

Current State Of Vascular Access In Chronic Hemodialysis Patients In Algeria

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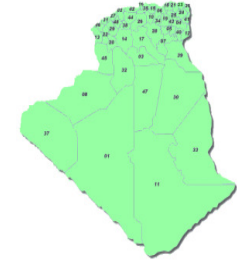


“ We believe that we can keep alive patients with uremia as long as the veins and arteries are in good condition. ”



Willem Kolff, 1944

In ALGERIA..

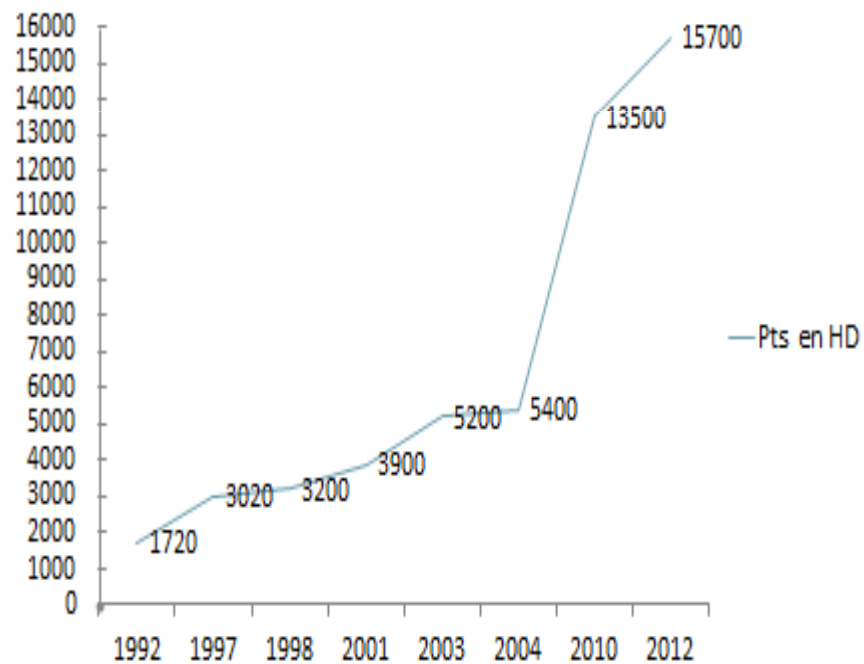


- Population of 37.100 000 inhabitants.
- Prevalence of ESRD 350 PMP
- Incidence of 94 PMP (3500 New cases/year)
- 17416 ESRD Patients
- 15.232 Patients on HD : 274 Hemodialysis center
 - 154 Public Centers 8013 patients
 - 120 Private Centers 7219 patients
- 430 patients on Peritoneal Dialysis (90 Infants)
- 100 Renal Transplantation / year (3%)

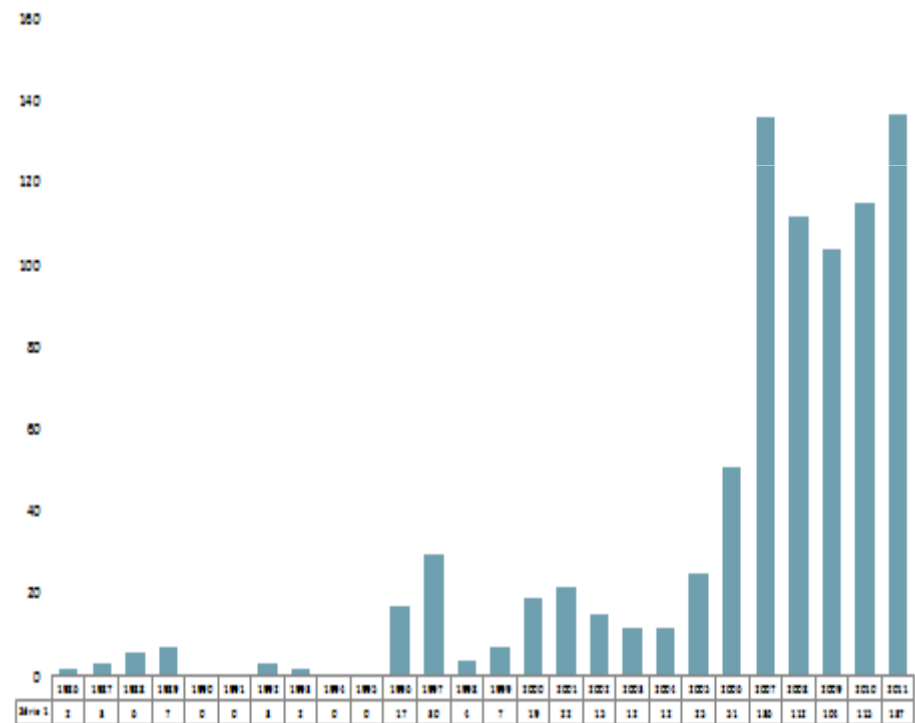
ESRD: end stage renal disease


HD :hemodialysis

Prevalence of Hemodialysis



Renal Transplantation Activity



- 
- **Despite all the progress made in the techniques of renal replacement therapy, survival on hemodialysis (HD) depends in a large part on **the quality of vascular access.****
 - **Vascular access and its eventual complications remains **the leading cause of morbidity** in hemodialysis patients.**

