

## 2014 Index by Key Words

### A

- abdominal  
 cancer ..... 255  
 pain..... E623, E755  
 abuse of opioids ..... E119  
 acetaminophen ..... 353  
 ACNES..... E623  
 active-controlled trial ..... E61  
 acute  
 care hospitals ..... 369  
 pain patients ..... E349  
 adalimumab..... E27  
 addiction ..... E437  
 adherence..... 81  
 adhesive capsulitis..... E769  
 adverse  
 drug events ..... 205  
 effects ..... 297  
 aged 50 – 70 ..... 217  
 agency for Healthcare Research and Quality (AHRQ)..... 369  
 alcohol..... E755  
 allodynia ..... 187  
 amitriptyline..... 187  
 analgesia ..... 255, E225  
 androgen deficiency..... E543  
 anesthesia..... E225, 255  
 residency training ..... E681  
 antihyperalgesia..... E225  
 anti-ngf ..... E45  
 anti-platelet ..... E385  
 anti-TNF..... E27  
 arthritic  
 knee ..... 197  
 pain..... 197  
 arthritis treatment..... 197  
 audit ..... 415  
 auditory phantom perception..... E95
- B**
- back pain..... E45  
 benzodiazepine..... 359  
 beta3-tubulin ..... 465  
 biologics ..... E27  
 biophysiologic assessment..... 197  
 bone  
 metastases ..... 227  
 mineral density ..... E737  
 pain..... 227  
 botulinum toxin ..... 507  
 breast cancer surgery..... E589  
 bupivacaine ..... E75
- C**
- calcitonin ..... E229  
 calcium phosphates ..... E737  
 cancer..... 227  
 associated pain..... E83  
 pain..... 329, E755  
 capsaicin ..... E213  
 catheter  
 ablation..... E175  
 position ..... E599  
 caudal epidural ..... E691  
 cementoplasty ..... E737  
 central  
 cord syndrome..... E629  
 spinal stenosis ..... E475, E691  
 cerebrospinal fluid leakage..... E89, E381  
 cervical ..... 139, 487  
 disc herniation..... 139  
 epidural injection..... 155, E761  
 space..... 163  
 facet joints ..... 265  
 interlaminar epidural steroid injection ..... E385  
 medial branch block ..... E95  
 pain..... E95  
 selective nerve root block ..... 139  
 spine ..... 291  
 change posture ..... 345  
 chemical denervation ..... E219  
 chest wall pain..... E327  
 children ..... 109  
 chronic  
 abdominal pain ..... E619  
 back pain ..... 9  
 constriction injury ..... 187  
 drug use ..... 205  
 headache (CH)..... E89  
 low back pain..... E475, E489  
 migraine ..... E369  
 non-cancer pain ..... E437  
 nonmalignant pain ..... E543  
 pain..63, 81, 329, 401, 447, 507, E89, E219, E235, E359, E375, E451, E709  
 management..... 109  
 patients ..... E349  
 procedures ..... E681  
 pelvic pain ..... E141  
 refractory pain ..... 53  
 shoulder pain ..... E769  
 spinal pain..... E129  
 thoracic pain ..... E327  
 classification ..... 447  
 cluster headache..... E537  
 clusters ..... E349  
 coccyx..... E229  
 Cochrane Reviews..... E263, E291  
 cognitive dysfunction ..... 9  
 cold pain..... 71  
 community patients without pain..... E349  
 comorbid symptoms ..... E349  
 comparative effectiveness research..... E263, E291  
 complex regional pain syndrome (CRPS) ..71, 127, 179, 235, E629, E637  
 compliance ..... 63, 359  
 complication (s) ..... E219, E451, E405, 297  
 rate ..... E149

(contained) herniated discs..... E149  
 contrast ..... 487  
 conventional radiofrequency ablation..... E175  
 cortical  
   maps ..... E637  
   plasticity ..... E99, E637  
   reorganization ..... E637  
 corticosteroid ..... 291  
 Craniofacial pain ..... 95  
 critical access hospitals ..... 369  
 critical limb ischemia ..... 235  
 CT ..... 507  
   guided ..... 487  
 cylindrical electrode ..... E397  
 cytokines ..... 305  
 cytotoxic effect ..... E609

