

Continuous support of the Belize Health Information System through training

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RESUMEN/ABSTRACT: The Belize Health Information System (BHIS) is a web-based electronic system used in all of Belize’s public health facilities country wide. It is one of the main data collection tools utilized by all levels of medical and non medical personnel within a health facility to enter data. Due to the nature of the program, there are steps to be taken in order to incorporate an ease in transition from physical to digital media among targeted units to further the reliability and quality of the system. Therefore, the continuous training of the BHIS in public medical health facilities serves as an integral aspect in remedying most issues in data entering to ensure reliability in the information.

Introducción/Background

The Belize Health Information System is Fully Integrated Country-Wide. The BHIS was developed from 1998-2007. In 2004, it was piloted at Belize’s main referral facility: the Karl Heusner Memorial Hospital. The nation wide roll-out of the BHIS then began in phases starting with urban areas in 2008 and was expanded to various hospitals and clinics across the four health regions by 2009. Now, the BHIS has grown in terms of functionality and geographical coverage. Therefore, the inception of a department to manage all aspects of the BHIS was crucial to insure the successful development of the software. In order to maximize the utilization, efficiency and completeness of all modules in the BHIS, the Ministry of Health has now added to the BHIS team training personnel who assist with all public health facilities End-users. Additionally, the training primarily supports the Belize Health Information System (BHIS) Team by providing consultation for implementation and on-hand workshops.

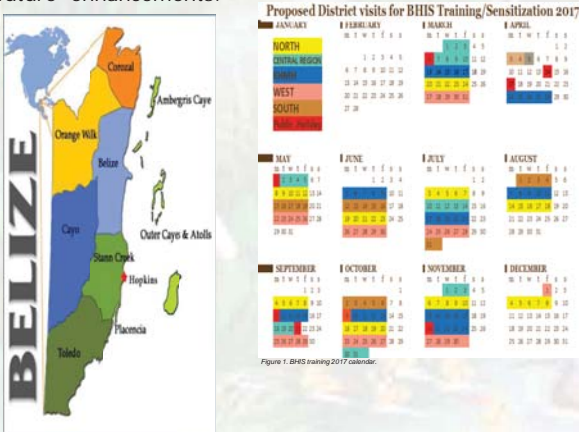
Métodos y Materiales/Methods & Materials

In order to ensure the effectiveness of the BHIS the following are implemented:

- ❖ software application training (BHIS) using a variety of delivery methods including web-based and on-site training while supporting BHIS End-users at all implemented sites.
- ❖ effective training to maximize use of the BHIS Software through guidance and advice to end-users via telephone, email or in person.
- ❖ Developing and updating training materials for BHIS End-users by establishing focal points.
- ❖ Facilitating problem-solving between end-users and the BHIS Software development team.
- ❖ Participating with BHIS development team in testing new releases of the product with end-users with a focus on usability and user friendliness.

Resultados/Results

A Calendar of scheduling visits was created to provide training throughout the year to all four health regions (Fig 1 & Fig 2). Since November 2015 to present, all health regions have received support in training the staff. Some health regions are going through their second and third round of continuous training. Signing sheets are being utilized to document participants and detailed reports are submitted to all relevant personnel such as the Director of Health services, Regional Health Managers, Chiefs of Staff, Hospital Administrators, and Nursing Administrators. Over the course of this training program, on-hand training has been observed as one of the key successive strategies to encourage the use of the system. Additionally, it also offers a level of cooperation among the users for future enhancements.



Northern Region	Central Region	Western Region	Southern Region
Central Hospital	Central Region- Scott Clinic	Western Region Hospital	Southern Region Hospital
San Nicolas Clinic	Central Region- Lab	San Ignacio Hospital	Panama
Northern Region Hospital	Central Region- Marina Roberts	Corozal Clinic	Bella Vista Health Centre
Zerova Mega Clinic	Central Region- Coxopetla	Mopac Clinic- Roatan	Independencia
Wilec	Central Region- Port Lending	Petit Caneel & Hopage	Hopkins
Golden Cross Clinic	Central Region- Cape Cankul	Central Region- San Pedro	Punta Gorda Hospital
Regent Place Ridge Clinic	Central Region- San Pedro	Holmco Vico, Ladyville, BOF Camp, Kelle, Bank in Hand & International Centre.	Billalde Clinic
			San Antonio
			San Pedro Columbia
			Big Falls
			Santa Ana
			Sierra Tecun
			Pueblo Viejo

(above) Figure 2. Specific areas of BHIS training according to district.

BHIS (Módulos/Modules)

The hub of the system is the EHR surrounded by a collection of modules; each focusing on a set of functionalities that as a whole create a Health Information System useful to the entire health sector. The EHR module is the hub of the Advanced Capacity Strengthening Information System – HIS wheel. The spokes of the ACSiS – HIS wheel (modules) are:

- ❖ EHR: Electronic Health Record
- ❖ ADT: Admission Discharge Transfer
- ❖ COE: Clinician Order Entry
- ❖ FIN: Financial costing and pricing
- ❖ LAB: Medical Testing (Laboratory, radiology, etc)
- ❖ MCH: Maternal Child Health
- ❖ SCM: Supply Chain Management
- ❖ HIV: HIV-AIDS case management
- ❖ PH: Public Health

Conclusiones/Conclusions

The BHIS gives unique access to health planners, managers, facility administrators and healthcare givers to the data captured with the patients’ Electronic Health Records (EHR). The implementation of the BHIS continues to have great successes since it can achieve full efficiency of all available modules. In order to facilitate these successes, the need for training personnel must continue. Therefore, the future of the BHIS is linked to the mediation between the development team and the End-users.

Notas-Créditos / Notes-Credits

ACSiS – HIS User Manual Version 1.9.7
Belize Health Information System 17.08.09 Belize
An implemented, national - one patient one record integrated comprehensive system
Belize health Information system .