Objective of the study



- 1. identify what type of vascular access for Hemodialysis is made on first intention?**
- 2. realize a clinical expertise on the vascular access for dialysis in patients after a certain period of HD.**

Patients and Method :

- Prospective study.
- Multicenter
- Datas collated on 60 days (data collection and statistical study)
- **1029** chronic Hemodialysis patients.
- **21** Hemodialysis centers (public and private center) located in the capital city of Algiers and neighboring towns.
(Tizi ousou.Tipaza.Ain Defla.Medea.Msila.El-Eulma..)

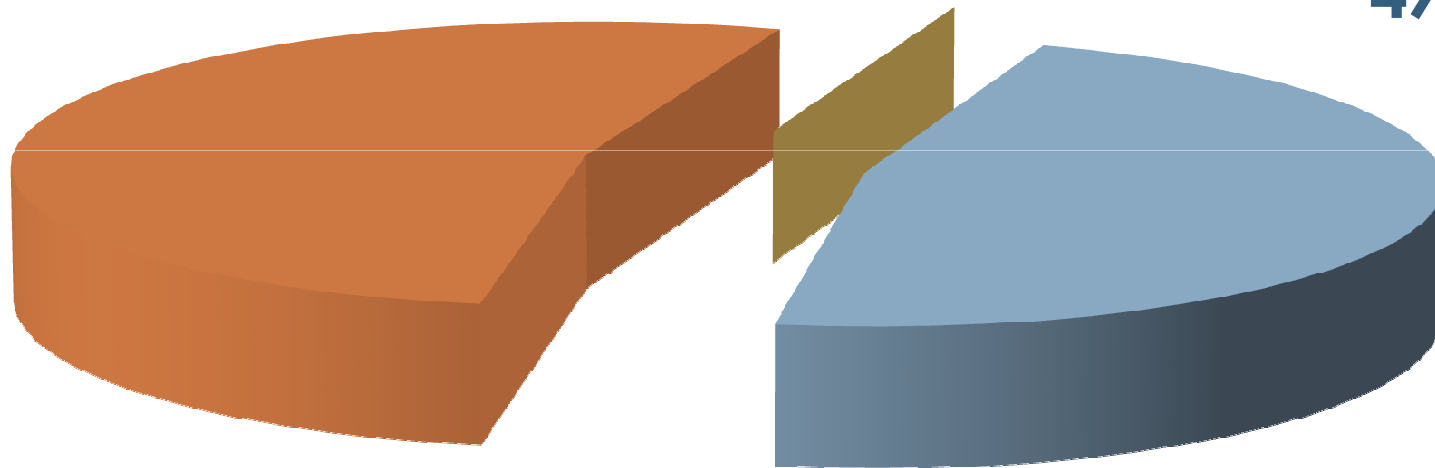


RESULTS

Gender

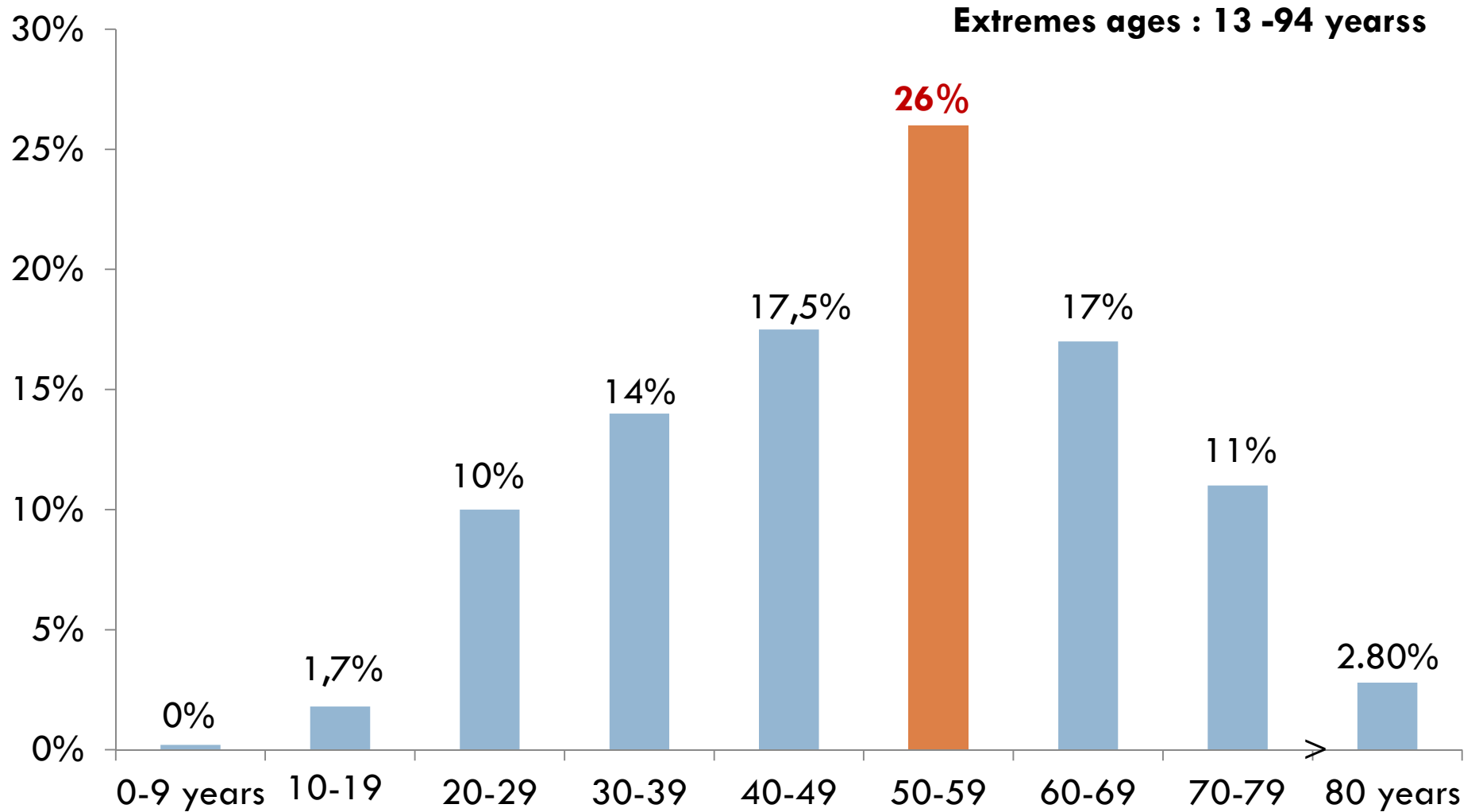
Female
53%

Male
47%



Sex Ratio = 1.12

Age



