

INTRODUCTION

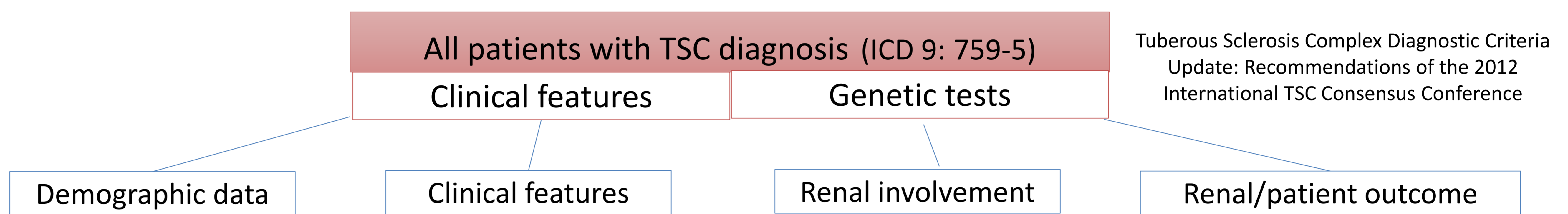
- Tuberos sclerosis complex (TSC) is a rare, autosomal dominant disorder caused by mutations in TSC1/TSC2 genes
- It is characterized by tumor lesions in multiple organs, neurological abnormalities and dermatological features
- Renal features → angiomyolipomas and renal cysts → hemorrhage/excessive growth → impaired renal function

AIMS

Characterize and evaluate the prevalence of renal involvement in patients with TSC at a central hospital over a 17-year period

