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Evaluations of Exit Competencies of Optometrists in Mozambique

Kajal Shah
Dublin Institute of Technology, kajshah@aol.com

James Loughman
Dublin Institute of Technology, james.loughman@dit.ie

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Introduction
The Mozambique Eye care Project (MEP) is developing the country’s first indigenously trained optometrists using a competency-based education curriculum.

Aims
- To evaluate the exit clinical competencies of the first optometry graduates in Mozambique
- To use the competency evaluations to inform the evolution of the competency curriculum
- To establish entry-level competency standards for emerging optometry graduates in Mozambique

Methods

Results

i) Practical assessment and internal exams
Using UK based competencies as a benchmark the following results were obtained:

<table>
<thead>
<tr>
<th>Competency</th>
<th>Number of students competent (N=9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Communication</td>
<td>9</td>
</tr>
<tr>
<td>2. Professional Conduct</td>
<td>9</td>
</tr>
<tr>
<td>3. Methods of Ophthalmic Examination</td>
<td>9</td>
</tr>
<tr>
<td>4. Ocular Disease</td>
<td>4</td>
</tr>
<tr>
<td>5. Visual Function</td>
<td>0</td>
</tr>
<tr>
<td>6. Binocular Vision</td>
<td>4</td>
</tr>
</tbody>
</table>

Table 1: Results of students competencies

Discussions and Recommendations

Factors affecting performance
a) Student learning experience
- Lecturer background and training influenced student training - e.g. strong diagnostic and therapeutic influence, at the expense of refinement routine elements such as binocular balancing
- Clinical training protocol need to be implemented to optimise clinical competencies.
b) Existing healthcare context
Enhanced training needs: Adapting the course to increase clinicals in:
- low vision
- high refractive errors
- binocular vision
- addressing local issues of health literacy, poverty and traditional medicine

Clinic organisation needs: Better structure to allow for more time in clinics with challenging patients and more support staff to give feedback.

Personal development plan: When the students go into practise a personal development plan is recommended to be prepared with a lecturer who mentors them and oversees their training and progress.

c) Student capacity
The University has set appropriate pre-entrance exams to pick students that are more suitable for the course. Only 9 of the original 16 students progressed to the final year. A higher entry standard for basic maths and sciences would ensure that the students can understand concepts quicker influencing student performance.

Conclusions
Two main lessons have been learnt in Unilurio about starting up a competency based education system for health professionals in a developing country context:

- A need for early review due to the lack of ideal starting conditions (lecturers with different backgrounds, course materials not arriving etc).
- Complex health and social contexts have significant impact upon the required performance of optometrists.

As a result of these evaluations the final year students underwent a one-week intensive course in subjective testing and binocular balancing successfully before graduation.

Acknowledgments

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For further information
Please contact kajshah@aol.co.uk. More information on this and related projects can be obtained at www.mozeye.org

Figure 1: Methods of comprehensive exit competency evaluation

Figure 2: Results from interviews with course developers and lecturers: factors influencing student performance

Figure 3: Observed reasons for failure

Figure 4: Students and lecturers in clinic