Distribution by age /gender

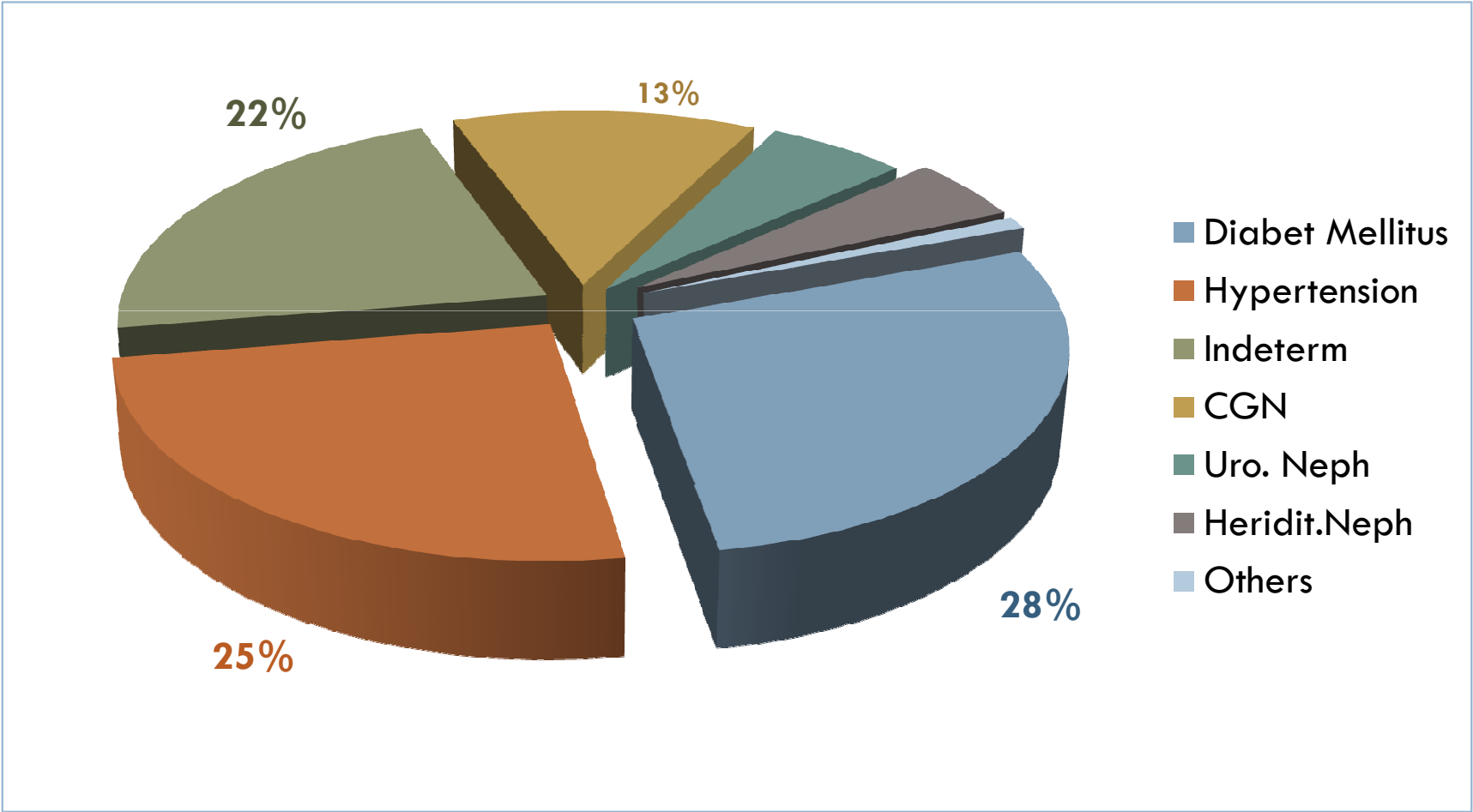


Male

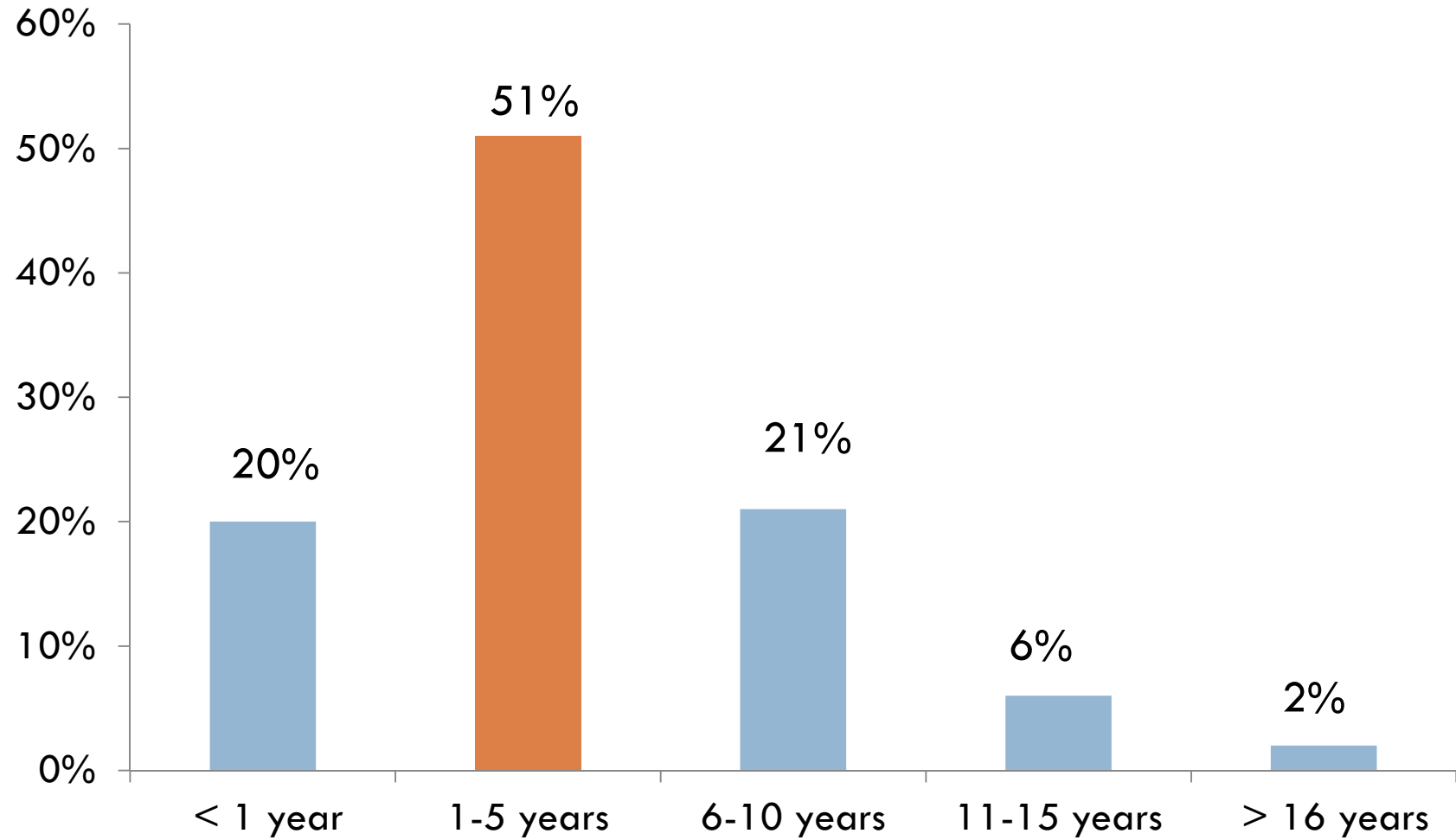
Female

48 48.5 49 49.5 50 50.5 51 51.5 52
years

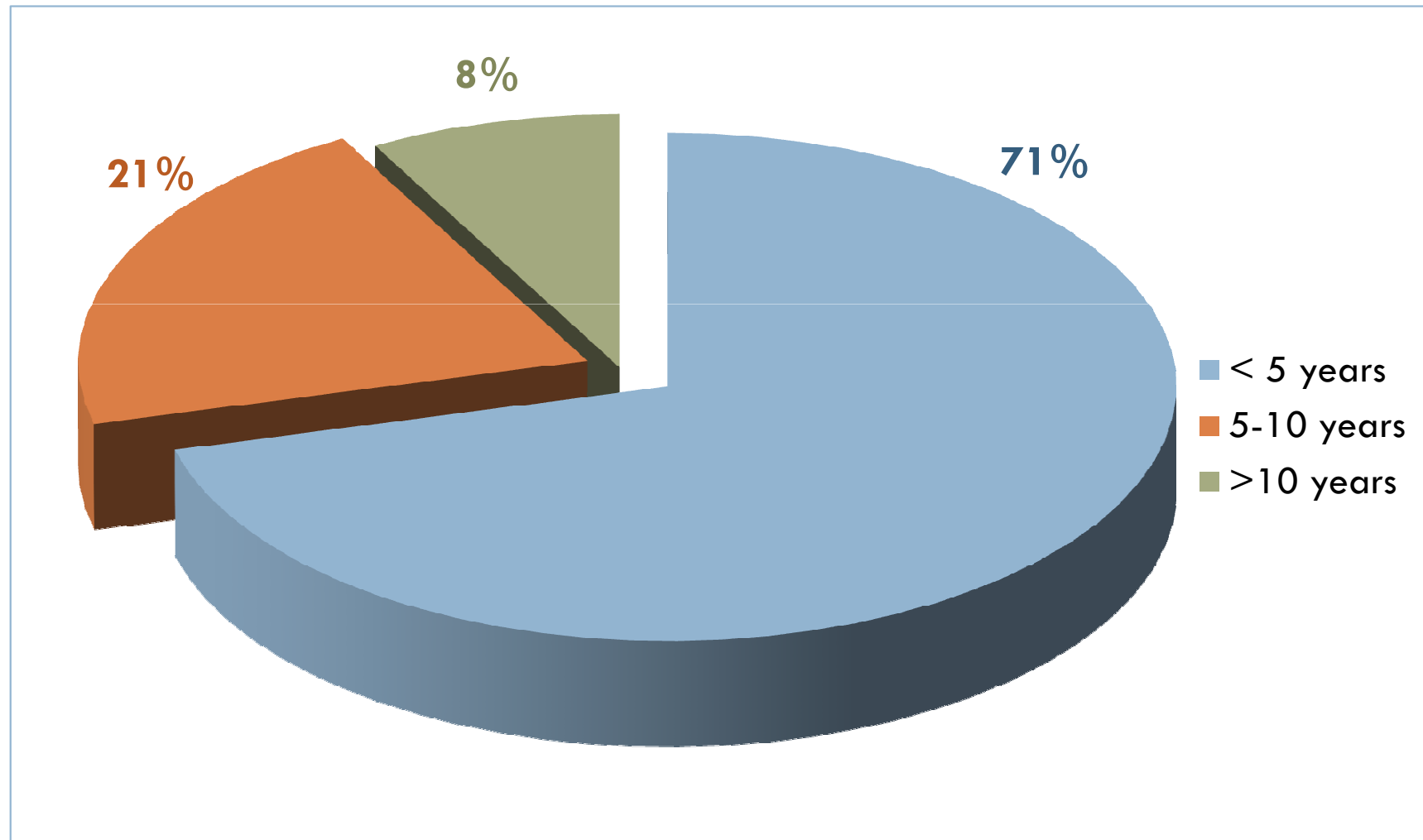
