Curriculum Implementation Support Program (CISP I): First Year Report

2019

Medical Council of India
Pocket-14, Sector-8, Dwarka,
New Delhi- 110077
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Introduction

The Medical Council of India, vested with the responsibility for producing quality manpower in the field of undergraduate medical education, has taken two landmark decisions in 2012-14 which resulted in the revamping of undergraduate medical education of the country. These two decisions relate to (1) the issuance of Gazette Notification dated November 4, 2019 amending the “Regulations on Graduate Medical Education, 1997 by“Regulations on Graduate Medical Education (Amendment), 2019 and which consequently culminated in (2) the revision of the Undergraduate Medical Education Curriculum to the competency pattern.

The 1997 Regulations on Graduate Medical Education needed a relook at all aspects of the various components in the existing regulations and adapt/modify them to the changing demography, socio-economic context, perceptions, values and expectations of stakeholders. Emerging health care issues particularly in the context of newly emerging and re-emerging diseases, have major impact on health care of masses, and the need to collate and use advances in science and technology for management of diseases in epidemic/pandemic scale at very short notice is imperative. The new Regulations on Graduate Medical Education (Amendment), 2019 is more learner-centric, patient-centric, gender-sensitive, outcome-oriented and environment-appropriate resulting in an outcome driven curriculum, in conformity with global trends and with due emphasis on alignment and integration of subjects, both horizontally and vertically. This outcome driven new undergraduate curriculum provided the orientation and the skills necessary for life-long learning to the Indian Medical Graduate (IMG) to enable proper care of the patient. The competencies an Indian Medical Graduate would have obtained at the time of graduation were clearly defined in these documents.

The Expert Group of MCI involved in this massive exercise and the authorities at the helm of medical education at Medical Council of India and the country realized that the achievement of the ‘objectives’ of generating ‘Confident, Competent, Concerned and Compassionate’ medical graduates out of the ‘medical education system’ cannot be fulfilled without a robust Faculty Development Program (FDP). The Medical Council of India has already a well-established and extensive network of 22 Centres distributed all over the country conducting Faculty Development
Programs initiated by the Council which belong to two categories viz., Basic Course Workshop (BCW) in Medical Education and AETCOM Workshop by 12 Regional Centres and Advance Course in Medical Education (ACME) along with BCW and AETCOM Workshops by 10 Nodal Centres. Under this unique program initiated, financially supported and maintained by the Regulator (Medical Council of India), 44,932 medical college teachers have undergone training in Basic Course and AETCOM Workshops until December 2018, which is a landmark achievement in the history of Medical Education. Readers are referred to the Report titled “Faculty development initiatives for the Undergraduate Medical Education Program: ten years’ experience – status report” available on MCI Website¹.

The revision of the UG curriculum to the competency pattern required focused training of college faculty in the medical colleges on the content and nuances of the new competency-based curriculum sequentially and seamlessly by the experts advising the Academic Cell, thereafter to the Medical Education faculty in Nodal and Regional Centres and finally to the faculty in medical colleges. Considerable logistical and educational handholding was provided in a well-planned CURRICULUM IMPLEMENTATION SUPPORT PROGRAM I (CISP I) which was executed meticulously by the Resource faculty in the MCI Nodal and Regional Centres who additionally supervised the conduct of CISP I in the colleges.

The implementation of CISP I was stepwise, initial training of Conveners and Co-conveners of MCI Nodal and Regional Centres at Medical Council of India by the Expert Group members who acted as Resource faculty. This was followed by training of Medical Education faculty of Nodal and Regional Centres of MCI who trained members of the Curriculum Committees and MEU of the medical colleges who thereafter conducted the training of medical college faculty, under observership of Regional/Nodal Centre faculty. College faculty from pre-clinical and para-clinical subjects were prioritised for phase-1 CISP training but faculty from Medicine, Surgery and allied subjects also were included since the new curriculum involved vertical and horizontal integration of subjects.

This Report reviews the details of the CISP I program and summarises the achievements including details of number of trainees by each MCI Centre and rectification processes, wherever it was found needed.
Methodology

Design of conduct of CISP I

The Academic Cell of Medical Council of India together with the Expert Group members and few invitees prepared a carefully chalked out program for implementation of CISP I, from conceptual stage up to training of medical college faculty including in situ training of teaching faculty through a multi-tire Faculty Development Program (FDP).

This included the following components:

- Conceptualisation of a three-day CISP I program and Guidelines regarding its implementation including eligibility criteria for faculty participants.
- Constitution of Curriculum Committee by Dean of all colleges was made mandatory. The Curriculum Committee, chaired by Dean of the college, included one senior faculty in the grade of Associate Professor or above, each from pre-clinical, para-clinical, medicine & allied and surgery & allied departments and the MEU coordinator. The designated faculty must have already undergone training in the MCI Basic Course Workshop and in the Attitude, Ethics and Communication (AETCOM) module.
- Preparation of Faculty Guides, Learning Resource Material including Power Point slides by Expert Group members and transmission of these to Conveners and Co-conveners in charge of Basic Course Workshops/CISP in Nodal and Regional Centres to ensure uniformity in teaching-learning material across the medical colleges in the country.

Action Plan for CISP (Fig 1):

The Action Plan for CISP was finalised as a detailed program which would ensure that training of faculty is conducted as a well-planned stepwise exercise, which is detailed below:

<table>
<thead>
<tr>
<th>Two National level CISP at MCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trainers: Expert Gr. members &amp; few invitees</td>
</tr>
<tr>
<td>Trainees: Conveners &amp; Co-conveners of NCs &amp; RCs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CISP 1 at ME Dept. of NCs &amp; RCs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trainers: Convener &amp; Co-convener of NC/RC</td>
</tr>
<tr>
<td>Trainees: ME Resource &amp; in-house Faculty, Curriculum Committee members &amp; MEU faculty of colleges</td>
</tr>
</tbody>
</table>
Fig. 1. Action Plan of CISP 1

- Training of Conveners and Co-conveners of MCI Nodal and Regional centres by members of Expert group (17-18th January & 23-24th January, 2019) to familiarise them on various new concepts included in the new Competency based UG curriculum. These faculty became resource faculty to train the college faculty.

- Conduct of CISP I at Nodal and Regional Centres for faculty of the Department of Medical Education of these Centres (completed by first week of February, 2019).

- Conduct of CISP I at Nodal and Regional Centres for Curriculum Committee members and faculty of Medical Education Units of colleges (completed by end of April, 2019).

- Last phase in conduct of CISP I: CISP I Workshops were held at colleges allotted to each centre, under supervision by an observer from the Centre (started in May 2019 and continued till July 31, 2019 when the new academic session started). The Observer ensured maintenance of the quality of the CISP and report by the Observer submitted to MCI ensured evaluation of the program and maintenance of quality standards.

- CISP I was conducted separately in newly recognised colleges.

<table>
<thead>
<tr>
<th>CISP 1 at medical colleges</th>
<th>Trainers: CC/MEU faculty of the college</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trainees: Faculty of the college</td>
<td>Observer: From NC/RC, nominated by MCI</td>
</tr>
</tbody>
</table>

The reports from these workshops (Convener Report from Nodal and Regional Centres) and Observer report submitted by MCI nominated experts on completion of
CISP 1 at the concerned college along with list of participants were compiled and recorded.

