Adoption of robotic surgery: driven by market competition or a desire to improve patient care?

Authors’ reply

In our paper,1 we describe how competitive forces have strongly influenced the configuration of prostate cancer services, leading to the closure of one in four of the centres providing prostate cancer surgery in the National Health Service (NHS) in England.

From our analysis, patients were more likely to travel to hospitals that provided robotic surgery, frequently bypassing their local service if this technology was not available. Sean Fletcher and colleagues indicate that they disagree with our assertion that the rapid adoption of robotic surgery took place in the absence of evidence that it produced better outcomes. They point out that an observational study, published in 2012,2 reported shorter hospital stay, fewer perioperative complications, and a lower blood transfusion rate in patients who had a robot-assisted prostatectomy than in those who had open surgery.

However, we feel that it is unlikely this publication had an impact on the adoption of robotic surgery in the NHS in England during our study period (2010–014), because there is a considerable lag time between the decision to purchase robotic equipment and the ability to provide robotic surgery. Additionally, the rapid integration of robotic surgery was already continuing apace at the time these data were published. Finally, there was—and still is—a dearth of robust evidence on the effectiveness of robotic surgery on long-term functional outcomes and cancer cure.3,4

We do not view competition in a negative light. However, we do feel that its effect on the ability of health services to provide equitable, affordable, high-quality care should be carefully scrutinised.

We declare no competing interests.

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