WHY DID WE CHOSE TO DO A PROJECT ABOUT A CLINICAL HISTORY MANAGEMENT?

The implementation of the clinical stories is having impacts on clinical, pharmaceutical  and public health research . This is due to the creation of copies and backups of data from research that begins to be integrated with the clinical story of each patient, facilitating the development and implementation of new tools to support decision making of health professionals or clinical practice guidelines that contribute to the exercise of a medicine based on trial and error. The clinical story shows that it is possible to overcome these limitations because it allows any member of a network to access to  information and with this be able to have a higher quality data and more clinical precision.

WHY HAVE WE CALLED IT BABYLON?

The name of our project is due to Ancient Mesopotamia or Babylon, one of the first cities to advance in medicine and writing. At that time religion and medicine went hand in hand. The legendary medical symbol of the caduceus or the rod with two intertwined serpents is attributed to Babylon, where the serpents symbolize regeneration and transformation, due to the change of skin in these animals. Clinical stories are the Babylonians of diagnosis and patient care in modern medicine.

ER DIAGRAM

In order to build the database, we tried to follow the structure a real clinical history has. Here we have a summary of the main things it should contain.

The patient demographics include all the information which refers to the patient´s personal information. In our database that is enclosed an entity, PATIENT, which attributes are all his demographics.

The chief complaint refers to the reason why the patient has come to the hospital. This is held in another of our entities, APPOINTMENT, which has an attribute that is “reason”. As patient is related by a one to n relationship with appointment, each time the patient asks for an appointment, he will be able to include the reason why he is asking for it.

The past medical history is one of the most important things in a clinical history, because it allows the doctor to know all the pathologies the patient has gone through. The access to this is possible thanks to several entities: ILLNESSES, VACCINES, SURGERIES and TREATMENT which have a one to n relationship with the patient. This entities have attributes which contain all the information the doctor needs to know about the patients´ pathologies.

The family history is also very important cause the patient could be vulnerable to inherit some hereditary diseases. In the entity ILLNESSES, there is an attribute, “hereditary diseases” in which that information is stored.

Allergies and medication history are also entities which are related by a one to n relationship with the patient and by a one to one relationship between them so that with that relationships and its attributes, it encloses all the information related with allergies and medication.

The laboratory and diagnostic test results are stored in one of treatment´s attributes, “Test results” and the clinical notes and treatment notes in treatment´s and illnesses´ attribute “Observations”.