**Curriculum Implementation Support Program (CISP I)**

The Program and schedule of conduct of CISP 1 was prepared by the members of the Expert Group and was approved by the Board of Governors. The following session topics were included in CISP 1 (Table 1):

**Table 1. Topics included in CISP I**

- Competency Based Medical Education (CBME)
- IMG: Goals, roles & competencies
- Deriving objectives, teaching learning methods & assessment from competencies
- Regulations on Graduate Medical Education (Amendment), 2019
- Foundation Course
- Attitude, Ethics and Communication (AETCOM) Module
- Electives
- Alignment & integration of competencies
- Assessment in CBME
- Early clinical Exposure
- Skills training
- Curricular Governance

The CISP I included sessions on concepts and hands-on training on various topics. This standardised pattern of CISP training was adhered to by all Centres and also by the medical colleges which was monitored by MCI observers. The background session documents included a CISP booklet containing details on concepts and conduct of various sessions.

**Learning Resource Material (LRM)**
The participants were provided LRM in advance in the form of Faculty Guides and print out of Power Point slides. Further, the following modules prepared by Expert Group have been uploaded on MCI Website and were used as reference material.

- Module on Attitude, Ethics & Communication (AETCOM)
- Module on Foundation Course
- Module on Early Clinical Exposure
- Module on Assessment
- Module on Alignment & Integration
- Module on Skills training
- Sample of Log Book

Results

Two CISP I workshops were held at the Medical Council of India at the beginning of the program in which 42 faculty who are Conveners and Co-conveners of Nodal and Regional Centres were trained in CISP I by the Expert Group members who acted as Resource Faculty. The first CISP I workshop at MCI was held from 17-18 January, 2019 and the second workshop from 23-24 January, 2019.

The list of 404 colleges which participated in CISP I is given as Annexure I.

Summary of the number of CISP I conducted by Nodal centres, Regional Centres and by colleges and faculty training details are given below:
A. CISP I conducted by MCI, Nodal & Regional Centres
   - No. of CISP I conducted at MCI: 02
   - No. of CISP I conducted by Nodal centres: 77
   - No. of CISP I conducted by Regional Centres: 74
   - Total no. of CISP I conducted by Nodal & Regional Centres: 153

B. CISP I conducted by colleges
   - No. of colleges under Nodal centres which conducted CISP I: 195
   - No. of colleges under Regional centres which conducted CISP I: 209
   - Total no. of colleges which conducted CISP I: 404

C. Faculty training details
   - No. of faculty trained in CISP I by Nodal Centres: 2004
   - No. of faculty trained in CISP I in colleges under Nodal centre observership: 5573
     - Total no. of faculty trained in CISP I by Nodal Centres: 7577
   - No. of faculty trained in CISP I by Regional centres: 1955
   - No. of faculty trained in CISP I in colleges under Regional centre observership: 5935
     - Total no. of faculty trained in CISP I by Regional Centres: 7890
   - Total no. of faculty trained under CISP I program: 15509 (7577 + 7890 + 42)
   - Total no. of CISP Es done: 557 (153 + 404)

An observation of interest is that Nodal centres, while lesser in number, conducted almost equal or more no. of CISP I, compared to Regional Centres.

The details of (a) number of CISP I conducted at each Nodal & Regional Centres, (2) observed in colleges and (3) number of faculty trained in each category are given in
Tables 2 & 3. The consolidated data of CISP I conducted and faculty trained are summarised in Table 4.

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Name of NC</th>
<th>No. of CISP 1</th>
<th>No. of FACULTY</th>
<th>No. of CISP 2</th>
<th>No. faculty trained at</th>
<th>Total no. of CISP 1 done</th>
<th>Total no. of faculty trained</th>
</tr>
</thead>
</table>

Table 2: No. of CISP I conducted and faculty trained in CISP I by Nodal Centres (NCs)
<table>
<thead>
<tr>
<th></th>
<th>done at NCs</th>
<th>trained at NCs</th>
<th>observed at colleges</th>
<th>colleges by NCs</th>
<th>by NCs + Colleges</th>
<th>by NCs + colleges under NCs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>CMC, Ludhiana</td>
<td>9</td>
<td>233</td>
<td>22</td>
<td>639</td>
<td>31</td>
</tr>
<tr>
<td>2.</td>
<td>JNMC, Wardha</td>
<td>7</td>
<td>187</td>
<td>14</td>
<td>398</td>
<td>21</td>
</tr>
<tr>
<td>3.</td>
<td>Seth GS &amp; KEM Hospital, Mumbai</td>
<td>8</td>
<td>218</td>
<td>17</td>
<td>494</td>
<td>25</td>
</tr>
<tr>
<td>5.</td>
<td>Smt. NHL MC, Ahmedabad</td>
<td>7</td>
<td>183</td>
<td>23</td>
<td>675</td>
<td>30</td>
</tr>
<tr>
<td>6.</td>
<td>St. John’s MC, Bangalore</td>
<td>9</td>
<td>251</td>
<td>30</td>
<td>823</td>
<td>39</td>
</tr>
<tr>
<td>7.</td>
<td>GMC, Kottayam</td>
<td>7</td>
<td>186</td>
<td>17</td>
<td>475</td>
<td>24</td>
</tr>
<tr>
<td>8.</td>
<td>PMC, Karamsad</td>
<td>7</td>
<td>178</td>
<td>19</td>
<td>528</td>
<td>26</td>
</tr>
<tr>
<td>9.</td>
<td>CMC, Vellore</td>
<td>8</td>
<td>194</td>
<td>20</td>
<td>593</td>
<td>28</td>
</tr>
<tr>
<td>10.</td>
<td>JNMC, Belagavi</td>
<td>6</td>
<td>137</td>
<td>20</td>
<td>586</td>
<td>26</td>
</tr>
<tr>
<td>Total</td>
<td>77</td>
<td>2004</td>
<td>195</td>
<td>5573</td>
<td>272</td>
<td>7577</td>
</tr>
</tbody>
</table>
Table 3. No. of CISP I conducted and faculty trained in CISP I by Regional Centres (RCs)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of RC</th>
<th>No. of CISPs done at Centre</th>
<th>No. of faculty trained at Centre</th>
<th>No. of CISP observed at colleges</th>
<th>No. faculty trained at colleges</th>
<th>Total no. of CISPs done by 12 RCs + Colleges</th>
<th>Total no. of faculty trained by 12 NCs + colleges under RCs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MAMC, Delhi</td>
<td>8</td>
<td>230</td>
<td>24</td>
<td>689</td>
<td>32</td>
<td>919</td>
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<tr>
<td>2.</td>
<td>GMC, Secunderabad</td>
<td>8</td>
<td>220</td>
<td>24</td>
<td>666</td>
<td>32</td>
<td>886</td>
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<tr>
<td>3.</td>
<td>SCB MC, Cuttack</td>
<td>5</td>
<td>122</td>
<td>17</td>
<td>478</td>
<td>22</td>
<td>600</td>
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<tr>
<td>4.</td>
<td>MUHS, Nashik</td>
<td>2</td>
<td>54</td>
<td>13</td>
<td>360</td>
<td>15</td>
<td>414</td>
</tr>
<tr>
<td>5.</td>
<td>SAIMS, Indore</td>
<td>10</td>
<td>246</td>
<td>17</td>
<td>462</td>
<td>27</td>
<td>708</td>
</tr>
<tr>
<td>6.</td>
<td>GMC, Kozhikode</td>
<td>5</td>
<td>132</td>
<td>16</td>
<td>471</td>
<td>21</td>
<td>603</td>
</tr>
<tr>
<td>7.</td>
<td>KGMU, Lucknow</td>
<td>7</td>
<td>204</td>
<td>16</td>
<td>456</td>
<td>23</td>
<td>660</td>
</tr>
<tr>
<td>8.</td>
<td>AMC, Visakhapatnam</td>
<td>6</td>
<td>151</td>
<td>19</td>
<td>538</td>
<td>25</td>
<td>689</td>
</tr>
<tr>
<td>9.</td>
<td>HIMS, Dehradun</td>
<td>6</td>
<td>141</td>
<td>16</td>
<td>466</td>
<td>22</td>
<td>607</td>
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<tr>
<td>10.</td>
<td>JIPMER, Puducherry</td>
<td>6</td>
<td>150</td>
<td>15</td>
<td>420</td>
<td>21</td>
<td>570</td>
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<tr>
<td>12.</td>
<td>AFMC, Pune</td>
<td>3</td>
<td>90</td>
<td>8</td>
<td>237</td>
<td>11</td>
<td>327</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>74</td>
<td>1955</td>
<td>209</td>
<td>5935</td>
<td>283</td>
<td>7890</td>
</tr>
</tbody>
</table>
Table 4: Consolidated data of CISP I conducted and faculty trained