POPULATION AND METHODS

Retrospective, observational, one-center study – 1st Jan 2000 – 31st Dec 2016



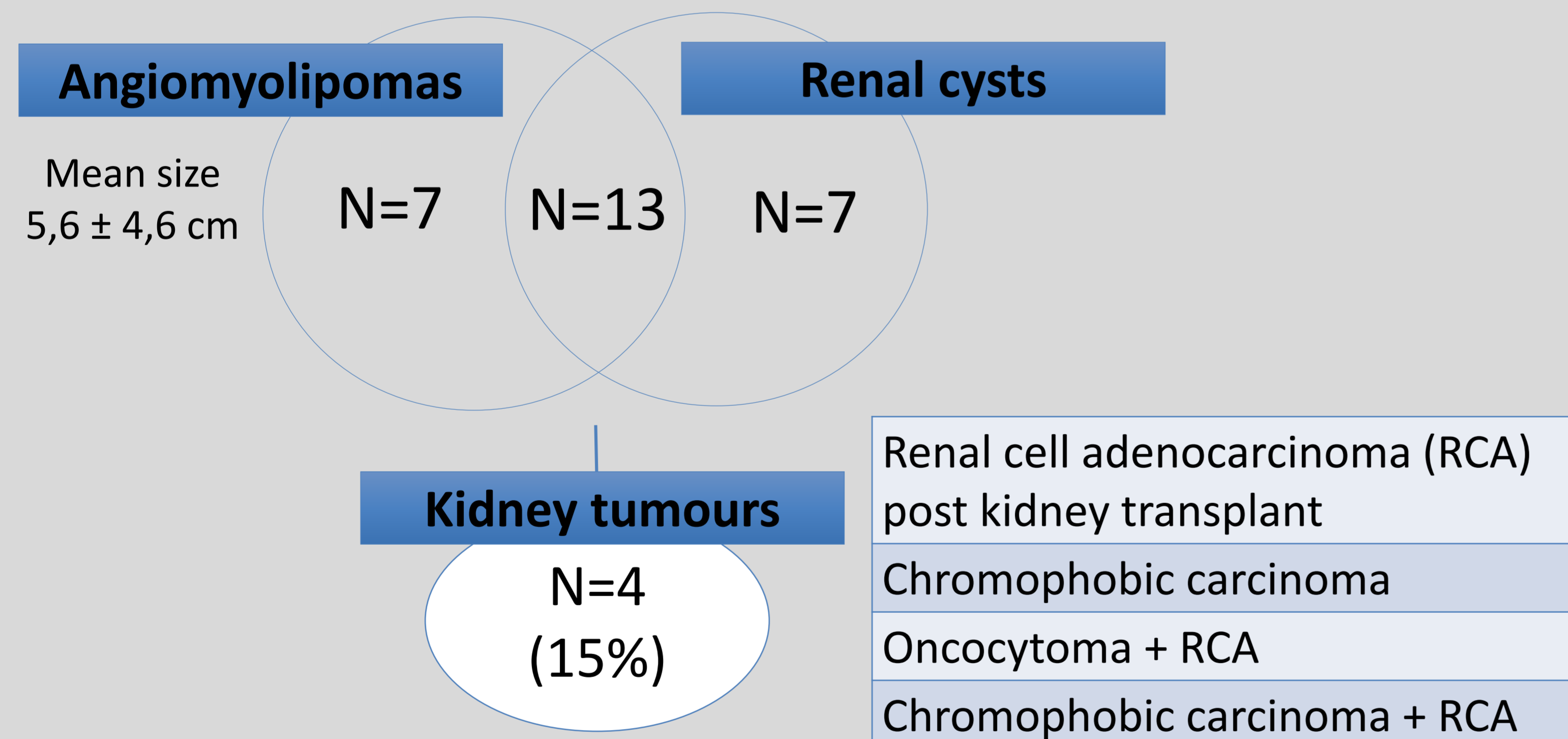
RESULTS

17 years → 37 patients included

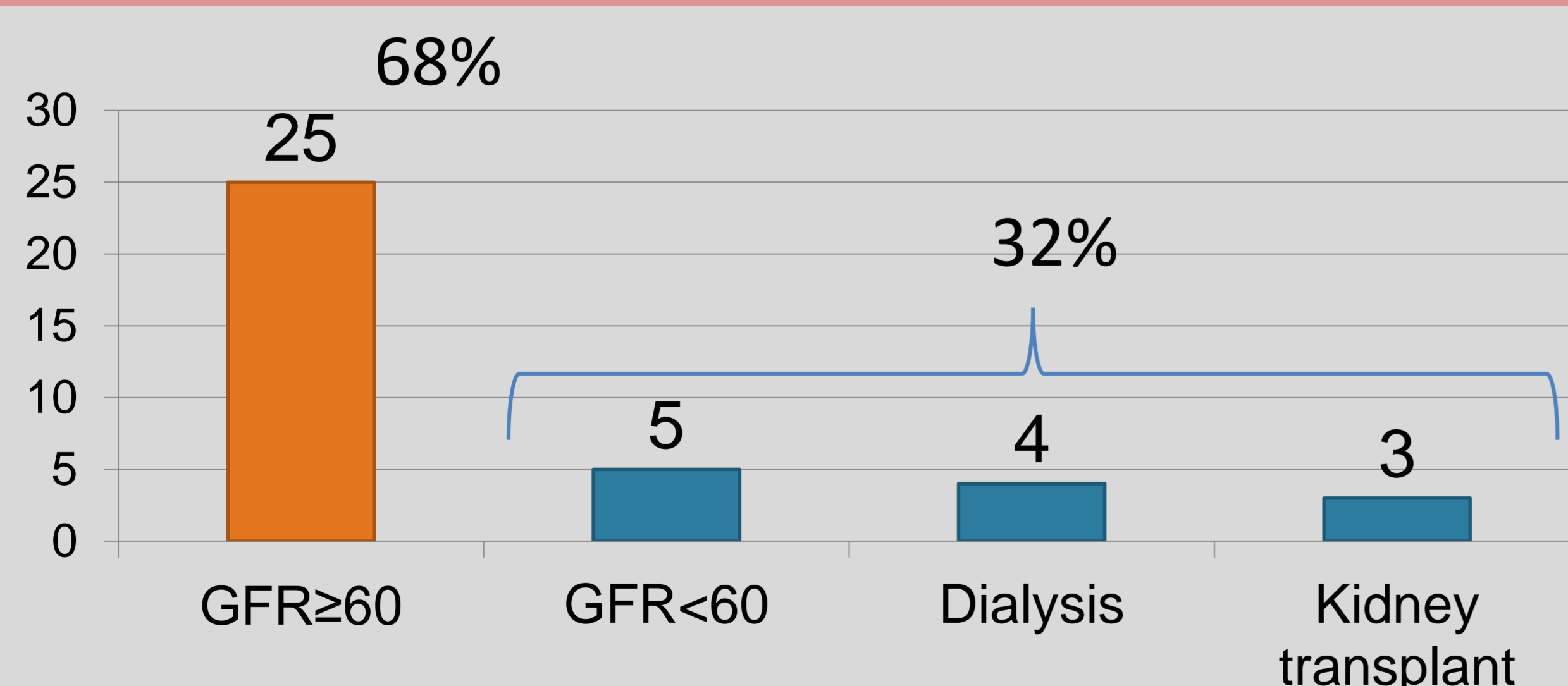
DEMOGRAPHICS

Sex	Female N=19 (51%)	Male N=18 (49%)
Age (mean± sd [min-max])	39,6 ± 15,9 [16-82] years	
Age at diagnosis	22,7 ± 17,9 [1-62] years	
Genetic testing	10 patients	TSC2 N=9 Waiting N=1

