

## Search strategies in detail

### 1. Medline

- (1) KOA: ("Osteoarthritis, Knee"[Mesh]) OR (((((Knee Osteoarthritides) OR Knee Osteoarthritis) OR Osteoarthritides, Knee) OR Osteoarthritis Of Knee) OR Knee, Osteoarthritis Of) OR Knees, Osteoarthritis Of) OR Osteoarthritis Of Knees)
- (2) EA: "Electroacupuncture"[Mesh]
- (3) Study design: ((randomized controlled trial[Publication Type] OR randomized[Title/Abstract] OR placebo[Title/Abstract]))
- (4) TENS: (("Transcutaneous Electric Nerve Stimulation"[Mesh]) OR (((((((((Electric Stimulation, Transcutaneous[Title/Abstract]) OR Stimulation, Transcutaneous Electric[Title/Abstract]) OR Transcutaneous Electric Stimulation[Title/Abstract]) OR Percutaneous Electric Nerve Stimulation[Title/Abstract]) OR TENS[Title/Abstract]) OR Electrical Stimulation, Transcutaneous[Title/Abstract]) OR Transcutaneous Electrical Stimulation[Title/Abstract]) OR Transdermal Electrostimulation[Title/Abstract]) OR Electrostimulation, Transdermal[Title/Abstract]) OR Percutaneous Electrical Nerve Stimulation[Title/Abstract]) OR Transcutaneous Electrical Nerve Stimulation[Title/Abstract]) OR Transcutaneous Nerve Stimulation[Title/Abstract]) OR Nerve Stimulation, Transcutaneous[Title/Abstract]) OR Stimulation, Transcutaneous Nerve[Title/Abstract]) OR Percutaneous Neuromodulation Therapy[Title/Abstract]) OR Neuromodulation Therapy, Percutaneous[Title/Abstract]) OR Percutaneous Neuromodulation Therapies[Title/Abstract]) OR Therapy, Percutaneous Neuromodulation[Title/Abstract]) OR Percutaneous Electrical Neuromodulation[Title/Abstract]) OR Electrical Neuromodulation, Percutaneous[Title/Abstract]) OR Electrical Neuromodulations, Percutaneous[Title/Abstract]) OR Neuromodulation, Percutaneous Electrical[Title/Abstract]) OR Neuromodulations, Percutaneous Electrical[Title/Abstract]) OR Percutaneous Neuromodulation, Electrical Neuromodulations[Title/Abstract]) OR Analgesic Cutaneous Electrostimulation, Analgesic[Title/Abstract]) OR Cutaneous Electrostimulation, Analgesic Cutaneous[Title/Abstract]) OR Electroanalgesia[Title/Abstract]) OR Electroanalgesias[Title/Abstract]))
- (5) Celecoxib: "celecoxib" [Mesh] OR celecoxib[Title/Abstract]
- (6) Diclofenac: " diclofenac " [Mesh] OR diclofenac[Title/Abstract]
- (7) #1 AND #2 AND #3
- (8) #1 AND #3 AND #4
- (9) #1 AND #3 AND #5
- (10) #1 AND #3 AND #6

### 2. Embase

- (1) EA: ('knee osteoarthritis'/exp OR 'arthrosis, knee':ti,ab OR 'femorotibial arthrosis':ti,ab OR 'gonarthrosis':ti,ab OR 'knee arthrosis':ti,ab OR 'knee joint

arthrosis':ti,ab OR 'knee joint osteoarthritis':ti,ab OR 'knee osteo-arthritis':ti,ab OR 'knee osteo-arthrosis':ti,ab OR 'knee osteoarthritis':ti,ab OR 'knee osteoarthrosis':ti,ab OR 'osteoathritis, knee':ti,ab OR 'osteoaarthrosis, knee':ti,ab)

AND ('electroacupuncture'/exp OR 'acupuncture, electric' OR 'electric acupuncture' OR 'electroacupuncture')

AND ('randomized controlled trial'/exp OR 'controlled trial, randomized' OR 'randomised controlled study' OR 'randomised controlled trial' OR 'randomized controlled study' OR 'randomized controlled trial' OR 'trial, randomized controlled')

(2) TENS: ('knee osteoarthritis'/exp OR 'arthrosis, knee':ti,ab OR 'femorotibial arthrosis':ti,ab OR 'gonarthrosis':ti,ab OR 'knee arthrosis':ti,ab OR 'knee joint arthrosis':ti,ab OR 'knee joint osteoarthritis':ti,ab OR 'knee osteo-arthritis':ti,ab OR 'knee osteo-arthrosis':ti,ab OR 'knee osteoarthritis':ti,ab OR 'knee osteoarthritis':ti,ab OR 'knee osteoarthrosis':ti,ab OR 'osteoathritis, knee':ti,ab OR 'osteoaarthrosis, knee':ti,ab) AND

('transcutaneous electrical nerve stimulation'/exp OR 'tens (transcutaneous electrical nerve stimulation)':ti,ab OR 'electrostimulation, transcutaneous':ti,ab OR 'nerve stimulation, transcutaneous':ti,ab OR 'percutaneous electric nerve stimulation':ti,ab OR 'percutaneous electrical nerve stimulation':ti,ab OR 'transcutaneous electric nerve stimulation':ti,ab OR 'transcutaneous electrical stimulation':ti,ab OR 'transcutaneous electrostimulation':ti,ab OR 'transcutaneous nerve stimulation':ti,ab)