<table>
<thead>
<tr>
<th></th>
<th>No. of CISPs done</th>
<th>No. of faculty trained</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>At Centres</td>
<td>Observed at colleges</td>
</tr>
<tr>
<td>MCI</td>
<td>2</td>
<td>-</td>
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<tr>
<td>Nodal centres</td>
<td>77</td>
<td>195</td>
</tr>
<tr>
<td>Regional centres</td>
<td>74</td>
<td>209</td>
</tr>
<tr>
<td>Grand Total</td>
<td>153</td>
<td>404</td>
</tr>
</tbody>
</table>

Specialty-wise distribution of trainees

The data obtained was analysed regarding the specialty-wise distribution of faculty viz., pre-clinical, para-clinical, Medicine & allied specialties and Surgery & allied specialties (Tables 5, 6, 7). Maximum number of faculty were trained in CISP I in pre-clinical subjects by Nodal Centres whereas Regional Centres trained almost equal number of faculty from pre-clinical and para-clinical subjects. The minimum number of trained faculty was in Surgery and allied disciplines. This is in conformity with the need for pre-clinical faculty to take up implementation of the new competency based curriculum from year 01 while the vertically and horizontally integrated nature of new UG curriculum requires considerable participation by faculty from para-clinical, Medicine, Surgery and allied subjects.
Table 5: Details of faculty trained speciality-wise in CISP I by Medical Council of India & MCI Nodal Centres

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of NC</th>
<th>Total No. of CISPs Done</th>
<th>No. of faculty trained in preclinical subjects</th>
<th>No. of faculty trained in paraclinical subjects</th>
<th>No. of faculty trained in Medicine &amp; allied subjects</th>
<th>No. of faculty trained in Surgery &amp; allied subjects</th>
<th>Total Number of faculty trained</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>S.N</th>
<th>Name of RC</th>
<th>Total No. of CISPs done</th>
<th>No. of faculty trained in pre-clinical subjects</th>
<th>No. of faculty trained in para-clinical subjects</th>
<th>No. of faculty trained in Medicine &amp; allied subjects</th>
<th>No. of faculty trained in Surgery &amp; allied subjects</th>
<th>Total Number of faculty trained</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MAMC, New Delhi</td>
<td>32</td>
<td>251</td>
<td>252</td>
<td>200</td>
<td>216</td>
<td>919</td>
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</table>

Table 6: Details of faculty trained speciality-wise in CISP I by MCI Regional Centres
<table>
<thead>
<tr>
<th>No.</th>
<th>Hospital Name</th>
<th>1</th>
<th>2</th>
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<th>4</th>
<th>5</th>
<th>6</th>
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</thead>
<tbody>
<tr>
<td>2.</td>
<td>Gandhi MC, Hyderabad</td>
<td>32</td>
<td>248</td>
<td>283</td>
<td>192</td>
<td>163</td>
<td>886</td>
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<td>3.</td>
<td>SCB MC, Cuttack</td>
<td>22</td>
<td>151</td>
<td>176</td>
<td>147</td>
<td>126</td>
<td>600</td>
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<td>4.</td>
<td>MUHS, Nashik</td>
<td>15</td>
<td>133</td>
<td>130</td>
<td>65</td>
<td>86</td>
<td>414</td>
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<td>5.</td>
<td>SAIMS, Indore</td>
<td>27</td>
<td>192</td>
<td>194</td>
<td>167</td>
<td>155</td>
<td>708</td>
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<td>6.</td>
<td>GMC, Calicut</td>
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<td>127</td>
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<td>603</td>
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<td>7.</td>
<td>KGMU, Lucknow</td>
<td>23</td>
<td>176</td>
<td>164</td>
<td>163</td>
<td>157</td>
<td>660</td>
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<td>8.</td>
<td>Andhra MC, Visakhapatnam</td>
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<td>156</td>
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<td>689</td>
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<td>9.</td>
<td>HIMS, Dehradun</td>
<td>22</td>
<td>159</td>
<td>170</td>
<td>140</td>
<td>138</td>
<td>607</td>
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<td>10.</td>
<td>JIPMER, Puducherry</td>
<td>21</td>
<td>177</td>
<td>156</td>
<td>111</td>
<td>126</td>
<td>570</td>
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<td>11.</td>
<td>Jorhat MC, Jorhat</td>
<td>32</td>
<td>266</td>
<td>279</td>
<td>185</td>
<td>177</td>
<td>907</td>
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<td>12.</td>
<td>AFMC, Pune</td>
<td>11</td>
<td>97</td>
<td>100</td>
<td>69</td>
<td>61</td>
<td>327</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>283</td>
<td>2241</td>
<td>2278</td>
<td>1722</td>
<td>1649</td>
<td>7890</td>
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</tbody>
</table>
Table 7: Consolidated data of faculty trained speciality-wise in CISP I by MCI, Nodal and Regional Centres

<table>
<thead>
<tr>
<th></th>
<th>In pre-clinical subjects</th>
<th>In para-clinical subjects</th>
<th>In Medicine &amp; allied subjects</th>
<th>In Surgery &amp; allied subjects</th>
<th>Total no. of faculty trained</th>
</tr>
</thead>
<tbody>
<tr>
<td>At MCI</td>
<td>12</td>
<td>09</td>
<td>13</td>
<td>08</td>
<td>42</td>
</tr>
<tr>
<td>By Nodal Centres*</td>
<td>2284</td>
<td>2048</td>
<td>1702</td>
<td>1543</td>
<td>7577</td>
</tr>
<tr>
<td>By Regional Centres*</td>
<td>2241</td>
<td>2278</td>
<td>1722</td>
<td>1649</td>
<td>7890</td>
</tr>
<tr>
<td>Total no. of faculty trained</td>
<td>4537</td>
<td>4335</td>
<td>3437</td>
<td>3200</td>
<td>15509</td>
</tr>
</tbody>
</table>

