

# Dehydrated cell and protein concentrate (dCPC) (“Ascent”) Versus Corticosteroids for the treatment of Knee Osteoarthritis

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Presenter:  
Ben Sirutis



# Background

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- Ascent: dehydrated cell & protein concentrate (dCPC)
  - Amniotic fluid derived, FDA regulated HCT/Ps
  - Tissue inhibitors of metalloproteinases (TIMPs), growth factors, interleukins, hyaluronic acid

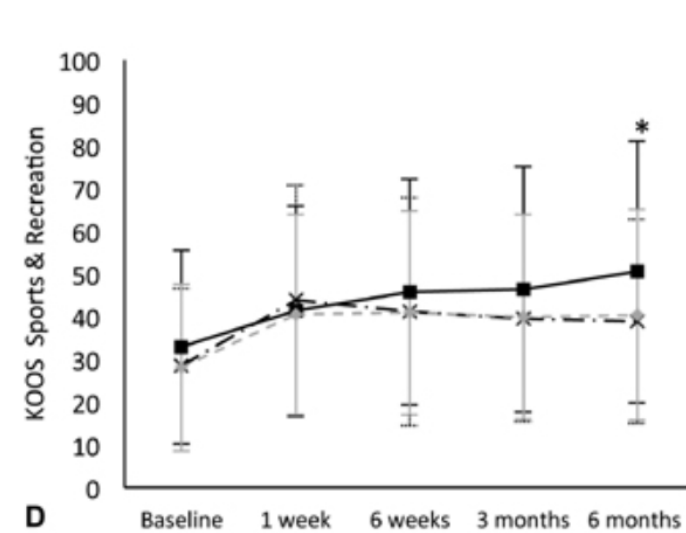
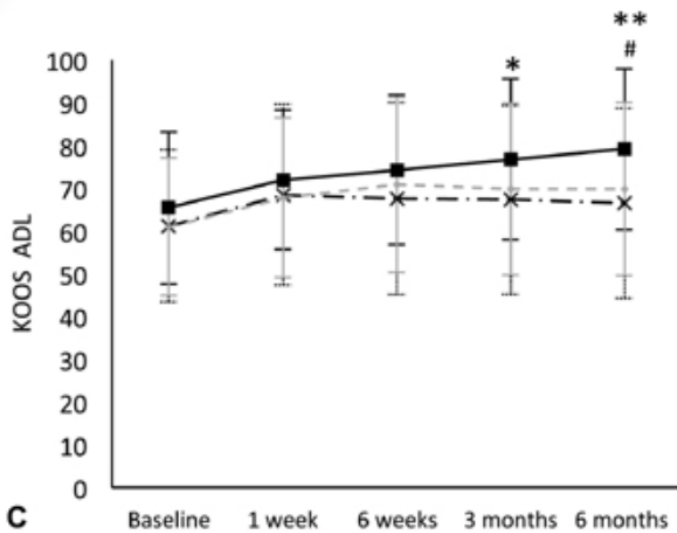
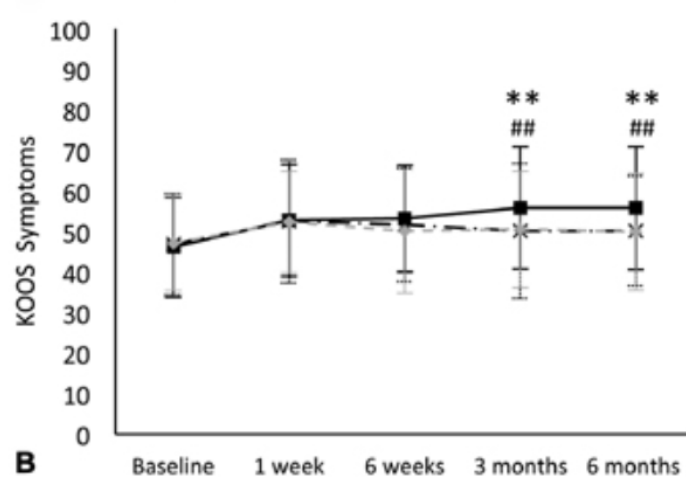
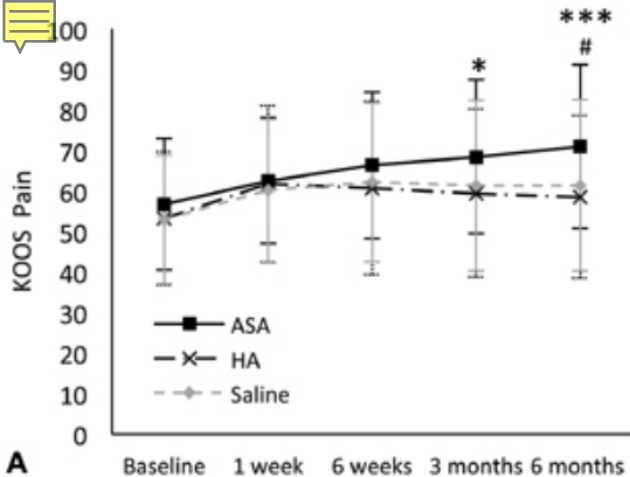


