#### mperial College London





# A cost-benefit analysis of the National Training Programme in Laparoscopic colorectal surgery

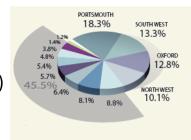
Melody Ni, Hugh MacKenzie, Laura Langsford, Andy McMeeking, Mark Coleman & George Hanna

15 June 2012, Cancer Outcomes Conference, Birmingham

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## www.lapco.nhs.uk national training programme in laparoscopic colorectal surgery

- · Instituted in 2008 by the Cancer Action Team
- Supervised training
- 144 consultant delegates
- 65 trainers
- 11 training centres (NHS trusts)

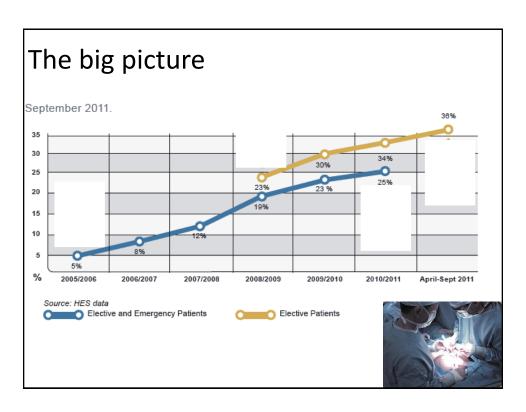


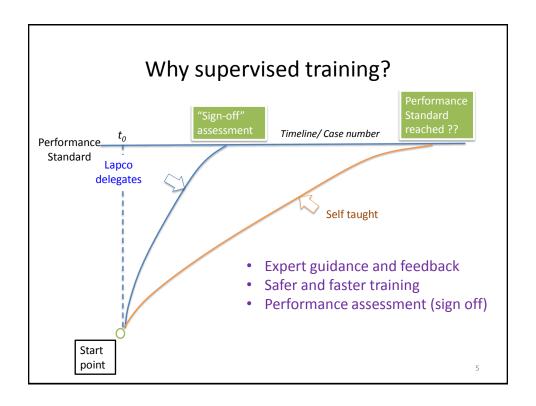
Among the 149 acute trusts in England

- 51% have at least one Lapco delegate
- 61% have at least one Lapco delegate/trainer

Poster number 9





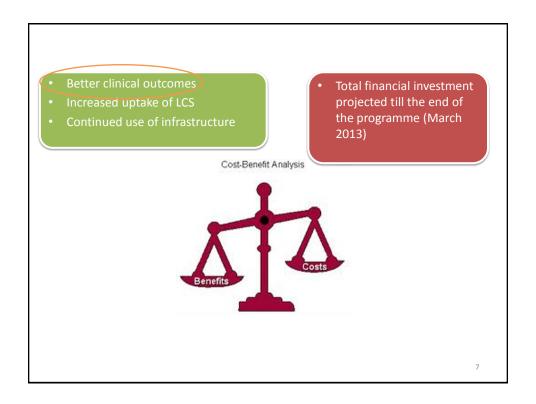


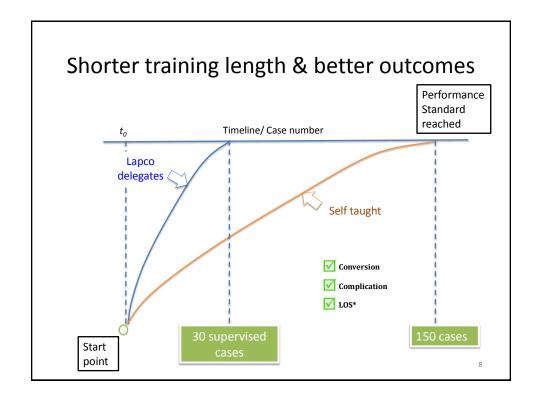
#### Compare and contrast

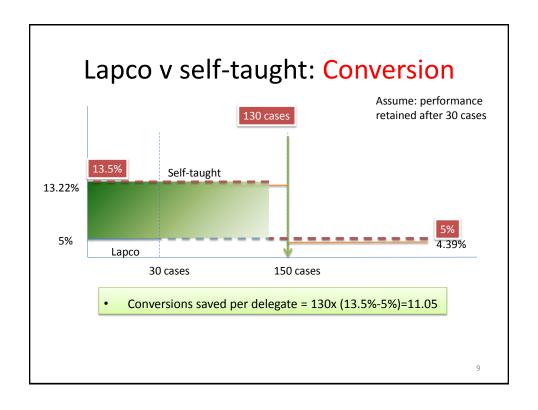
	Self-taught				Lapco delegates
Parameter	Overall outcome	<151 cases	>150 cases	N (cases)=	(N=816)
Conversion	8.75%	13.22%	4.39%	4905	5%
Complication	15.93%	21.40%	10.60%	4902	14.3%
LOS*	7 (5-11) days	7	7	3685	5 days
Mortality	1.96%	2.41%	1.35%	3002	0.5%

