A PARADIGM SHIFTING EDUCATIONAL INITIATIVE EMPOWERING CLINICIANS IN INDIA TO MANAGE DIABETES THROUGH A UNIQUE PEDAGOGY

G. Thirumalai, S. Jay, K.S. Singh, S. Bou, G. Panja1
1Biocure Limited, Medical Affairs, Bangalore, India; 2Biocure Limited, Medical Affairs, Bangalore-560016, India
3Biocure Limited, Medical Affairs and Clinical Development, Bangalore-560016, India

Background
- Diabetes is the number one cause of preventable blindness, heart disease, kidney failure, and amputations in India.
- In India, diabetes is predominantly managed by primary care clinicians due to an absence of specialist personnel in rural areas.
- Most of the primary care clinicians are poorly equipped to manage diabetes.
- Therefore, there is an urgent need to build capacity of primary care clinicians through relevant, structured interventions based on Indian realities.
- India has substantial unmet needs in diabetes management.

Pedagogy: AVIDE (A Biocure Initiative for Solution Education)

Figure 1: AVIDE pedagogy

- Route Course: Two-day training to facilitate clinicians with pragmatic diabetes management approaches through evidence-based learning modules comprising day-to-day cases and relevant theory.
- Advanced Course: An intensive two-day course comprising eight practical总部 sessions to empower clinicians, who aspire to mentor fellows, with in-depth and specialized knowledge on diabetes management.
- Online Mentorship: A futuristic online platform designed to provide unique knowledge sharing experience with renowned subject matter experts (Endocrinologists and Diabetologists) through:
  - Closed group mentoring sessions
  - Real-time webinars
  - Self-paced study modules
  - Expert opinion videos
  - Practice improvement tools

Background:
- Launched in February 2012, the course has been developed by a panel of seven leading Endocrinologists across India (AVIDE Core Committee) and delivered by a panel of over 50 internal medicine physicians with among years in teaching (Faculty).
- A team of experts ranging from lectures to sub-specialized aspects of diabetes management such as:
  - Screening, diagnosis and prevention
  - Life-style modifications
  - Pharmacotherapy including insulin therapy and injectable therapies
  - Management of type 1 and type 2 diabetes
  - Diabetic complications and comorbidities e.g., cardiorenal risk reduction, common infections, management of diabetes and renal failure, diabetic ketoacidosis, etc.
- Management of postprandial glucose levels
- “How to keep an ideal diabetic clinic and practice improvement”
- Focus on evidence sharing, hands on workshops, role-plays and small-group discussions (faculty participant: 1:10).

Results
- Enrolled the impact of AVIDE programme on clinicians practicing diabetes in India in both rural and urban areas.
- Identify feasible and sustainable approaches to build capacity to manage the rising incidence of diabetes by empowering medical fraternity.

Study 1
- A feedback form was administered at the end of course.
- Response collected from 627 basic course participants and 177 advanced course participants.
- To quantify learning of participants, a pre test on the beginning of each module and a post test comparing some questions at the end of each module was conducted.
- Content of feedback form, post-test tools and its reports were validated by AVIDE Core Committee and Faculty.

Results
- Figure 2: The journey so far

Table 1: Participants’ breakup

<table>
<thead>
<tr>
<th>Participants’ Qualification</th>
<th>Basic Course (%)</th>
<th>Advanced Course (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIDE</td>
<td>76.41</td>
<td>13.58</td>
</tr>
<tr>
<td>AVIDE + Special training in Diabetology</td>
<td>4.75</td>
<td>4.75</td>
</tr>
<tr>
<td>MRD or equivalent</td>
<td>14.88</td>
<td>70.8</td>
</tr>
</tbody>
</table>

Table 2: Rating of course content and presentation by participants

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Excellent (%)</th>
<th>Good (%)</th>
<th>Average (%)</th>
<th>Below Average (%)</th>
<th>Poor (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality of Content</td>
<td>75%</td>
<td>25%</td>
<td>2%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Quality of Presentation</td>
<td>75%</td>
<td>25%</td>
<td>2%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

Figure 4: Feedback form response

- AVIDE provides clear conceptual understanding of diabetes, which strengthens improved clinical outcome and better quality of care.
- The course improved clinician perception in measuring expected needs in their basic interventions in relevant approaches.
- Focus on real-life scenarios, case group learning by experts and experiential sharing from peers have had profound influence in clinician’s take up diabetes as specialty practice, hence building capability in addressing the rising epidemics of diabetes in India.
- Mentorship will connect clinicians from rural areas with Indian counterparts and best experts of the country by leveraging technology.
- Participants are able to apply real-world data and innovative solutions to improve clinical outcomes and timely evidence-based patient care.
- AVIDE provides real-time data and innovative solutions to improve clinical outcomes and timely evidence-based patient care.
- AVIDE provides real-time data and innovative solutions to improve clinical outcomes and timely evidence-based patient care.
- AVIDE provides real-time data and innovative solutions to improve clinical outcomes and timely evidence-based patient care.
- AVIDE provides real-time data and innovative solutions to improve clinical outcomes and timely evidence-based patient care.

References
2. Data extracted from World Bank data 2012