

PRO HOMINE

Dental Aid Project

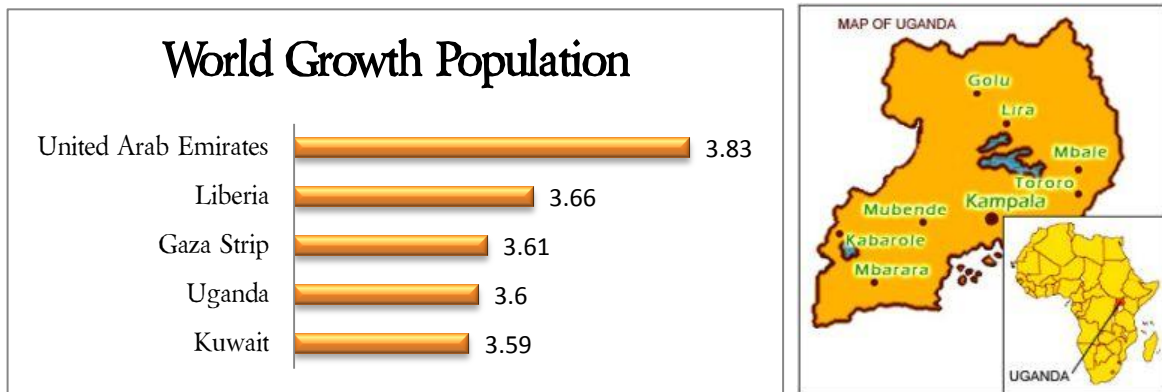


Uganda – Dental analysis

Accordingly with the Uganda Bureau of Statistic, Uganda has 30.7 million people. The population of this country, located at the central Eastern part of Africa, has been steadily growing at a rate of 3.6%. As shown at the graph below, Uganda is the 4th nation with the fastest growth rate worldwide, the second in Africa, following Liberia with 3.66%. Over the years the population of Uganda have been overcoming the growth of previous years maximizing the most common medical problem – the lack of professionals and clinics.

The Republic of Uganda has been struggling with civil strife since its independency in 1962. From 1986, with the rule of current president Museveni, Uganda found stability and economical growth. The Country has substantial natural resources, including fertile soils, regular rainfall, and sizable mineral deposits of copper, cobalt, gold and other minerals. Agriculture is the most important sector of the economy, employing over 80% of the work force. Coffee accounts for the bulk of export revenues.

Uganda has over 80 districts having as capital city Kampala, where there is the most concentration of people in the country



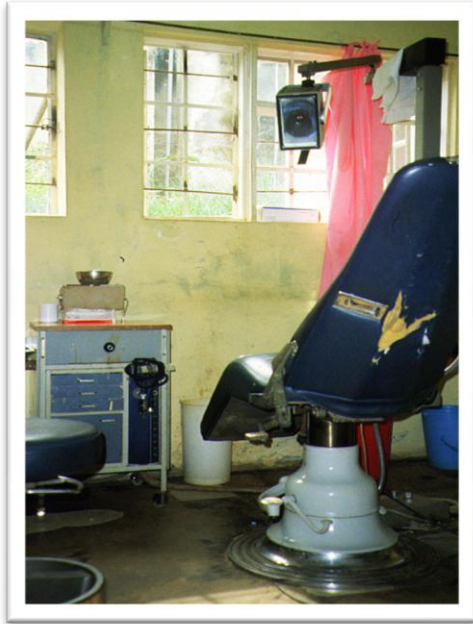
Looking at the medical-dental situation an alarming picture can be found. Less than 10% of the population have access of secure dental treatment leaving the amount of 3.3 million people without proper oral care. This is due to lack of qualified dentists, lack of equipped facilities, poverty and lack of communication between dental clinics and community. The public health system offers dental care for the population however, the hospitals are unable to fulfil the needs of their patients for the simple reason of lack of material and equipment. According to Pro Homine partners and government sources in Uganda, even the dental clinic at the main referral public hospital Mulago in Kampala has a deficient situation decreasing the possibility to provide any type of secure dental procedure for the community. This should be able to

explain about the conditions of hospitals and clinics in the countryside.

Treatments are done under weak settings with high rates of infections of many diseases. This also reflects the state of the private dental care. Many of the people are operated by dental assistants and/or oral hygienists. This happens because there are presently very few qualified dentists in the country. Official numbers show that there are less than 100 dental surgeons to serve the entire population, however the actual facts tell us that this number can go down to 50 doctors. Taking the more optimistic number, this will give us a rate of 1 dentist per 37.000 people.