Initial Nephropathy



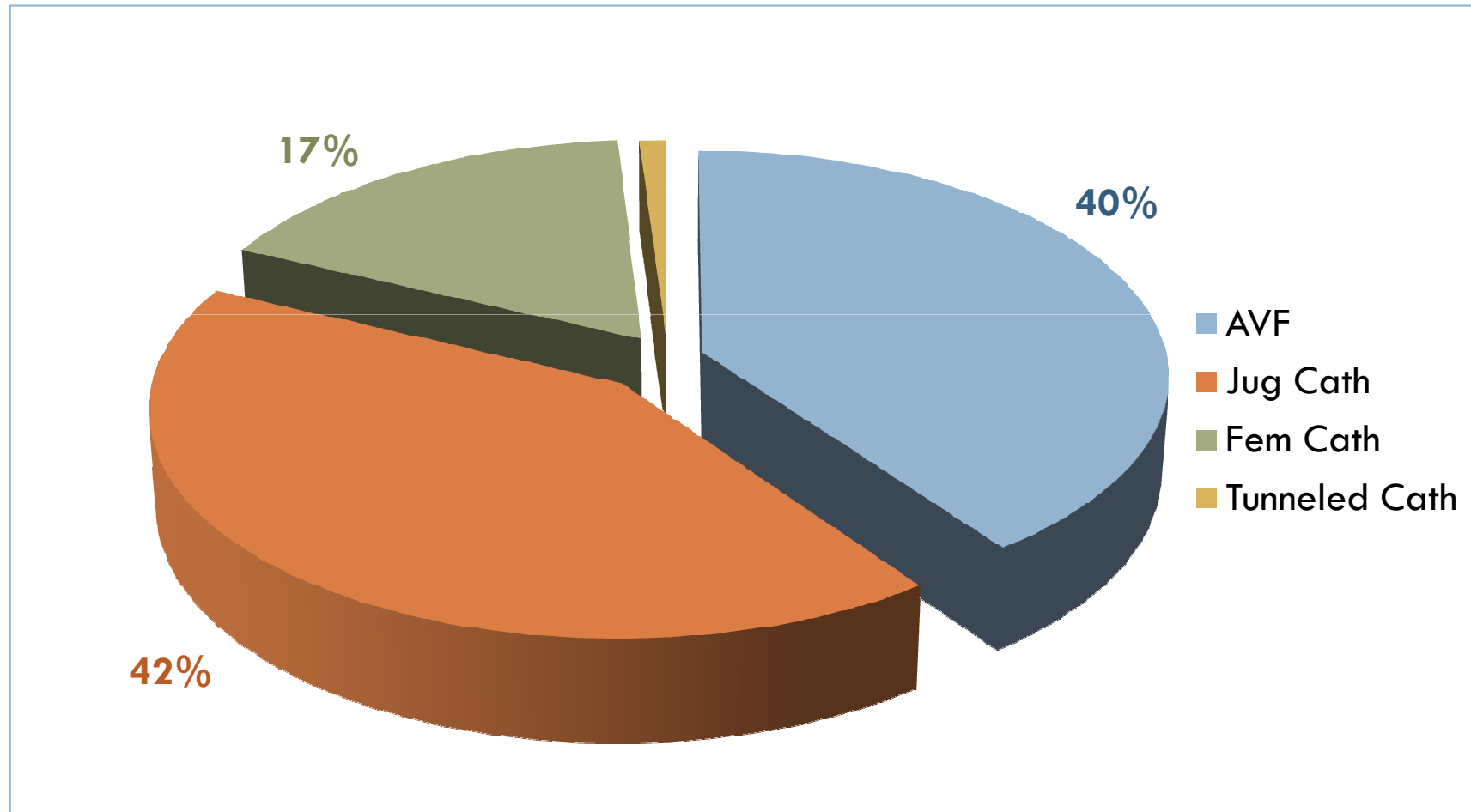
Life Span On HD



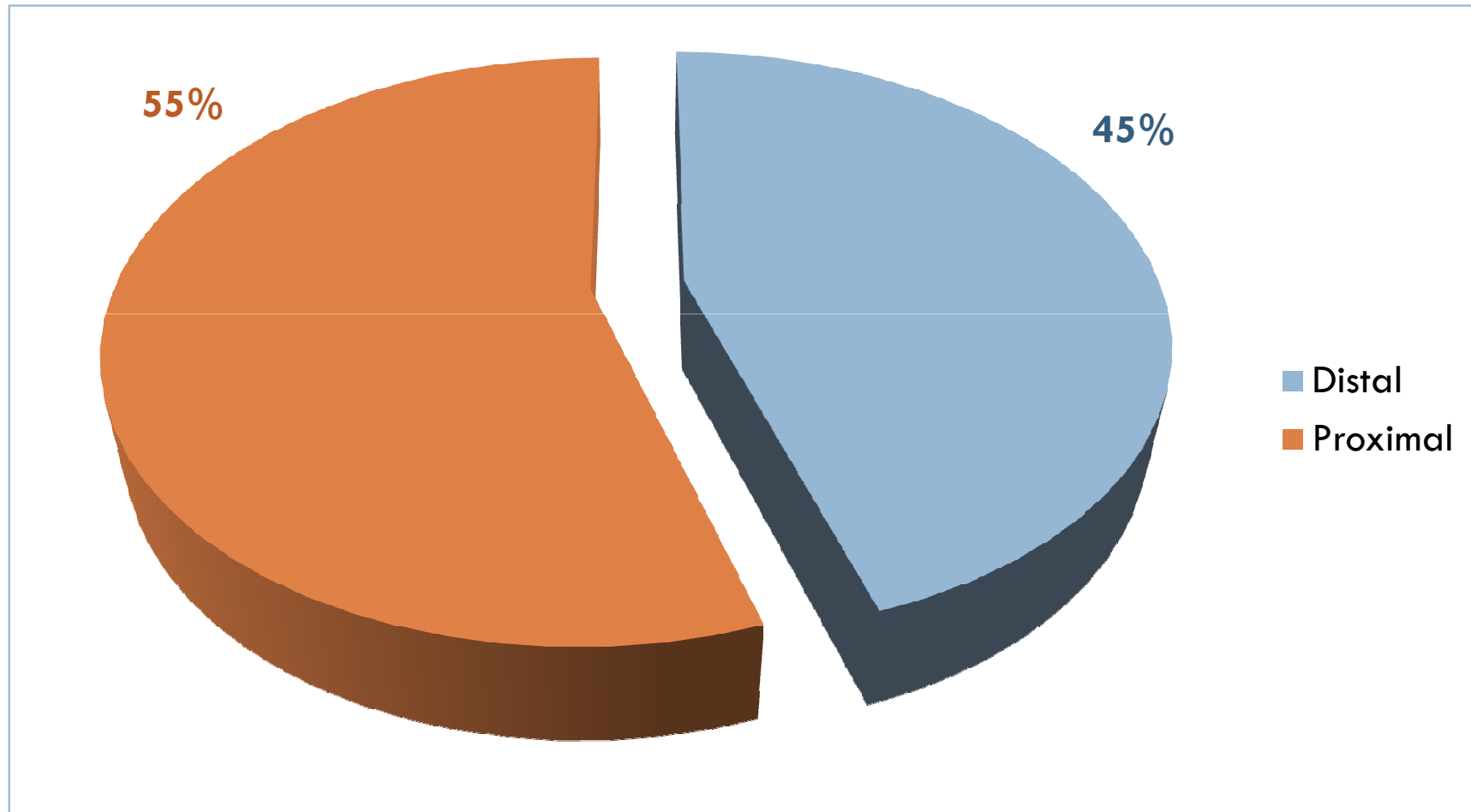
Life span on HD



First access for HD was...



