

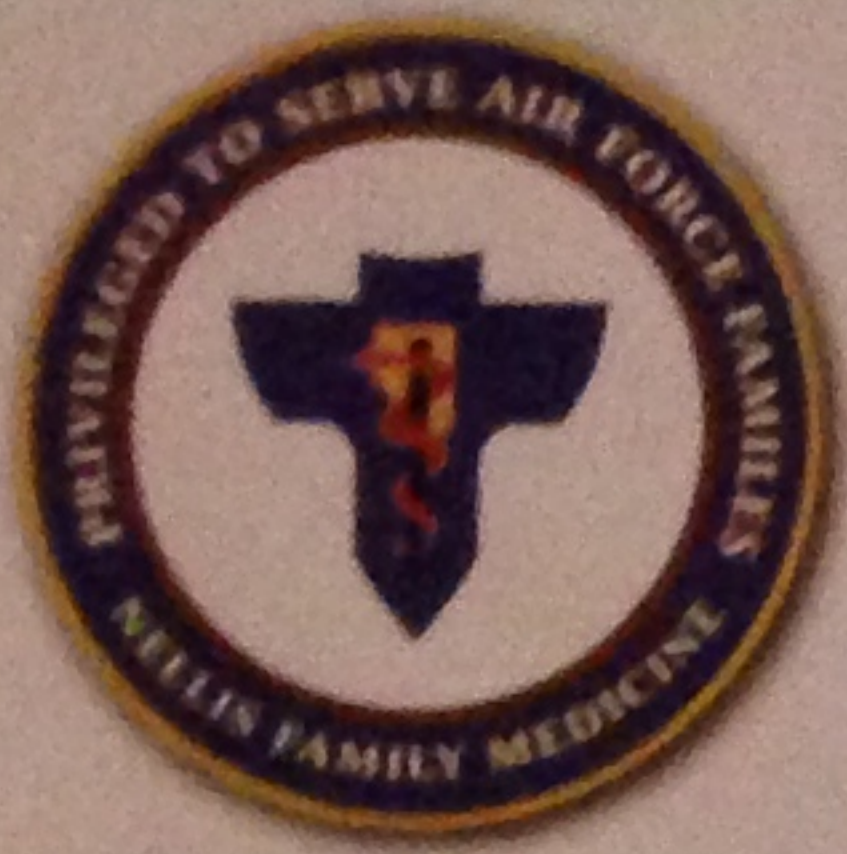
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Ear Acupuncture for Post-operative Pain Associated With Ambulatory Arthroscopic Knee Surgery: A Randomized Controlled Trial

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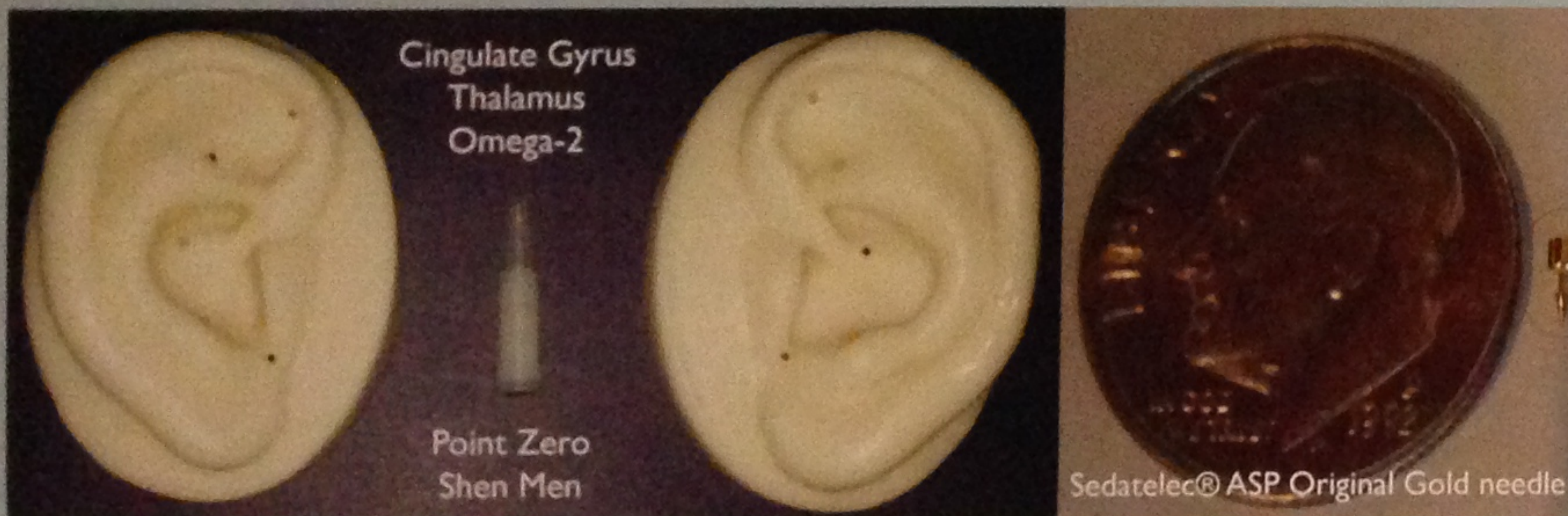


INTRODUCTION

- Post-op pain impacts recovery
- Auricular Acupuncture is a low risk option for acute pain control
- Battlefield acupuncture (BFA) is a specific auricular acupuncture technique
- BFA is easily learned by non-acupuncturists
- **Does adding BFA to standard treatment improve post operative outcomes in patients undergoing knee arthroscopy?**

METHODS

- Single Blind randomized controlled trial
- Men and women >18yrs old undergoing unilateral knee arthroscopy without ligamentous repair
- **Group 1:** Standard Treatment
- **Group 2:** Standard Treatment + BFA (needles placed under anesthesia)
- **Outcome measures:** Post-op pain scores, inpatient/outpatient medication usage, time to ambulation without assistance, post anesthesia care unit (PACU) discharge time, Pain Impact Questionnaire (PIQ6) scores
- Statistical analysis: Independent t-test



RESULTS

Pain Scores	Standard	Standard +BFA	p-
5min	1.87	2.18	
30 min	1.80	1.88	
24hrs	3.40	4.35	
1 month	1.33	2.13	
Fentanyl (µg)	10.00	6.25	
Time to PACU Discharge (min)	58.80	72.71	
Narcotic Doses	23.40	15.75	
Non-narcotic Doses	10.47	12.13	
Days to Ambulation without Assistance	13.80	14.53	
Return to Work (days)	20.64	14.53	

- N=32
- No demonstrated difference in pain scores, pain medication usage, ambulation without assistance or PACU discharge time
- PIQ6 scores will be calculated when all data is collected

DISCUSSION

- **Strengths:** RCT, patient blind to treatment group, bandages covered in all patients, staff involved in pain scores and medication administration blinded to treatment
- **Weaknesses:** Small sample size, no sham acupuncture performed, post-op pain medication orders frequently not followed, needles placed at onset of pain.
- **Potential reasons for non-significance:**
 1. Auricular Acupuncture not effective
 2. Adjunctive pain treatment not needed due to efficacy of standard treatment

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