### Comprehensive Career Paths for Medical Stream Students (PCB)

# 1. Core Medical Careers

## A. MBBS – Bachelor of Medicine & Bachelor of Surgery

* Duration: 5.5 years (4.5 years + 1-year internship)
* Eligibility: 10+2 PCB + English, Minimum 50% (40% reserved), Age 17–25
* Entrance Exam: NEET-UG
* Scholarships: CSSS, AIIMS MBBS Merit, State MBBS Scholarships, Tata Trusts, Aditya Birla Medical Scholarships

### Higher Studies (Detailed)

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| MD | 3 years | MBBS + Internship | NEET-PG | AIIMS PG Fellowships, ICMR JRF, State PG | Specialist Doctor (Medicine, Pediatrics, Psychiatry, Radiology) |
| MS | 3 years | MBBS + Internship | NEET-PG | AIIMS PG Fellowships, State PG | Surgeon (General Surgery, Orthopedics, ENT, Ophthalmology) |
| DM | 3 years | MD | NEET-SS | AIIMS Fellowships, State Scholarships | Super-specialist (Cardiology, Neurology, Oncology, Gastroenterology) |
| MCh | 3 years | MS | NEET-SS | AIIMS Fellowships | Super-specialist (Neurosurgery, Urology, Plastic Surgery, Pediatric Surgery) |
| PhD | 3–5 years | MBBS / MD / MS | University / NET / ICMR | ICMR JRF, DBT-JRF, INSPIRE | Research Scientist, Faculty |
| MBA (Hospital / Healthcare) | 2 years | MBBS / BDS / BAMS | University Entrance / CAT / MAT | State / Private Fellowships | Hospital Administrator, Healthcare Consultant |
| MPH | 1–2 years | MBBS / BDS / BAMS / BSc | University Entrance | WHO Fellowship, State Scholarships | Public Health Officer, Epidemiologist |

## B. BDS – Bachelor of Dental Surgery

* Duration: 5 years
* Eligibility: 10+2 PCB, NEET-UG, 50% min
* Scholarships: Indian Dental Association, State Govt, Colgate, Dr. Batra Foundation

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| MDS | 3 years | BDS + Internship | NEET-MDS | Indian Dental Association, AICTE PG | Orthodontist, Oral Surgeon, Prosthodontist, Periodontist |
| PG Diploma | 1–2 years | BDS | University / AIIMS / State | State Scholarships | Cosmetic Dentistry, Endodontics, Implantology |
| MBA (Healthcare / Dental) | 2 years | BDS | University Entrance / CAT | State / Private Fellowships | Dental Clinic Manager, Healthcare Consultant |
| PhD (Dental) | 3–5 years | MDS | University / NET / AIIMS | DBT / ICMR Fellowships | Academic Faculty, Research Scientist |

## C. AYUSH (BAMS, BHMS, BUMS, BNYS)

* Duration: 5.5 years
* Eligibility: 10+2 PCB, NEET-UG, 50%
* Scholarships: Ministry of AYUSH, State AYUSH, CCRAS Research

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| MD / MS | 3 years | BAMS / BHMS / BUMS + Internship | NEET-PG / University | Ministry of AYUSH, CCRAS | Specialist AYUSH Doctor, Teaching, Clinical Consultant |
| PhD | 3–5 years | MD / MS in AYUSH | University / NET | AYUSH / DBT-JRF | Research Scientist, Academician |
| MBA | 2 years | BAMS / BHMS / BUMS | University Entrance | State / Private Fellowships | Hospital Administrator, Wellness Consultant |
| PG Diploma / Fellowship | 1–2 years | BAMS / BHMS | University / Institute | State Scholarships | Panchakarma, Herbal Research, Specialized Clinical Practice |

## D. BVSc & AH – Veterinary Science

* Duration: 5 years
* Eligibility: 10+2 PCB, 50%
* Entrance Exams: NEET-UG / ICAR-AIEEA-PG
* Scholarships: ICAR Talent Scholarship, State Vet Scholarships

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| MVSc | 2 years | BVSc & AH | ICAR / State PG | ICAR Fellowship | Veterinary Surgeon, Animal Scientist, Livestock Consultant |
| PhD | 3–5 years | MVSc | University / ICAR / NET | ICAR JRF / DBT | Research Scientist, Wildlife Specialist, Academic Faculty |
| MBA (Veterinary / Agribusiness) | 2 years | BVSc & AH | University Entrance | Private Fellowships | Veterinary Hospital Management, Agribusiness Consultant |

## 2. Allied Health & Paramedical Courses

### A. B.Sc. Nursing

* Duration: 4 years
* Eligibility: 10+2 PCB, 45–50%
* Entrance Exams: NEET-UG, AIIMS Nursing, JIPMER, State CET
* Scholarships: Florence Nightingale, AIIMS & State Nursing, Private Trusts

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| M.Sc. Nursing | 2 years | B.Sc. Nursing | AIIMS PG / State PG | Florence Nightingale, State Scholarships | Clinical Nurse Specialist, Nurse Educator, Hospital Manager |
| PhD Nursing | 3–5 years | M.Sc. Nursing | University / NET | ICMR / State / Private Fellowships | Research Scientist, Academic Faculty |