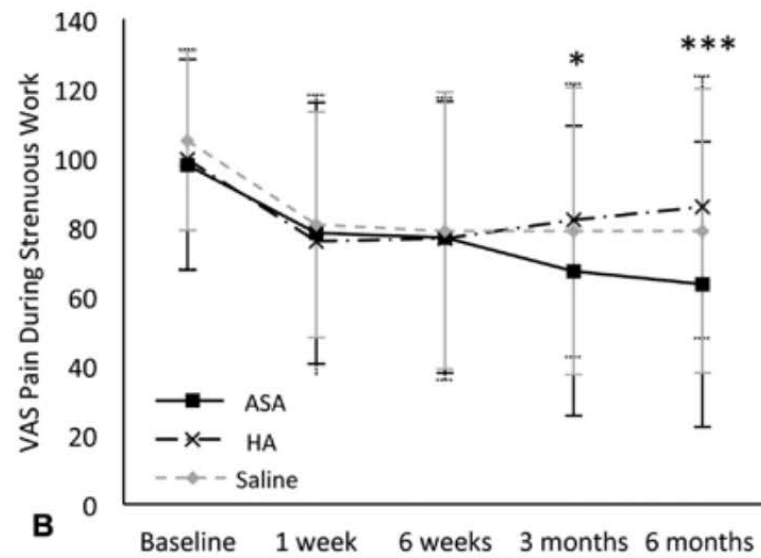
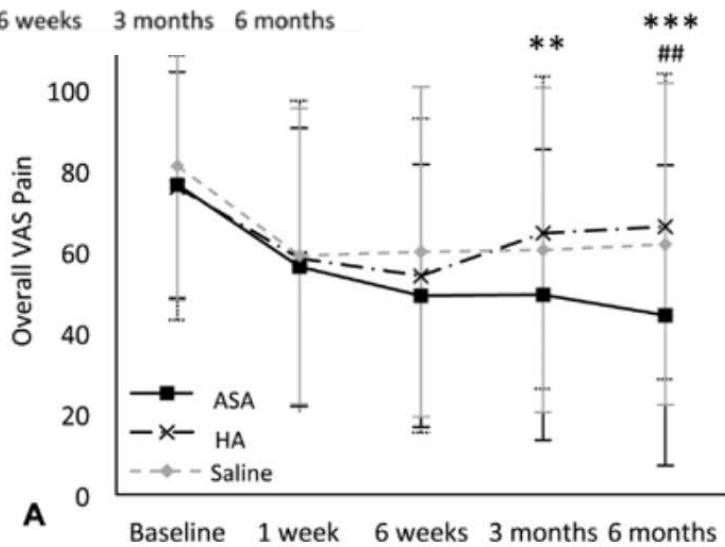
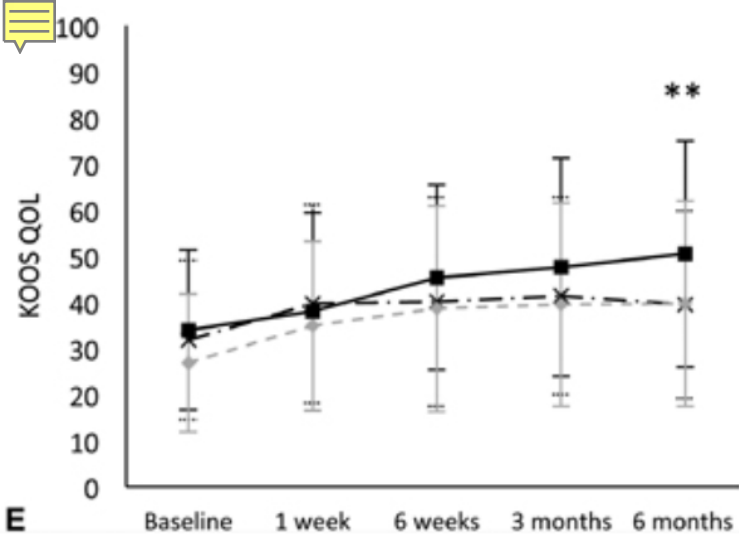
# Current Literature

