



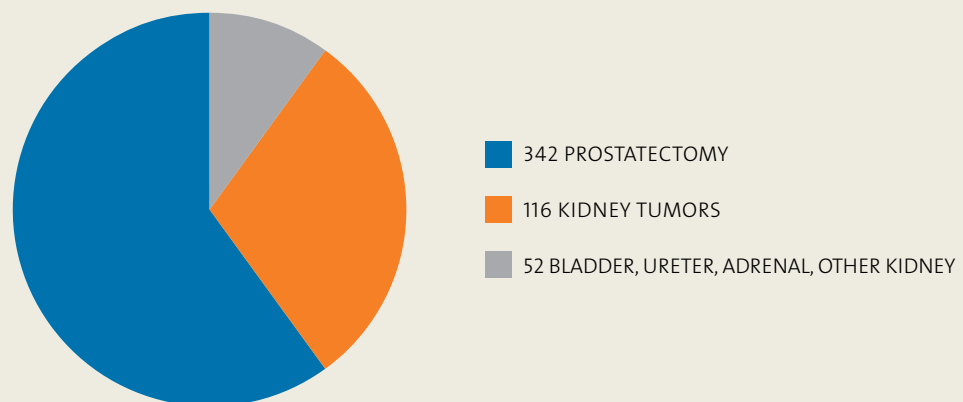
## 2016 Patient Care

Robotic Surgeries Performed by Dr. Abaza: **510**

Patient Encounters with Dr. Abaza: **2,692**

Dr. Abaza surpassed **4,000** career robotic surgeries in 2016.

### 2016 ROBOTIC CASES



# Outcomes

## 2016 ROBOTIC PROSTATECTOMY OUTCOMES

- + Mean OR time: **149min\***
- + EBL: **129mL**
- + Transfusions: **0.3%\*\***
- + Mean Length of Stay: **0.92 days**
- + Patients home POD#1: **99.4%**
- + Mean number of days with catheter: **6.6 days**
- + Mean # lymph nodes: **7.6\***
- + Patients with positive nodes: **5.1%\***
- + Negative surgical margins in organ-confined disease: **91.5%**
- + 0-1 pad continence by 3 months postop: **82.7%**
- + 0-1 pad continence by 1 year postop: **94.3%\*\*\***
- + SHIM  $\geq$ 17 at 1 year postop (if no ED preop and nerve sparing): **79.3%\*\*\***
- + 90-day Clavien III-V complications: **3.9%**
- + Mortality: **0.0%**

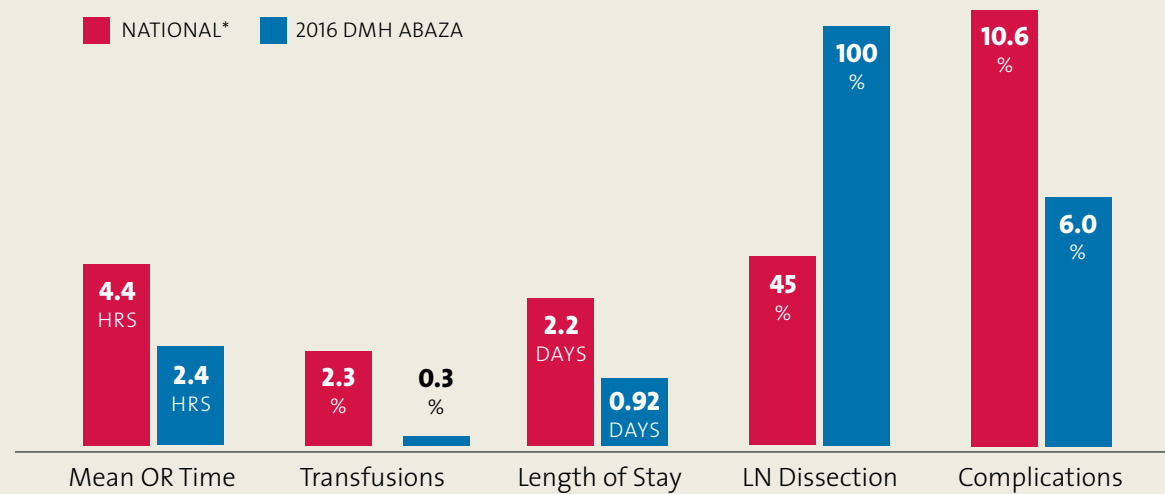
\*Dr. Abaza performs lymph node dissection in all prostate cancer patients.

\*\*A Jehovah's Witness patient received his own blood by cell-saver.

\*\*\*Includes 2013-2016 patients for adequate numbers of 1-year surveys.



## ROBOTIC PROSTATECTOMY OUTCOMES



\*National data is taken from 27,348 robotic prostatectomy procedures performed by 744 surgeons at 142 U.S. hospitals as reported to the Premier Perspective Database (Davis, JW, et al., J Endourol, 28(5):560-66, 2014.)