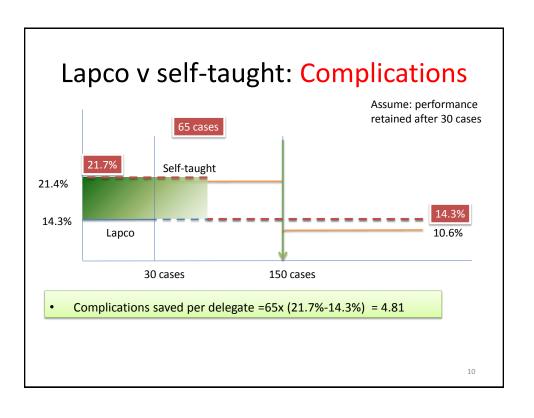
Average of 30 supervised cases or less

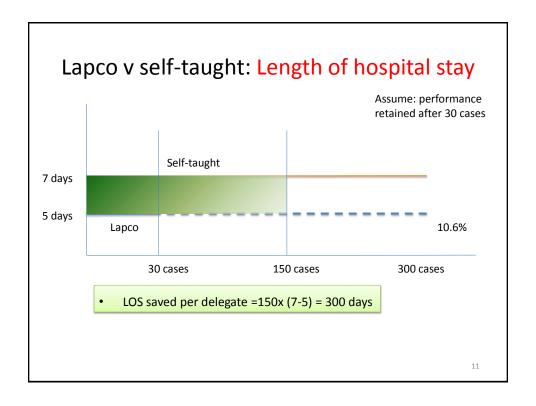
Miskovic D, Wyles SM, Ni M, Darzi AW, Hanna GB. Systematic review on mentoring and simulation in laparoscopic colorectal surgery. *Ann Surg 2010;252(6):943-51*.











#### Benefits – unit price

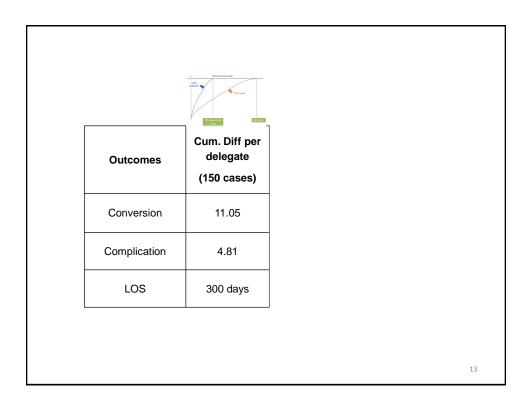
Conversion	-		
Complication*	£26,331		
LOS	£265= £225+£40		

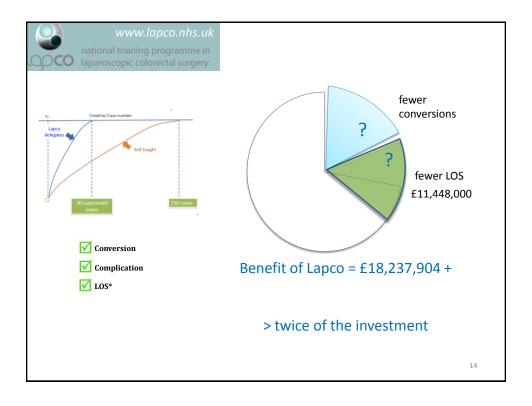
Direct cost\*\* + Opportunity cost\*\*\*

<sup>\*</sup> Vonlanthen R et al., The impact of complications on costs of major surgical procedures: a cost analysis of 1200 patients. Ann Surg. 2011 Dec;254(6):907-13.

<sup>\*\*</sup> http://www.institute.nhs.uk/quality\_and\_service\_improvement\_tools/quality\_and\_service\_improvement\_tools/length\_of\_stay.html

<sup>\*\*\*</sup> The opportunity cost per LOS (£40) was computed by using the GDP per capita for UK (Internal Monetary Fund 2010, divided by 260 working days a year and times a 30% chance being at work.  $\pm$ 40= $\pm$ 35,059/260\*0.30.





### Acknowledgements

Department of Health
National cancer action team
Lapco steering committee



