)- Both Departmental and Hospital environment
4. Alignment and Integration of teaching and learning
5. Skill development and learning (throughout curriculum)
6. Assessment changes
7. AETCOM
8. Self-Directed learning (SDL)
9. Electives offered to desirous undergraduate students
10. Emphasis is on learner centric instruction

- Program and courses offered

MBBS	Anatomy
MD (Anatomy)	Gross Anatomy Neuroanatomy Histology Embryology Applied anatomy
MSc Anatomy (Medical)	
PhD	

- In addition to the M.B.B.S. and M.D. and M.Sc. Anatomy courses, the department caters to other courses like-
 - Physiotherapy
 - B.Sc. Nursing
 - BSc skills
 - Audiology and Speech Language Pathology

Teaching – learning

- Regular Lectures, Practical, Tutorials, Dissection
 - Participation in Seminars, Quiz
 - Multiple revisions for students considering
 - Formative Assessments in Gross anatomy, Embryology, histology
 - Felicitation of toppers
 - Encouraging high achievers to participate in quiz and other competitions
 - Remedial classes for weak students/ underachievers
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- Demo rooms with LCD projectors and screens available
 - Laptop/ Desktops in adequate number are available
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- To fulfill the social commitment, the department has a 'voluntary body donation drive' Programme that includes -
 - 24 X 7 availability of Body Donation facility
 - Talks on 'body donation' arranged in various 'senior citizen forums' in Pune city
 - Write -ups in Local newspapers that have resulted into a large number of donated bodies received in the Department (average 10-15 every year) for educational purpose and added to the teaching material of the department.
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- U.G. students are encouraged to participate in various conferences for 'Model preparation competition', national level 'Anatomy Quiz competition'
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- Department conducts and supports National and State level workshops in-
 - Endoscopic sinus surgery
 - Neuro-spine cadaveric workshop
 - Temporal bone dissection workshops
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- Faculty is invited to deliver guest lectures in various conferences and social/ awareness activities. And also for workshops of Medical Education Technology

PATENT

Dr. Shilpa Gosavi (along with Mr. Atul Kherde) has been granted Indian patent for 'A device for passive exercising of a human leg' (Patent no. 326944) on 03/08/2017.

PUBLICATIONS

Title of Paper	Author(s)	Journal	Year	Volume
2021				
Omega sign: An indicator of motor hand area on cerebral hemisphere.	Shilpa Gosavi, Rajendra Garud	J Anat Soc India National	April-June 2021	Vol.70:81-4,ISSN : 0003-2778
2020				
Anatomical Evaluation of Lumbar Vertebral Canal in Indian Population.	Dr.Balu Londhe Dr.Rajendra Garud	International Journal of Anatomy and Research. International	January 2020	8(1.1):7251-55. ISSN 2321-4287
Establishing the correlation between foot length and height – regression analysis study in pune region	Aparna Joshi, Ganesh Khemnar , Medha Puranik	International Journal of Anatomy and Research. International	February 2020	Vol 8(1.2):7316- 19. ISSN 2321- 4287
Morphometric assessment of Lumbar vertebrae	Dr.Balu ondhe Dr.Rajendra Garud	Indian Journal of Clinical Anatomy and Physiology National	March 2020	Vol.7(1):77-80 ISSN 2394-2118
Exploring the anatomical dimensions of hand and its correlation with height – Anobservational study in context of Indian population	Aparna Joshi, Ganesh Khemnar, Medha Puranik	Indian Journal of Clinical Anatomy and Physiology National	March 2020	Vol.7(1):19–22
2019				
Morphological study of achilles tendon	Pallavi Bajpayee, Shilpa Gosavi, P Vatsalawamy	International Journal of Anatomy and Research International	February 2019	Vol 7(1.2):6234- 38. ISSN 2321- 4287

