

TYPE 1 DIABETES IN LB

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MGSD Executive Board Member

SOLFED 12-14 MAI 2017 SAINT MALO

AGENDA

- CHRONIC CARE CENTER
- FIGURES TYPE 1 DIABETES
- SOME RESULTS



The Chronic Care Center , a specialized institution for treatment of childhood chronic diseases

DIABETES THALASSEMIA



Member of the
**International
Diabetes Federation**



2014



YEARS OF
COMMITMENT



CHRONIC CARE CENTER-BEY/LB
NGO/NPO/(IDF-member)

FOUNDED IN 1994 (JOSLIN/PARIS)

Diabetic flow chart



Endocrinologist

Patients are clinically monitored and followed up at regular intervals by the Endocrinologist.

A General assessment is conducted during each check-up, insisting on the detection and early treatment of complications

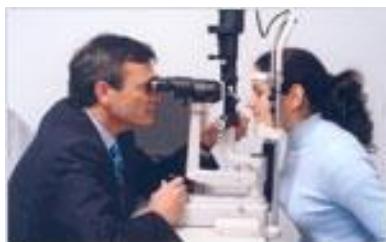


Nurse educator

Providing patients with basic education concerning diabetes, helping them become self-sufficient with regards insulin injections, blood glucose testing and management of acute complications (hypo/hyper – glycemia, ketosis).



dietitian



Ophthalmologist



pharmacist

Dentist



Social worker

Working on acceptance of the child's situation, building trust with the families and promoting social integration.



psychologist

Moving from passivity to decision-making and self-reliance.

Specialists available on site include : Endocrinologists, Ophthalmologist, dentist, nurse educators, dietitian, social workers, psychologist and pharmacist



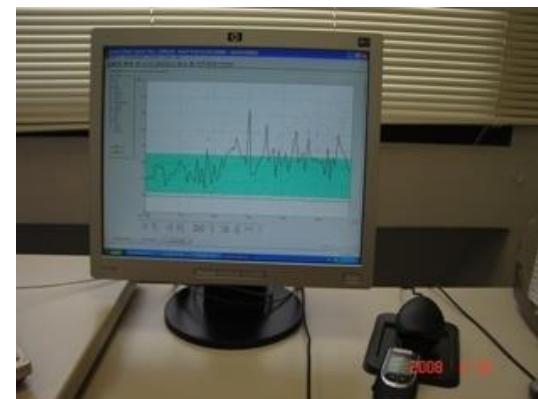
24 Hr
assistance by a
specialized nurse



Services Provided:

The Center is committed to provide patients with a full treatment according to international recommendations comprising

- ▶ Provision of medication & material: including
 - Insulin Therapy
 - Monitoring devices and glucose strips that allow Analysis of results on computer
 - Monitoring devices CGMS for selective patients
 - HBA1c Monitoring
 - Access to 24h hotline services



COUT ANNUEL PAR PATIENT

- ▶ 1500\$/AN (INSULINES HABITUELLES)
- ▶ 5000\$/AN (POMPE)

FIGURES IDF vs REAL

TYPE 2 DIABETES

- 2011 IDF STATES 20.3 % OF THE LEBANESE POP >20 Ys
- 2016 14%
- 2 MAJOR STUDIES
 - LSEDL (38000 TESTS) 2013 # 10.8%
 - ADIB S, et Al AUB METAANALYSIS + 2016 # 11%

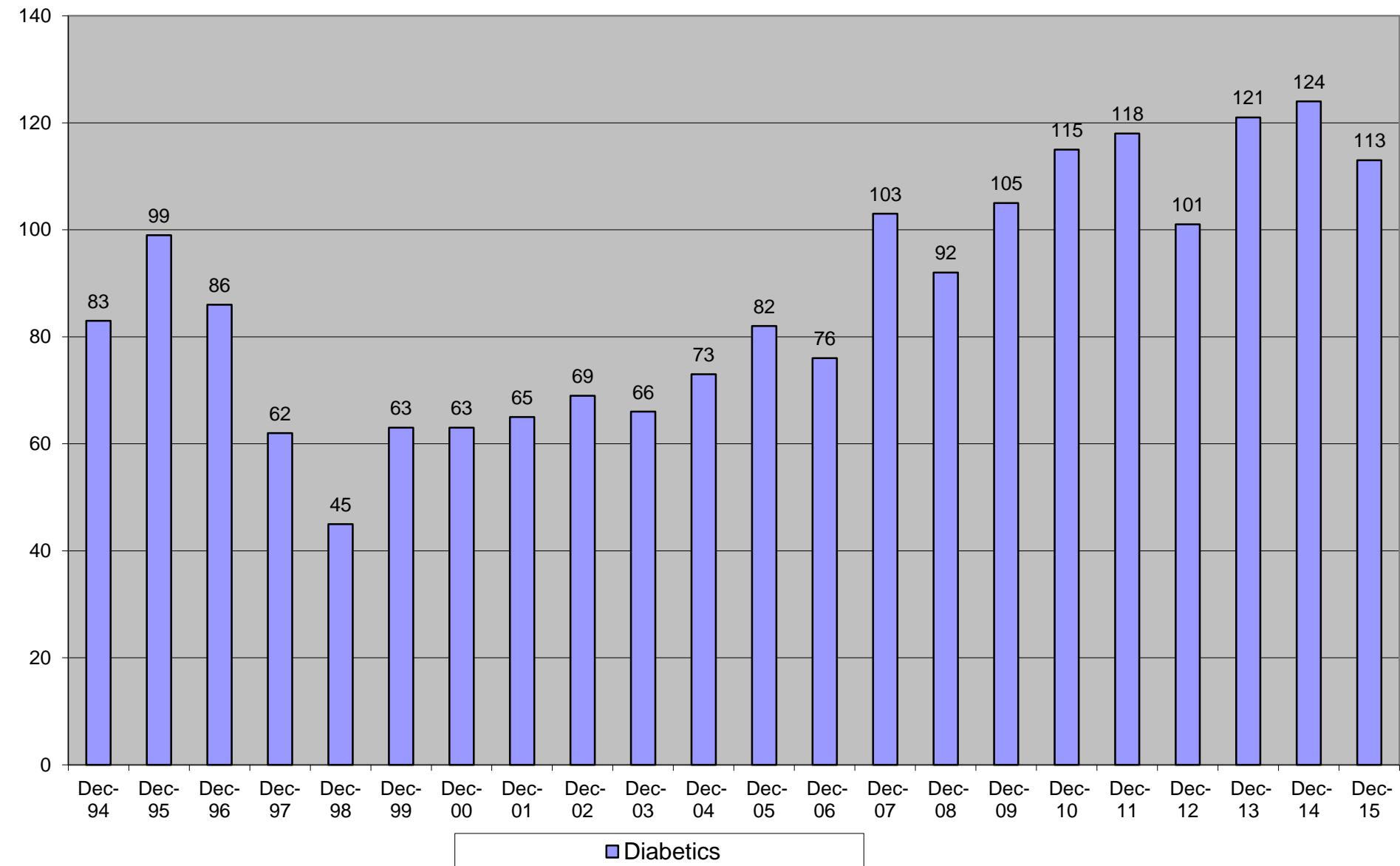
Reported Incidence of Type1 Diabetes at the MENA Region per 100.000 population under 15 yrs (IDF Atlas 2006)