## 2016 ROBOTIC PARTIAL NEPHRECTOMY OUTCOMES

	Mean Tumor Size cm	Mean R.E.N.A.L. score	Mean OR Time min	Mean WIT min	Mean EBL mL	Transfusion %	Mean LOS days
<b>OPEN SURGERY</b>							
Gill et al, 2007	3.5	--	266	20.1	376	5.1	5.8
Stephenson et al, 2004	2.5	--	186	--	350	18	5.0
DiBlasio et al, 2006	3.0	--	138	36	375	--	4.5
Chugtai et al, 2008	2.9	--	--	--	263	6.1	3.3
<b>PURE LAP SURGERY</b>							
Gill et al, 2010	3.3	--	250	14.4	373	15.3	4.1
Link et al, 2005	2.6	--	186	27.6	385	6.9	3.1
Kim et al, 2003	2.5	--	182	26.7	391	5.1	2.8
Hayn et al, 2010	2.9	7	201	21	267	2.8	1.7
<b>ROBOTIC SURGERY</b>							
Kaouk et al, 2011	3.2	6.8	181	18.3	248	8.2	3.6
Scoll et al, 2010	2.8	6.4	206	26	127	3.0	3.2
Petros et al, 2012	2.8	6.6	183	18	159	4.5	2.6
Benway et al, 2009	2.9	--	189	19.7	155	--	2.4
Naeem et al, 2011	2.4	--	254	24.5	125	--	2
<b>DMH Abaza, 2016</b>	<b>3.3</b>	<b>7.2</b>	<b>151</b>	<b>12.9</b>	<b>112</b>	<b>0.0</b>	<b>1.0</b>

### RPN POSITIVE MARGIN RATE

Open*	Laparoscopic*	Robotic*	DMH Abaza 2016
<b>4.9%</b>	<b>8.1%</b>	<b>8.7%</b>	<b>0.0%</b>

\*Results of 11,587 partial nephrectomies performed from 2010-2011 reported in National Cancer Database (J Urol, 194(6):1548-1553, 2015.)

### COMPLICATIONS

- + Negative Margins: **100%**
- + Urine leak: **0.0%**
- + Bleeding Complications: **0.0%**
- + Other Complications: **2.6%**

## 2016 ROBOTIC CYSTECTOMY OUTCOMES

	IRCC*	DMH Abaza 2016
<b>Mean Age (range)</b>	67.4 (26-92)	<b>68.6 (55-80)</b>
<b>Mean BMI</b>	27.5	<b>29.5</b>
<b>Neoadjuvant chemotherapy</b>	16%	<b>36%</b>
<b>Positive margin</b>	9%	<b>0%</b>
<b>Mean EBL</b>	580mL	<b>100mL</b>
<b>Transfusions</b>	15%	<b>0%</b>
<b>Mean length of Stay</b>	11 days	<b>2.2 days</b>
<b>90-day Readmissions</b>	20%	<b>7.1%</b>
<b>90-day Mortality</b>	4.2%	<b>0%</b>
<b>Clavien Grade III-V Complications</b>	19%	<b>7.1%</b>

\*International Robotic Cystectomy Consortium outcomes of 939 patients (Johar et al., European Urology, 64(1):52-57, 2013.)

## 2016 ROBOTIC NEPHRECTOMY OUTCOMES

	N	Tumor Size cm	OR Time min	EBL mL	Transfusion %	Conversions n (%)	LOS days	Complications %
<b>LAPAROSCOPIC SERIES</b>								
Gill et al 2001	100	5.1	168	212	--	2 (2)	1.6	14
Steinberg et al 2004	65	9.2	180	200	None	None	1.6	29.3
Colombo et al 2008	63	5.4	168	179.1	--	None	1.4	Postop 7
Conley et al 2009	11	12.4	155.8	154.5	None	None	3.1	Postop 18.2
Guzzo et al 2009	37	6	190	200	16	1 (2.7)	3	19
Bird et al 2009	247	7.76	--	198	7.3	None	3.6	32.7
Jeon et al 2011	88	9.2	241.5	493	--	4 (4.5)	--	27.2
Pierorazio et al 2012	200	9.0	188	320	8.1	12(5.7)	3.4	Postop 19
Stewart et al 2012	94	9.0	145	200	--	6 (6.4)	6	Postop 38
Luciani et al 2013	222	8.5	180	280	19	12 (5.4)	--	Periop 28.8
<b>ROBOTIC SERIES</b>								
Klingler et al 2005	5	66 cm <sup>3</sup>	321	150	--	1 (20)	3	None
Nazemi et al 2006	6	4.5	345	125	16	1 (16.7)	3	18
Rogers et al 2008	42	5.1	294	223	--	None	2.4	2.6
Hemal et al 2009	15	6.7	221	210	15	1 (6.7)	3.5	33.3
Boger et al 2010	13	4.8	168	100	--	1 (7.7)	2	30.7
<b>DMH Abaza 2016</b>	<b>34</b>	<b>6.8</b>	<b>100.9</b>	<b>34.8</b>	<b>None</b>	<b>None</b>	<b>1.4</b>	<b>5.9</b>

## 2016 ROBOTIC PYELOPLASTY OUTCOMES

	Lucas et al*	Sivaraman et al**	DMH Abaza 2016
<b>Mean OR Time</b>	204 min	134.9 min	<b>90.7 min</b>
<b>Mean EBL</b>	30mL	49mL	<b>25mL</b>
<b>Mean Length of Stay</b>	--	1.5 days	<b>1.0 days</b>
<b>Urine Leak</b>	1.9%	--	<b>0%</b>
<b>Secondary Intervention</b>	3.2%	2.4%	<b>0%</b>

\*Results of 485 robotic pyeloplasties from the Multi-institutional Laparoscopic and Robotic Pyeloplasty Collaborative Group (J Urol, 187(2):522-527, 2012.)

\*\*Results of 168 robotic pyeloplasties from 3 centers (Urology, 79(2):351-5, 2012.)

## 2016 ROBOTIC ADRENALECTOMY OUTCOMES

	OR Time min	Mean LOS days	Complications
<b>ROBOTIC SERIES</b>			
Morino et al, 2004	169	5.7	0%
Brunaud et al, 2008	171	6.4	8%
Giulianotti et al, 2011	118	4.0	0%
Karabulut et al, 2012	166	1.1	2%
Agcaoglu et al, 2012	159	1.4	0%
Aksoy et al, 2013	186	1.3	2.4%
<b>DMH Abaza, 2016</b>	<b>64.8</b>	<b>0.83</b>	<b>0%</b>