Title of Paper	Author(s)	Journal	Year	Volume
The morphometric study of the body of dry human subaxial cervical vertebrae	Ganesh Khemnar, Rajendra Garud	Indian Journal of Clinical Anatomy and Physiology, National	March 2019	2019;6(1):18-22 ISSN 2394-2118
Subaxial cervical vertebrae: morphometric study of The pedicles, laminae and vertebral foramina	Ganesh Khemnar, Rajendra Garud	International Journal of Anatomy and Research, International	May 2019	Vol 7(2.2):6536-40. ISSN 2321-4287
Study of mid-arm circumference in indian school Children	Kharat Vidya Puranik Medha	International Journal of Anatomy and Research, International	August 2019	7(3.2):6804-06. ISSN 2321-4287
Study of waist circumference in school children	Kharat Vidya Puranik Medha	Indian Journal of Clinical Anatomy and Physiology National	October 2019	6(3),264-268.ISSN 2394-2118
Thoracic paravertebral and erector spinae plane block: A cadaveric study demonstrating different site of injections and similar destinations	Rajendra Garud, Sandeep Diwan, Abhijit Nair	Saudi Journal of Anesthesia International	October-December 2019	13(4): 399–401.
2018				
An examination of relationship between estimation of arm length with different parameters	Dr. Aparna M.Joshi Dr.M.G.Puranik Dr.R.S.Garud	Indian journal of applied research National	February-2018	Volume-8 issue-2
An examination of relationship between estimation of forearm length from different parameters	Dr. Aparna M.Joshi Dr.M.G.Puranik Dr.R.S.Garud	International journal of scientific research International	April 2018	Volume-7 Issue-4
Mandibular and mental foramen – A morphometric study in western Maharashtra	Anand Reddy Rakhi More Rajendra Garud	Indian Journal of Clinical Anatomy and Physiology. National	July-September , 2018	Volume-5 Issue-3
Morphological Study of	Anand Reddy	Med Pulse	August	Volume7

Title of Paper	Author(s)	Journal	Year	Volume
Mandibular Condyles - A Quantitative Approach	Makarand Apte Rajendra Garud	International Journal of Anatomy. International	2018	Issue 2
Morphological Variations Of The Coraco-Acromial Ligament: A Cadaveric Study	Surekha Jadhav Shilpa Gosavi.	International Journal of Anatomy and Research International	September 2018	Volume6 Issue 3.3
2017				
An anatomical study of coraco-acromial falx in Indian population	Surekha Jadhav Shilpa Gosavi Balbhim Zambare	Indian Journal of Clinical Anatomy and Physiology, National	January- March, 2017	4(1):104-105
A Cadaveric Study of Portal Vein Termination and Its Surgical Relevance	Shilpa Gosavi Surekha Jadhav Rajendra Garud	Journal of Krishna Institute of Medical Sciences University National	April-June 2017	Vol. 6, No. 2,
2016				
Various sacral indices: role in study of sexual dimorphism	Uttama Joshi Medha Puranik	Int. J of research in medical sciences International	March 2016	4(3): 841-846
Spleen morphology with clinical significance – A legacy from the past	Vidya Kharat Rajendra Garud	IOSR journal of Dental and Medical sciences International	April 2016	5(4): 39-42
Distribution of Extra Hepatic Branches of Portal Vein to Caudate Lobe.	Shilpa Gosavi, Surekha Jadhav, Rajendra Garud	IOSR journal of Dental and Medical sciences International	August 2016	Volume 15 Issue 8, Ver-I
Study of Growth Pattern in School Children of Both Genders Aged Between 9 and 12 Years.	Kharat Vidya Shankarrao, Puranik Medha, Garud Rajendra	IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) International	September 2016	Volume 15 Issue 9
Structured Evaluation Tool (SET): For Evaluation of	M.G. Puranik	Journal of Research in	November 2016	Vol. 6, No. 3,

