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## Analysis of the Surgical Efficacy of Percutaneous Full-Endoscopic Spinal Surgery for Highly Migrated Lumbar Disc Herniation

### Purpose

To analyze the surgical efficacy of percutaneous full-endoscopic spinal surgery for the treatment of highly migrated lumbar disc herniation.

### Methods

Fifty patients with highly migrated lumbar disc herniation treated with percutaneous full-endoscopic spinal surgery at our hospital were enrolled as subjects. They were randomly divided into a control group and an intervention group based on surgical technique. The control group underwent traditional open surgery (posterior decompression with internal fixation), while the intervention group received percutaneous full-endoscopic spinal surgery. Surgical duration, hospitalization time, and patient satisfaction were compared between the two groups. Patient satisfaction was assessed using a 10-point questionnaire, categorized as "very satisfied" (8–10), "satisfied" (5–7), or "dissatisfied" (0–4).

### Results

**Satisfaction rates:** The intervention group reported significantly higher satisfaction (92%) than the control group (68%) ( $P < 0.05$ ). Specifically, 36% (9/25) were "very satisfied" and 56% (14/25) "satisfied" in the intervention group versus 12% (3/25) "very satisfied" and 56% (14/25) "satisfied" in the control group ( $\chi^2 = 18.001$ ,  $P = 0.001$ ).

**Surgical duration:** The intervention group had significantly shorter operative times ( $42.7 \pm 8.2$  minutes) compared to the control group ( $127 \pm 10.3$  minutes) ( $P < 0.05$ ).

**Hospitalization time:** The intervention group required shorter hospital stays ( $3.4 \pm 1.3$  days) than the control group ( $7.2 \pm 1.6$  days) ( $P < 0.05$ ).

### Conclusion

Percutaneous full-endoscopic spinal surgery achieves favorable outcomes for highly migrated lumbar disc herniation. It significantly reduces surgical/hospitalization times while improving patient satisfaction, demonstrating high clinical value.