• Algeria	8.6
• Bahrain	2.5
• Egypt	8.0
• Iran	3.7
• Iraq	3.7
• Jordan	3.2
• Lebanon	3.2
• Libya	9.0
• Morocco	8.6
• Palestine	3.2
• Oman	2.5
• Qatar	11.4
• Saudi Arabia	12.3
• Sudan	10.1
• Tunisia	7.3
• Emirates	2.5
• Yemen	2.5

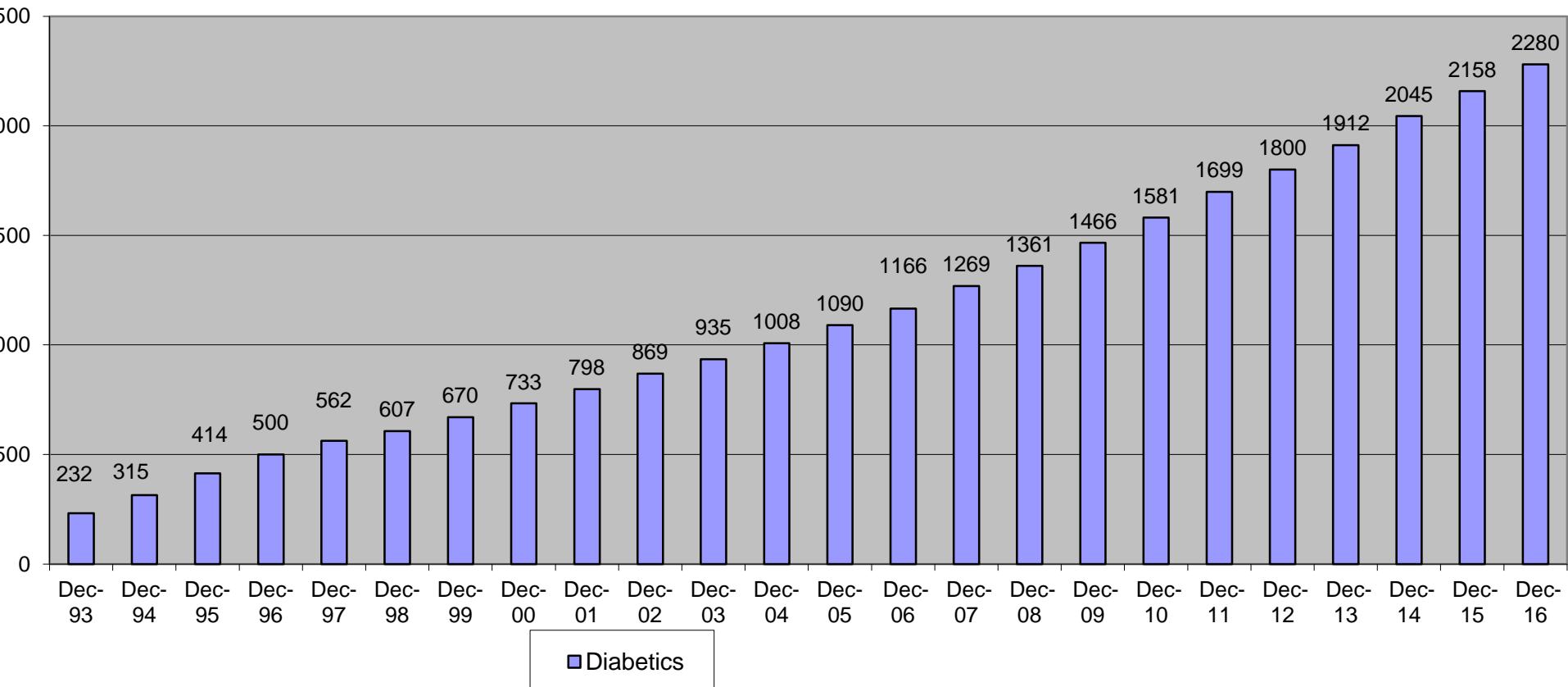
CONTROVERSES/IDF

- INCIDENCE <15y 3.2/100000
- POP= 1.2M (MOH DATA 2014)
- 38 NOUVEAU CAS / AN
- GENERATION DE 15 ANS = 576 CAS
- EN FAIT L INCIDENCE EST 2FOIS PLUS MAIS TRES BASSE vs USA / EUROPE / JAPAN

