

Supplementary Table 1 Scrotal and penoscrotal strangulation cases

	Age, y	Time to presentation	Comorbidities	Tools to diagnosis	Device	Penile condition	Scrotum condition	Removal technique	Long term sequelae
Tobe T. 1994	63	48 h	None	Clinical examination	Metallic ring	Not involved	Swelling	Dental air turbine drill	Full recovery
Zermann DH. 1997	54	8 yr	None	Secondary clinical examination after anti- inflammatories and antibiotics	Ball bearing metallic ring	Not involved	Edema with dropping lymph fluid	Surgical debridement, excision and aspiration to transfer skeletized testes through the ring. Plastic reconstruction.	Full recovery
Alonso	60	48 h	None	Clinical	Metallic	Edema	Edema	Angle	N/A

Gracia N. 2003				examination	ring			grinder	
Bart S. 2008	40	Several days	Chronic psychotic disorder, positive HIV serology	Clinical examination	Metallic screwgate karabiner and rubber ring	Complete necrosis	Complete necrosis	In the operating room. Type of device not specified.	Penile amputation and bilateral orchietomy. Skin graft and Perineal urethrostomy. Perineal wound healed in 4 month. Spontaneous urination, without

Efthimiou I. 2008	48	48 h	None	Clinical examination	Metallic ring	Edema, ulceration and pus	Edema, ulceration and pus	Angle grinder	leaks. Full recovery
Sathesh-Kumar T. 2009	50	48 h	None	Clinical examination	Metallic ring	Swelling, edema	Swelling, edema	Pedal Cutter	Full recovery
Cassidy DJ. 2010	53	72 h	None	Clinical examination	7 metallic rings	Edema	Edema	Pneumatic drill with metal cutting carbide attachment	Full recovery
Wu X. 2012	45	48 h	HIV carrier	Clinical examination	Metallic ring	Edema, parasthesia	Edema, parasthesia	Corporeal aspiration and strapping under general	Full recovery

									anesthesia. Vascular slings to facilitate movement of the ring.	
Lu Y. 2017		49	48 h	None	Clinical examination	Metallic ring	Swelling	Swelling	Orthopedic saw	Full recovery
Zhang J. 2017		28	7 h	None	Clinical examination	Metallic ring	Edema, paresthesia	Edema, cold, parasthesia, ulceration and pus	Hydraulic cable cutter	Full recovery with discontinuous circumferential scar
Nason 2017	GJ.	N/A	7 h	None	Clinical examination	Metallic ring	Swelling	Swelling	electric angle grinder	Full recovery

Patel 2018	NH.	43	24 h	None	Clinical examination	Metallic ring	Swelling	Swelling	Industrial grade bolt cutter	Full recovery
		74	> 48 h	Cirrhosis, Diabetes mellitus	Clinical examination	Metallic ring	Swelling, necrotic tissue	swelling , necrotic tissue	Industrial grade bolt cutter	Died due to septic shock
Latabi 2020	AF.	36	12 h	Drugs addiction	Clinical examination	Metallic ring	Edema, bluish, cold,. hard erection	Edema, bluish, cold	Rotating electric saw	Full recovery
Harris 2020	E.	28	72 h	HIV, hepatitis C, syphilis, methamp hetamine use	Clinical examination	Metallic ring	Swelling	Swelling, ulceration and pus	Electric saw	Sepsis. Epididy mitis. Scrotal abscess or hematom a. Full recovery
Pop DA. 2020		18	24 h	None	Clinical	Metallic	Swelling	Swelling,	Angle	Full

				examination	ring		edema and erythema	grinder	recovery
Matsumoto Y. 2020	42	1 mo	mental illness	CT, open surgery	Rubber band	Erosive skin ulcer , swelling	Erosive skin ulcer, swelling	Manual releasing	Full recovery
	72	2 wk	None	Clinical examination	Automobile tow hook	Swelling	Swelling	Electric saw	Full recovery
Current case	11	5 d	Mental disability	Second physical examination under sedation	Nylon zip-tie	Not involved	Edema with ulceration and pus	Scissors	Full recovery with discontinuous circumferential scar