*including colleges under NC/RC

Discussion

Undergraduate medical education in India was revamped with introduction and implementation of the much needed new competency-based curriculum for MBBS from the academic year 2019. The overall goal of the new curriculum is to have an Indian Medical Graduate (IMG) possessing requisite knowledge, skills, attitudes, values and responsiveness, so that he or she may function appropriately and effectively as a physician of first contact of the community while being globally relevant. India has highest number of medical colleges in a country and produced ~78,955 graduates in 2019. These medical graduates contribute to health care in India as well as in other countries. Hence, the new curriculum and the training imparted to the graduate student will be important for the Indian health care system as well as impact that of other countries.

The herculean task of framing the new competency based curriculum was accompanied with the realisation that training the faculty in medical colleges in the nuances contained in it is imperative if the implementation of the new curriculum is to
proceed smoothly, seamlessly and effectively. In consequence, a Curriculum Implementation Support Program (CISP I) was designed and implemented from academic year January 2019 until July 2019 in colleges.

An analysis of the outcome of the Curriculum Implementation Support Program I to train undergraduate college teachers in the newly notified Competency based UG curriculum showed that 404 colleges conducted CISP by the end of July 31, 2019 which was used as the cut-off point since new UG teaching sessions begin from August 1, 2019. **The CISP phase 1 has been implemented through 557 programs which trained 15,509 faculty from January-July end, 2019, in a record time of ~ 07 months.** Attention was specifically focused on the composition of faculty trainees. The new UG curriculum, being vertically and horizontally integrated, training of preclinical and para-clinical faculty were given priority while lesser number of faculty from Medicine, Surgery and allied disciplines were trained in CISP I. The consolidated table depicting the specialty-wise training of faculty shows that this objective has been achieved successfully. The maximum number of faculty per CISP was restricted to 30 in order to facilitate small group discussions, individual presentations, discussion with resource faculty etc.

The number of CISP's conducted and participants trained by both Regional and Nodal Centres were more or less similar; data showed that some of the Regional Centres were very proactive in conducting this program which is very heartening. The number of CISP's conducted by Nodal Centres varied from 21-39 and by Regional Centres varied from 11-32; this is a reflection of factors like the number of colleges allocated to each Centre, compliance by the Dean of the college to conduct CISP, the degree of involvement and commitment from Conveners/Co-conveners/MEU coordinator in conducting the CISP etc. It is hoped that there would be further improvement in performance index in succeeding years.

Each CISP was followed by report submission by MCI observer. The report contains the list of participants, list of resource faculty, feedback on quality of sessions and retro-pre assessment on each session by participants on gain in knowledge and importance. Interim analysis of reports was done 5 times in 5 reports by National Coordinator, CISP.
The reports were analysed regarding various components of the CISP-1 program. Evaluation of participants by the observer appointed by MCI showed an average score close to 4 for four parameters i.e. punctuality, interactions in sessions, use of learning aids in group work presentations and enthusiasm (figure 2). This indicates a highly interactive and enthusiastic participation by participants.

Figure 2. Evaluation of participants by observer on a scale of 1-5 (1-Least; 5-Maximum)
Observer appointed by MCI evaluated the conduct of CISP-1 programs based on 10 parameters as shown in figure 3. The score is close to 4 indicating successful conduct of the CISP-1 in medical colleges. This depicts the level of preparedness of the Curriculum Committee of the colleges supported by MEU.

![Figure 3: Evaluation of workshop by observers on a scale of 1-5 (1-lowest; 5-highest)](image)

A retroprep feedback was obtained from all participating faculty. There was improvement in knowledge and understanding the importance of the session topic, after the workshop as compared to pre-workshop score.

In general, CISP-1 created much needed awareness about the new curriculum and its implementation and was received very well by participant faculty who appreciated the concept and the contents of the document.

The process of development and implementation of a new curriculum is a highly complex process which is time consuming. Training faculty to implement a new
curriculum has been a difficult issue the world over due to multiple factors.\(^4\),\(^5\),\(^6\). In India, the presence of large number of medical colleges of widely varying infrastructural facility, number and competency of faculty and commitment to medical education by authorities, the challenge to excellence in medical education is formidable. Our experience shows that it requires plenty of time, patience, effort and resources to develop, deliver and implement a program covering ~534 medical colleges in the country.

**The enabling factors**

The factors that helped in the successful implementation of CISP training included:

1. **Standardised CISP topics & schedule**: which was followed by all medical colleges.

2. **Supporting documents**: Supporting documents provided by the Academic Cell in advance as modules and continuous updates in material. Various modules involved in teaching the new curriculum as a requirement of compliance of Regulations on Graduate Medical Education (Amendment), 2019\(^6\) were prepared sufficiently in advance by the Expert Group and uploaded on the MCI Website as Learning Resource Material, was a significant enabling factor.

3. **Substantial financial and administrative support**: to the MCI Nodal and Regional Centres for conduct of CISP I by MCI, a unique gesture by a regulator to implement the new curriculum.

4. **Strict monitoring of quality of training** with a scoring system to monitor the performance of participants, certificates being given to only those participants who have attended all sessions and completed all academic requirements.

5. **The feedback from participants** which was given due weightage during updating of the program and guidelines.

6. **A network of committed medical educators** who are well connected through Regional/Nodal Centres and medical colleges.

In conclusion, it is felt that the Curriculum Implementation Support Program I is a unique program wherein a nation is carrying out this massive revamping of undergraduate medical education in the country, at such a magnitude through existing network of Centres involved in Faculty Development Program. CISP I is essentially a Faculty Development program, initiated and maintained by the Medical Council of India which has
been able to implement the new competency based undergraduate curriculum uniformly and effectively among a large proportion of medical colleges across the country and would help to improve the undergraduate teaching program substantially. The major contributors to the success of this program is the drive, commitment and perseverance shown by the Conveners and, co-conveners and resource faculty of Nodal and Regional Centres and the driving force, knowledge, commitment and patience shown by the members of the Expert Group, dedicated to the improvement of medical education in the country. However, much needs to be done further to ensure that the Curriculum Implementation Program is carried further through the remaining years in implementing the new curriculum.