Number of New Patients at CCC



Number of Registered Patients at CCC



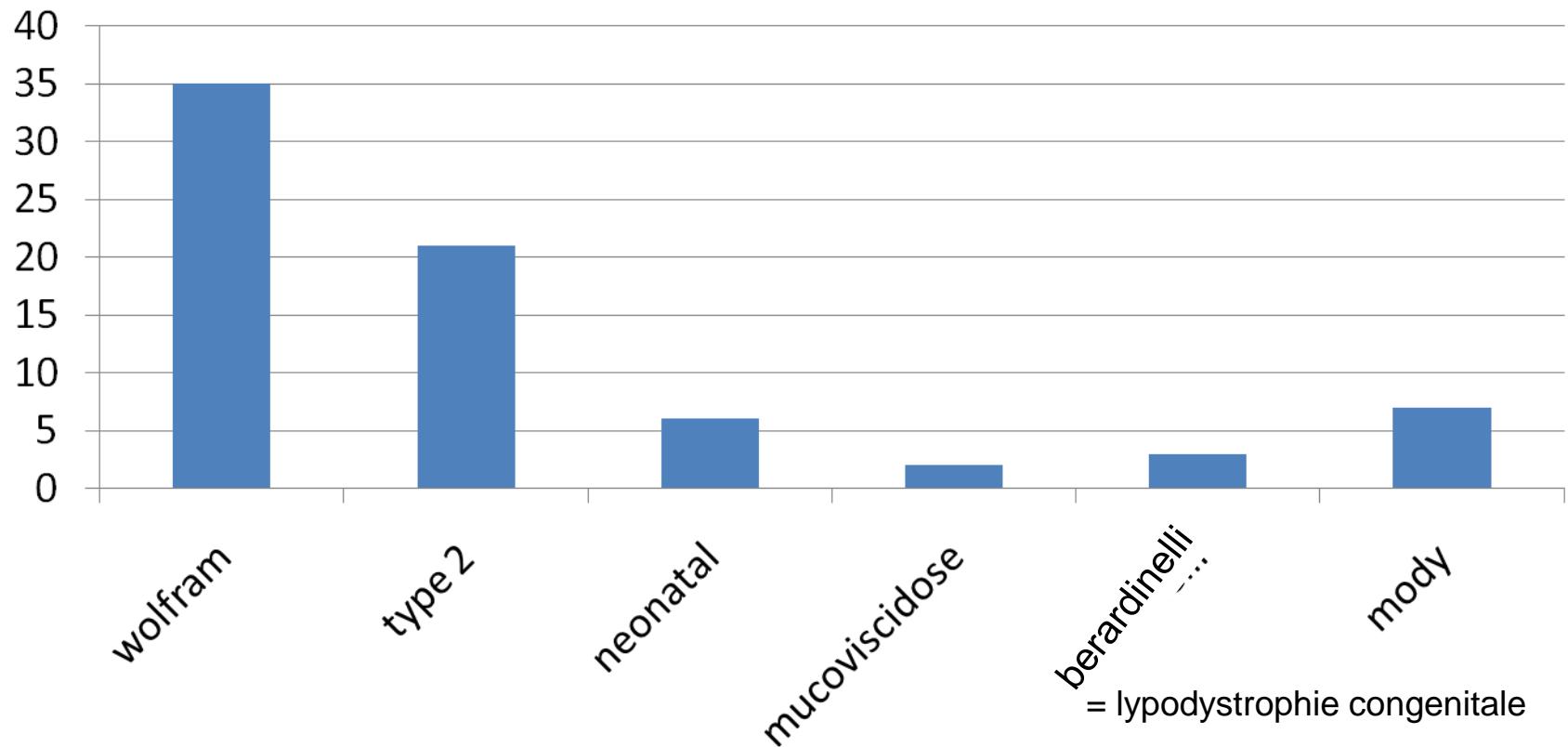
The current number of Registered Diabetics is **2359** (Mars 2017)

The center success in providing patients with a comprehensive treatment coupled with the economic recession in the country led to an increasing number of patients that are fully covered by the institution.

TYPE DE DIABETE JUVENIL EN 2016

n=2359

nombre



= lypodystrophie congenitale

(90 %) ont des mutations du gène codant la Wolframine (Wolfram de type 1)
de transmission récessive ou semi-dominante.