Uganda has mainly two educational centres which train professionals to work in the field of dentistry. There is the University of Makerere offering a degree in dentistry and the

dental school of Mulago offering a diploma. The University in Mbarara is currently in the process of getting the allowance to hold the degree of dentistry. However the figures are frustrating. An average of 30 students enrolls per year for BDS and only 15 conclude the course.



Even though the classes the students must attend cover a good part of the dental

field (such as Oral Surgery, Orthodontics, Periodontics) the outcome is disastrous. Dr. Barbara, one of the Pro Homine's beneficiaries, claimed that the student has only theory and most of them lack the practical since there are few types of equipment for the students to practice on. Some of the students can't even extract a tooth and most of them learn those procedures once they are out of the University.

The little number of qualified dentists obligates some clinics to run by dental assistants and/or oral hygienists using precarious equipment trying to meet the demand. Some clinics even use car seat instead of a dental chair.

Another important factor playing on the dental field is the accessibility for reliable equipment, instruments and consumables. There are only 3 dental suppliers feeding the whole market.

As this report shows us, there is a lot to do in Uganda to increase the quality of oral care. The numbers tell us the population needs qualified doctors with equipment and material in good conditions. The objective of Pro Homine is to provide the change needed.



Pro Homine

Pro Homine Aid is a NGO based in Austria which focuses on dental health. For over 15 years its projects have been supplying training and improving life quality in Africa. Over those years Pro Homine has supported a good number of dental offices and dental schools in Uganda.

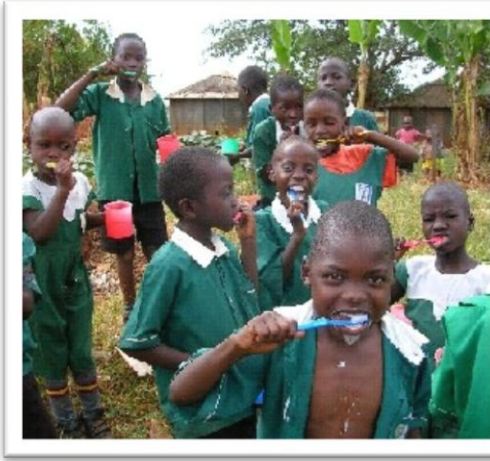
The project created was a continuous programme education for Ugandan dentists and dental assistants to achieve a higher level of excellence when treating patients. The Organisation has also supported substantially the Mulago Dental School, Mulago Hospital Complex and the Mengo Dental Clinic with dental materials, equipment and technical support. Its activities have gone beyond the city

of Kampala, by maintaining an outpost at Hillside College Mityana.

In the past 5 years, the organization has prepared and offered specialized training in the fields of modern dentistry. The trainings have been offered to dentists, dental assistants and Dental laboratory technicians in Uganda. Some of the specialized training programmes have been conducted in Uganda as well as Austria. At least 10 Ugandan beneficiaries have so far been sponsored fully by the Pro Homine Dental Aid Project for post diploma training in Austria. Its main focus is on dental health, and training the population to be able to achieve much through their own efforts.



Therefore, Pro Homine Dental Aid Project has the dream to maximize the potential of its projects by putting in place a modern dental centre complex in Kampala the heart of Uganda. The Kampala International Dental Centre will promote modern dental education and quality dental treatment for the people of Uganda and its neighbouring countries.



The 15 years of relationship with the Uganda dental health system gave Pro Homine a broad perspective of its needs. The founders of Pro Homine encountered different challenges which helped to understand the problems dental clinics were facing, such as limited education, lack of professional knowledge, lack of information and resources.

A little bit from the visionaries.

Pro Homine has been working in Uganda by the effort of two men – Dr. Peter Huemer, the founder of Pro Homine, and Dr. Karl Immler. When these two doctors experienced the health and living situation in that part of the world they decided to roll up their sleeves and create a sustainable project, being part of the solution.

Dr. Peter Huemer, born in 1953, finished his degree in Human medicine in 1980 at the University of Innsbruck and continued with his specialization for Dentistry for the next two years. In 1993 he opened his public practice in Wolfurt and three years later he had a private practice with the main focus in Esthetic - periodontal surgery. In 1988 Dr. Huemer started his work in implantology for which he, in 2001, got the honourable title: Specialist for Implantology by the EDA (European Dental Association).

