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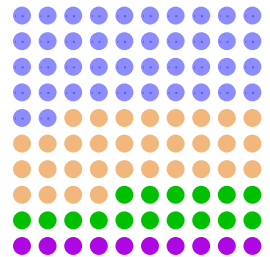
Comparison of the effects of deep and moderate neuromuscular block on respiratory system compliance and surgical space conditions during robot-assisted laparoscopic radical prostatectomy: a randomized clinical study

Key words: Robot-assisted radical prostatectomy, deep neuromuscular block, respiratory mechanics, surgical space conditions

Research Summary

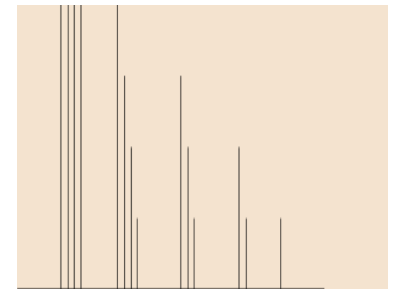
We compared the effects of different degrees of neuromuscular block on respiratory system compliance with the same pneumoperitoneum pressure during robot-assisted radical prostatectomy.

- Under the same pneumoperitoneum pressure in robot-assisted radical prostatectomy, deep and moderate neuromuscular block show similar results in respiratory mechanics and surgical space conditions.**
- Deep neuromuscular block can significantly reduce body movements during obturator lymphadenectomy.**



Innovation points

- **Introduction** to the effects of different degrees of neuromuscular block on respiratory system compliance.
- **Summary** of the effects of deep and moderate neuromuscular block on respiratory system compliance and surgical space conditions during robot-assisted radical prostatectomy.
- **Emphasis** on the rational administration of muscle relaxation of robot-assisted radical prostatectomy.



Innovation points

A series of comprehensive tables were generated to summarize the supported data.

Table 1 | Characteristics of the enrolled patients.

Table 2 | Respiratory mechanics at different time points during surgery.

Table 3 | Pairwise comparisons of different time points for respiratory mechanics in the moderate neuromuscular block group.

Table 4 | Pairwise comparisons of different time points for respiratory mechanics in the deep neuromuscular block group.

Table 5 | Results of arterial blood gas analysis after induction of anesthesia and 60 minutes of pneumoperitoneum .