**70-80% DES PATIENTS DE TYPE 1
SONT AU CCC(2300)**

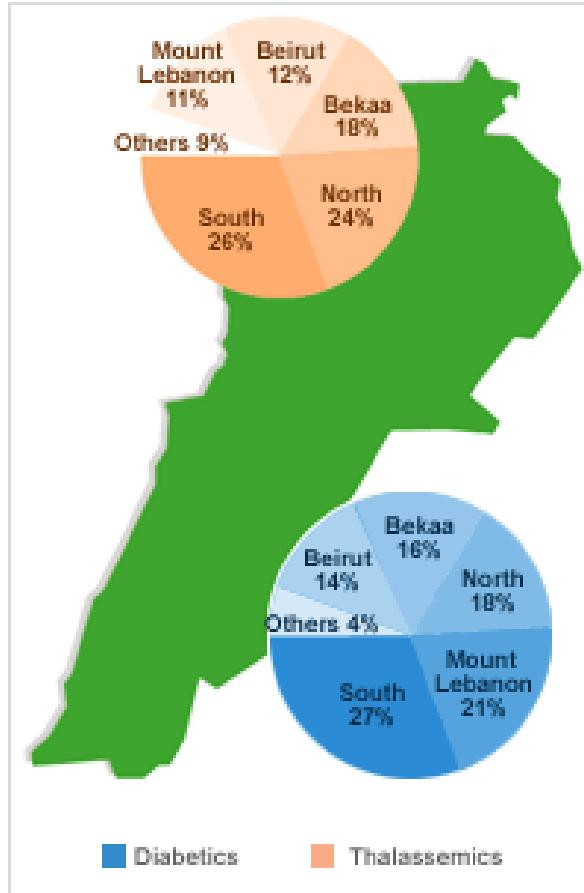
**ESTIMATION TOTAL #3500 PTS
TOUT AGE CONFONDUS**