References:

Annexure I
List of colleges which conducted Curriculum Implementation Support Program-1, 2019
A. NODAL CENTRES located at:

1. Christiana Medical College, Ludhiana, Punjab
   1. Punjab Institute of Medical Sciences, Jalandhar, Punjab
   2. Dayanand Medical College, Ludhiana, Punjab
   3. Shri Guru Ram Das Institute of Medical Sciences & Research, Amritsar, Punjab
   4. Government Medical College, Amritsar, Punjab
   5. Guru Gobind Singh Medical College, Faridkot, Punjab
   6. Government Medical College, Patiala, Punjab
   7. Adesh Institute of Medical Sciences & Research, Bathinda, Punjab
   8. Government Medical College, Chandigarh
   9. Calcutta National Medical College, Kolkata, West Bengal
   10. Institute of Post Graduate Medical Education & Research, Kolkata, West Bengal
   11. ESI-PGIMSR, ESIC Medical College, Joka, Kolkata, West Bengal
   12. RG Kar Medical College, Kolkata, West Bengal
   13. North Bengal Medical College, Siliguri, West Bengal
   14. College of Medicine & Sagore Dutta Hospital, Kolkata, West Bengal
   15. Medical College Kolkata, Kolkata, West Bengal
   16. Nilratan Sircar Medical College, Kolkata, West Bengal
   17. KPC Medical College, Kolkata, West Bengal
   18. Acharya Shri Chander College of Medical Sciences, Jammu, J & K
   19. Sher-I-Kashmir Institute of Medical Sciences, Srinagar, J & K
   20. Government Medical College, Srinagar, J & K
   21. Government Medical College, Jammu, J & K
   22. Pandit Deendyal Upadhyaya Medical College, Churu, Rajasthan
2. Jawaharlal Nehru Medical College, Wardha, Maharashtra

1. SRT Rural Government Medical College, Ambejogai, Maharashtra
2. Mahatma Gandhi Institute of Medical Sciences, Wardha, Maharashtra
3. Shri VasantraoNaik Govt. Medical College, Yavatmal, Maharashtra
4. Dr.PanjabraoDeshmukh Memorial Medical College, Amravati, Maharashtra
5. NKP Salve Institute of Medical Sciences and Research Centre, Nagpur, Maharashtra
6. Government Medical College Chandrapur, Maharashtra
7. Government Medical College, Nagpur, Maharashtra
8. Indira Gandhi Government Medical College, Nagpur, Maharashtra
9. Maharashtra Institute of Medical Sciences & Research, Latur, Maharashtra
10. Government Medical College, Gondiya, Maharashtra
11. Government Medical College, Latur, Maharashtra
12. Government Medical College, Akola, Maharashtra
13. Shri Shankaracharya Institute of Medical Sciences, Bhilai, Chhattisgarh
14. Rajiv Gandhi Institute of Medical Sciences, Adilabad, Telangana
3. Seth GS Medical College & KEM hospital, Mumbai, Maharashtra

1. Mahatma Gandhi Mission's Medical College, Navi Mumbai, Maharashtra
2. B. K. L. Walawalkar Rural Medical College, Sawarde, Dist, Ratnagiri, Maharashtra
3. Grant Govt Medical College, Mumbai, Maharashtra
4. HinduhridaysamratBalasaheb Thackeray Medical College, Mumbai, Maharashtra
5. Topiwala National Medical College, Mumbai, Maharashtra
6. Dr. D. Y. Patil Medical College, Navi-Mumbai, Maharashtra
7. RajarshiChhatrapatiShahuMaharaj Govt. Medical College, Kolhapur, Maharashtra
8. Rajiv Gandhi Medical College, Kalwa, Thane, Maharashtra
9. Lokmanya Tilak Municipal Medical College, Mumbai, Maharashtra
10. Government Medical College, Miraj, Maharashtra
11. GMERS Medical College, Valsad, Maharashtra
12. K. J. Somaiya Medical College, Sion, Mumbai, Maharashtra
13. Grant Govt Medical College, Mumbai, Maharashtra
14. Terna Medical College, Nerul West, Navi Mumbai, Maharashtra
15. D. Y. Patil Medical College, Kolhapur, Maharashtra, Maharashtra
16. BharatiVidyapeeth (Deemed to be University) Medical College, Sangli, Maharashtra
17. Prakash Institute of Medical Science and Research, Urun-Islampur, Maharashtra
4. Sri Ramachandra Medical College & Research Institute, Chennai, Tamil Nadu

1. ESIC Medical College & PGIMSR, Chennai, Tamil Nadu
2. ACS Medical College and Hospital, Chennai, Tamil Nadu
3. Saveetha Medical College, Chennai, Tamil Nadu
4. Madras Medical College, Chennai, Tamil Nadu
5. K.A.P. Viswanatham Govt. Medical College, Tiruchirappalli, Tamil Nadu
6. Government Kilpauk Medical College, Chennai, Tamil Nadu
7. Sri Balaji Medical College, Chennai, Tamil Nadu
8. Trichy SRM Medical College Hospital and Research Centre, Irungalur, Trichy, Tamil Nadu
9. Government Stanley Medical College, Chennai, Tamil Nadu
10. SRM Medical College Hospital and Research Centre, Kancheepuram, Tamil Nadu
11. Sri Muthukumaran Medical College Hospital & RI, Chennai, Tamil Nadu
12. Tagore Medical College & Hospital, Chennai, Tamil Nadu
13. Andaman & Nicobar Islands Institute of Medical Sciences, Port Blair
5. Smt. NHL Municipal Medical College, Ahmedabad, Gujarat

1. GMERS Medical College, Dhanpur, Patan, Gujarat
2. Parul Institute of Medical Sciences & Research, Vadodra, Gujarat
3. B J Medical College, Ahmedabad, Gujarat
4. Dr. M K Shah Medical College and Research Centre, Ahmedabad, Gujarat
5. GCS Medical College, Hospital & Research Centre, Ahmedabad, Gujarat
6. GMERS Medical College, Varodara, Gujarat
7. AMC MET Medical College, Ahmedabad, Gujarat
8. GMERS Medical College, Opposite Pathikashram, Gandhinagar, Gujarat
9. GMERS Medical College, Himmatnagar, Gujarat
10. GMERS Medical College, Sola, Ahmedabad, Gujarat
11. Zydus Medical College and Hospital, Neemnaliya, Dahod, Gujarat
12. Dr. N. D. Desai Faculty of Medical Sciences and Research, Nadiad, Gujarat
13. American International Institute of Medical Sciences, Udaipur, Rajasthan
14. Pacific Medical College & hospital, Udaipur, Rajasthan
15. Jhalawar Medical College, Jhalawar, Rajasthan
16. Government Medical College, Kota, Rajasthan
17. RNT Medical College, Udaipur, Rajasthan
18. Ananta Institute of Medical Sciences & Research Center, Rajsamand, Rajasthan
19. Gujarat Adani Institute of Medical Sciences, Bhuj, Rajasthan
20. Geetanjali Medical College & Hospital, Udaipur, Rajasthan
21. Sardar Patel Medical College, Bikaner, Rajasthan
22. Pacific Institute of Medical Sciences, Udaipur, Rajasthan
6. St. John’s Medical College, Bangalore, Karnataka