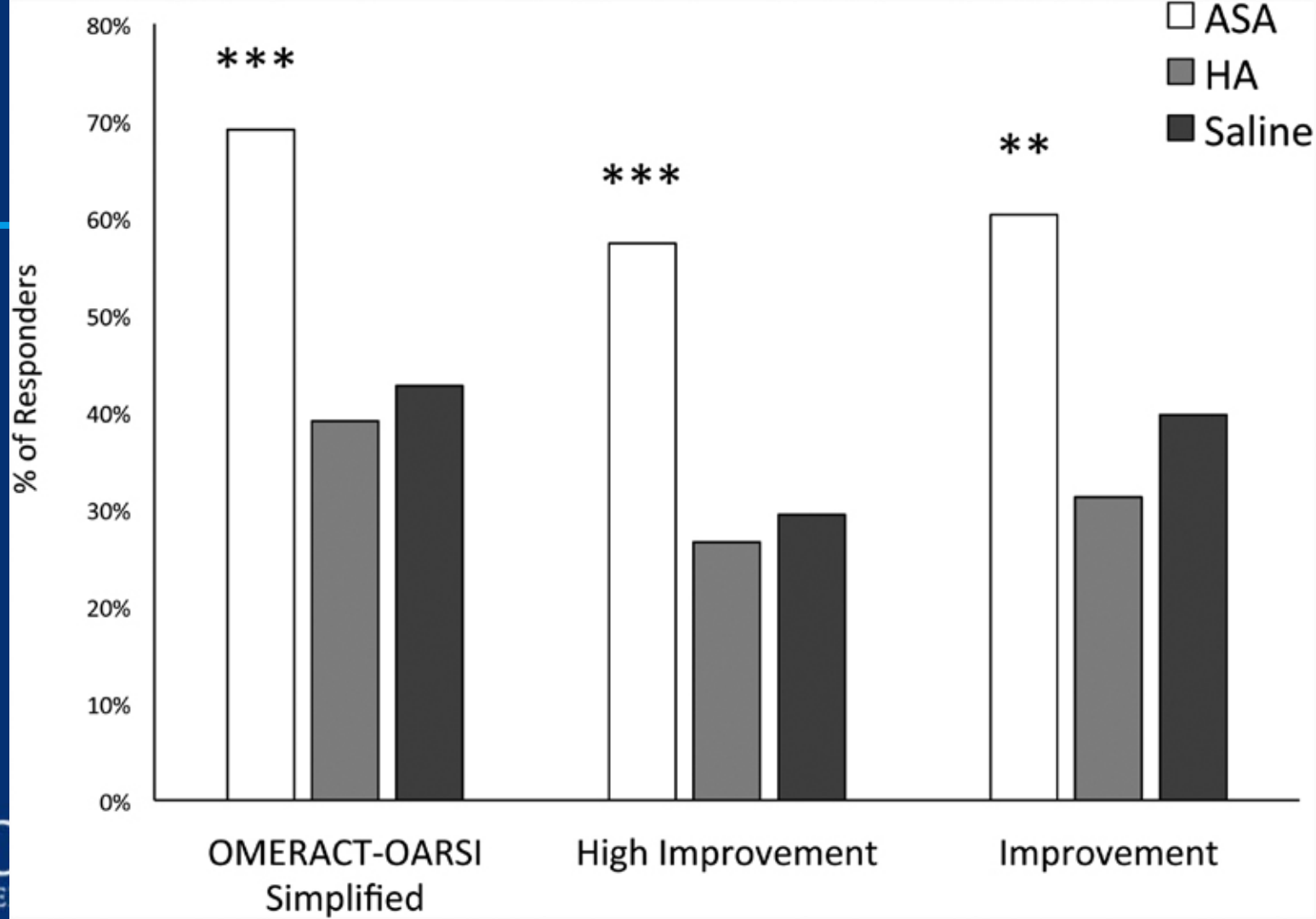
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- Multicenter single blinded RCT Journal of Knee Surgery 2019
  - 200 pts, three arm IA trial for knee OA: Amniotic suspension allograft, hyaluronic acid, saline
  - Moderate knee OA, without recent intervention, 1 week, 6 week, 3 month, 6 month
  - KOOS, VAS, EQD-5L
  - 3m dropout: ASA (13%), HA (69%), Saline (75%)

Farr J, Gomoll AH, Yanke AB, Strauss EJ, Mowry KC. A Randomized Controlled Single-Blind Study Demonstrating Superiority of Amniotic Suspension Allograft Injection Over Hyaluronic Acid and Saline Control for Modification of Knee Osteoarthritis Symptoms. *The Journal of Knee Surgery*. 2019;32(11):1143-1154. doi:10.1055/s-0039-1696672.







# Methods

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- 2 arm RCT, goal 70 patients per arm
- US guided dCPC injection or US guided CSI
- Age 20-75, radiographic knee OA, failed conservative measures, no recent CSI or visco, off NSAIDs
- Follow up at 1, 2, 3, 6, and 12 months
  - KOOS (Knee injury & Osteoarthritis Outcomes)
  - VAS (Visual Analog Scale)
  - Emory QOL (Emory Quality of Life Survey)