TYPE 2 = 11% (20-79a) # 250 000

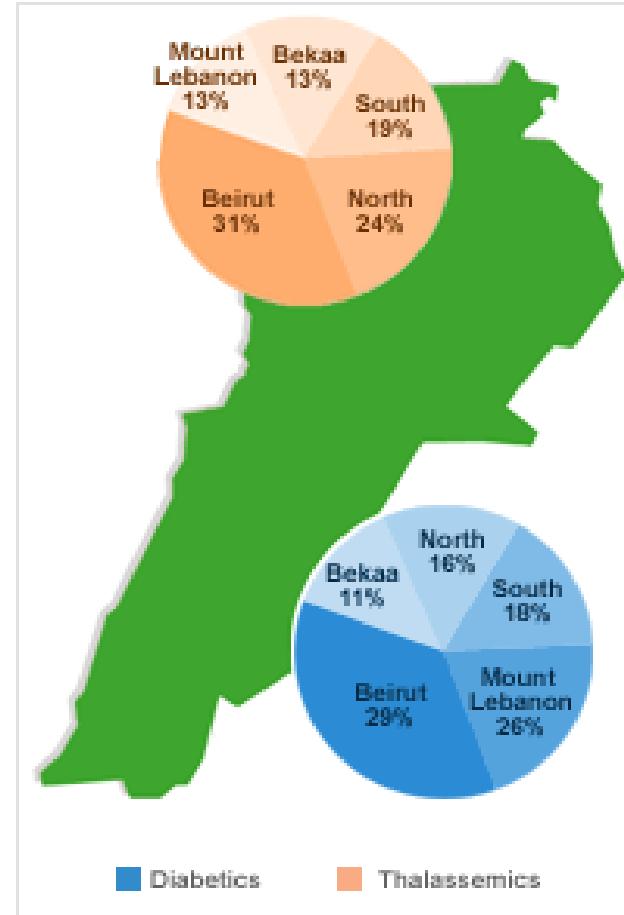
RATIO DE # 1.3%

Geographic Patient distribution

Patients Geographic distribution by Origin

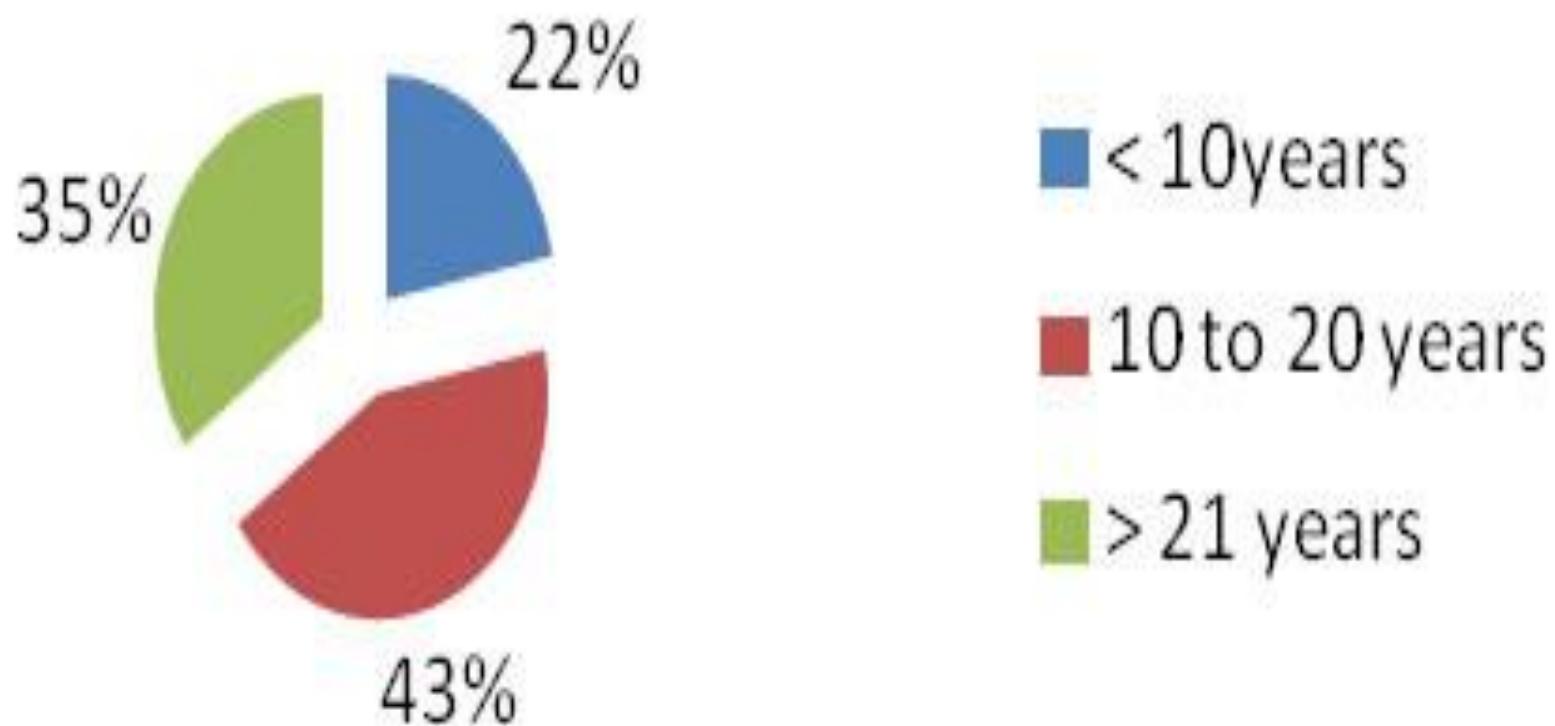


Patients Geographic distribution by Address

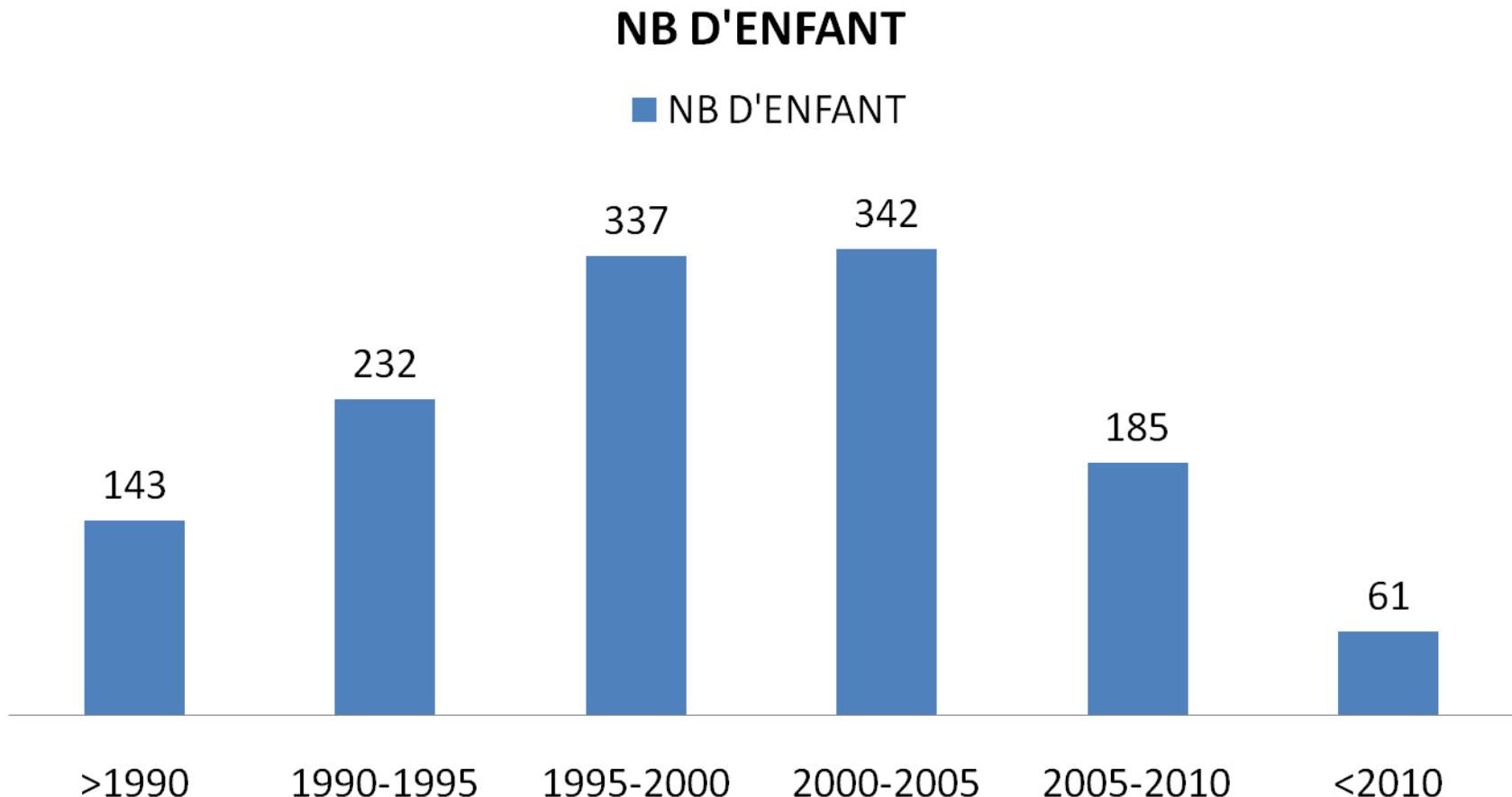


Patients are referred from all regions of Lebanon.

