

Supplemental material for Poster: #126425 MT4

Table 1 demographics (all cases)		Robotics (n=1232)	Toetva (n=6167)	Total (n=7399)	p-value
Facility Type					<0.001
	Community Cancer Program	2.84%(35)	4.11%(254)	3.91%(289)	
	Comprehensive Community Cancer Program	24.84%(306)	23.63%(1457)	23.83%(1763)	
	Academic/Research Program	56.74%(699)	50.3%(3102)	31.37%(3801)	
	Integrated Network Cancer Program	15.58%(192)	21.96%(1354)	20.89%(1546)	
Facility Location					<0.001
	Northeast	32.31%(398)	25.34%(1563)	26.5%(1961)	
	South	26.62%(328)	29.28%(1869)	29.29%(2167)	
	Midwest	28.4%(350)	31.25%(1927)	30.78%(2277)	
	Mountain	4.55%(56)	7.51%(463)	7.01%(519)	
	Pacific	8.12%(100)	6.08%(375)	6.42%(475)	
Age (mean, StdDev)		48.43 (14.83)	50.94(15.34)	50.52(15.28)	<0.001
Year					<0.001
	2010	91 7.39%	254 4.12%	345 4.66%	
	2011	128 10.39%	438 7.10%	566 7.65%	
	2012	97 7.87%	413 6.70%	510 6.89%	
	2013	128 10.39%	476 7.72%	604 8.16%	
	2014	114 9.25%	527 8.55%	641 8.66%	
	2015	111 9.01%	541 8.77%	652 8.81%	
	2016	85 6.90%	742 12.03%	827 11.18%	
	2017	124 10.06%	865 14.03%	989 13.37%	
	2018	162 13.15%	958 15.53%	1120 15.14%	
	2019	192 15.58%	953 15.45%	1145 15.40%	
Total Volume > 25		965 78.33%	4694 76.11%	5659 78.48%	0.09

Nodes Harvested				<0.001
Median (IQ range)	1 (0-5)	0(0-2)	0(0-2)	
Nodes Positive				0.69
Median (IQ range)	0(0-2)	0(0-2)	0(0-2)	
Tumor Size Continuous in mm				<0.001
Median (IQ range)	9(3-20)	14(7-25)	13(6-26)	
Type of Surgery				0.019
Total Thyroidectomy	858	4497	5355	
	69.64%	72.92%	72.37%	
Conversion	92(7.47%)	522(8.46%)	614(8.3%)	<0.001

Conversion Sub Analyzes

Just robotics cases

UNIVARIATE LOG REGRESSION(CLUSTERED)	ODD-RATIO	95%CI	P-VALUE
LYMPH NODE RESECTION	0.89	0.54-1.49	0.679
TOTAL THYROIDECTOMY	1.74	0.99-3.02	0.051
TUMOR SIZE	0.92	0.52-1.65	0.8
TV			
26-49	0.62	0.30-1.28	0.203
50-97	0.57	0.27-1.23	0.151
>98	0.36	0.18-0.73	0.005
MIT-CV			
7-19	0.44	0.23-0.81	0.008
20-51	0.23	0.11-0.47	<0001
>52	0.09	0.02-0.39	0.001
YEARS	1.03	0.94-1.12	0.516

MULTIVARIATE LOG REGRESSION (CLUSTERED)	ODD-RATIO	95%CI	P-VALUE
LYMPH NODE RESECTION	0.83	0.51-1.37	0.471
TOTAL THYROIDECTOMY	1.65	0.94-2.93	0.083
TUMOR SIZE	0.93	0.48-1.56	0.64
TV			
26-49	1.16	0.59-2.38	0.682
50-97	1.12	0.53-2.38	0.764
>98	1.27	0.59-2.69	0.536

MIT-CV			
7-19	0.43	0.22-0.82	0.010
20-51	0.18	0.07-0.41	<0.001
>52	0.07	0.02-0.33	0.001
YEARS	1.13	1.04-1.22	0.004

Just Laparoscopic cases

UNIVARIATE LOG REGRESSION (CLUSTERED)	ODD-RATIO	95%CI	P-VALUE
LYMPH NODE RESECTION	1.03	0.77-1.36	0.852
TOTAL THYROIDECTOMY	1.12	0.88-1.42	0.357
TUMOR SIZE	1.29	0.99-1.67	0.053
TV			
26-49	0.60	0.32-1.11	0.104
50-97	0.38	0.19-0.75	0.005
>98	0.79	0.37-1.72	0.570
MIT-CV			
7-19	0.48	0.31-0.74	0.001
20-51	0.18	0.09-0.36	<0.001
>52	0.21	0.06-0.70	0.011
YEARS	0.86	0.78-0.94	0.002

MULTIVRIATE LOG REGRESSION	ODD-RATIO	95%CI	P-VALUE
TOTAL THYROIDECTOMY	1.09	0.85-1.39	0.478
TUMOR SIZE	1.21	0.94-1.54	0.130
TV			
26-49	0.97	0.56-1.71	0.938
50-97	0.74	0.38-1.43	0.369
>98	1.85	0.84-4.07	0.126
MIT-CV			
7-19	0.48	0.28-0.82	0.008
20-51	0.17	0.07-0.38	<0.001
>52	0.22	0.07-0.67	0.008
YEARS	0.93	0.86-1.02	0.120

Photos and Illustrations

* <https://i.ytimg.com/vi/xyfUPd91F7k/maxresdefault.jpg>

** <https://www.uchealth.com/wp-content/uploads/2012/10/davinci-robot1.jpg>

*** <https://www.vejthani.com/wp-content/uploads/2022/07/What-to-Expect-from-Scar-less-Thyroid-Surgery-in-Thailand-1.jpg>

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Contact: lia.assumpcao@hupe.uerj.br