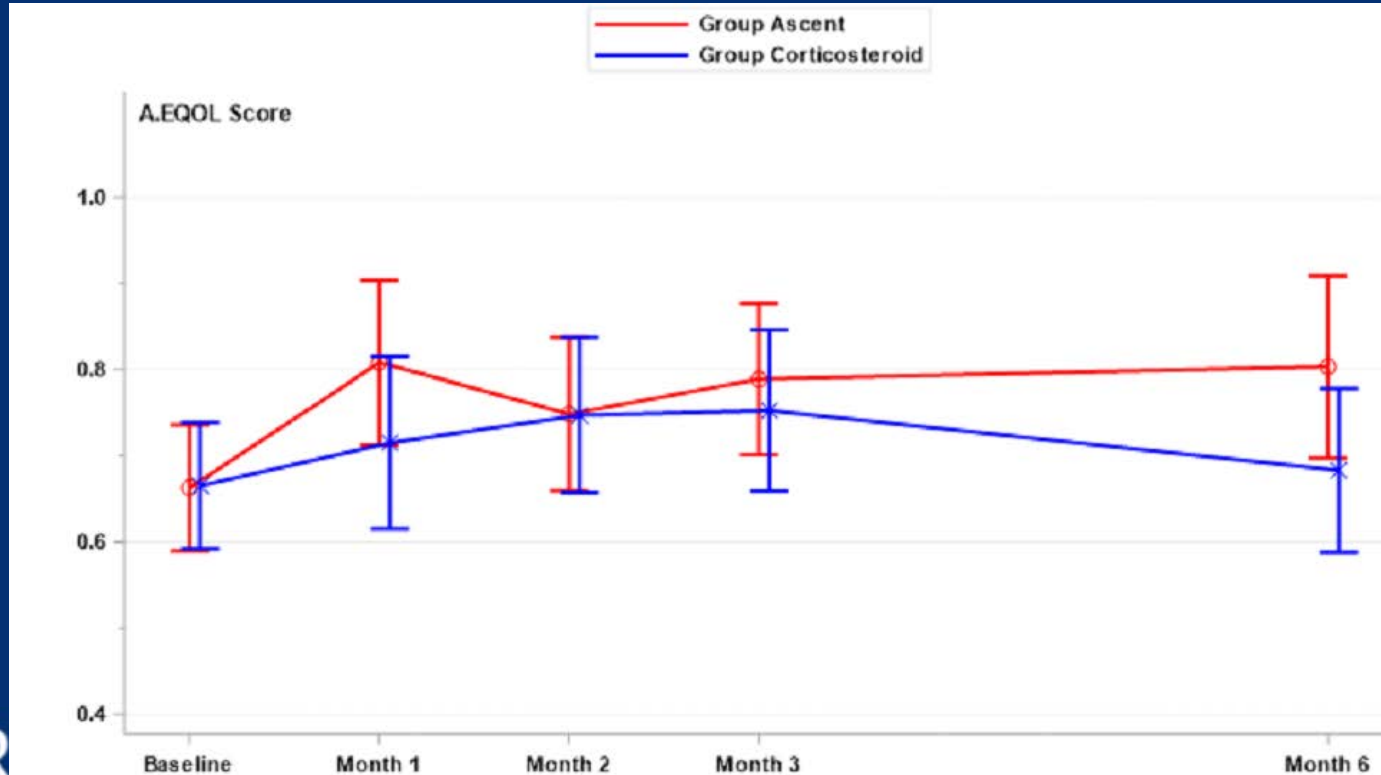
# Current Recruitment Progress

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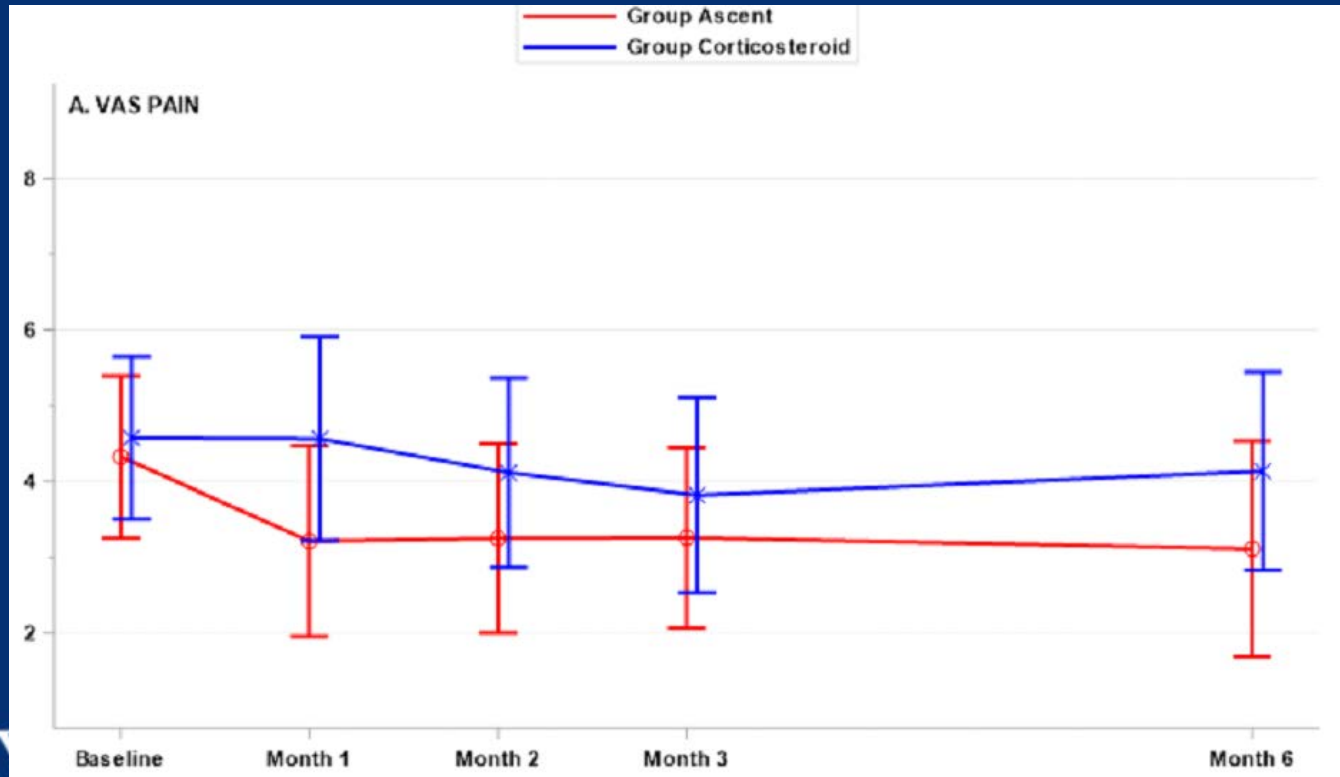
Timeline	Number of Participants
Total Enrolled	40
1 Month	20
2 Months	27
3 Months	26
6 Months	20
9 Months	2