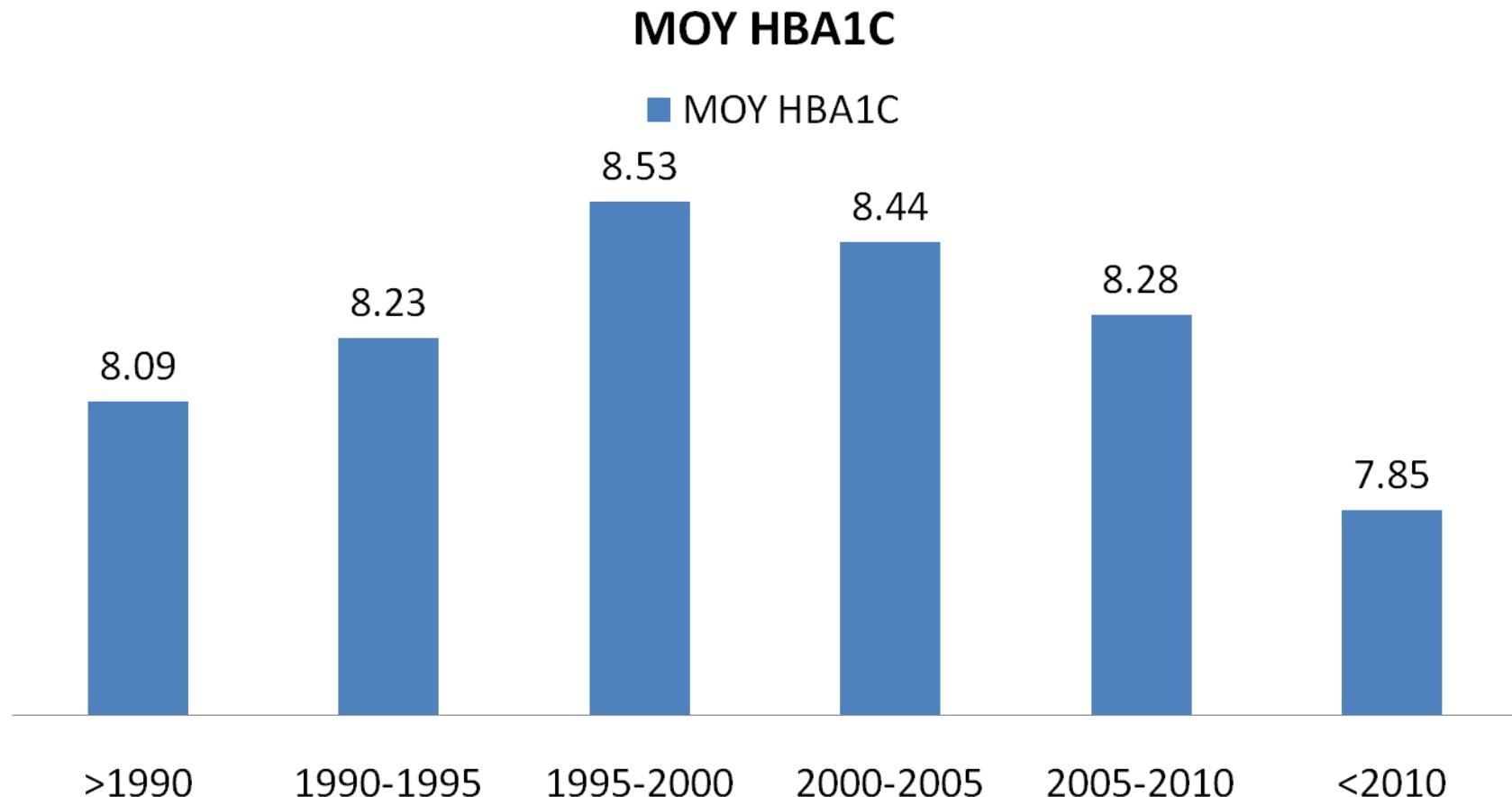
Age Distribution of Diabetic Patients



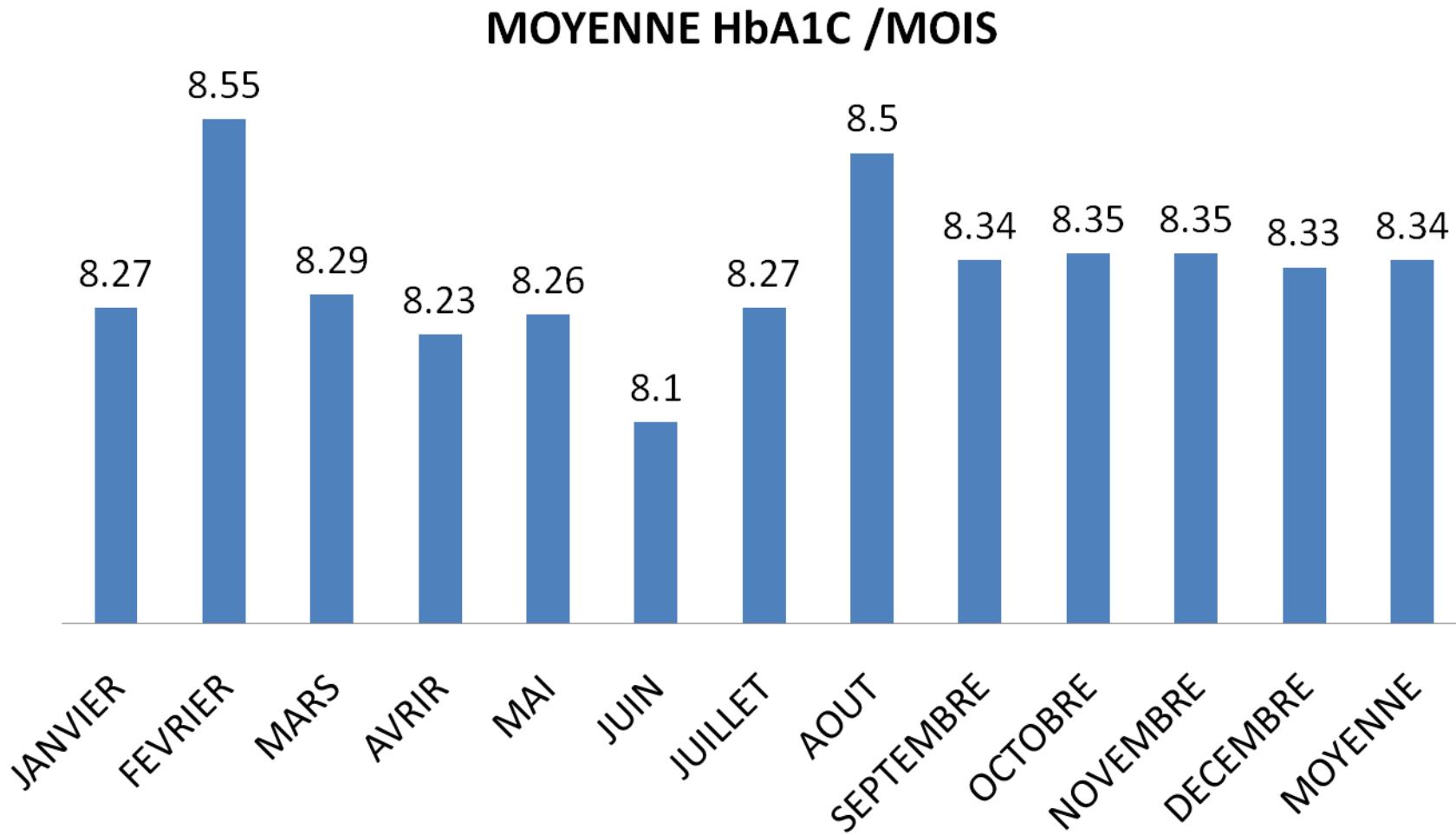
