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Psychomotor recovery of dexmedetomidine compared with propofol after sedation during spinal anesthesia

Early psychomotor recovery is an essential part of day care surgery which depends on brain integration of motor and sensory co-ordination. Even though dexmedetomidine is commonly used for day care procedures, the recovery profile was not studied. Hence this study was designed to evaluate the psychomotor recovery of sedation with dexmedetomidine during spinal anesthesia and also to compare with propofol. Sixty six patients were included. Group D received dexmedetomidine 0.5 $\mu\text{g}/\text{kg}$ (loading dose) followed by 0.2-1 $\mu\text{g}/\text{kg}/\text{hr}$. Group P received propofol infusion of 25-100 $\mu\text{g}/\text{kg}/\text{minute}$. Psychomotor recovery was assessed by Finger-tapping, Manual dexterity, Visual spatial memory capacity and pen & paper tests. Psychomotor tasks were given to the patients postoperatively at every 30 minutes for 2 hours followed by every hour up to 4 hrs after surgery. The motor recovery using finger tapping test was faster in group D than Group P (73.94 \pm 42.13 vs 101.21 \pm 37.98min, p value 0.007). Motor recovery using peg board test was faster in Group P than Group D (82.12 \pm

40.37 vs 99.39 \pm 43.08 minutes, p value 0.098). Visual spatial capacity memory test, pen & paper tests were unaffected. We conclude that patients who received dexmedetomidine showed earlier recovery with finger tapping test. Hence we suggest using dexmedetomidine for complete psychomotor recovery and fast track discharging of the patient after spinal anesthesia.



Biography

Suman Lata has completed the degrees of MBBS, DCH & MD (ANAESTHESIOLOGY) from Patna & Ranchi University RIMS School of Medicine, India. Presently she is working as Faculty in a premier organization JIPMER India. Dr. Suman has published more than 25 papers in reputed journals and also has been serving as a reviewer of reputed national journals. She has presented papers in national and international conferences. Also underwent short course in hospital administration from ministry of health and family welfare and training in transplant anaesthesia.

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