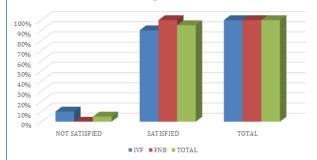
PARIPEX - INDIAN JOURNAL OF RESEARCH | Volume - 9 | Issue - 11 | November - 2020 | PRINT ISSN No. 2250 - 1991 | DOI : 10.36106/paripex

Journal or Pa OR	ORIGINAL RESEARCH PAPER			Anaesthesiology	
ARIPET ADM	COMPARATIVE STUDY OF FEMORAL NERVE CK AND INTRAVENOUS FENTANYL IINISTRATION IN PATIENTS FOR SITTING ITION FOR SPINAL ANAESTHESIA FOR GERY IN FRACTURE FEMUR SHAFT."			KEY WORDS:	
Dr. Mansi Shah*	i Shah* Jr III Department Of Anac *Corresponding Author		esthesiology MGM Institute Of Health Sciences.		
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INTRODUCTION The femur, also called as the thighbone, is the longest, largest and the strongest bone of the body. The fracture of the femur is caused by high impact trauma and large amount of force is required. It can also be caused by low energy trauma as well. It is most commonly associated with multiple bone fractures.		• • •			
The fracture femur shaft is most commonly treated operatively, the only exception being children below the age of 4 years. Closed Reduction and Internal Fixation with nailing is the method of choice nowadays.		Lignocaine 3 mg/kg. EXCLUSION CRITERIA: • Patients with spinal deformity. • Patients with known or suspected haemorrhagic			
The nerve supply of the periosteum is mostly from the nerves of the overlying skin, while the motor branches to nearby muscles provide the deeper supply. The main nerve supply is from the femoral nerve supplying the quadriceps femoris muscles.		•	 diathesis. Patients with peripheral neuropathy. Patients with known or suspected allergy to amide local anaesthetics or narcotics. Patient with mental disorders and who are unable to comprehend pain scores. 		
Spinal and epidural anaesthesia is usually applied to such patients for surgery. However, sometimes the over-riding of the fractured ends is very painful and the positioning of the patient for the anaesthesia procedure becomes difficult.		• • 1.	 ASA III and IV. Pre-operatively all patients were thoroughly evaluated and the following investigations were done: Complete blood count 		
The femoral nerve block has been used successfully in adults for pre-operative analgesia or in the emergency department.		3.	 Random Blood Sugar BT/CT Chest X-Ray 		
The present study was undertaken to study the efficacy of femoral nerve block performed by using an ultrasound machine as compared to the use of intravenous opioid Fentanyl in achieving pain relief while performing spinal anaesthesia.		6.	 Electrocardiogram in patients >35 years of age BUN/Serum Creatinine LFT On arrival in the waiting room of operation theatre, a visual analog score (VAS) (0 = No pain to 10 = maximal pain) was 		
AIMS AND OBJECTIVES		 Adequate starvation and separate consent was confirmed. 			
AIM: The aim of this study is to compare the femoral nerve block using ultrasound machine and intravenous fentanyl for relieving pain and achieving optimum position before giving spinal block.		•	recorded, and oxygen saturation was monitored.No premedication was given.		
 OBJECTIVES: To compare feasibility of patients. 	f femoral block in a group of		anaesthesia procedur	5	
 To compare the analgesic effect of femoral nerve block to Intravenous Fentanyl administration before giving spinal anaesthesia. 		1) 2) 3)	Sterile towels and 4"2 20 mL syringes with lo Sterile gloves, markir	ocal anaesthetic	
 To compare pain score by VAS method in both groups. To study performance time of spinal anaesthesia in both groups of patients. 		5) 6)	Ultrasound machine 23G Spinal needle 10 cm extension 25G Spinal needle (Q	uincke's)	
 MATERIALS AND METHODS A randomized prospective study was conducted after abtaining provide and the athlese according to a straining of the straining provide after a straining provide		8)	Lignocaine 1.5% vial Bupivacaine Heavy		
obtaining prior permission from the ethics committee of the hospital in 20 patients.		•	ultrasound.		
 INCLUSION CRITERIA: It was within the age groups of 18-60 years. Both male and female genders were selected. It was done in patients suffering from isolated femur shaft 		•	artery and 1.5 cm 1 visualization on the ult	duced in plane lateral to the femoral below the inguinal ligament after trasound machine. onfirmed, an extension is attached to	

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- the needle.
- Negative aspiration is confirmed.
- 3 mg/kg of 1.5% Lignocaine is given slowly according to the weight of the patient.
- Group IVF received intravenous Inj. Fentanyl 3 µg/kg.
- In both groups, the time when treatment drug was administered was considered as the starting point (T0).
- Five minutes after T0, the patient was placed in sitting position and spinal anaesthesia was performed by the anaesthesiologist unaware of the patient group.
- · Local anaesthetic skin infiltration was not made.
- A median approach was used.
- The VAS scores and haemodynamic parameters during the performance during the performance of femoral nerve block and during placement into the sitting position were recorded.
- The performance time (defined as the time from beginning of patient positioning to the end of the performance of spinal anaesthesia) and the quality of patient position maintained for spinal anaesthetic block placement.
- (0 = not satisfactory, 1 = satisfactory, 2 = good, and 3 optimal) were also recorded.
- The VAS score during patient positioning and the quality of patient position were recorded by the anaesthesiologist who performed the spinal block.
- Patient positioning for surgery was given after removal of traction.
- · All surgeries were completed with spinal anaesthesia.
- Post operatively, the patient was shifted to recovery room and haemodynamic parameters were monitored. Groupwise Distribution Of Subjects by their acceptance for the procedure



DISCUSSION

Routinely, spinal anaesthesia is mostly used for the surgical procedure of closed reduction and internal fixation and inserting an intramedullary nail in anterograde fashion. The position of these patients to perform spinal anaesthesia is often problematic because even a minimal overriding of the fracture causes intense pain to the patient. To reduce the pain and avoid further soft tissue trauma, we prefer to give a femoral nerve block, ultrasound guided to reduce the pain and allow the patient to sit while giving spinal anaesthesia. Despite this practice, administration of a substantial amount of intravenous analgesics is mandatory during the placement of a block. The femoral nerve block has been successfully used in adults posted for shaft femur fractures in the pre-operative period.

This prospective, randomized study demonstrates that femoral nerve block is more effective than intravenous administration of Inj. Fentanyl to facilitate the sitting position for spinal anaesthesia in patients undergoing surgery for femur shaft fractures. The choice of the anaesthesia management in patients with a fracture of the shaft of femur is greatly influenced by the surgical needs.

In our study, the feasibility and analgesic effect of femoral nerve block and intravenous Inj. Fentanyl were compared. A five minute interval between T0 and the performance of spinal

anaesthesia was chosen to maximize the analgesic effect of fentanyl. We found that a VAS score in FNB group decreased from 9.16 ± 0.85 to 3.16 ± 1.1 in five minutes after performing the block. Whereas in the IVF group decrease was noted from 8.68 ± 1.02 to 5.4 ± 0.86 . Both techniques provided sufficient analgesia to perform spinal anaesthesia in the sitting position but the analgesic effect of Femoral nerve block was significantly better.

CONCLUSION

- Thus, we conclude that femoral nerve block is easy to perform and effective in providing adequate analgesia in patients with fracture shaft femur.
- Femoral nerve block is more advantageous than intravenous fentanyl to facilitate sitting position for patients undergoing surgery for fracture shaft of femur.