



## LOCAL ANAESTHESIA IS SAFE ALTERNATIVE FOR CHRONIC SUBDURAL HEMATOMA

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**ABSTRACT** Chronic subdural hematoma is one of the neurosurgical emergency commonly affect elderly people. It needs emergent action by the anaesthetist and the neurosurgeon. General anaesthesia is commonly used for burr hole tapping. Elderly people with other co morbid illness like diabetes and cardiovascular disease Local anaesthesia is a safe alternative. This study helps to find out the patient satisfaction and surgeons comfort for the local anaesthesia in Chronic subdural hematoma cases operated by a single surgeon.

### KEYWORDS :

#### Aim Of The Study

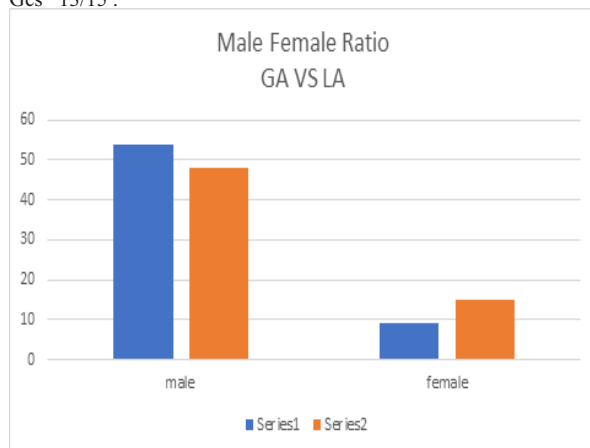
Aim of the study is to compare the efficacy of Local Anaesthesia in cases of chronic SDH with General anaesthesia in terms of Post operative pain and Comfort level of Surgeon and Patients

#### MATERIALS AND METHODS

Chronic SDH cases admitted with varying GCS in our institute were categorized into two groups. For Group A General Anaesthesia is given for standard two burr hole surgery. For Group B local anaesthesia is Used using 20 ml of 1% Lignocaine with adrenaline as Scalp Block and Standard two burr hole surgery for evacuation of Chronic Subdural Hematoma was done. Bilateral Chronic Subdural Hematoma, Acute on Chronic subdural Hematoma which requires Craniotomy, Multi loculated Chronic SDH on MRI were excluded from the study. Primary outcome is measured in three ways. First one is Likert Scale for the comfort level of Surgeon and Patients for the Procedure. Second one is Wong Baker facial pain scale for pain for the Patients for Intraoperative and post operative Pain status. Last one is Numeric Pain rating Scale for the post operative and intra operative pain. All patients are in Preoperative GCS between 8-15

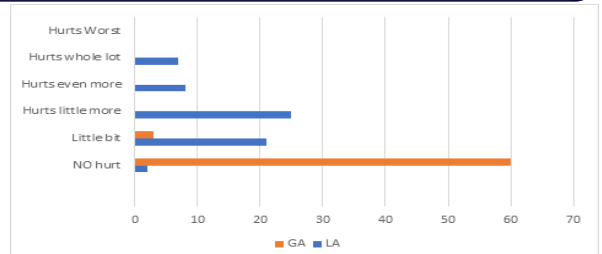
#### RESULTS

A total of 126 Cases Operated during the period of 4 years .63 patients were operated under GA and Equal number of patients Operated under Local anaesthesia. Age distribution is from the range of 40 to 80 . 104 Male patients and 24 female patients . Mostly in Gcs 13/15 .

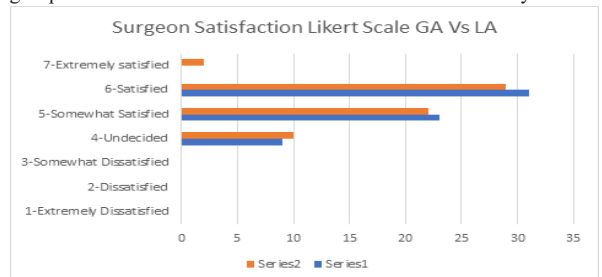


#### Wong- Baker Faces Pain Rating Scale

Wong-Baker Faces Pain Rating Scale	LA	GA
NO hurt	2	60
Little bit	21	3
Hurts little more	25	0
Hurt seven more	8	0
Hurt whole lot	7	0
Hurt Worst	0	0



When compare to Wong Baker's faces Pain scale in Local anaesthesia group of Patients had mild pain than General anaesthesia group, but most cases are in 4-6 Scale that is hurts little only.



#### Likert surgeon Satisfaction scale

Likert-Like Scale	GA	LA
1-Extremely Dissatisfied	0	0
2-Dissatisfied	0	0
3-Somewhat Dissatisfied	0	0
4-Undecided	9	10
5-Somewhat Satisfied	23	22
6-Satisfied	31	29
7-Extremely satisfied	0	2

Satisfaction scale is obtained from the single surgeon. GA and LA was administered by various anaesthetist with varying years of Experience in the field of anaesthesia. Surgeon is mostly satisfied with LA than GA.

#### CONCLUSION

Chronic subdural hematoma is one of the life threatening emergency. It requires emergency surgery either burr hole tapping or Craniotomy. The mode of anaesthesia is one of the critical steps in the outcome of Chronic subdural hematoma surgery by burr hole tapping. In Our series when compare to General anaesthesia, local anaesthesia is good in terms of Wong-Baker faces pain rating and surgeon satisfaction is very Good in local Anaesthesia. More over Cost of surgery in the life saving surgery is less when compare to General anaesthesia. It reduce the cost around 300 us Dollars and Over all hospital stay is less. Local Anaesthesia can be safely administered for the elderly Patients with multiple co morbid illness