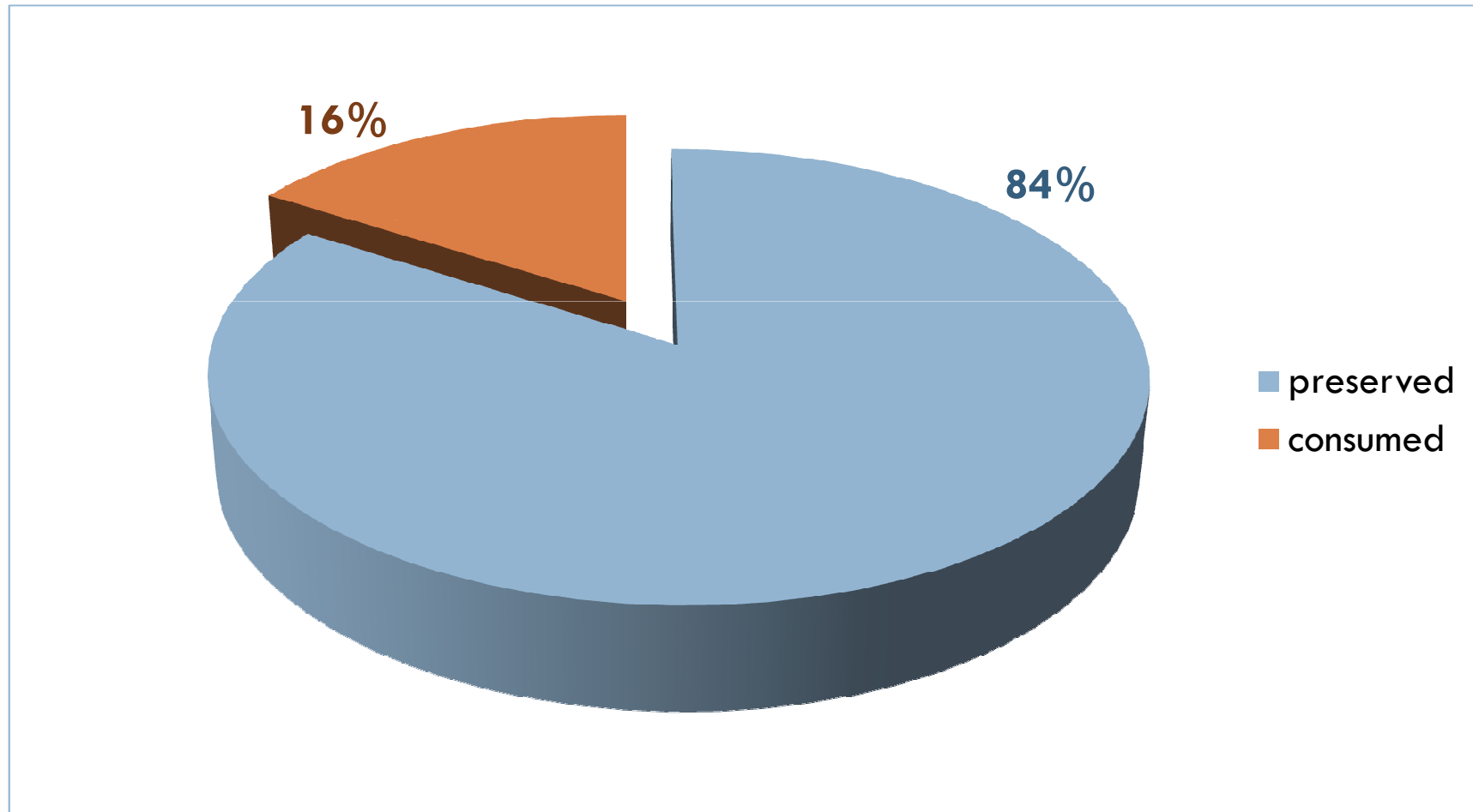
First AVF was...



Total of AVF Vs Life span on HD

	0- 5 years	6 - 10 years	11 - 15 years	> 15 years
01 AVF	557 patients	223 Patients	69 Patients	19 Patients
2 AVF	53	10	8	4
3 AVF	16	8	2	3
4 AVF	9	3	3	4
5 AVF	5	4	3	6
Tunneled Cath	2	8	5	5
TOTAL	642 patients	256 patients	90 Patients	41 Patients

Clinical evaluation of vascular access for HD (less than 10 years on HD)



Comments :

- .Sex Ratio was **identical**
- .Relatively young population (**40-60 years**)
- .Percentage of undetrmined nephropathy remains elevated.
- .Percentages of Diabetic and Hypertensive Nephropathies join International datas.

Comments :



- . **Central Catheter** remains the leading access for HD.
(Despite 40% AVF on first intention → Follow-up of uremic patients before ESRD)
- . **1 Patient/2** : First AVF **Proximal** than **Distal**
- . **1 patient /5** has « a **Poor Vascular capital** » within 10 years of dialysis.

CONCLUSION

- Vascular Capital of hemodialysis patients is **VITAL**.
- **Great interest to preserve it preciously :**
 - Education of uremic patients and nursing staff.
 - Careful assessment of where anastomosis should be performed using radiological investigation if necessary.
(Distal>>Proximal)
 - Regular radiological monitoring of the vascular access.
- Multidisciplinary planning seems essential to achieve this goal and thus improve **the survival** of patients on chronic hemodialysis.

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GRACIAS !