1. Adichunchanagiri Institute of Medical Sciences, Mandya
2. Bangalore Medical College and Research Institute, Bangalore
3. Basaveshwara Medical College, Chitradurga
4. Dr. B.R. Ambedkar Medical College, Bangalore
5. BGS Global Institute of Medical Sciences, Bangalore
6. ESIC Medical College & PGIMSR, Bangalore
7. Sri DevarajUrs Medical College, Tamaka, Kolar
8. Father Muller Medical College, Mangalore
9. Hassan Institute of Medical Sciences, Hassan
10. JSS Medical College, SS Nagar, Bannimantap, Mysuru
11. K.V.G. Medical College, Kurunjibag, Sullia
12. Kempegowda Institute of Medical Sciences, Bangalore
13. Kasturba Medical College, Mangalore
14. Kasturba Medical College, Manipal
15. Mysore Medical College and Research Institute, Mysore
16. M S Ramaiah Medical College, Bangalore
17. Mandya Institute of Medical Sciences, Mandya
18. MVJ MC & Research Hospital, Bangalore
19. Sri Siddhartha Medical College, Tumkur
20. Sapthagiri Institute of Medical Sciences & Research Centre, Bangalore
21. Srinivas Institute of Medical Sciences & RC Mukka, Mangalore
22. Subbaiah Institute of Medical Sciences, Purale, Shivamogga
23. Shridevi Institute of Medical Sciences & Research Hospital, Tumakuru
24. Rajarajeswari Medical College & Hospital, Bangalore
25. Vydehi Institute of Medical Sciences, Bangalore
26. The Oxford Medical College, Bangalore
27. Kodagu Institute of Medical Sciences, Bangalore
28. Chamarajanagar Institute of Medical Sciences, Chamarajanagar
29. East Point College of Medical Sciences and Research Centre, Bangalore
30. K S Hegde Medical Academy, Mangaluru
7. **Government Medical College, Kottayam, Kerala**

1. Al-Azhar Medical College, Thodupuzha, Kerala
2. Amrita Institute of Medical Sciences, Ponekkara, Kochi
3. Azeezia Institute of Medical Sciences, Kollam
4. Believers Church Medical College, Kuttapuzha Thiruvalla
5. Dr. Somervell Memorial CSI Medical College, Karakonam, Thiruvananthapuram
6. Government Medical College, Ernakulam
7. Govt. Medical College, Idukki
8. Government Medical College, Kollam
9. Government Medical College, Thiruvananthapuram
10. Government T.D. Medical College, Alappuzha
11. M.O.S.C Medical College, Kolenchery
12. Mount Zion Medical College, Adoor, Pathanamthitta, Kerala
13. Pushpagiri Institute of Medical Sciences & Research Centre, Thiruvalla
14. SreeGokulam Medical College, Venjaramoodu, Thiruvananthapuram
15. SUT Academy of Medical Sciences, Thiruvananthapuram
16. SreeNarayana Institute Of Medical Sciences, Chalakka, Eranakulam
17. Travancore Medical College, Kollam
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<td>3.</td>
<td>Surat Municipal Institute of Medical Education &amp; Research</td>
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<td>C. U. Shah Medical College</td>
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<td>G.M.E.R.S Medical College and Hospital</td>
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<td>Pandit Deendayal Upadhyay Medical College</td>
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<td>9.</td>
<td>Banas Medical College &amp; Research Institute</td>
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<td>Shri M. P. Shah Government Medical College</td>
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<td>Jaipur National University Institute for Medical Sciences &amp; Research Centre</td>
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<td>SMS Medical College</td>
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<td>Rajasthan</td>
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<td>Jodhpur</td>
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<td>18.</td>
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<td>Jaipur</td>
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<td>Ajmer</td>
<td>Rajasthan</td>
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</table>
9. Christian Medical College, Vellore, Tamil Nadu

1. PSG Institute of Medical Sciences & Research, Peelamedu, Coimbatore, TN
2. KarpagaVinayaga Institute of Medical Sciences & Research, Kanchipuram, TN
3. Shri SathyaSai Medical College & Research Institute, Kancheepuram, TN
4. Coimbatore Medical College, Coimbatore, TN
5. PES Institute of Medical Sciences & Research, Kuppam, TN
6. S V Medical College, Tirupati, TN
7. Meenakshi Medical College and Research Institute, Kancheepuram, TN
8. IRT Perundurai Medical College, Perundurai, TN
9. Chettinad Hospital & Research Institute, Kelambakkam, Kancheepuram, TN
10. Madurai Medical College, Madurai, TN
11. Melmaruvathur Adiparasakthi Institute of Medical Sciences & Research, Melmaruvathur, TN
12. Government Villupuram Medical College, Villupuram, TN
13. Chengalpattu Medical College, Chengalpattu, TN
14. Government Sivagnagai Medical College & Hospital, Sivagangai, TN
15. SVIMS-Sri Padmavathi Medical College for Women, Tirupati, TN
16. Government Vellore Medical College, Vellore, TN
17. Government Dharmapuri Medical College, Dharmapuri, TN
18. Government Medical College, Ananthapuram, Andhra Pradesh (AP)
19. Apollo Institute of Medical Sciences & Research, Chittoor, AP
20. Government Medical College, Kadapa, AP
10. Jawaharlal Nehru Medical College, Belagavi, Karnataka

1. Belagavi Institute of Medical Sciences, Belagavi
2. SDM College of Medical Sciences & Hospital, Dharwad
3. Karwar Institute of Medical Sciences, Karwar
4. Koppal Institute of Medical Sciences, Koppal
5. MahadevappaRampure Medical college, Kalaburagi
6. BLDE (DU) S B M P Medical College, Vijayapur
7. Raichur Institute of Medical Sciences, Raichur
8. Gulbarga Institute of Medical Sciences, Kalaburagi
9. JJM Medical College Davangere
10. S.S Institute of Medical Sciences and Research Centre, Davangere
11. Navodaya Medical College, Raichur
12. Bidar Institute of Medical Sciences, Bidar
13. ESIC Medical College, Kalaburagi
14. S N Medical College, Bagalkot
15. Gadag Institute of Medical Sciences, Gadag
16. Vijayanagar Institute of Medical Sciences, Ballari
17. Al-Ameen Medical College, Vijayapur
18. Karnataka Institute of Medical Sciences, Hubballi
19. Shivamogga Institute of Medical Sciences, Shimoga.
20. Goa Medical College, Goa
B. REGIONAL CENTRES

1. Maulana Azad Medical College, New Delhi
   1. Dr. Baba Saheb Ambedkar Medical College, Rohini, Delhi
   2. Hamdard Institute of Medical Sciences and Research, Jamia Hamdard, New Delhi
   3. Army College of Medical Sciences, Delhi Cantt., New Delhi
   4. Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi
   5. University College of Medical Sciences and GTB Hospital, Delhi
   6. Santosh Medical College & Hospital, Ghaziabad, NCR Delhi
   7. Lady Hardinge Medical College, Shaheed Bhagat Singh Marg, New Delhi
   8. Faculty of Medicine & Health Sciences, Budhera, Gurugram, Haryana
   9. Adesh Medical College & Hospital, Shahabad(M), Haryana
   10. Kalpana Chawla Government Medical College, Model Town, Karnal, Haryana
   11. Pt BD Sharma Post Graduate Institute of Medical Sciences, Rohtak, Haryana
   12. Maharaja Agrasen Medical College, Agroha, Hisar, Haryana
   13. SHKM GMC, Nalhar, Nuh, Haryana
   14. Bhagat Phool Singh Government Medical College for Women, Khanpur, Kalan, Sonepat, Haryana
   15. M M Institute of Medical Sciences & Research, Mullana, Ambala, Haryana
   16. ESIC Medical College, Faridabad, Haryana
   17. Rama Medical College Hospital & Research Centre, Hapur, UP
   18. Subharti Medical College, Meerut, UP
   19. L.L.R.M. Medical College, Meerut, UP
   20. Saraswathi Institute of Medical Sciences, Hapur, UP
   21. Kanti Devi Medical College Hospital & Research Centre, Mathura, UP
   22. S.N. Medical College, Agra, UP
   23. GS Medical College & Hospital, Hapur, UP
   24. School of Medical Sciences & Research, Sharda University, Greater Noida, U.P
2. Gandhi Medical College, Hyderabad, Telangana