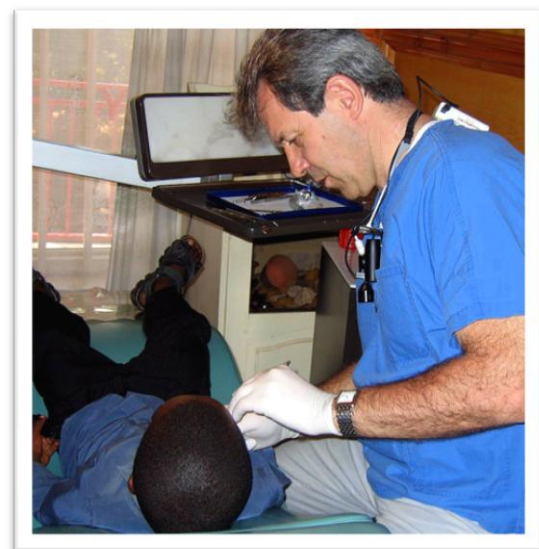
In his surgical work, Dr. Huemer developed and implemented several highly new surgical techniques such as:

- Drilling technique for immediate loading (1998).
- All on 6 concept (1998).
- Minifive - stabilized prosthesis on 5 micro-implants (1999).
- First navigated implantation after the med 3D Technique in Austria (2002).

- First implantation after the new navigation technique NobelGuide™ in Austria (2005), and many more.

Since 1992 Dr. Huemer is a member of many well recognized European dental organizations.

Also in 1992 he began his career as a professor at the Dental-Assistant School in Dornbirn/Austria. Later on Dr. Huemer founded the Advanced Training Academy for dental assistants as well as the StudyClub for Implantology and Periodontology. Furthermore he works as an examiner for Periodontology and Implantology for the EDA – European Association of Osseo Integration.



Dr. Peter Huemer treating patient

However his big devotion is sharing his resources, knowledge and time with Pro Homine's projects in Africa.



Dr. Peter Huemer installing donated equipment

Dr. Karl Immler, born in Austria, is working now for 24 years as a well known dentist at his home country. He finished his degree for General medicine at the University of Innsbruck in 1983. After finishing his

specialization he opened his practice in 1987 with the main focus in esthetics and composite.

He carried on his advanced training in esthetics as well as composite. Dr. Immler also holds an specialization in Implantology, particular on Branemark and ITI system as well as Bone and soft tissue management.

In his practice, with about 15 patients per day, he offers several services as Restorative, Orthodontic, Prosthodontic Dentistry and Surgical Treatment.

Moreover he attained various awards and certificates, such as:

- Composite – instructor according to Vanini Technik.
- Esthetic Composite – filling in anterior and posterior teeth.
- Implantology.

Dr. Immler is very dedicated to projects sponsored by Pro Homine. He already donates his resources and time when visited Kampala/Uganda providing trainings and teaching.



Dr. Karl Immler in a teaching section

The Project – Kampala International Dental Centre

Now Pro Homine Dental Aid Project has the dream to maximize the potential of its projects. Statistics has shown the great need Uganda has for a better dental health system. So Pro Homine decided to place a dental educational centre in the heart of Uganda. The Kampala International Dental Centre (KIDC) will promote modern dental education and quality dental treatment for the people of Uganda and its neighbouring countries.

The project has mainly three objectives in its service:

- To provide advanced education.
- To offer quality dental service for the community.

- Foment the quality of life in the region.

The Kampala International Dental Centre (KIDC) will make training available for the dental community. The programme offers specific training on Dental Public Health, Endodontics (root canals), Oral and Maxillofacial Pathology, Oral and Maxillofacial Radiology, Oral and Maxillofacial Surgery, Paediatric Dentistry, Periodontics and Prosthodontics. The programme will also be intended to provide education for laboratory technicians, prophylaxis assistance and dental hygienist.

Mission Statement

Empowerment of people through educational programmes which unlocks the potential of each and every participant in a safe, clean and inviting setting, while building a sustainable health environment for the benefit of the Ugandan and neighbouring countries.

Project Goals

To promote modern Dental treatment and Dental educational programme to increase the life quality of every party involved.

