Supplementary Material

Table S1. Variables of Interest in the TOSCA Registry

General resources	Specific resources			
Inpatient stays				
Total hospitalizations in	related to: TSC, any other reason;			
last 12 months	Number of bed days			
Each hospitalization in	Hospitalization: Reason, type, procedures, treatment, length			
the last 12 months	of stay, ICU-ITU stays			
Primary care visits in the last 12 months				
•	related to: TSC, any other reason			
Secondary care visits (spe	ecialists) in the last 12 months			
-	related to: TSC, any other reason;			
	Specialist: type and number of visits			
Accident & Emergency (A	A&E) visits			
Surgical procedures				
	Procedure urgency, type and complications			
Imaging tests/procedures	, v.			
	Type: CT, MRI, ultrasound, electroencephalography,			
	angiography			
Other tests				
	Type: molecular, genetic, blood, urine, neurophysiological,			
	histology, biopsy, pulmonary function test (PFT), other.			
Everolimus medication				
	Dose: initial, final, mean, median			
	Treatment duration			
Other medication				
	Type: hormonal contraception, NSAID, ACE-inhibitors,			
	ARB, calcineurin inhibitors, diuretic beta-blocker, alfa 1-			
	blocker, alfa 2 – agonist, calcium antagonist, mycophenolic			
	acid compounds, inhaled beta-2 mimetics, mTOR inhibitors			
	(not everolimus), other			
Comorbidities				
	Type: cardiovascular, dyslipidemia, diabetes, liver disease,			
	acute/chronic uncontrolled infections, autoinmune disorders,			
	malignant tumours, other			
Items that could resource	in indirect costs			
	Social support/rights; Contacts with TSC associations;			
	Education (e.g. special education needs); Patient assistance			
	requirements (e.g. assistance at home); Employment			
	situation for adult patients; Caregiver's working situation for			
	children; Family members and income for adult patients;			
	Impact of TSC on family and self; Other			

CT, computerised tomography; MRI, magnetic resonance imaging; PTF, pulmonary function test; ACE, angiotensin-converting-enzyme; ARB, antagonist receptor blockers; AE, adverse events; TSC, Tuberous Sclerosis Complex; ICU, intense care unit; ITU, intense treatment unit; NSAID, nonsteroidal anti-inflammatory drugs; mTOR, mammalian target of rapamycin.

Table S2. Potential Analyses on the TOSCA Registry

	Use of resources based on clinical manifestation		
Neurological	SEGA; Cortical tuber; SEN; Cerebral white matter radial migration lines		
Renal	Renal angiomyolipoma; Multiple renal cysts; Renal hamartoma; Impaired renal function; Renal malignancy		
Pulmonary	Lymphangioleiomyomatosis		
Cardiovascular	Cardiac rhabdomyoma		
Dermatologic	≥ 3 hypomelanotic macules; Facial angiofibroma; Shagreen patch; Ungual or periungual fibromas; Forehead plaque; Confetti lesions		
Ophthalmologic	Retinal hamartoma		
Epilepsy	Epilepsy		
Use of resources	based on sex		
Men - women			
Use of resources	V		
7	, Belgium, Slovenia, Czech Republic, Spain, Denmark, Sweden,		
· · · · · · · · · · · · · · · · · · ·	a, France, Israel, Germany, Japan, Greece, Korea, Italy, Russia,		
/	rica, Lithunia, Mainland China, Netherlands, Hong Kong, Norway,		
	Taiwan, Portugal, Thailand, Romania, Turkey.		
	based on country zone		
Europe - outside	•		
	based on age at diagnosis		
Paediatric - adult			
	based on type of mutation		
By mutation type: TSC1 - TSC2 - no mutation diagnosed			
	By variation type: Pathogenic mutation - variant of unknown significance		
Use of resources based on time from TSC clinical diagnosis to molecular testing			
Use of resources based on absence/presence of prenatal diagnosis			
Use of resources based on absence/presence of affected relatives/TSC inheritance			

TSC, Tuberous Sclerosis Complex; SEGA, Subependymal giant cell astrocytoma; SEN, Subependymal nodule.

Table S3. Visits to the Specialist in the Quality of Life Research Project (N=132). Analysis of healthcare visits excluding Spain (N=11) because of data inconsistencies.

	Visits to the specialist (TSC-related)	Visits to the specialist (other reason)
Patients with no visits	42 (31.8%)	69 (52.3%)
Patients with at least 1 visit	69 (52.3%)	34 (25.8%)
Patients with 1 visit	18 (13.6%)	10 (7.6%)
Patients with 2 visits	22 (16.7%)	10 (7.6%)
Patients with ≥3 visits	29 (22.0%)	14 (10.6%)
Patients with missing or unknown number of visits	21 (15.9%)	29 (22.0%)

Table S4. Hospitalizations over the last year in the Quality of Life Research Project (N=143)

	Hospitalizations
Patients with no hospitalizations	101 (70.6%)
Patients with at least 1 hospitalization	41 (28.7%)
Patients with 1 hospitalization	25 (17.5%)
Patients with 2 hospitalizations	7 (4.9%)
Patients with ≥ 3 hospitalizations	9 (6.3%)
Patients with missing or unknown number of hospitalizations	1 (0.7%)

Table S5. Education and Use of Social Services in the Quality of Life Research Project (N=143)

Education (children only)	Adults	Children (N=88)	
The child is not in a mainstream school	n.a	28 (31.8%)	
The child is in a mainstream school	n.a	57 (64.8%)	
Receives special education within school	n.a	37/57 (64.9%)	
The school offers special programs adequate to	n.a	26/57 (45.6%)	
the child's condition	π.α	20/37 (43.070)	
Social services & benefits	Adults (N=55)	Children (N=88)	
Disability allowance	21 (38.2%)	45 (51.1%)	
Caregiver allowance	0 (0.0%)	10 (11.4%)	
Psychological counselling	3 (5.5%)	12 (13.6%)	
Social services	2 (3.6%)	4 (4.5%)	
Social worker	1 (1.8%)	7 (8.0%)	
Help completing benefit applications	2 (3.6%)	5 (5.7%)	
Receives support with daily activities	11 (20.0%)	n.a.	
Employment and finances	Adults (N=55)	Children carers	
		(N=88)	
Employed	23 (41.8%)	58 (65.9%)	
Unable to work due to TSC	14 (25.5%)	8 (9.1%)	
TSC has impacted on the patient's	28 (50.9%)	50 (56.8%)	
professional career			

n.a., not available.