



We use the SOAP format (**S**ubjective, **O**bjective, **A**ssessment, **P**lan), as is traditionally used in medical documentation, to assess the community and formulate a plan of action.

Subjective Data - Problem Identification

We obtained our subjective data from ongoing discussions among diverse groups within Waterloo and surrounding communities. By conducting individual interviews as well as group meetings, we facilitate ongoing discussions to identify historical projects in the growth of the township as well as to highlight the current needs for healthy living in this community. Discussions among the locals highlighted the fact that the medical facilities in the community are private and unaffordable to most and expressed a need for access to affordable healthcare.

Objective Data - Problem Formulation

Objective data is collected on an ongoing basis by recording observations of various population groups to formulate the problems that need to be addressed to improve living conditions in this community. Using this method, the following needs were identified in the Waterloo community:

- Better access to affordable primary medical care
- Lack of access to a dentist within the community

- Lack of access to mental health counselors
- More opportunities for farming and agriculture
- Low availability of safe drinking water
- Education on better sanitation and food preparation
- Insufficient opportunities for work and youth programs

Assessment - Population Health Assessment

It was concluded that there is a need for better access to primary healthcare to include the provision of health promotion and disease prevention interventions. There is also a need for expanded maternal health services as well as pediatric and geriatric care so that individuals do not have to be transported to the capital city, Freetown, for these services. Most importantly, there is an urgent need for the provision of basic dental services as well as mental health services, which are non-existent in the community. The community could also benefit from more opportunities for farming and agricultural production to offer opportunities for work for the youth as well as provision of increased income for women via sale of produce in market sales.

Plan - Project Planning

A preliminary plan was proposed by the locals for the construction of a community health unit that encompasses all primary healthcare. Clinic specific goals within this plan include the following:

- Endemic Disease Prevention and Control Interventions
- Family Planning and Maternal Care
- Child Health and Developmental Care
- Geriatric Health Services
- Dental Hygiene and Treatment of Oral Diseases
- Counseling Services for Mental Health
- Health Promotion Education for Improved Sanitation

Implementation – Community Participatory Methods

A Climate-friendly Clinic - Project Organization

There will be a project management team in place to supervise the construction of the clinic. This team will also monitor progress and evaluate every phase of the clinic building project to ensure that it is completed to the local building codes. An architect will be recruited to draw the masterplan to meet the building standards for a medical and dental facility. The plan will be submitted for approval and to obtain permit to initiate construction. A private contractor and construction engineer from the Waterloo district

will be recruited to ensure proper building standards for the community. They will seek out the required expertise from their community to ensure that the major beneficiaries of the clinic building project are from within their community. Tree-planting will be a significant part of energy conservation in the running of the clinic. Trees will be used to shade the building and reduce energy costs of cooling. Tree planting also serves to compensate for the CO2 emulsion. Outdoor waiting areas under the shade of the trees will also be built to provide refreshing resting places for patients and health workers. Local agricultural experts will be utilized to plant trees. They will recruit community members to maintain the trees and garden in the long term. We will also recruit a solar and/or electrical engineer from the community to provide renewable energy for the clinic operations via installation of solar panels.

Construction of the Clinic

Construction will start with a designated time for block-making before starting the foundation. The building plan will comprise of six wings. These include the Medical, Dental, Mental Health, Laboratory, X-ray and Pharmacy wings. In addition, there will also be a separate small building housing the incinerator.

The Medical wing will include 6 examination rooms, a reception area, a nurses' station, a patient intake room, and a storage room for medical supplies. There will be a covered porch in the front of the building to serve as an overflow waiting area.

The Dental wing will include 3 dental operatories, 3 dental hygiene rooms, a reception area, and a storage room for dental supplies. Due to the needs for special plumbing and other operatory requirements, the dental unit may require additional future funding than the medical unit.

The Mental Health wing will consist of 3 rooms. There will be 2 exam rooms for individual counseling and 1 large room for group therapy.

The laboratory unit will be a large room hosting equipment for specimen processing. The X-ray room will be utilized for X-ray procedures. The pharmacy will have a cold storage room for medications and vaccines as well as a dispensary area adjacent to the patient waiting area.

The incinerator house with combustion chambers will be built in a pit for medical waste disposal so that the facility is self-contained in handling its' own waste products and not dependent on the township.

Prior to initiating building plans, the grounds must be leveled. In addition, a wall and a gate will need to be erected around the site to secure the land from intruders.

Evaluation – Processes to evaluate

- The various stages of the building planning and construction will undergo an evaluation by the professional expertise overseeing that stage; The general contractor will ensure that all evaluations are completed
- Medical and dental doctors will utilize effective use of evidenced based guidelines for provision of healthcare and evaluate outcomes for each patient as well as for the Waterloo population
- Health Education Program Implementation will be evaluated with health outcomes including patient understanding of educational programs and observed applications of health education to improving healthcare
- Implementation of proper sanitation methods will be evaluated by noting outcomes such as a decline or increase of waterborne diseases