Although current research favouring the use of chewing gum in preventing postoperative ileus is encouraging, the present evidence for justifying its widespread use is insufficient. Therefore, further large scale randomized controlled trials are required to further evaluate its potential use in preventing ileus after major abdominal and pelvic surgery.

CONFLICT OF INTEREST

None declared.

REFERENCES


CRITICAL ISSUES IN CURRENT COMPARATIVE AND COST ANALYSES BETWEEN RETROPUBIC AND ROBOTIC RADICAL PROSTATECTOMY

Maria M. Gianino, Mario Galzerano, Alessandro Tizzani* and Paolo Gontero* – Departments of Public Health and Microbiology, and *Urology, University of Torino, Torino, Italy

Accepted for publication 6 July 2007

INTRODUCTION

Most studies comparing robot-assisted prostatectomy (RAP) with radical retropubic prostatectomy (RRP) agree on the feasibility and safety of the former in treating patients with clinically localized prostate cancer. Surgeons who are more skilled at RRP can learn RAP within a reasonable time and with no undue complications [1]. Conclusions as to economic evaluations are less clear. The da Vinci surgical system (Intuitive Surgical, Sunnyvale, CA, USA) costs US $1.2 million with a maintenance fee of $100 000/year after the first year. The average costs of disposables are ≈$1500 per case. Mouraviev et al. [2] compared RAP with RRP (Table 1); they agreed on both a decrease in length of hospital stay and a lower transfusion rate for RAP, but nothing was reported on the economic advantages. Possible reasons for differences are differently applied methods, theoretical vs empirical cost models and local backgrounds.

For the first, the cited studies do not clarify the methods used when reporting cost issues. This should usually include: (i) listing resources considered when evaluating the technique (accounting for part of the resources generates different results); (ii) clarifying how resources have been evaluated using quantities and unit cost data; (iii) specifying which resources change with varying volumes of activity.

This lack of this information causes two limitations; on one hand it does not allow a valid comparison of conclusions of the cited studies; the surgical costs analysed by Mouraviev et al. [2] ($2471 for RRP and $3441 for RAP) do not include equipment and robot costs, unlike Lotan et al. [4] ($2503 for RRP and $4766 for RAP) and Scales et al. [3] ($3932 for RRP and $5496 for RAP). In addition, Mouraviev et al. [2] did not consider surgeon unit costs. Nor does it allow an estimation of how conclusions would change if some quantities (e.g. those depending on the cost of the technique) were modified, i.e. a decrease in length of hospital stay, operative time and volume of activity.

The results of the economic evaluations of the two techniques depend on the model applied; theoretical models use estimated or published quantities and unit costs that do not match the real costs reported in different hospitals, e.g. Scales et al. [3] used data published by Lotan et al. [4] in determining operating room RRP costs ($2316), whereas Anderson et al. [5] reported actual cost data ($1141).

Determining the cost of the technique is strongly influenced by: (i) hospital characteristics (size, community or specialist setting, administration, etc.); (ii) the surgeon’s ability and experience; and (iii) the type of...
supplies used (disposable or multi-use, e.g. trocars). There is a significant geographic variability in daily hospitalization costs, e.g. $474 in a public county hospital [4] vs $840 in a private academic medical centre [3]. The professional surgeon’s fee is also different, at $1688 for RAP and $1593 for RRP [4], or $1594 for RAP and $1212 for RRP [3].

Finally, lacking decisional statistical models, evaluations should comply with the methods and phases proposed by Drummond et al. [6], the foremost experts in methods for the economic evaluation of healthcare programmes, using a sensitivity analysis to verify the reliability of the results by varying the most significant variables. As far as currently available published data are concerned, there is no proof that RAP is more costly than RRP overall. Several issues remain to be factored for future cost analyses from a healthcare perspective.

CONFLICT OF INTEREST
None declared.

REFERENCES
1 Tewari A, Srivasatava A, Menon M. A prospective comparison of radical retropubic and robot-assisted prostatectomy: experience in one institution. BJU Int 2003; 92: 205–10

Correspondence: Paulo Gontero, Department of Urology 1, University of Torino, Torino, Italy.
E-mail: paolo.gontero@unito.it

Abbreviations: RAP, robot-assisted prostatectomy; RRP, radical retropubic prostatectomy.