NOMBRE DE PATIENT PAR TRANCHE D'AGE(ANNEE DE NAISSANCE)



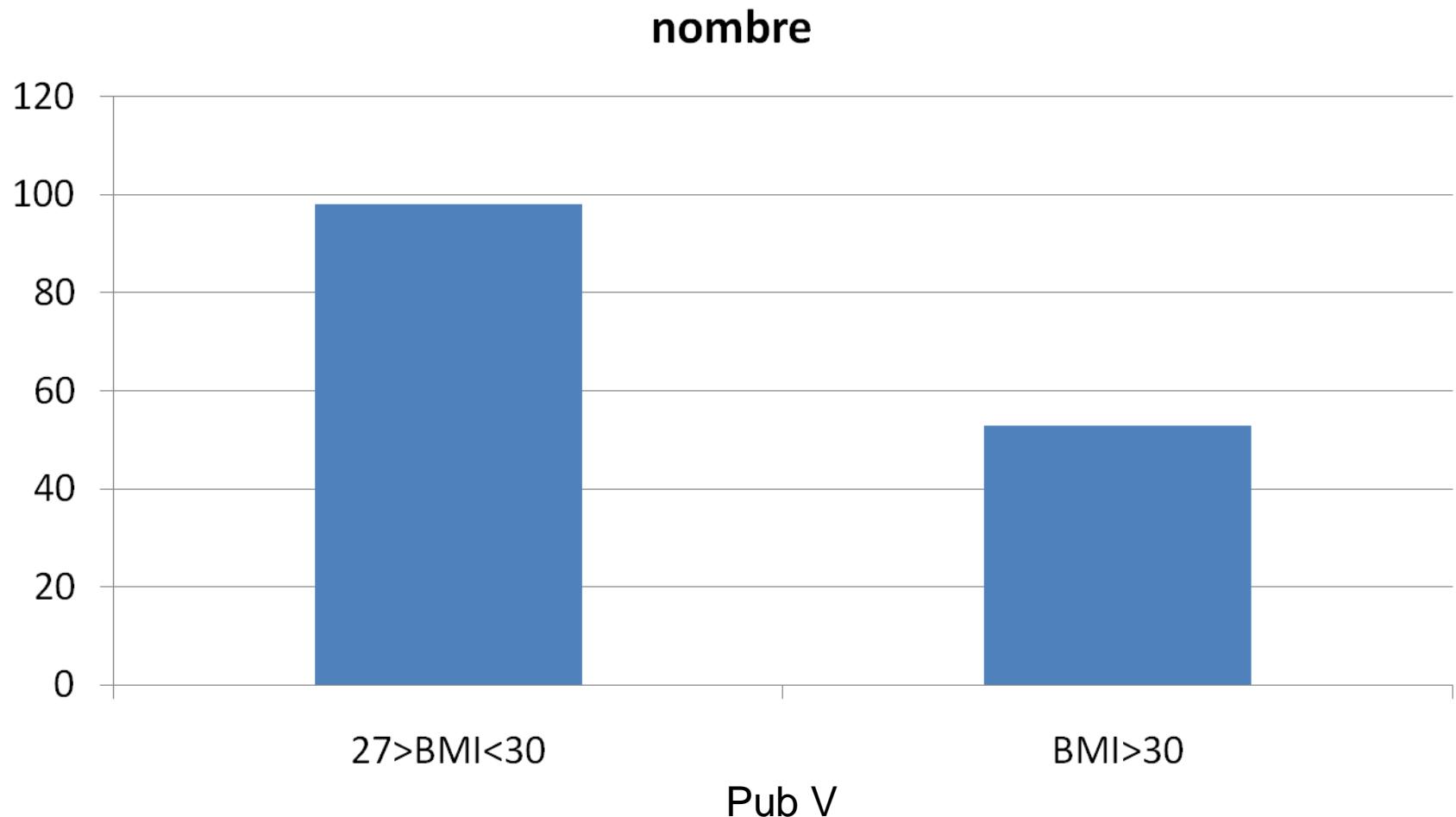
MOYENNE HBA1C PAR TRANCHE D'AGE (ANNEE DE NAISSANCE)