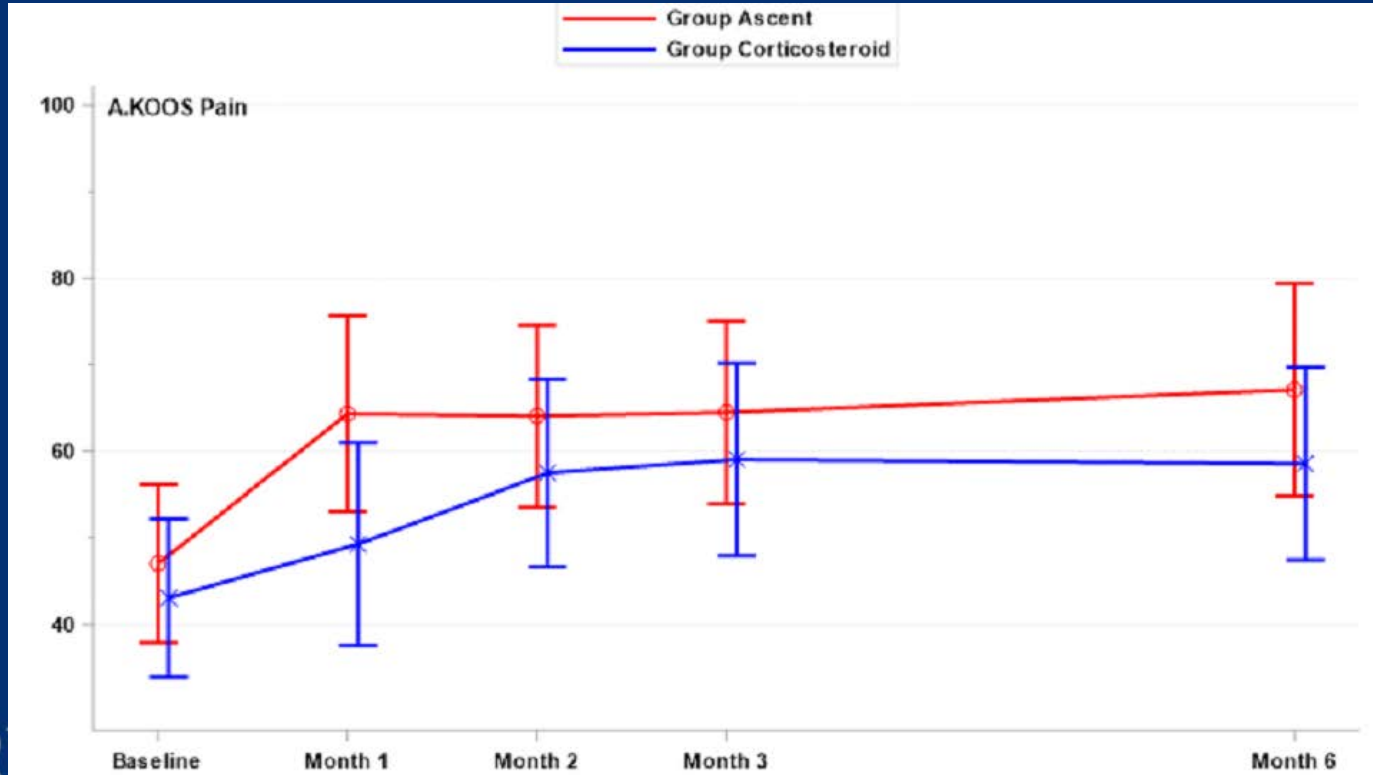
# Emory Quality of Life Score



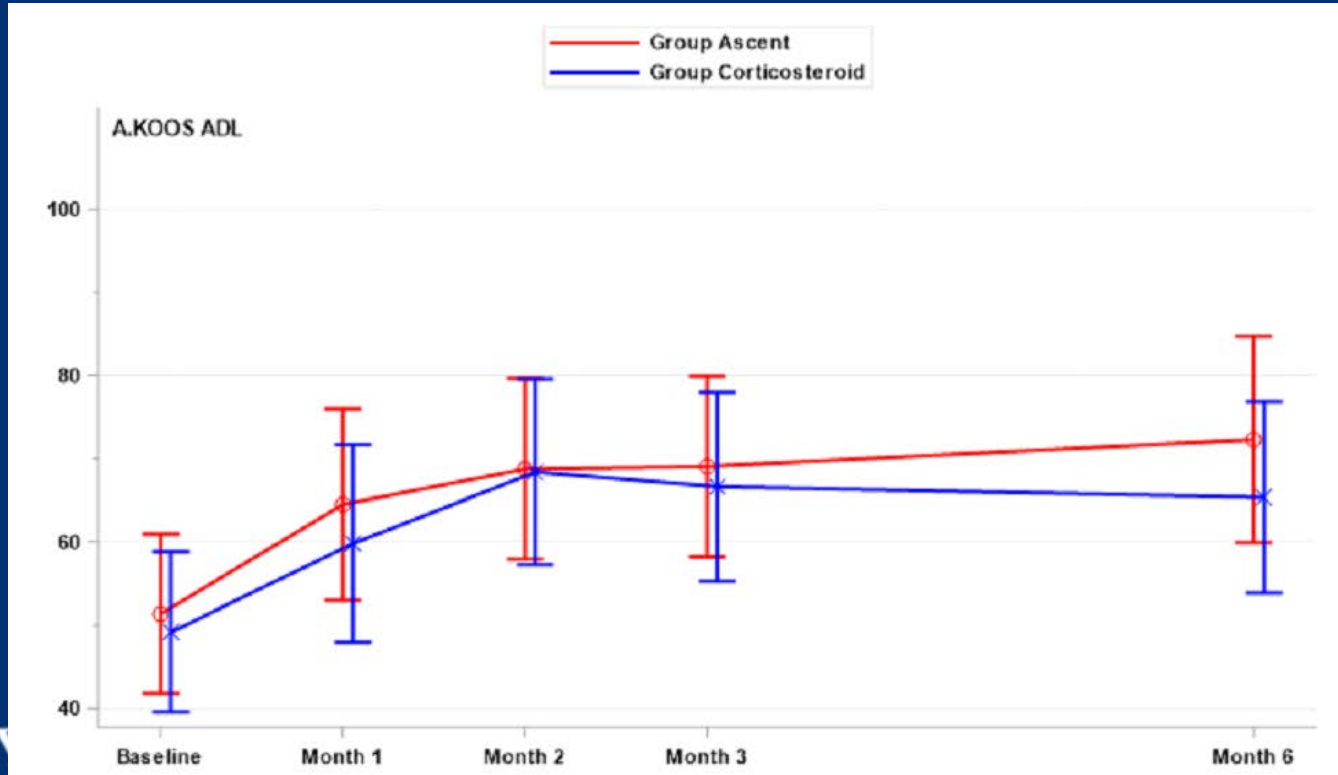
# VAS Pain Scale



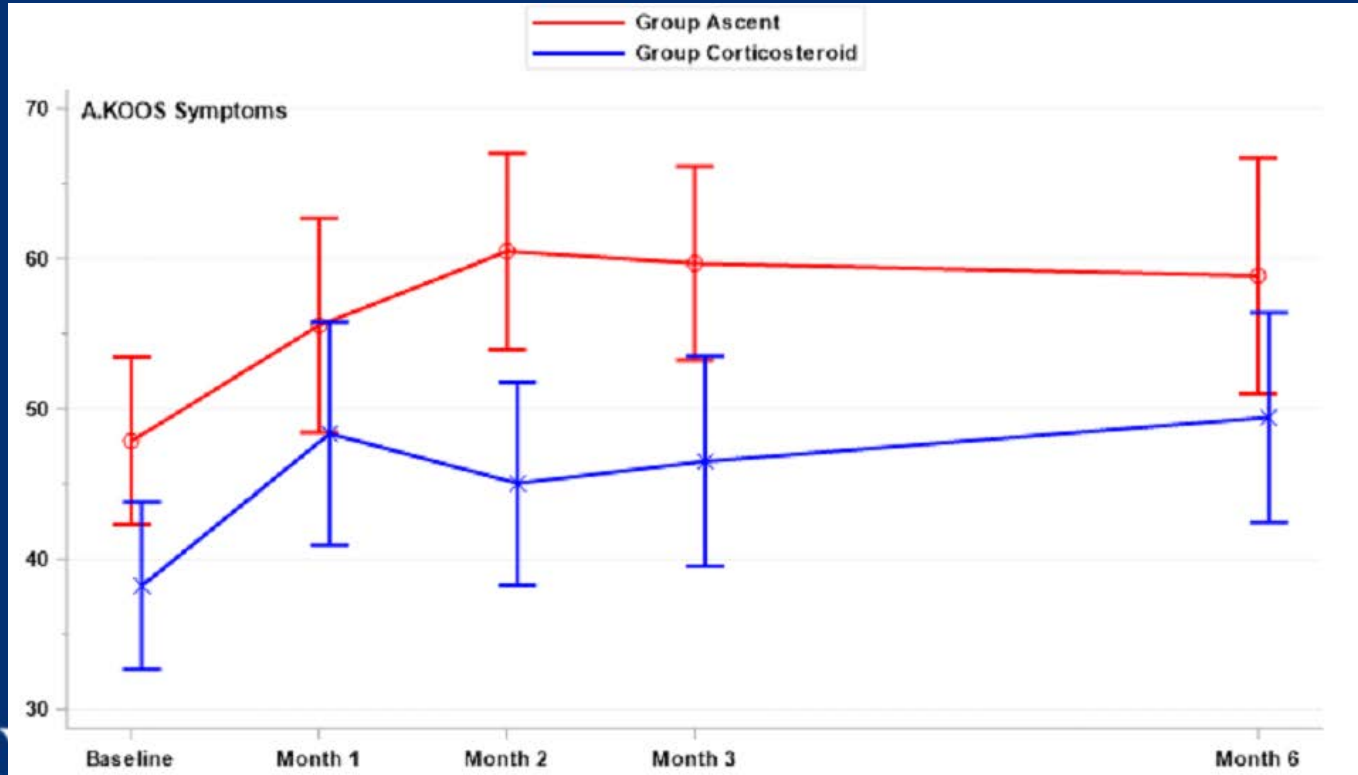
# Knee Injury & OA Outcomes, Pain



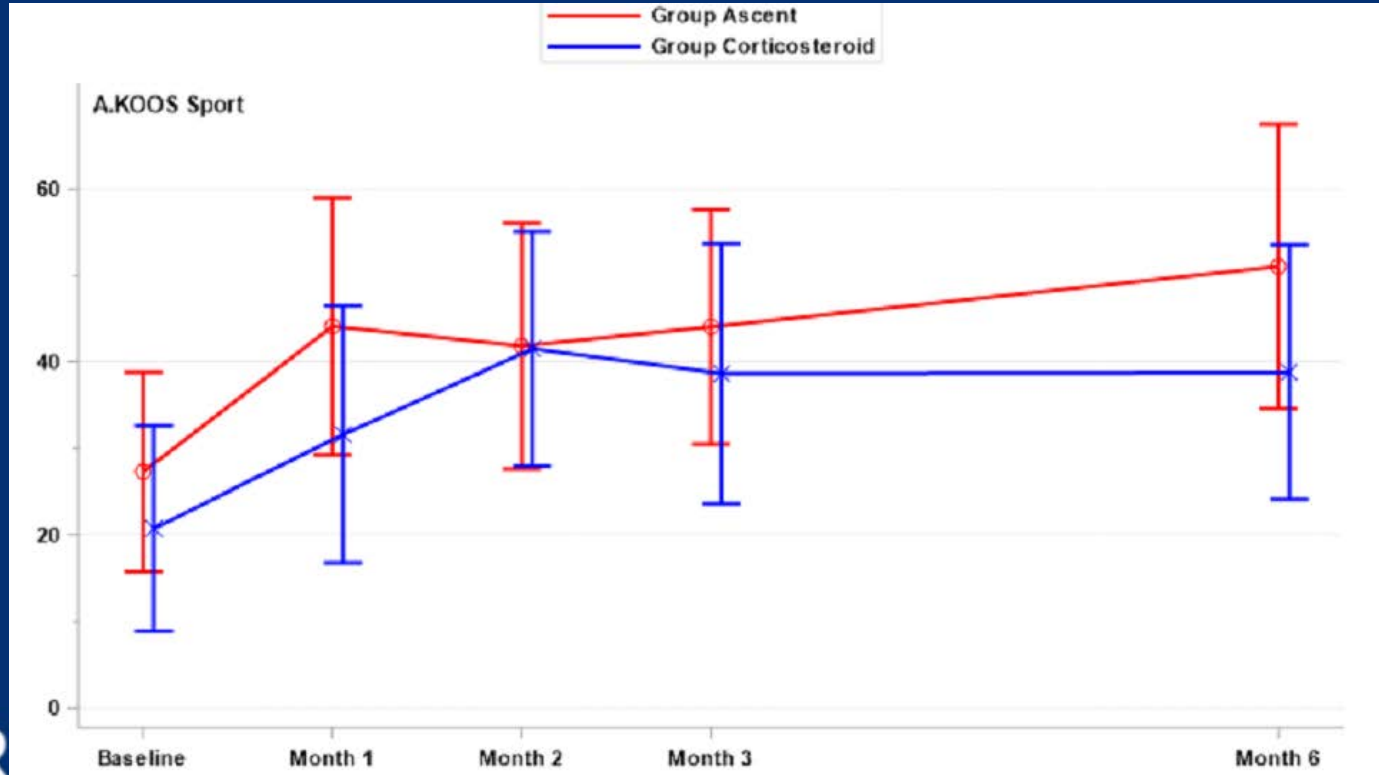