1. Malla Reddy Medical College for Women, Hyderabad, Telangana
2. Kamineni Academy of Medical Sciences & Research Centre, Hyderabad, Telangana
3. Bhaskar Medical College, Hyderabad, Telangana
4. Malla Reddy Institute of Medical Sciences, Hyderabad, Telangana
5. Apollo Institute of Medical Sciences & Research, Hyderabad, Telangana
6. Mamata Medical College, Khammam, Telangana
7. Osmania Medical College, Hyderabad, Telangana
8. ESIC Medical College, Sanathnagar, Hyderabad, Telangana
9. Shadan Institute of Medical Sciences, Hyderabad, Telangana
10. Mamata Academy of Medical Sciences, Bachupally, Telangana
11. Ayaan Institute of Medical Sciences, Hyderabad, Telangana
12. Deccan College of Medical Sciences, Hyderabad, Telangana
13. Government Medical College, Nizamabad, Telangana
14. RVM Institute of Medical Sciences & Research Centre, Mulugu, Siddipet, Telangana
15. Prathima Institute of Medical Sciences, Karimnagar, Telangana
16. Kakatiya Medical College, Warangal, Telangana
17. Kamineni Institute of Medical Sciences, Narketpally, Telangana
18. Government Medical College, Siddipet, Telangana
19. MediCiti Institute of Medical Sciences, Ghanpur, MedchalMandal, Telangana
20. SVS Medical College, Mahabubnagar, Telangana
21. ChalmedaAnand Rao Institute of Medical Sciences, Karimnagar, Telangana
22. Kurmool Medical College, Kurnool, Andhra Pradesh (AP)
23. Santhiram Medical College, Nandyal, AP
24. Government Medical College & General Hospital, Mahabubnagar
3. SCB Medical College, Cuttack, Odisha

1. Veer SurendraSai Institute of Medical Sciences & Research, Burla, Odisha
2. Institute of Medical Sciences & SUM Hospital, Bhubaneswar, Odisha
3. Hi-Tech Medical College & Hospital, Bhubaneswar, Odisha
4. Kalinga Institute of Medical Sciences, Bhubaneswar, Odisha
5. Fakir Mohan Medical College & Hospital, Balasore, Odisha
6. Pandit Raghunath Murmu Medical College and Hospital, Baripada, Odisha
7. Saheed Laxman Nayak Medical College & Hospital, Koraput, Odisha
8. Bhima Bhoi Medical College, Balangir, Odisha
9. MKCG Medical College, Berhampur, Odisha
10. Patliputra Medical College, Dhanbad, Jharkhand
11. Rajendra Institute of Medical Sciences, Ranchi, Jharkhand
12. MGM Medical College, Jamshedpur, Jharkhand
13. Gouri Devi Institute of Medical Sciences & Hospital, Durgapur, West Bengal.
14. Late Shri Lakhiram Agrawal Memorial Medical College, Raigarh, Chhattisgarh
15. Raipur Institute of Medical Sciences, Raipur, Chhattisgarh
16. Chhattisgarh Institute of Medical Sciences, Bilaspur, Chhattisgarh
17. CCM Medical College, Durg, Chhattisgarh
4. **Maharashtra University of Health Sciences, Nashik, Maharashtra**

1. Govt. Medical College & Hospital, Aurangabad
2. SMBT IMS&RC, Dhamangaon, Nashik
3. SMBT IMS&RC, Dhamangaon, Nashik
4. MGM Medical College, Aurangabad
5. JIIU’s IIMSR Warudi, Tq. Badnapur Dist. Jalna
6. DVVPF’s Medical College, Ahmednagar
7. Dr. Vasantrao Pawar Medical College, Hospital & Research Center, Nashik
8. Rural Medical College, Loni
9. ACPM Medical College, Dhule
10. Dr. Ulhas Patil Medical College & Hospital, Jalgaon
11. Government Medical College, Jalgaon
12. Dr. S.C. Govt. Medical College, Vishnupuri, Nanded
13. Sri Bhausaheb Hire Government Medical College, Dhule
5. Sri Aurbindo Institute of Medical Sciences, Indore, MP

1. Gandhi Medical College, Bhopal, Madhya Pradesh (MP)
2. L.N. Medical College & Research Centre & J.K. Hospital, Bhopal, MP
3. People's College of Medical Sciences & Research Centre, Bhopal, MP
4. AtalBihari Vajpayee Govt. Medical College Vidisha, MP
5. Mahatma Gandhi Memorial Medical College, Indore, MP
6. R.D. Gardi Medical College, Surasa, Ujjain, MP
7. Index Medical College, Indore, MP
8. Chirayu Medical College & Hospital, Bhopal, MP
9. AIMS,Banger, Dewas Ujjain highway, Deaws, MP
10. N S C B Medical College, Jabalpur, MP
11. Government Medical College, Datia, MP
12. Government Medical College, Shivpuri, MP
13. Government Medical College, Khandwa, MP
14. Katihar Medical College, Katihar, Bihar
15. Narayan Medical College & Hospital, Jamuhar, Sasaram, Bihar
16. Mata Gujri Memorial Medical College, Kishanganj, Bihar
17. Indira Gandhi Institute of Medical Sciences, Patna, Bihar
6. Government Medical College, Calicut, Kerala

1. Kannur Medical College, Kannur, Kerala
2. Amala Institute of Medical Sciences, Thrissur, Kerala
3. DM WIMS Medical College, Naseera Nagar, Meppadi, Kerala
4. Government Medical College, Manjeri, Kerala
5. Government Medical College, Thrissur, Kerala
6. Government Medical College, Palakkad, Kerala
7. Jubilee Mission Medical College and RI, Thrissur, Kerala
8. Government Medical College Kannur, Pariyaram, Kannur District, Kerala
9. Karuna Medical College, Vilayodi, Chittur, Palakkad, Kerala
10. KMCT Medical College, Kozhikode, Calicut, Kerala
11. Malabar medical college & Research centre, Kozhikode, Kerala
12. MES Medical College, Perinthalmanna, Malappuram, Kerala
13. P.K. Das Institute Of Medical Sciences, Palakkad, Kerala
14. Kanachur Institute of Medical Sciences, Mangalore, Karnataka
15. Yenepoya Medical College, Deralakatte, Mangaluru, Karnataka
16. A.J Institute of Medical Sciences & Research Centre, Mangalore, Karnataka
7. King George’s Medical University, Lucknow, UP