Title of Paper	Author(s)	Journal	Year	Volume
Presentation of Postgraduate Students in Anatomy: Key to Faculty Development	R.S. Garud	Medical Education & Ethics National		
2015				
Role of various parameters of sacrum in determination of sex	Uttama Joshi, Medha Puranik, Manisha Dhobale, Nitin Mudiraj	Inter J of Recent Trends in science and technology International	May 2015	15(1): 16-22
Gastrocnemius tubercle in Indian population: a new anatomical entity?	Shilpa Gosavi, Rajendra Garud, Surekha Jadhav	Rev Arg de AnatClin. International	June 2015	7(2): 107-111
Estimation of height from length of ulna and length of fibula in Indian and Iraqi population	Aseel Abdul sattar Hussein Al-wasfi, Medha Puranik	Int. J of information research and review International	July 2015	2(7): 904-908
Study of third coronary artery in adult human cadaveric hearts	Manisha Dhobale, Medha Puranik, Nitin Mudiraj, Uttama Joshi	J of clinical and diagnostic research International	October 2015	9(10) AC01-Ac04
Morphometry of Acromion process: a study in Indian scapulae	Shilpa Gosavi, Surekha Jadhav, Rajendra Garud	Int. J of pharma research and Health sciences International	October 2015	3(5): 831-835
Revision module in Anatomy by using power point slides	Medha Puranik	J of research in medical education and ethics National	November 2015	5(3): 243-247
2014				
Diversity of human lip prints: a collaborative study of ethnically distinct world populations	Namita Alok Sharma, Magda Ahmed Eldomiaty, Esperanza Gutiérrez-Redomero, AdekunleOlufemi George, <u>Rajendra Somnath Garud</u> , Angeles Sánchez-Andrés, Shaima Mohamed Almasry, NoemíRivaldería, Sami	Annals of Human Biology International	February 2014	41(6)/ 568-578

Title of Paper	Author(s)	Journal	Year	Volume
	Awda Al-gaidi, and Toyosillesanmi.			
Morphometric study of Scapular glenoid cavity in Indian population	Gosavi S.N, Jadhav S. D, Garud R.S.	IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) International	September 2014	13(9)-III/67-69
Debate-Part-II-Human Bodies to teach Anatomy : Importance and Procurement- Experience with Cadaver Donation	Garud R.S, and others	Rev Arg de AnatClin. International	November 2014	6(3): 162-175
Debate-Part-II-Human Bodies to teach Anatomy : Importance and Procurement- Experience with Cadaver Donation	Vidya Kharat and others	Rev Arg de AnatClin. International	November 2014	6(3): 162-175
2013				
Clinical Profile of Down Syndrome Cases	M.V. Apte, S.D.Gangane	IJSR - International Journal Of Scientific Research. International	February 2013	2(2), 273-274
Greater palatine foramen -a key to successful hemimaxillaryanaesthesia: a morphometric study and report of a rare aberration	Namita Sharma, Rajendra Garud	Singapore Medical Journal International	March 2013	54(3) 152-159
Morphometric study of Infraorbital foramen in dry human skulls	Amrita Bharati, Medha Puranik	National journal of Integrated Research in Medicine National	May-June 2013	4
2012				
Dangerous course of the brachiocephalic trunk and variations of arteries in the cervical region-a case report	Namita Sharma, Rajendra Garud	European Journal of Anatomy International	January 2012	16(1) 74-78

Title of Paper	Author(s)	Journal	Year	Volume
Corelation of Height with Footlength, Footbreadth and Footheight of an individual	Nakhate MS, Sane SD, Garud RS	International Journal of Medical and Clinical Research International	January 2012	3(1) 105-106
Body Donation-a historical review and general information	M M Mutalik, R S Garud	Bharati Vidyapeeth University Research Journal Local	March 2012	9
Rare peritoneal bands and recesses: incidental findings in a cadaveric dissection	Namita Sharma, Alok Sharma, Rajendra Garud	Surgical and Radiologic Anatomy International	October 2012	35 359-363
2011				
Nucleated red blood cells in maternal circulation and prenatal diagnosis	M M Mutalik	Indian Journal of Medical Specialities, National	Jul-Dec. 2011	2(2)
Morphometric evaluation and a report on the aberrations of the foramina in the intermediate region of the human cranial base-a study of an Indian population	Namita Sharma Rajendra Garud	European Journal of Anatomy International	September 2011	15(3) 140-149

Museum





Dissection Hall





Cold cabinets



Skeleton



Embryology models



Charts



Histology lab.





Bone bank



