THE CREATION OF A NATIONAL TYPE 1 DIABETES REGISTRY IN MEXICO: RENACED DIABETES TIPO 1.

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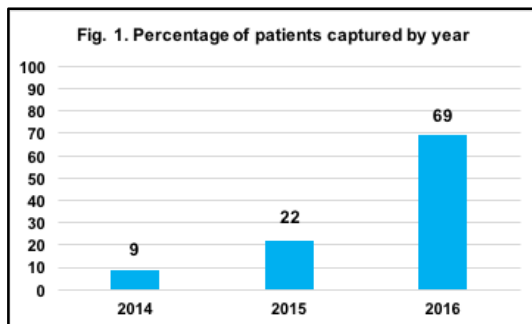
INTRODUCTION

Worldwide there has been an increase in type 1 diabetes (T1D) incidence and prevalence, leading to the creation of T1D registries. In Mexico, there is a knowledge gap regarding these variables, treatment practices and degree of diabetes control in patients with T1D. Our aim is to describe the creation of a national T1D registry in Mexico: "RENACED Diabetes Tipo 1".

METHODS

We developed an online system for longitudinal data capture based on LAMP (Linux, Apache, MySQL, PHP) technology, on a secure website, following the national laws of privacy and confidentiality (informed consent and notice of privacy).
The system allows for data capture relevant to T1D, based on St. Vincent Declaration. The data capture is performed by registered attending physicians with online access. The information can be analyzed at clinic, state or national level.

RESULTS

The online system development version 1.0 was finished in June 2014. Nine % of patients were captured in 2014, 22% in 2015 by one medical unit. Multiple improvements were done on the database for ease of capture, addition of graphics and reports. In 2016 69% of patients were captured in 12 medical units in 10 different states **(FIG. 1)**.

Fig. 1. Percentage of patients captured by year

As of October 5, 2016, a total of 494 patients have been captured **(FIG. 2)**, 474 with T1D, that live in 18 different states of the Republic **(FIG. 3)**.
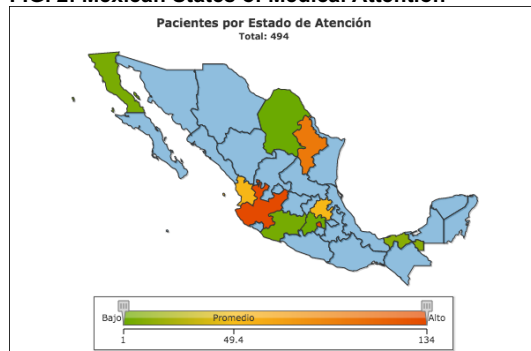
FIG. 2: Mexican States of Medical Attention

Pacientes por Estado de Atención
Total: 494

FIG. 3: Mexican States of Residency
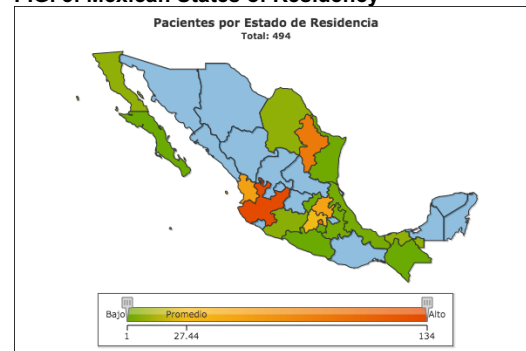

Pacientes por Estado de Residencia
Total: 494

FIG. 4 shows the age distribution of the T1D patients by age at T1D diagnosis. Being higher between 6 and 15 years (Y) old.
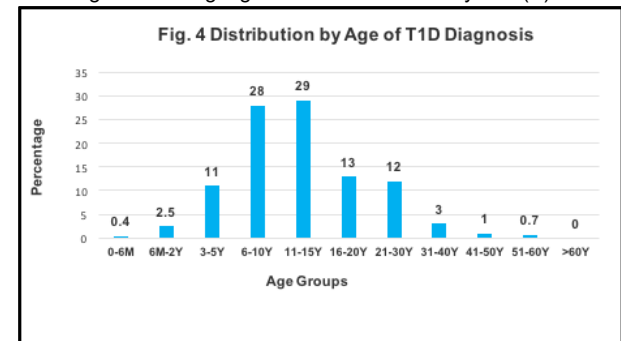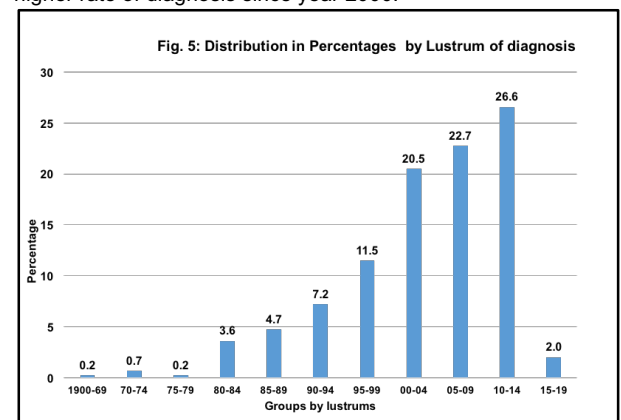

Fig. 4 Distribution by Age of T1D Diagnosis

FIG. 5 shows the distribution by lustrum of diagnosis. Noting a higher rate of diagnosis since year 2000.

Fig. 5: Distribution in Percentages by Lustrum of diagnosis

CONCLUSIONS

This is the first online T1D national registry in Mexico. More support and diffusion will lead to more physicians registering their patients, and will provide more knowledge of the T1D reality in Mexico.

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