1. Mayo Institute of Medical Sciences, Barabanki
2. Heritage Institute of Medical Sciences, Varanasi
3. Ram Manohar Lohia Avadh University/ Mayo Institute of Medical Sciences, Gadia, Barabanki
4. Integral Institute of Medical Sciences, & Research, Lucknow
5. Hind Institute of Medical Sciences, Safedabad, Barabanki
6. Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow
7. Era Lucknow Medical College, Lucknow
8. Saraswati Medical College, Unnao
9. Hind Institute of Medical Sciences, Mau, Ataria, Sitapur
10. F.H. Medical College & Hospital, Agra
11. Moti Lal Nehru Medical College, Prayagraj
12. Institute of Medical Sciences, Banaras Hindu University, Varanasi
13. BRD Medical College, Gorakhpur
14. Mahamaya Rajkiya Allopathic Medical College, Saddarpur,
15. Prasad Institute of Medical Sciences, Lucknow
16. Government Institute of Medical Sciences, Kasna, Greater Noida
8. Andhra Medical College, Visakhapatnam, Andhra Pradesh

1. Guntur Medical College, Kannavarithota, Guntur, AP
2. Dr. Pinnamaneni Siddhartha Institute of Medical Sciences & Research Foundation, Chinnaoutpalli, Gannavaram Mandal, Krishna District
3. NIMRA Medical College, Vijayawada, AP
4. NRI Institute of Medical Sciences, Sangivalasa, AP
5. Narayana Medical College, Nellore, AP
6. ACSR Medical College, Nellore, AP
7. Gayathri Vidya Parishad Institute of Health Care & Medical Technology, Visakhapatnam, AP
8. Great Eastern Medical School and Hospital, Srikakulam, AP
9. GSL medical college, Rajahmundry, AP
10. NRI Medical College, Guntur, AP
11. Rangaraya Medical College, Kakinada, AP
12. Government Medical College, Ongole, AP
13. Maharajah’s Institute of Medical Sciences, Nellimarla, AP
14. GITAM Institute of Medical Sciences and Research, Visakhapatnam, AP
15. Alluri Sitarama Raju Academy of Medical Sciences, Eluru, AP
16. Siddhartha Medical College Vijayawada, AP
17. Konaseema Institute of Medical Sciences & Research Foundation, Amalapuram, AP
18. Katuri Medical College, Guntur, AP
19. Government Medical College, Srikakulam, AP
9. Himalayan Institute of Medical Sciences, Dehradun, Uttarakhand

1. Jawaharlal Nehru Medical College, Aligarh, UP
2. Shri Ram MurtiSmarak Institute of Medical Sciences, Bareilly, UP
3. Rohilkhand Medical College & Hospital, Bareilly, UP
4. Teerthanker Mahaveer Medical College & Research Center, Moradabad, UP
5. Muzaffarnagar Medical College, Muzaffarnagar, UP
6. Government Medical College, Haldwani, UP
7. Rajshree Medical Research Institute, Bareilly, UP
8. Shri Guru Ram Rai Institute of Medical & Health Sciences, Patel Nagar, Dehradun, Uttarakhand
9. Government Doon Medical College, Dehradun, Uttarakhand
10. Veer Chandra Singh Garhwal Govt. Institute of Medical Sciences & Research (VCSGGIMSR), Srinagar Garhwal, Uttarakhand
11. Dr. Radha Krishnan Govt. Medical College, Hamirpur, Himachal Pradesh (HP)
12. SLBS Govt. Med. College, Mandi, HP
13. Dr. YS Parmar Government Medical College, Nahan, HP
14. Indira Gandhi Medical College, Shimla, HP
15. MM Medical college and Hospital, Solan, HP
16. Dr. R.P. Government Medical College, Kangra at Tanda, H.P.
10. JIPMER, Puducherry

1. AarupadaiVeedu Medical College & Hospital, Puducherry
2. Mahatma Gandhi Medical College & Research Institute, Puducherry
3. Sri Venkateshwaraa Medical College Hospital & Research Centre, Puducherry
4. Sri ManakulaVinayagar Medical College and Hospital, Puducherry
5. Pondicherry Institute of Medical Sciences, Kalapet, Puducherry
6. Velammal Medical College Hospital and Research Institute, Madurai, Tamil Nadu
7. Kanyakumari Government Medical College, Kanyakumari, Tamil Nadu
8. Tirunelveli Medical College, Tirunelveli, Tamil Nadu
9. GovermentThoothukudi Medical College, Thoothukudi, Tamil Nadu
10. Vinayaka Mission’s KirupanandaVariyar Medical College, Salem, Tamil Nadu
11. Karpagam Faculty of Medical Sciences and Research, Coimbatore, Tamil Nadu
12. Dhanalakshmi Srinivasan Medical College, Perambalur, Tamil Nadu
13. Rajah Muthiah Medical College, Annamalai Nagar, Tamil Nadu
14. Annapoorna Medical College & Hospital, Salem, Tamil Nadu
15. Government Mohan Kumaramangalam Medical College, Salem, Tamil Nadu
11. Jorhat Medical College, Jorhat, Assam

1. Assam Medical College, Dibrugarh, Assam
2. Gauhati Medical College, Guwahati, Assam
3. BankuraSammilani Medical College, Bankura, West Bengal
4. North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, Shillong, Meghalaya
5. College of Medicine and JNM Hospital, WBUHS, Kalyani, West Bengal
6. Sikkim Manipal Institute of Medical Sciences,Gangtok, Sikkim
7. IQ City Medical College, Durgapur, West Bengal
8. Jawaharlal Nehru Institute of Medical College, Imphal, Manipur
9. Tezpur Medical College, Tezpur, Assam
10. Agartala Govt. Medical College, Agartala, Tripura
11. Burdwan Medical College, Burdwan, West Bengal
12. Tripura Medical College &Dr. BRAM Teaching Hospital, Agartala, Tripura
13. Fakhruddin Ali Ahmed Medical College and Hospital, Barpeta, Assam
14. Zoram Medical College, Aizwal, Mizoram
15. Silchar Medical College, Silchar, Assam
16. Murshidabad Medical College & Hospital, Murshidabad, West Bengal
17. Malda Medical College, Malda, west Bengal
18. TomoRiba Institute of Health and Medical Sciences, Naharlagun, Arunachal Pradesh
19. Midnapore Medical College, Midnapore, West Bengal
20. Regional Institute of Medical Sciences, Imphal, Manipur
21. Institute of Medical Sciences and Research, Haldia, West Bengal
22. Jagannath Gupta Institute of Medical Sciences & Hospital, Budge Budge, West Bengal
23. Coochbehar Government Medical College & Hospital, Coochbehar, West Bengal
24. Diamond Harbour Government Medical College & Hospital, Diamond Harbour, West Bengal
12. Armed Force Medical College, Pune, Maharashtra

1. BharatiVidyapeeth (Deemed to be University) Medical College, Pune
2. Smt. KashibaiNavale Medical college, Narhe, Pune
3. Ashwini Rural Medical College, Kumbhari, Solapur
4. B. J. Government Medical College, Pune
5. Krishna Institute of Medical Sciences, Karad
6. Dr. V. M Govt. Medical College, Solapur
7. MIMER Medical College, Talegaon (D), Pune