



TRANSFORAMINAL ENDOSCOPIC FORAMINOTOMY FOR ACUTE NEURALGIA

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INTRODUCTION

In the last ten years there have been significant improvements in:

- ◆ HD Camera technology
- ◆ Endoscopic bone reamers
- ◆ Diamond cutting drills
- ◆ Radiofrequency and Laser probes

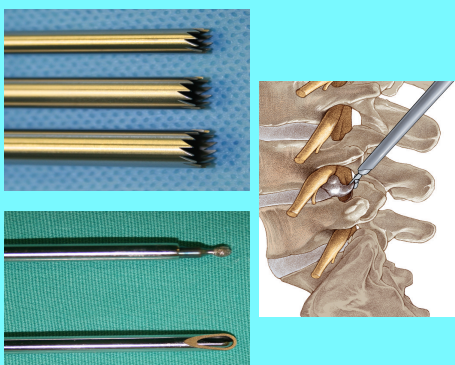
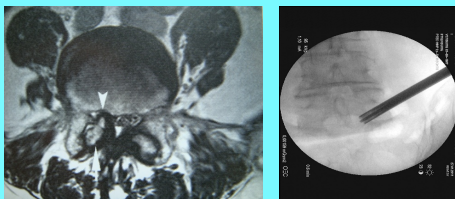
AIMS AND OBJECTIVES

To determine the safety and effectiveness of transforaminal endoscopic foraminotomy (TEF) as an alternative to open laminotomy

PATIENTS AND METHODS

- ◆ 34 patients (22m,12 f) mean age 56±12 yrs all with MR foraminal compression
- ◆ Comparison with 25 patients (11m,13f) mean age 57±13 yrs with respect to hospital stay and secondary surgery
- ◆ VAS, ODI and EQ5-D logged on British Spine or Jointell QMS registries

SURGERY



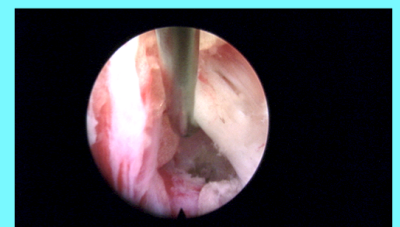
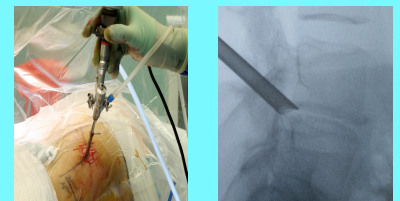
RESULTS

TEF

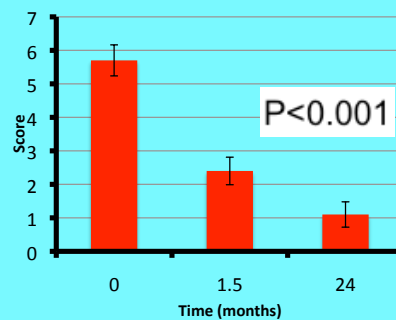
- ◆ 36 foramina widened: 5 L3/4, 17 L4/5, 14 L5/S1
- ◆ 26 disc margins trimmed
- ◆ Surgery 60 min (range 33-140)
- ◆ Radiation 43±16s
- ◆ 28/34 patients Day Case
- ◆ All 23 workers returned to work at a median time of 28 days

Laminotomies

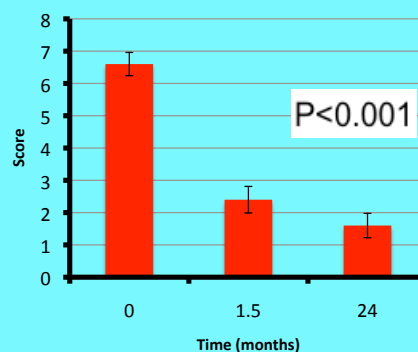
- ◆ 25 foramina widened
- ◆ Mean stay 2.3±1.2 nights



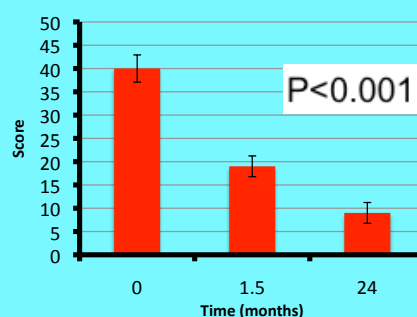
Back pain VAS



Worst leg VAS



ODI



(Means ± SEM)

COMPLICATIONS

- ◆ No direct complications
- ◆ TEF – 4/34 secondary surgery – 2 Repeat TEF, 2 Axialif
- ◆ Laminotomy – 3/25 secondary surgery – pedicle fusion

CONCLUSIONS

- ◆ TEF was performed safely
- ◆ Visualisation allowed safe widening of foramen and resection of disc material if necessary
- ◆ Immediate recovery more rapid than laminotomy
- ◆ Low rate of repeat surgery
- ◆ Early return to work

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DISCLOSURES

JNAG and MI have received payments for teaching from joimax GmbH