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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

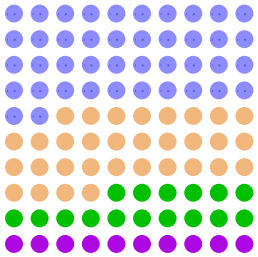
**Key words: Robot-assisted radical prostatectomy, deep neuromuscular block, respiratory mechanics, surgical space conditions**

# *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.**

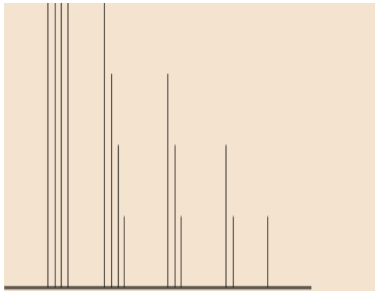


# *Innovation points*

- **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.



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# *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.**

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

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