### B. BPT – Bachelor of Physiotherapy

* Duration: 4.5 years
* Eligibility: 10+2 PCB, 50%
* Entrance Exams: State CET / NEET (some states)

Scholarships: IAP grants, State merit scholarships

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| MPT | 2 years | BPT | State PG CET / University | State Scholarships | Physiotherapy Specialist, Sports Therapist, Rehabilitation Specialist |
| PhD Physiotherapy | 3–5 years | MPT | University / NET | State / Private Fellowships | Academic Faculty, Clinical Researcher |

### C. Paramedical / Allied Health

* Courses: BMLT, Radiology, Optometry, BASLP, BOT, Anesthesia Technology
* Duration: 3–4 years
* Eligibility: 10+2 PCB, 45–50%
* Entrance Exams: State CET, NEET (for some)
* Scholarships: State Paramedical, Private Hospitals

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| M.Sc. Allied Health | 2 years | B.Sc. Allied Health | University / AIIMS PG | State / Private | Lab Scientist, Radiographer, Optometrist |
| PG Diploma | 1–2 years | B.Sc. Allied Health | University / AIIMS | State / Private | Medical Imaging, Clinical Pathology |
| PhD Allied Health / Nursing | 3–5 years | M.Sc. | University / NET | ICMR / DBT | Research Scientist, Academic Faculty |

## 3. Pharmacy & Life Sciences

### A. B.Pharm

* Duration: 4 years
* Eligibility: 10+2 PCB/PCM, 50%
* Entrance Exams: State CET / CUET / BITSAT
* Scholarships: AICTE Pragati & Saksham, NIPER Fellowships

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| M.Pharm | 2 years | B.Pharm | GPAT / State PG | NIPER Fellowship, AICTE | Pharmacologist, R&D Scientist, Clinical Trials Manager |
| Pharm.D | 3–6 years | B.Pharm | University Entrance | NIPER / State | Clinical Pharmacist, Research Scientist |
| PhD Pharmacy | 3–5 years | M.Pharm | University / NET / GPAT | DBT / AICTE | Academic Faculty, Pharma Scientist |
| MBA Pharma | 2 years | B.Pharm | University Entrance / CAT | Private | Pharma Manager, Regulatory Affairs |

### B. B.Sc. Biotechnology / Life Sciences

* Duration: 3 years
* Eligibility: 10+2 PCB, 55%
* Entrance Exams: CUET, State CET, IISER Aptitude Test, BHU UET
* Scholarships: DBT-JRF, ICMR-JRF, INSPIRE

### Higher Studies

| **Higher Study** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| M.Sc. Biotech / Microbiology / Genetics | 2 years | B.Sc. Life Sciences | CUET / University | DBT-JRF, ICMR | Biotechnologist, Clinical Research, Genetic Engineer |
| M.Tech Biotech | 2 years | B.Sc. / B.Tech | GATE-BT | DBT / DST | Biotech Engineer, Bioprocess Specialist |
| PhD Life Sciences | 3–5 years | M.Sc. / M.Tech | University / NET / ICMR / DBT | DBT-JRF, ICMR-JRF | Research Scientist, Faculty, Forensic Scientist |

## 4. Healthcare Management & Public Health

| **Course** | **Duration** | **Eligibility** | **Entrance Exam** | **Scholarships** | **Careers** |
| --- | --- | --- | --- | --- | --- |
| MBA Healthcare Management | 2 years | BHA / BPH / MBBS / BDS / BAMS | CAT / MAT / University | State / Private Fellowships | Hospital Administrator, Healthcare Consultant |
| MPH | 1–2 years | BHA / BPH / MBBS / BDS / BAMS | University Entrance | WHO / State | Public Health Officer, Epidemiologist, NGO Policy Planner |

## 5. Global Medical Careers

| **Path** | **Exams** | **Scholarships** | **Careers** |
| --- | --- | --- | --- |
| USA | USMLE → Residency → MD | Fulbright-Nehru | Specialist Doctor, Researcher, Medical Faculty |
| UK | PLAB → GMC Registration | Chevening | Specialist Doctor, Surgeon, Academic Faculty |
| Australia / NZ | AMC Exam | State / University | Practicing Doctor |
| Germany | Language Exam + Licensing | DAAD | Specialist Doctor, Researcher |

## 6. Alternative / Interdisciplinary Careers

* MPH → Public Health Specialist, Policy Advisor
* MBA Healthcare → Hospital Administrator, Consultant
* M.Sc. Forensic Science → Forensic Pathologist, Crime Lab Scientist
* Medical Writing / Journalism → Health Journalist, Medical Communicator
* Bioinformatics → Medical Data Analyst, Genomics Specialist

## 7. Government Job Options

* UPSC CMS – Central Govt Medical Services (MBBS)
* State PSC Medical Exams – State Hospitals
* Armed Forces Medical Corps – Clinical & Technical Roles
* Nursing & Paramedical Govt Exams – AIIMS, ESIC, State Health Departments

This Word-ready document now includes: **Bachelors, Detailed Higher Studies, Entrance Exams, Scholarships, Careers** for all Medical Stream pathways, ready for tables and flowchart integration.