Project Objectives

- To initiate the KIDC project as the first educational dental clinic.
- To establish similar programme in another cities and countries.
- To put in place Hi-Tech sterilization facilities in a bid to ensure zero cross infection if diseases usually common in poor hygienic equipment and environment.
- To offer specialized dental procedures like implant treatments and all ceramic crowns.
- To complement Ugandan government effort of providing improved health care services to its nationals in the field of oral health.
- To provide modern and professional dental care to Ugandan community patients.

The business philosophy behind the project can be described in one word, stewardship. “The act of taking responsibility for the survival or the well-being of something or someone valued”. The challenge of KIDC is to do the best for the benefit of patients and staff as well as for society as a whole.

The success of the centre will be built on the cardinal Christian values. By competent consultation and optimal treatment KIDC will strive to persistently improve the students and patients’ life quality. To reach its goal, KIDC will constantly update the techniques and equipment as well as the knowledge and skills of the professors and staff.

KIDC – Serving the world

KIDC has the focus of its activities on 5 distinct groups.

Dental Doctors and Students.

The project will offer training in different areas. The courses will be offered to newly graduated BDS students or to dental surgeons wishing to recycle their knowledge. The programme will develop a new model of dentistry and the benefits of such model shall be available for everyone desiring to follow it.

Patients seeking for low-price treatment.

Since there may be many patients out there without a proper dental care in Uganda and its neighbouring countries, KIDC will make a provision for low price dental treatment. Patients in need of such dental treatment shall find assistance when taking part in the programme for training dental doctors.

Patients seeking for high-quality treatment.

The KIDC will also offer high quality treatment by qualified Doctors and Professors. This offer shall be open to any patient willing to pay for such a treatment.

Surrounding community.

KIDC through the clinic and the school will make available many jobs and career educational opportunities for Ugandans as well as neighbouring countries. Outsourcing services such as maintenance, catering, laundry, gardening, security, accounting, legal counselling will promote the increase of employment opportunities in Uganda.

KIDC - Programmes

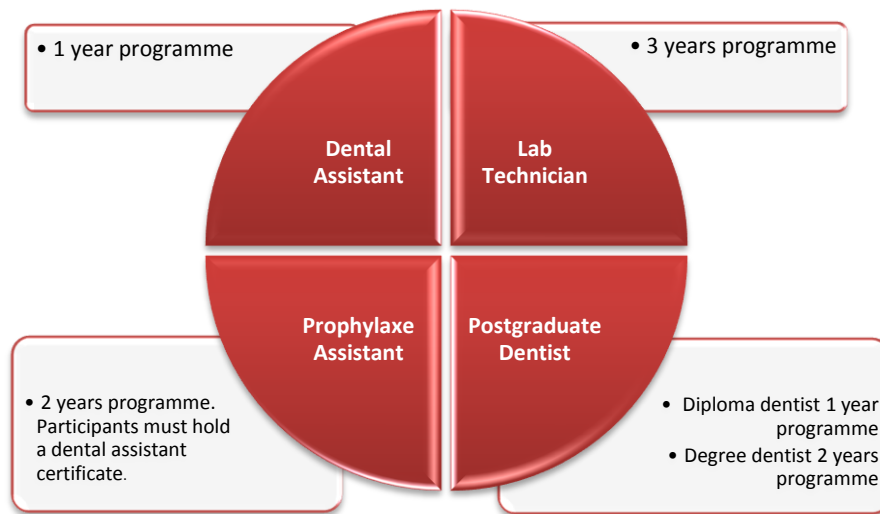
The Kampala International Dental Centre is divided in two segments:

- ***Educational Programme***, offering dental training in varied fields.
- ***Dental Clinic***, offering wide range of dental treatment.

The training programme is directed to doctors willing to recycle their knowledge, obtain new information and get in touch with new technologies within the dental field. The KIDC will create standardized dental procedures and treatments which will be passed through theoretical and practical classes to the students. The classes meet most of the fields in dentistry such as Dental Public Health, Endodontics (root canals), Oral and Maxillofacial Pathology, Oral And Maxillofacial Radiology, Oral And Maxillofacial Surgery, Paediatric Dentistry, Periodontics And Prosthodontics.

It is important to mention the idea of standardization behind the programme. The KIDC will follow pre determined patterns and procedures mirroring the European dentistry. The educational programme won’t be presenting new release technologies or treatments new in the market without proper analysis of its results. KIDC will focus on treatments well known for its efficiency and quality which will provide the best cost benefit for its students and patients.

The programme will generate professionals in four main areas.