AND ('randomized controlled trial'/exp OR 'controlled trial, randomized' OR 'randomised controlled study' OR 'randomised controlled trial' OR 'randomized controlled study' OR 'randomized controlled trial' OR 'trial, randomized controlled')

(3) Celecoxib: ('knee osteoarthritis'/exp OR 'arthrosis, knee':ti,ab OR 'femorotibial arthrosis':ti,ab OR 'gonarthrosis':ti,ab OR 'knee arthrosis':ti,ab OR 'knee joint arthrosis':ti,ab OR 'knee joint osteoarthritis':ti,ab OR 'knee osteo-arthritis':ti,ab OR 'knee osteo-arthrosis':ti,ab OR 'knee osteoarthritis':ti,ab OR 'knee osteoarthritis':ti,ab OR 'knee osteoarthrosis':ti,ab OR 'osteoathritis, knee':ti,ab OR 'osteoaarthrosis, knee':ti,ab)

AND (' celecoxib '/exp)

AND ('randomized controlled trial'/exp OR 'controlled trial, randomized' OR 'randomised controlled study' OR 'randomised controlled trial' OR 'randomized controlled study' OR 'randomized controlled trial' OR 'trial, randomized controlled')

(4) Diclofenac: ('knee osteoarthritis'/exp OR 'arthrosis, knee':ti,ab OR 'femorotibial arthrosis':ti,ab OR 'gonarthrosis':ti,ab OR 'knee arthrosis':ti,ab OR 'knee joint arthrosis':ti,ab OR 'knee joint osteoarthritis':ti,ab OR 'knee osteo-arthritis':ti,ab OR 'knee osteo-arthrosis':ti,ab OR 'knee osteoarthritis':ti,ab OR 'knee osteoarthritis':ti,ab OR 'knee osteoarthrosis':ti,ab OR 'osteoathritis, knee':ti,ab OR 'osteoaarthrosis, knee':ti,ab)

AND (' diclofenac '/exp)

AND ('randomized controlled trial'/exp OR 'controlled trial, randomized' OR 'randomised controlled study' OR 'randomised controlled trial' OR 'randomized controlled study' OR 'randomized controlled trial' OR 'trial, randomized controlled')

### 3. Cohance library

Search terms similar to Embase.

#### 4. Web of Science

KOA: #1 TS=(Osteoarthritis, Knee) OR TS=(Knee Osteoarthritides) OR TS=(Knee Osteoarthritis) OR TS=(arthrosis, knee) OR TS=(gonarthrosis) OR TS=(knee arthrosis) OR TS=(knee joint arthrosis) OR TS=(knee osteoarthritis) OR TS=(knee osteoarthrosis) OR TI=(Osteoarthritis, Knee) OR TI=(Knee Osteoarthritides) OR TI=(Knee Osteoarthritis) OR TI=(arthrosis, knee) OR TI=(gonarthrosis) OR TI=(knee arthrosis) OR TI=(knee joint arthrosis) OR TI=(knee osteoarthritis) OR TI=(knee osteoarthrosis)  
EA: #2 TS=(electroacupuncture) OR TS=(electric acupuncture) OR TI=(electroacupuncture) OR TI=(electric acupuncture)

Study design: #3 TS=(randomized controlled trial) OR TS=(randomized) OR TS=(randomised controlled study) OR TI=(randomized controlled trial) OR TI=(randomized) OR TI=(randomised controlled study)

TENS: #4 TS=(transcutaneous electrical nerve stimulation) OR TS=(electrostimulation, transcutaneous) OR TS=(nerve stimulation, transcutaneous) OR TS=(percutaneous electric nerve stimulation) OR TS=(percutaneous electrical nerve stimulation) OR TS=(transcutaneous electric nerve stimulation) OR TS=(transcutaneous electrical stimulation) OR TS=(transcutaneous electrostimulation) OR TS=(transcutaneous nerve stimulation) OR TS=(TENS)

Celecoxib: #5 TS=(celecoxib) OR TI=(celecoxib)

Diclofenac: #6 TS=(diclofenac) OR TI=(diclofenac)

(1) #1 AND #2 AND #3

(2) #1 AND #3 AND #4

(3) #1 AND #3 AND #5

(4) #1 AND #3 AND #6

#### 5. CNKI/ Wanfang/ VIP (Chinese databases)

EA: 主题：电针 OR 摘要：电针 OR 题目：电针

AND 摘要：随机 OR 摘要：临床 OR 摘要：对照

AND 主题：膝骨关节炎 OR 题目：膝骨关节炎 OR 摘要：膝骨关节炎

TENS: 主题：经皮神经电刺激 OR 摘要：神经电刺激

AND 摘要：随机 OR 摘要：临床 OR 摘要：对照

AND 主题：膝骨关节炎 OR 题目：膝骨关节炎 OR 摘要：膝骨关节炎