Global Health Center: Defining Financial and Operational Metrics for the Global Medical Home

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ABSTRACT

The University of Louisville Global Health Center (GHC) has developed a care model for a Global Medical Home. This model outlines a comprehensive and holistic approach to the care of all patients seen in the GHC. This model requires multidisciplinary teams including physicians, nurses, pharmacists, care coordinators, social workers, and public health professionals. The GHC financial advisory team needed to fully understand the financial burden and opportunity of the medical home model. The objective of this study is to present the development and implementation of a financial and operational tool for the Global Medical Home.

Each area of clinical service, teaching and research within the GHC was defined in order to develop a systematic method for operational and financial evaluation. Spreadsheets were developed to address fixed and variable costs including projections for future income and expenses based on prior years’ growth.

The Global Health Operations and Economics (GHOE) tool was developed. The first three areas for operational and financial evaluation included the Civil Surgeon Clinic, Refugee Immigration Clinic, and the Refugee Health Assessment Clinic. For each of those areas, patient volumes, throughput, fixed personnel expenses, and fixed and variable supply/equipment expenses were evaluated.

The GHOE has been successfully used by the GHC financial advisory team for future planning and growth activities. Due to this success, we plan to expand use of the GHOE tool in order to evaluate other areas within the GHC.

INTRODUCTION

GHC is expanding its operations in all areas of clinical, research, and educational activities. This expansion necessitates having a holistic approach towards the financial aspects of operations.1-3 Financial and operational questions emerged during strategic planning sessions including: 1) the detailed steps in the operations of the Civil Surgeon, Refugee Immigration, and Refugee Health Assessment Clinics; 2) what are fixed and variable expenses for each of these clinics; and 3) how can we improve the processes to maximize available resources.

OBJECTIVES

This project aims to present a holistic economic approach toward the analysis and management of the activities of GHC in order to optimize the activities financially and suggest recommendations to increase the productivity and optimize resource stewardship.

MATERIALS AND METHODS

Model business approaches were used to address the financial and operational questions that emerged during strategic planning. The following steps were taken to address those questions:

- **Interview:** For each one of the three units (Civil Surgeon, Refugee Immigration and Refugee Health Assessment) comprehensive and detailed interviews with the staff related to that operations were conducted. This facilitated a robust understanding of all the steps involved with the processes.

- **Time Study:** The time associated with each step was evaluated, either through the related participants in the activity or through observation and timing of the process.

- **Spreadsheet Tool:** Individualized spreadsheet tools were developed that considers all the data related to the material (e.g., syringes) used for that unit, employee time, hourly cost of the employees, etc. The annual costs of the operations for each one of the three units (categorized by the employee and material costs) were calculated. The annual revenue, fixed and variable expenses, and margins for each one of the three units was calculated.

- **Improvement Opportunities:** The special areas in each unit that needed some level of improvement or change to be more effective and efficient financially and operationally were identified. Specific and measurable solutions were proposed.

- **Employee Feedback:** The calculations and analysis were shared with the related employees to obtain their feedback and opinions. Their insight regarding data elements were important to ensure accurate assumptions and assessments.

- **Management:** The results of the analysis were shared with the management team for each unit and the faculty. Details of the analysis, staff comments, management comments and faculty considerations were included in final reports.

RESULTS

- The annual revenue, cost, and margins for each one of the three units were calculated.

- Improvement opportunities from the perspective of a task efficiency standpoint were the most commonly identified.

- The results of the analysis suggests that there is a good potential for GHC to expand its operations in all of these three units.

- GHC should continue to put emphasis on its efforts to increase patient visits in all of these three units due to high levels of operational efficiency.

- New opportunities including laboratory, radiology, and pharmacy services should be considered.

CONCLUSIONS

Analyzing the operations of the Refugee Immigration, Refugee Health assessment and Civil Surgeon Clinics from an operational and financial standpoint helped to understand where we stand in these units from a business perspective. This enabled identification of strengths, weaknesses and opportunities. The analytical approach was of value and will be used to perform the same level of assessment on other areas within the ID Division in ongoing efforts focusing on high quality, consistent, and financially sound practices.

REFERENCES


3. www.refugees.org/our