The second product offered by KIDC through the dental clinic is the dental treatments for the community. This service overlaps with the educational programme in many levels. The educational programme will provide the work force for the dental clinic while the dental clinic supplies the educational programme with patients and equipment. The Dental clinic will offer dental care for mainly two types of patients – a patient searching for a premium service and willing to pay for it bringing income to sustain the programme; and a patient in need of dental care searching for an affordable treatment.

The first class of patients are people who can afford a premium service and are seeking for a specific treatment which it wouldn't be found in other dental clinic in Uganda, and/or have the desire to be treated by the staff of KIDC. These patients will be treated by the chief doctors of the KIDC, doctors responsible for the training programme. The material utilized by the doctors can be top line European products, when requested by the patient, or products compatible with the European market. The service will have the guarantee of excellence from the Institut Dr. Huemer in Austria.

For patients who cannot afford such treatments the dental clinic will offer them to take part as patients of the educational programme. Those patients will be handled by

the Doctors in training following the instructions and supervision given by the professors or dental experts on specific fields. The material used at the educational programme is products compatible with the top European line. Such materials are in the market for decades and have proved their quality and value.



www.institut-huemer.at

KIDC will not only influence the dental market in Uganda. The project has also the goal to foster the economy around KIDC, providing different jobs for the community. The clinic itself will already hire many individuals providing a dignified salary boosting the life quality of the families affected. The second group which will benefit from KIDC will be the companies hired by KIDC to serve the clinic. Outsourcing was the best solution found to increase the job offers in

the community, excluding the responsibility of an extra department within KIDC.

This project will not only steer up the dental market but will foster the whole community around itself to reach a better life quality.

KIDC - Infrastructure

Kampala International Dental Centre is situated on the western outskirts of Kampala, the capital city, in one of the biggest districts known as Rugaba. It can be found in its surroundings the Mengo Hospital and Rugaba Hospital. The district of Rugaba is a new developed area in Kampala with easy access by the famous Kasubi Tombs. Its neighbourhood is mainly residential areas still being developed by the government.

KIDC makes available to its students, staff and patients an area of 1 hectare with two blocks separated for the clinic and school, housing for visiting professors and staff, and also apartments for the students.

The two blocks separated for the school clinic consists on areas designated to provide comfort to patients and add value to the student life. The first block is selected to hold all the dental surgical offices, in total 20 dental and 2 surgical offices, spread on the ground, first and second floor. This block will also hold 3 classrooms, administration office, dental laboratory and sterilization room.



The second block will be dedicated mainly for the educational programme with classrooms, internet corner, library, conference room, study room and social lounge.



The Student residence provides accommodation for students in one bedroom apartments. The apartments consist of an ensuite, with a study area and a small kitchen to prepare small meals and snacks. There will be two three floors buildings separated to offer accommodation for students. This project will offer 50 apartments for KIDC students. There will be an area reserved to be a food court. This area will offer catering service for the staff. As mentioned before catering will be one of the activities KIDC will outsource.

A sport facility will also be available for the community involved with the project. There will be a fitness centre with equipment for cardio activities, weight lifting and stretching. On the outside a multi sport court will provide an area for the students, staff, patients and community to practice exercise.

KIDC and the community.

The benefits of the project go beyond the dental field. KIDC's infrastructure and facilities will be offered for the community.

The Library will be open for the public to benefit with the use all KIDC educational material. The library will not only include medical books but will also provide literature from different fields as well as journals and magazines. Another part of KIDC which is available for the public to use is the sport facilities. There will be a fitness centre equipped with cardio exercise machine, weight lifting and stretching equipment. An outside

multi sport court is also available for the community.

KIDC will offer free entry lectures on the medical field as well as from different fields. This action enables the learning of the community. Those courses will be held within KIDC and will provide education from simple daily activities such as oral hygiene to more

specific subjects such in mastering personal life. The courses will be given by volunteers involved with the project.

