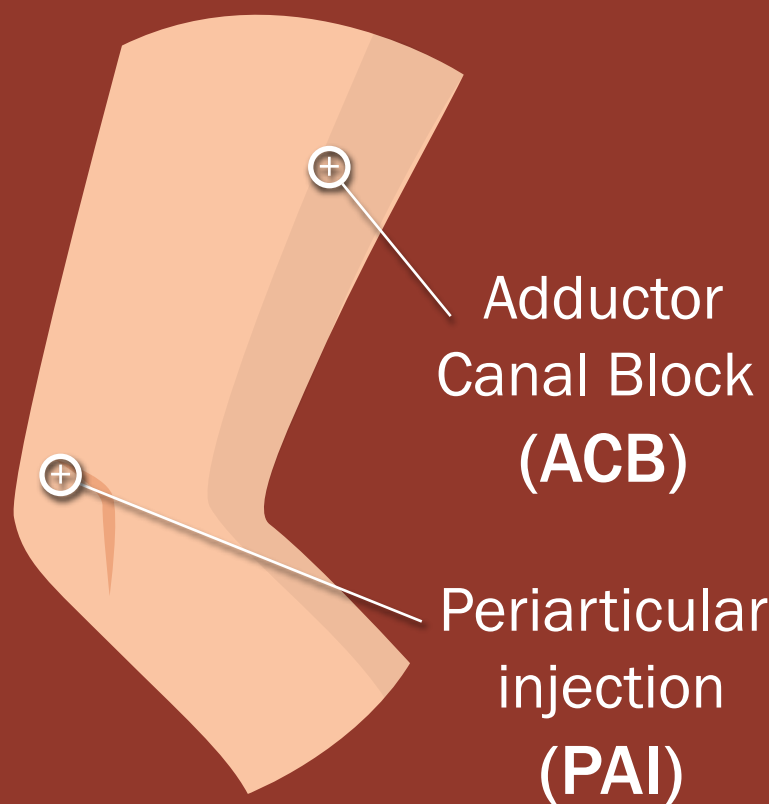


# Efficacy of Adductor Canal Block versus Periarticular Injection for Total Knee Arthroplasty

Using regional anesthesia for total knee arthroplasty (TKA)

- ★ improves pain control
- ★ shows rapid functional recovery
- ★ reduces hospital stay



155 TKA patients were randomized to receive

ACB alone  
n=53

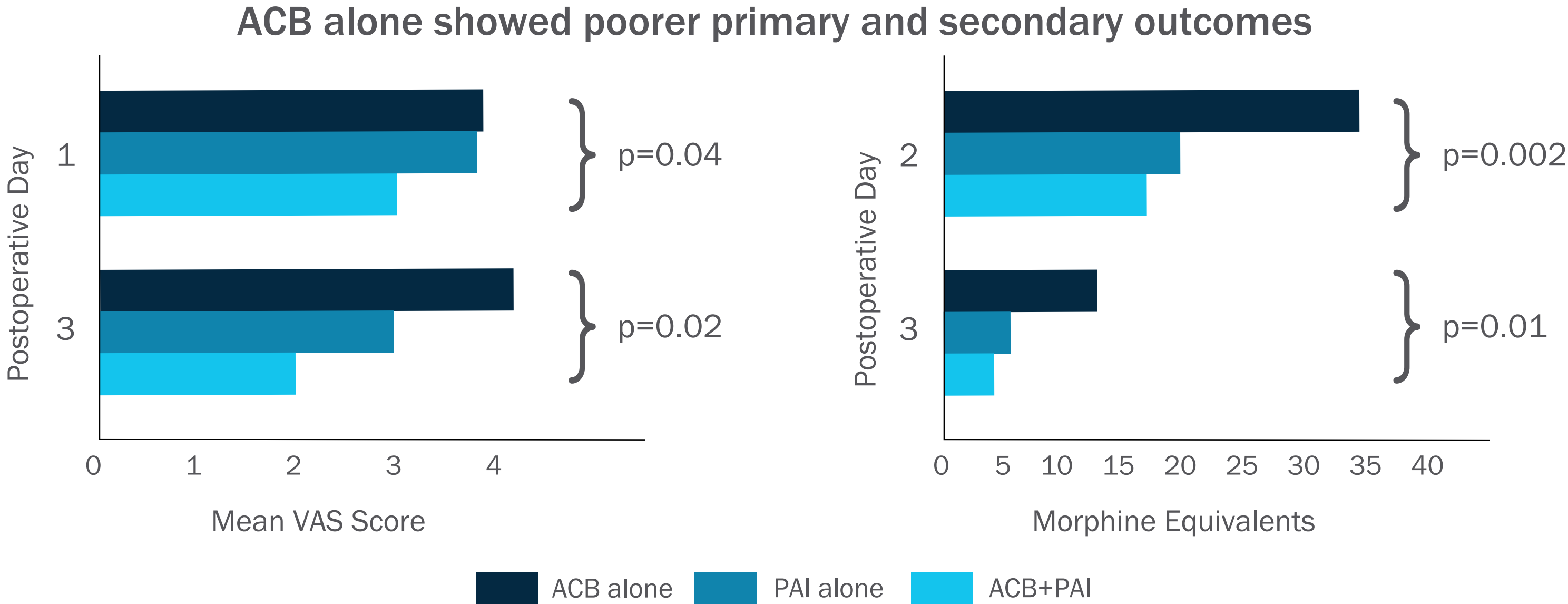
PAI alone  
n=51

ACB+PAI  
n=51

## Postoperative Outcome

Primary Visual analog scale (VAS) pain score

Secondary Postoperative opioid use, activity level during physical therapy



Average steps performed during physical activity (p<0.001)

ACB alone: 26

PAI alone: 68

ACB+PAI: 65

Compared to PAI alone or combined treatment, ACB alone is less effective in managing perioperative pain during TKA

Adductor Canal Block Compared with Periarticular Bupivacaine Injection for Total Knee Arthroplasty: A Prospective Randomized Trial

Grosso et al. (2018) DOI: 10.2106/JBJS.17.01177

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