

THE LONDON CLINIC CENTRE FOR ROBOTICS

1st UK private hospital in the UK to introduce and undertake robotic surgery in 2005

1st and only UK private hospital to have 4 robots

1st UK private hospital to undertake 3D printed prostatectomies

1st UK private hospital to use image guided surgery

1st UK private hospital to undertake low pressure surgery (early pandemic period)

Over 300 robotics assisted procedures undertaken in 2021



Aqua Beam

Navio



Excelsius GPS



Da Vinci XI

BENEFITS & CHALLENGES

Benefits

- Reduced LOS post surgery
- Quicker return of full mobility post surgery/better quality of life
- Reduced complications, less invasive, less tissue damage, reduced bleeding
- Smaller incisions, smaller wound sites and potentially reduced scarring
- Advanced intraoperative and post operative planning
- Automatic trajectory alignment for precise screw placement (in spine surgery)

Challenges

- Initial investment for some is £1m plus
- Additional consumables on some cases totalling over £2k
- Some procedures require 2 surgeons
- PMI reimbursement – reflecting overall treatment pathways efficiency

Out of Pocket Costs are lower for patients undergoing robotic surgery

Table 2. Adjusted Differences in OOP Costs Between Patients Undergoing Open and Patients Undergoing Robotic Surgery

Surgery	Mean OOP Costs, \$	Adjusted Difference in OOP, \$ (95% CI) ^a	P Value
Radical prostatectomy			
Open	3151.43	137.75 (38.63-240.24)	.006
Robotic	2888.57		
Hysterectomy			
Open	3769.22	640.63 (368.79-933.62)	<.001
Robotic	3011.26		
Partial colectomy			
Open	4620.09	1140.54 (896.54-1397.79)	<.001
Robotic	3435.48		
Radical nephrectomy			
Open	4002.82	728.32 (366.08-1126.90)	<.001
Robotic	3371.95		
Partial nephrectomy			
Open	3177.02	302.74 (97.10-523.14)	.003
Robotic	2816.95		

Citation: Nabi J, Friedlander DF, Chen X, et al. Assessment of Out-of-Pocket Costs for Robotic Cancer Surgery in US Adults. *JAMA Netw Open*. 2020;3(1):e1919185. doi:10.1001/jamanetworkopen.2019.19185