

Total intravenous anaesthesia: a survey of practices and training at an anaesthesiology department

Appendix

Study Number

Please provide the following information by placing a tick in the appropriate box.

1. Demographics

Years of experience in anaesthesia	< 1 year	
	1–3 years	
	4–10 years	
	11–15 years	
	> 15 years	

Professional Designation	Medical officer	
	Registrar (1st to 3rd year)	
	Registrar (4th year)	
	Career medical officer	
	Consultant anaesthesiologist	

In this study, the term TIVA refers to the administration of anaesthesia using intravenous agents only (in the absence of volatile agents), and may be achieved through: intermittent bolus dosing, a constant infusion or a target controlled infusion.

A target-controlled infusion (TCI) refers to refers to the delivery of an infusion by a microprocessor-controlled syringe pump, which automatically and variably controls the rate of infusion of a drug to attain a user defined target level in an effect site in the patient.

2. Practice

2.1 In the last year approximately how many TIVAs have you done?

< 10	
10–25	
26–50	
51–100	
> 100	

2.2 I would like to use TIVA more often	Yes	No
2.3 Have you been in a situation where you felt that a TIVA was the best choice for a patient but you were not confident in its administration?	Yes	No

2.4 To achieve a general anaesthetic using TIVA, what is your preferred method?

Intermittent bolus dosing	
Continuous infusion	
Target-controlled infusion (TCI)	

2.5 Which of the following intravenous agents do you use when administering TIVA to achieve general anaesthesia? (You can choose more than one answer.)

Propofol	
Ketamine	
Ketofol	
Remifentanyl	
Alfentanil	
Sufentanil	
Fentanyl	
Dexmedetomidine	
Midazolam	
Muscle relaxants	

2.6 To achieve conscious sedation using TIVA, what is your preferred method?

Intermittent bolus dosing	
Continuous infusion	
Target-controlled infusion (TCI)	

2.7 Which agents do you use when administering TIVA to achieve conscious sedation?

Propofol	
Ketamine	
Ketofol	
Remifentanyl	
Alfentanil	
Sufentanil	
Fentanyl	
Midazolam	
Dexmedetomidine	

3. Factors influencing your use of TIVA

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
3.1 TIVA is an important skill for anaesthetists to master					

3.2 Is TIVA advantageous over volatile-based anaesthetic techniques with regards to the following?

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
Patients at risk for malignant hyperthermia					
Patients presenting for neurosurgery who have raised intracranial pressure					
Reduced emergence delirium					
Less postoperative nausea and vomiting					
Improved visualisation of the surgical field with less bleeding in certain cases (such as spinal surgery or functional endoscopic sinus surgery)					
Faster recovery time					
Reduced airway reactivity					
Reduced environmental pollution					

3.3 The following are obstacles to your use of TIVA

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
TIVA is more costly than volatile-based anaesthesia					
TIVA is more time consuming to set up as compared to volatile anaesthesia					
The lack of availability of pumps prevents my use of TIVA					
When I use TIVA, I am insecure about the possibility that my patients may experience intraoperative awareness					
The availability of depth of anaesthesia monitors would increase my use of TIVA					
I am not comfortable with the pharmacology and pharmacokinetics of TIVA					

4. Training in TIVA

4.1 What training have you received in TIVA?

None	
Informal "on the job"	
Lectures	
Workshops	
Simulation classes	
Self-taught	
Other	

If other, please specify

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4.2 When do you feel registrars should receive training in TIVA?

1 st year	
2 nd year	
3 rd year	
4 th year	

4.3 The best medium to receive training in TIVA would be through

Lectures	
Workshops	
Simulation classes	
Other	

If other, please specify

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
4.4 I feel that the training I have received with regards to TIVA is adequate					

Thank you for taking the time to complete this survey, your participation is greatly appreciated.