# Knee Injury & OA Outcomes, ADLs



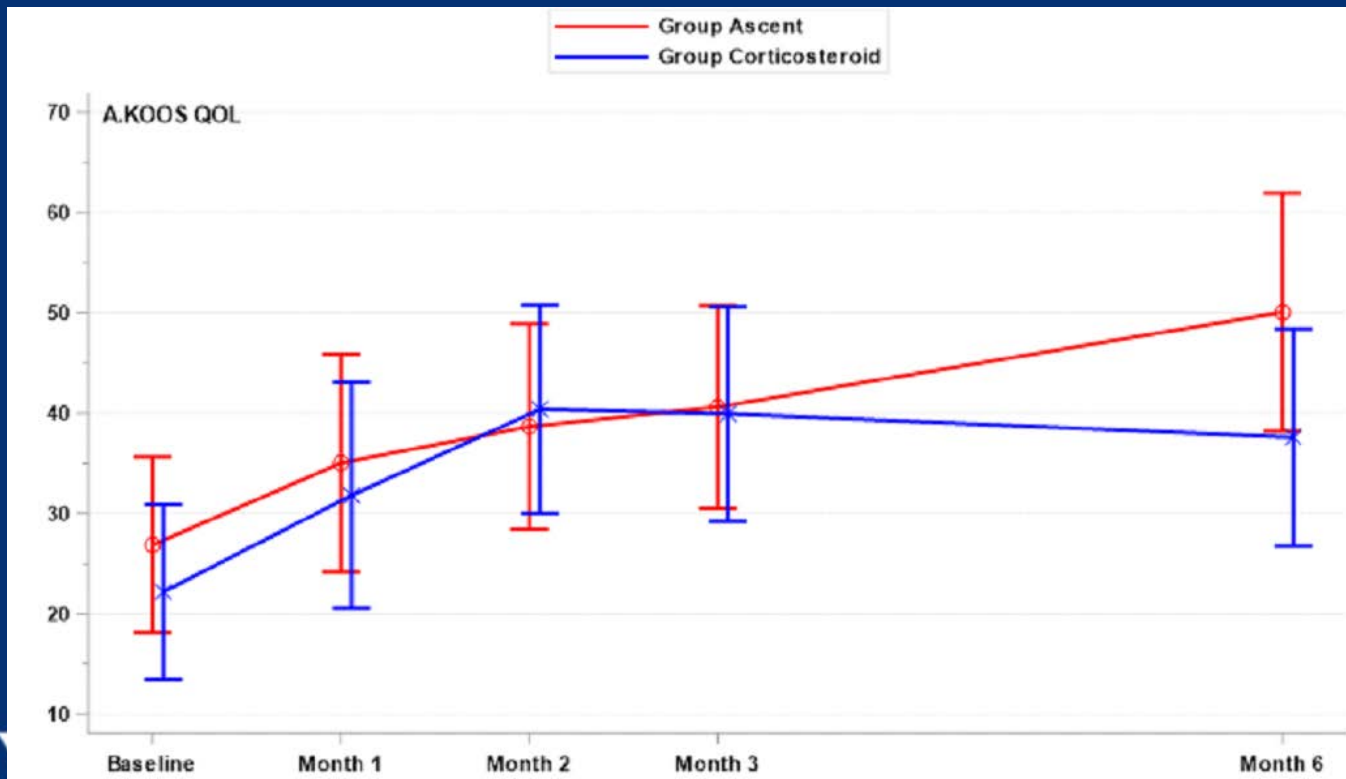
# Knee Injury & OA Outcomes, Symptoms



# Knee Injury & OA Outcomes, Sport Score



# Knee Injury & OA Outcomes, QoL Score





# Takeaway

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- ASCENT intervention arm statistically significant improvement in KOOS symptom scores at 2 months
- Possibly clinically relevant reduction in VAS scores & KOOS pain score, however increased statistical power is needed to determine if statistically significant differences are present
- Currently 40 of 140 recruited with only 20 currently at the 6 month follow up mark



