PROPOSAL for DIASOLAB®

Also these days, a huge amount of people die due to the missing of medical diagnostics in time. In countries with extensive rural areas, the situation is alarming, because:

- Limited availability of health care professionals
- Long distance for the patients to reach any hospital
- Infrastructure is developed to a limited extend
- Long turnaround time for the clinical analysis and lab results to start the treatment

We move the laboratory to the patient for the medical diagnosis in time !

This situation may be reassessed by the innovation of the company Diaglobal GmbH, Germany. The solar mobile laboratory Diasolab® of this company may be the right solution for the improvement of the present situation, because:

- This system can be used for a lot of vitally important basic clinical parameters, everywhere, being independent from the network.
- Clear and easy display menu navigation of the device guaranties a simple assay performance, also for non–professionals.
- Ready-to-use reagents, already filled in round cuvettes minimize the faults.
- The solar printer of this system can printout the values on site.
- The measured values are saved in device and can be transferred to a PC to feed the data bank or for printing the protocols.

Dr. Anneke Voigts is accomplishing the clinical diagnosis of the village people from the region Kunene (Namibia) under tough working conditions. She is working in the framework of the project of the Marburg University, Germany.

Diasolab was selected for the project “An Investigation on the Effect of Change of Lifestyle on Risk of Type 2 Diabetes and Osteoporosis in Indigenous Namibians”

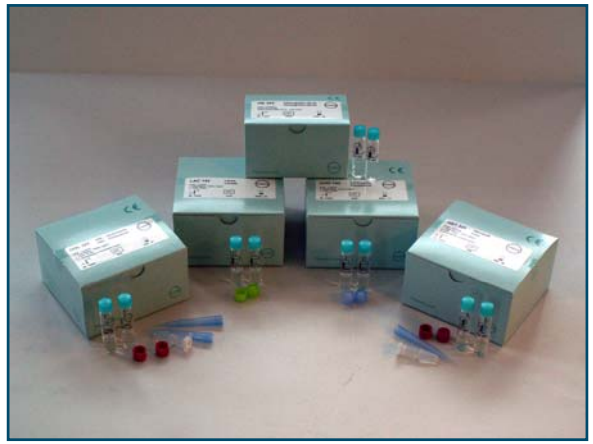
Guide of the project: Prof. Dr. Dr. Herbert Kann, Faculty of Endrokrinology and Diabetology of the Marburg University, Germany

Prof. Kann: “By using this compact, well-equipped solar coffer, we were able to perform accurately many different investigations in a room of minimum space.”

The hearts of the mobile laboratory Diasolab® are our photometers and reagents

Mobile Solar Laboratory with all essential accessories for the measurement on site. Solar cells are fixed on the front side of the carrying case.

Size: 44.5 x 36.0 x 13.5 cm
Weight: 4.5 kg



- The reagents are ready-to-use and filled in round cuvettes.
- The shelf life of the reagents is between 18–24 months.

All testkits are based on reliable wet-chemical photometric method

- The values are comparable to any other automatic systems, like Hitachi, etc.
- Only the sample – mostly capillary blood from finger tip – is required to get the results in a few minutes.
- The step-by-step working instructions with plenty of pictures guaranties very easy and successful measurements, also for non–professionals.

A pediatric nurse from Germany withdraws blood sample from the hill of an infant for the measurement of neonatal bilirubin.

Dr. Anneke Voigts withdraws blood sample from the finger tip of a patient from the region Kunene (Namibia) to assay his lipids.

Advantages of the mobile laboratory Diasolab®

A doctor sanitates a patient at the emergency ward of a clinic.

- You don't need blood from vein.
- It is not essential to be a health care professional to get blood from finger tip.
- You don' need any injection or test tubes for collecting the blood samples.
- The forwarding of sample to the laboratory is no more required.
- The transport of blood samples is costly and very difficult due to high temperature and infrastructure in rural areas.
- The incorrect transportation of the sample will adulterate the lab-values, which may be a handicap in treatment.

A patient is being checked by a team of doctors

Advantages of the mobile laboratory Diasolab®

- Due to the utilization of different resources, Diasolab® is quite suitable to be applied in rural areas.
- The solar energy is free of cost, environmentally friendly and due to alternate of main supply, the mobility is assured everywhere at any time.
- Possibility of open measurement – harsh sunlight don't prevent operation of the photometer, being important feature at field operation.
- The sunlight will charge the accumulator for steady use of the photometer, centrifuge or printer. The accumulator can be charged by mains supply or a cigarette lighter in a motor vehicle.

Diasolab® is being charged by sunlight.

Patients are waiting in front of the tent for their examination and treatment.

Diasolab® with Diaglobal-Photometer, solar centrifuge and solar printer provide the possibility for the measurement of a wide range of clinical parameters, which may be life saving on site to some extent.