On the Thai-Burma border, malaria claims millions of lives

Hundreds of Burmese, belonging to the Karen ethnicity, cross the border each day. Malaria is the most common disease to affect this population, and the number one cause of death.

With 300,000 Burmese refugees in the camps of Thailand, there are more than 45,000 found in Maela camp.

Created in 1986, the Shoklo Malaria Research Unit (SMRU) treats more than 30,000 patients each year, for free. The SMRU manages 6 clinics and 3 laboratories.

Thanks to support from IT CUP, TSF has developed an application tailored to monitoring patients

Functions of the application

- To collect, record and manage the clinic’s patient data (registration forms, information about pregnant women, ultrasounds, patient history, examination forms, test results, malaria, anaemia, mortality, prescribed treatments...)
- To manage the doctor’s appointments
- To aid the decision making process (data is directly available and clear when reading the computerised forms)

Advantages

- Information delivered in real-time
- The improved exchange of information
- Information captured and transmitted more quickly
- Reduction of the number of intermediaries (and thus cost of staff), and data input errors
- Reduction of costs for the utilisation and supply of paper

The SMRU laboratories, and the clinics of Wang Pha and Mawker Thai are equipped with 3 servers and 12 computers, the system for data collection, and a Wi/fi connection via VSAT.

TSF and IT CUP united against malaria

9th April 2009 opening in the Maela camp, Thailand-Burma border

**Advantages**

- Information delivered in real-time
- The improved exchange of information
- Information captured and transmitted more quickly
- Reduction of the number of intermediaries (and thus cost of staff), and data input errors
- Reduction of costs for the utilisation and supply of paper

**Functions of the application**

- To collect, record and manage the clinic’s patient data (registration forms, information about pregnant women, ultrasounds, patient history, examination forms, test results, malaria, anaemia, mortality, prescribed treatments...)
- To manage the doctor’s appointments
- To aid the decision making process (data is directly available and clear when reading the computerised forms)

**Implemented technologies**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Fields of action**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Implemented technologies**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Advantages**

- Information delivered in real-time
- The improved exchange of information
- Information captured and transmitted more quickly
- Reduction of the number of intermediaries (and thus cost of staff), and data input errors
- Reduction of costs for the utilisation and supply of paper

**Functions of the application**

- To collect, record and manage the clinic’s patient data (registration forms, information about pregnant women, ultrasounds, patient history, examination forms, test results, malaria, anaemia, mortality, prescribed treatments...)
- To manage the doctor’s appointments
- To aid the decision making process (data is directly available and clear when reading the computerised forms)

April 2011 marks the end of TSFs direct involvement.

At the end of these 3 years of collaboration with the SMRU, TSF has achieved its fixed objectives in developing an application tailored to the needs and working methods of the medical staff.

To this day, the SMRU has at its disposal the necessary resources to independently expand the system to include all six clinics.

TSF remains available to guide and advise the SMRU in their future actions.

**Evaluation of the SMRU requirements**

**Start of the project**

- January 2008
- 29th June 2008
- October 2008

**IT CUP tournament at Clairefontaine**

- Wang Pha (pilot clinic)
- SMRU (Mae Sot) Implementation of network structure

**Implementation of network structure**

- March 2009
- 9th April 2009
- Version 1.5 of the IT application
- Version 1.7 used by the SMRU lab and two clinics (Wang Pha et Mawker Thai)

**Inauguration in the Maela camp**

- June 2010
- April 2011

**Fields of action**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Implemented technologies**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Advantages**

- Information delivered in real-time
- The improved exchange of information
- Information captured and transmitted more quickly
- Reduction of the number of intermediaries (and thus cost of staff), and data input errors
- Reduction of costs for the utilisation and supply of paper

**Functions of the application**

- To collect, record and manage the clinic’s patient data (registration forms, information about pregnant women, ultrasounds, patient history, examination forms, test results, malaria, anaemia, mortality, prescribed treatments...)
- To manage the doctor’s appointments
- To aid the decision making process (data is directly available and clear when reading the computerised forms)

**Evaluation of the SMRU requirements**

**Start of the project**

- January 2008
- 29th June 2008
- October 2008

**IT CUP tournament at Clairefontaine**

- Wang Pha (pilot clinic)
- SMRU (Mae Sot) Implementation of network structure

**Implementation of network structure**

- March 2009
- 9th April 2009
- Version 1.5 of the IT application
- Version 1.7 used by the SMRU lab and two clinics (Wang Pha et Mawker Thai)

**Inauguration in the Maela camp**

- June 2010
- April 2011

**Fields of action**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Implemented technologies**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Advantages**

- Information delivered in real-time
- The improved exchange of information
- Information captured and transmitted more quickly
- Reduction of the number of intermediaries (and thus cost of staff), and data input errors
- Reduction of costs for the utilisation and supply of paper

**Functions of the application**

- To collect, record and manage the clinic’s patient data (registration forms, information about pregnant women, ultrasounds, patient history, examination forms, test results, malaria, anaemia, mortality, prescribed treatments...)
- To manage the doctor’s appointments
- To aid the decision making process (data is directly available and clear when reading the computerised forms)

**Evaluation of the SMRU requirements**

**Start of the project**

- January 2008
- 29th June 2008
- October 2008

**IT CUP tournament at Clairefontaine**

- Wang Pha (pilot clinic)
- SMRU (Mae Sot) Implementation of network structure

**Implementation of network structure**

- March 2009
- 9th April 2009
- Version 1.5 of the IT application
- Version 1.7 used by the SMRU lab and two clinics (Wang Pha et Mawker Thai)

**Inauguration in the Maela camp**

- June 2010
- April 2011

**Fields of action**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Implemented technologies**

- Training local technicians, personnel and data administrators of the SMRU to use the application
- Digitisation of the 13 forms for prenatal services (respecting the functionality of the original forms)
- Use of the application in a web environment
- Creating an application compatible with the existing database
- Transmission of information in real time
- Enhancement of data storage with multiple back-up systems

**Advantages**

- Information delivered in real-time
- The improved exchange of information
- Information captured and transmitted more quickly
- Reduction of the number of intermediaries (and thus cost of staff), and data input errors
- Reduction of costs for the utilisation and supply of paper

**Functions of the application**

- To collect, record and manage the clinic’s patient data (registration forms, information about pregnant women, ultrasounds, patient history, examination forms, test results, malaria, anaemia, mortality, prescribed treatments...)
- To manage the doctor’s appointments
- To aid the decision making process (data is directly available and clear when reading the computerised forms)

April 2011 marks the end of TSFs direct involvement.

At the end of these 3 years of collaboration with the SMRU, TSF has achieved its fixed objectives in developing an application tailored to the needs and working methods of the medical staff.

To this day, the SMRU has at its disposal the necessary resources to independently expand the system to include all six clinics.

TSF remains available to guide and advise the SMRU in their future actions.