Call for volunteers to study

Initial assessment of eligibility by telephone screening

Those fulfilling initial criteria attend visit 1:
Second and final screening – Completion of ACR modified classification of OA knee, assessment of sharp/blunt discrimination and assessment of pain VAS.

Those fulfilling selection criteria continue with visit 1:
Purpose of the study further explained (both written and verbal form).
Informed consent obtained and subject allocated identification number.
Baseline measures of WOMAC pain, stiffness and function, PGA, SF-36 and HAP.
If current X-ray needed, consent obtained and referral for X-ray written.
Accelerometer distributed to participant with instructions for use.
BMI, gender, age, disease laterality and current medication recorded.

Concealed random allocation stratified for age, gender and pain levels to group X (n = 35) or group Y (n = 35)

Visit 2: (Week 0)
Instruction on use of medication diary. Instruction on use of PES device.

Postal Contact: (Week 4)
Repeated measures of pain VAS, WOMAC pain, stiffness and function, PGA and SF-36.

Visit 3: (Week 16)
Repeat of questionnaires as per week four, plus completion of GPES and HAP. Medication diary sighted and record taken of recorded hours of use.
Accelerometer distributed with instructions for use.

Visit 4: (Week 17)
Return of accelerometer

Visit 5: (Week 26)
Return of the PES device and completed medications diary.
Repeated measures of pain VAS, WOMAC pain, stiffness and function, PGA, GPES and SF-36.
Exit from study.

Blind data analysis, code for placebo and intervention groups revealed and manuscript preparation