27 patients with renal involvement – 73%



Patient outcome

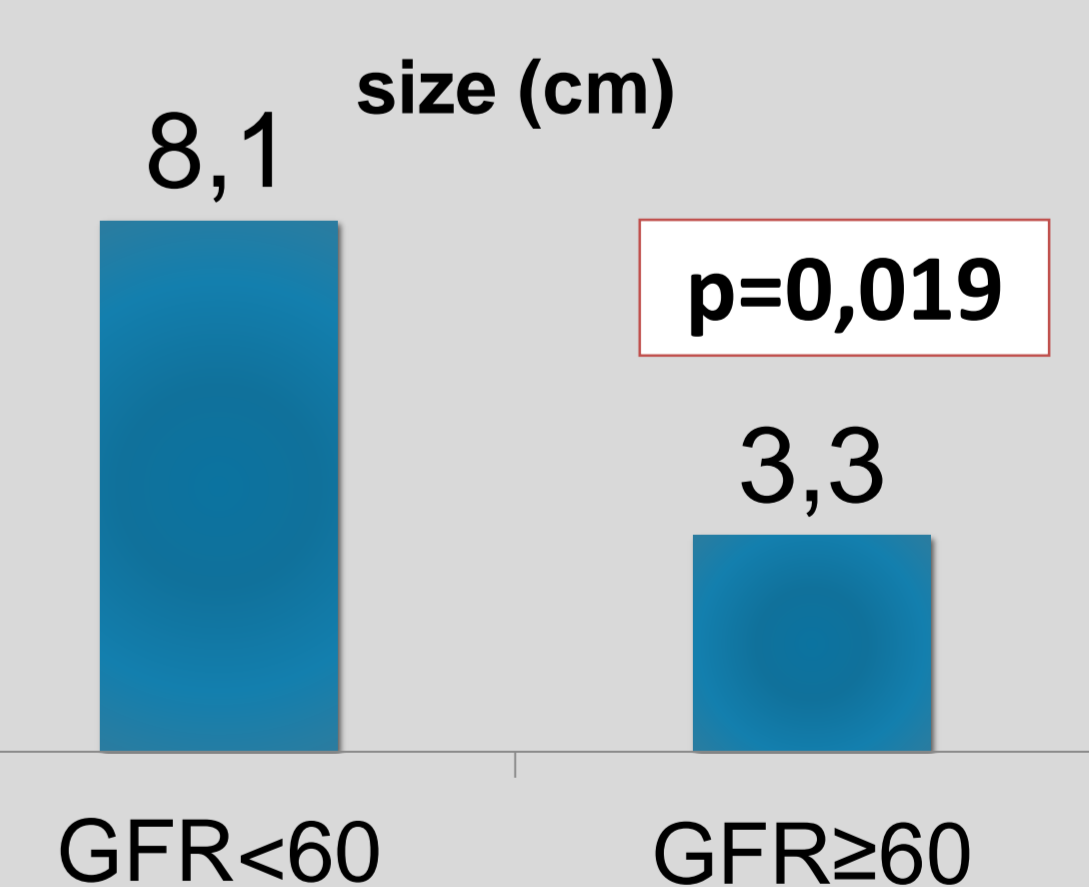


NON- RENAL CLINICAL FEATURES

Skin lesions	N=35	95%
Neurologic tumors	N=31	84%
Epilepsy	N=19	51%
Behavioral anomalies	N=18	49%
Rhabdmyoma	N=4	11%
Lymphangioliomyomatosis	N=4	11%
Ophthalmic lesions	N=3	8%
Hepatic cysts	N=2	5%

ANGIOMYOLIPOMAS: COMPLICATIONS

Bleeding	N=8 (40%)
Conservative	N=4
Selective angiography	N=2
Nephrectomy	N=2



- 5 patients on everolimus with stabilization of brain tumour size
- No data on renal outcome

- 3 deaths
 - Hemorrhagic stroke
 - Refractory epilepsy
 - Cardiac arrest - rhabdomyoma

CONCLUSIONS

- Renal involvement in TSC was frequent (73%), of which 44% evolved to renal function impairment
- The severity of the renal disease appears to be associated with the size of tumor lesions
- In our serie, six patients would benefit from mTOR inhibitors, according to TSC 2012 Consensus Conference;