

Supplementary materials

Table S1 – Cost inputs

Cost inputs				
	TURP	UroLift	HoLEP	
Cost of surgeon time	26.07 €	11.59 €	34.76 €	
Cost of anaesthetist time	26.07 €	11.59 €	34.76 €	
Cost of nurse time (2)	12.06 €	5.36 €	16.08 €	
Cost of healthcare assistant time	10.55 €	4.69 €	14.07 €	
Cost of theatre [per minute]	131.82 €	58.59 €	175.76 €	
Cost of general ward [per day]	2,123.00 €	350.15 €	1,386.57 €	
Input	Loop electrode	Device + 1 implant	Mollecular blade	Fibre
Unit cost	137.50 € [1]	500 €	400 € [2]	500 € [2]
Consumables per procedure	1	4	1	1
Times reused	10	1	20	10
Blood transfusion	348,53 €	0 €	348,53 €	
Urinary retention	43.18 €	34.09 €	43.18 €	
Stricture	818.92 €	0 €	818.92 €	
Urinary tract Infection	2,083.65 €	20.66 €	2,083.65 €	
TUR syndrome	3,800.58 €	0 €	3,800.58 €	
Incontinence year 1	2,175.30 €	2,175.30 €	2,175.30 €	
Incontinence year 2+	1,473.30 €	1,473.30 €	1,473.30 €	

1. Deliberazione N°1274 del 31.12.2020, ASL Liguria. [Online](#) (Accessed February 2025)
2. Bando Regionale Piemonte. Indagine di mercato. [Online](#) (Accessed February 2025)

Table S2 – Economic results

	Proposed Treatment		Comparator 1		Comparator 2	
TREATMENTS/ COMPARATORS	Urolift		TURP		HoLEP	
	First treatment	Sequential treatment	First treatment	Sequential treatment	First treatment	Sequential treatment
	Urolift	TURP	TURP	TURP	HoLEP	TURP
Costs input						
Capital and consumables costs						
Capital costs	2,19 €	- €	- €	- €	99,31 €	- €
Consumables costs	1.819,86 €	1,24 €	12,95 €	0,80 €	48,05 €	0,54 €
Subtotal - capital and consumables	1.822,05 €	1,24 €	12,95 €	0,80 €	147,36 €	0,54 €

<i>Procedure costs</i>						
Staff costs	30,23 €	6,73 €	70,40 €	4,35 €	95,72 €	2,96 €
Ward costs	371,92 €	203,09 €	2.123,59 €	131,23 €	1.500,45 €	89,32 €
Follow up costs	83,31 €	8,25 €	86,23 €	5,33 €	87,93 €	3,63 €
<i>Subtotal – procedure</i>	485,46 €	218,07 €	2.280,22 €	140,91 €	1.684,10 €	95,91 €
<i>Complications costs</i>						
Urinary retention costs	0,12 €	0,19 €	2,03 €	0,13 €	1,47 €	0,09 €
Stricture costs	- €	5,16 €	53,99 €	3,34 €	46,25 €	2,27 €
TUR syndrome costs	- €	10,27 €	107,38 €	6,64 €	33,95 €	4,52 €
UT infection costs	0,02 €	11,26 €	117,74 €	7,28 €	117,67 €	4,95 €
Blood transfusion costs	- €	0,91 €	9,52 €	0,59 €	7,23 €	0,40 €
<i>Subtotal – complications</i>	0,14 €	27,80 €	290,67 €	17,96 €	206,56 €	12,23 €
Incontinence 1Y	48,94 €	5,88 €	48,94 €	3,80 €	47,48 €	2,59 €
Incontinence 3Y	146,83 €	17,63 €	146,83 €	11,39 €	142,43 €	7,76 €
Incontinence 5Y	244,72 €	29,39 €	244,72 €	18,99 €	237,38 €	12,93 €
Cost per trt/comp 1Y	2.356,59 €	252,99 €	2.632,78 €	163,47 €	2.085,49 €	111,26 €
Cost per trt/comp 3Y	2.454,48 €	264,75 €	2.730,67 €	171,07 €	2.180,44 €	116,43 €
Cost per trt/comp 5Y	2.552,37 €	276,50 €	2.828,56 €	178,66 €	2.275,40 €	121,60 €
TOTAL COST PER SEQUENCE 1Y	2.609,58 €		2.796,25 €		2.196,76 €	
TOTAL COST PER SEQUENCE 3Y	2.719,23 €		2.901,73 €		2.296,88 €	
TOTAL COST PER SEQUENCE 5Y	2.828,87 €		3.007,22 €		2.397,00 €	

Figure S1 - Deterministic Sensitivity Analysis

