

# Outcomes of EXOGEN device for Delayed Union & Non Union of long bone fractures at DGRI

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## AIM

To assess Outcomes of EXOGEN ultrasound bone healing system device in management of patients with delayed unions and non unions in LONG BONE fractures

Study Design – Audit – cycle (Retrospective Data)

## METHODOLOGY

Retrospective Study – Audit

*(Prospective data in collection)*

- ❖ Patients selection for this treatment
- ❖ Review of Case notes & radiographs @ Start of Exogen system
- ❖ Clinical & radiological assessment during follow up

## DATA

- ❖ Total patients – 11
- ❖ Time period – Jan 2018 - 2019 ( 12 months), Avg. f/u 18.5 months
- ❖ Place – DGRI dept of Orthopaedics

MODULE – EXOGEN 250/325 (LIPUS), marked/fixed and instructed by Device Representative, used for 20 minutes /day

## Results

	Healed	Failed
Total Number	7	4
Delayed Union	3	0
Non Union	4	4
Upper Limb	2	2
Lower Limb	5	2
Percentage	63.6 %	33.4%
Smokers	2	2
Module	250/325	250/325

## Conclusion

EXOGEN is a good cost effective/ non invasive option

Challenge - Timing of treatment

N.I.C.E. - supports the efficacy and utility of EXOGEN treatment.

Cost saving of **£2,407** per patient through avoiding surgery

**Patient & fracture selection -KEY**

Literature - 55-63% healing rate

Our Results are comparable - **63.6% Healed, 33.4 % failed**

We have published this study in *Journal of Orthopedics & Bone Disorders* , Vol. 5 May 2021