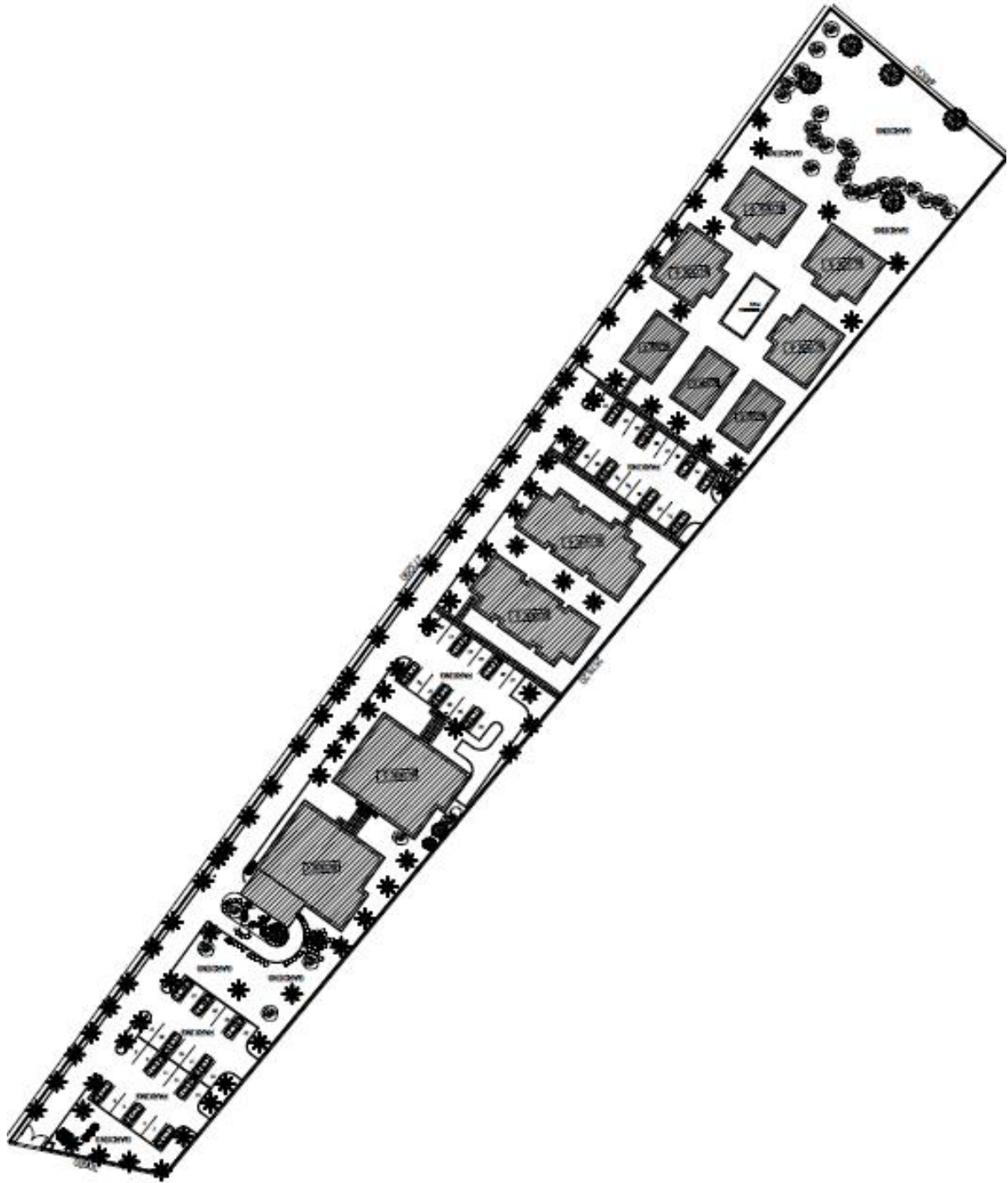
Some of those activities will demand some contribution which will be utilized to maintain the well being of all areas of the clinic.

KIDC and Fund Raising

KIDC will provide dental service for patients in every age and gender. The patients from the entire Uganda and abroad are welcome to use the service offered. Since KIDC puts forward two different levels of dentistry, its patients also come from two distinct social classes. The project has the goal to make available to every person a decent dental care no matter age, gender, income or social levels. The standardized procedures and installation will fulfil the needs of both groups, educational programme patients and private patients, making sure safe and comfort environment with quality material and excellence in service.

And for those reasons KIDC will be running on the good will of public and private organizations. The running costs for the educational program will be covered by sponsorship and funds raised through Pro Homine dental Aid, as well as by the income of KIDC's profitable sector.

It is an objective of Pro Homine to expand this project not only to Kampala but for other cities such as Mbarara, Masindi, Port Fortal, Jinja, Mbale, etc providing a similar framework although in a small scale. All the income generated by the KIDC will be totally reinvested for the growth of the project.



Proposed Layout