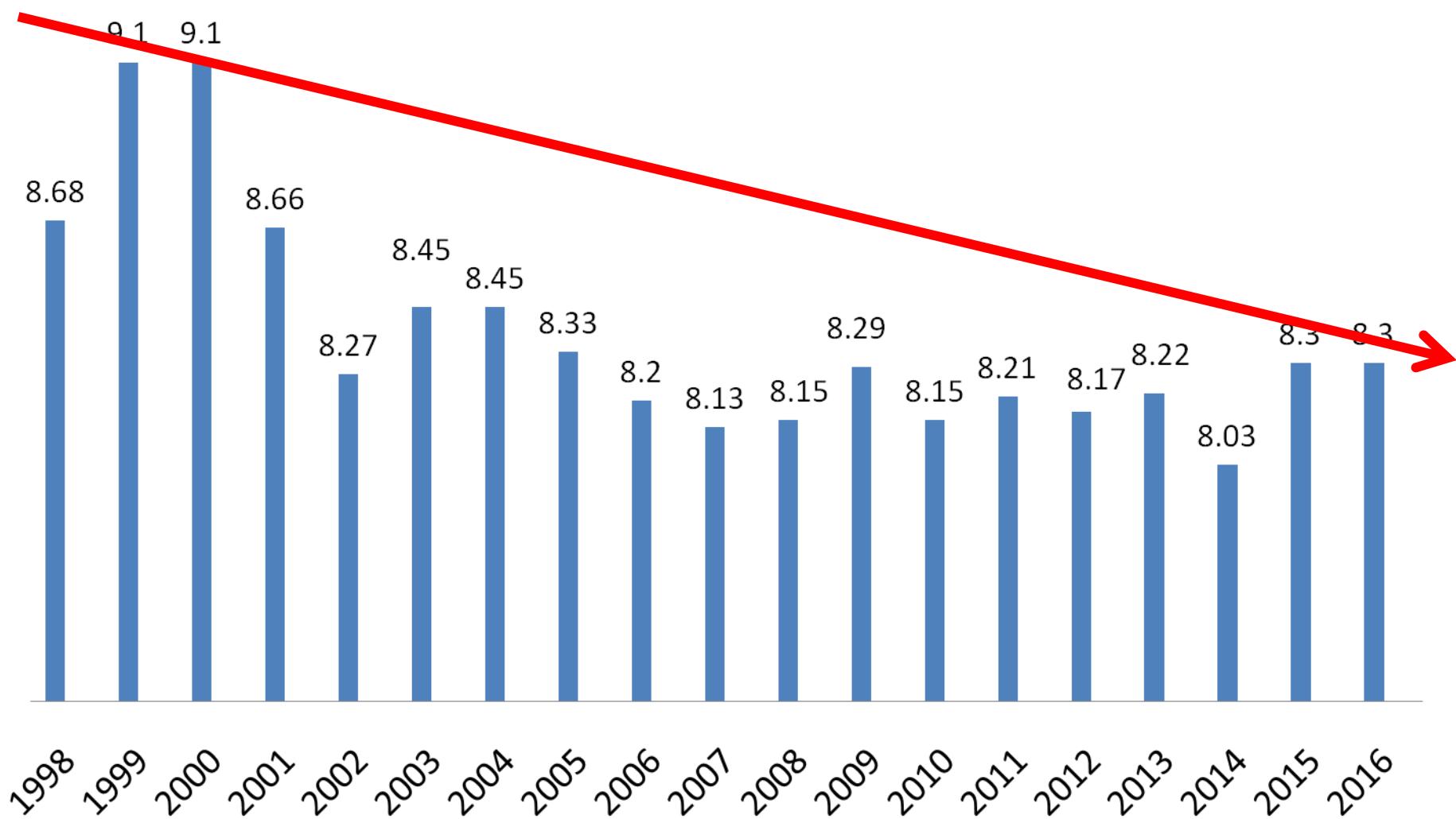
DISTRIBUTION HbA1C ANNEE 2016



151 PATIENTS TYPE1 DONT LE BMI SUP A 27 EN 2016



Moyenne HbA1c de 1998-2016



RETINOPATHIE

- PREVALENCE A + 15 ANS D EVOLUTION
 - *1998 24% (A1c = 9. 3%)
 - *2013 11.4% NON PROLIF ET 3.2% RP
 - HbA1c = 8.1%
 - N= 220 , Age 12-46
- TYPE 2 A +10 ANS D EVOLUTION DE 35%
 - **2009 PR(26%) NPR (9%)
- *Prevalence of Retinopathy... P Baz et Al J med Lib 2013 sept
- ** Prevalence of retinopathy in T2D... Salti et Al Canadian Jour Ophtalmo 2009

CLINICAL TEAM

- NURSES
 - CLAUDE,PASCALE,COLETTE,IBRAHIM
- DIETICIAN
 - JOANNA
- OPHTALMO
 - PATRICK
- DENTIST
 - BLANDINE
- PSYCHO
 - NAZEK
- ENDOS
 - (ELIANE,SAMY,GEORGES,RITA,HALA,MARIA,MIREILLE,CHARLES)

THANK YOU