**D**

deafferentation pain ..... E99  
 degenerative ..... 525  
 dependency ..... E437  
 depression ..... E359  
 development ..... 95  
 dexmedetomidine ..... 187, 393, E589  
 diagnosis ..... 447  
 Digital subtraction angiography ..... 17  
 disability ..... 95  
 disc herniation ..... E327, E489  
 discogenic  
   lumbar radiculopathy ..... E27  
   pain ..... E327  
 diversion ..... 63  
 dorsal root ganglion (DRG) ..... 477  
   sensory neurons ..... E609  
 dorsal sacral rami ..... 459  
 drug  
   abuse ..... 63  
   interactions ..... 425

**E**

Economics of interventional pain medicine ..... E253  
 effects ..... 109  
 efficacy ..... 329  
 elbow pain ..... 145  
 electrical  
   equipment and supplies ..... E175  
   neuromodulation ..... E531, E537  
 electrode behavior ..... E175  
 endocrine dysfunction ..... E543  
 endoscopic discectomy ..... E703  
 epidemiology ..... E141, 379  
 epidural ..... 139, 487  
   block ..... 525  
   blood patch ..... E381, E405  
   fibrosis ..... 465  
   injections ..... E451, E475  
   motor cortex stimulation ..... 53  
   space ..... 155  
   spread ..... E219  
   steroid injection ..... 119, 277, E129  
   steroids ..... 277, E451, E509  
 epiduroscopy ..... 465

equivalence clinical trial ..... 277  
 esophagectomy ..... 305  
 etanercept ..... E27  
 etiologic factor ..... E747  
 evidence-based medicine ..... E263

**F**

facet joint ..... 291, 297  
 failed back surgery syndrome ..... 235, 465  
 fellowship training ..... E681  
 female ..... E141  
 femoral nerve supply ..... E709  
 femoroplasty ..... 227  
 finite element computer study ..... 43  
 fluoroscopic injection ..... 297  
 fluoroscopy ..... 291, E681  
 fluoxetine ..... E385  
 Food and Drug Administration ..... E437  
 fractures ..... E229  
 function ..... 179

**G**

gabapentin ..... 169  
 genetic testing ..... 425  
 genetics ..... 425  
 Gralise ..... 169  
 great  
   auricular nerve ..... E531  
   neuralgia ..... E531  
   occipital nerve ..... E709  
   blockade ..... 29  
   trochanteric pain syndrome ..... E775  
 guidelines ..... 401

**H**

HCAHPS ..... 369  
 headache ..... 95, E531  
 health ..... 217  
 heat pain ..... 71  
 hemiparesis ..... E761  
 high  
   cervical spinal cord stimulation ..... E537  
   frequency stimulation ..... 235  
   school player ..... E747  
   sensitivity immunoassay ..... 359  
 Hilton's Law ..... 493  
 histology ..... E737  
 hospital-based ambulatory practice ..... E253  
 human ..... E141  
 hyaluronidase ..... E75  
 hydrocodone ..... 353  
 hyperalgesia ..... 127, 187  
 hypersensitivity ..... 447, 353

**I**

ice hockey ..... E747  
 immunofluorescence ..... 465  
 implantable  
   devices ..... E681  
   pain therapies ..... E405  
 implanted spinal infusion ..... E89

## Key Word Index

|  |                |
|--|----------------|
| inappropriate use of opioids.....                  | E119           |
| infants .....                                      | 109            |
| infiltrations .....                                | 291            |
| inflammation .....                                 | 127, E719      |
| infrapatellar branch.....                          | E339           |
| intercostal block.....                             | E219           |
| interlaminar .....                                 | 139, 277, E509 |
| injection .....                                    | 247            |
| International Narcotics Control Board (INCB) ..... | E119           |
| interventional                                     |                |
| oncology .....                                     | 317            |
| pain management .....                              | E709, E755     |
| pain procedures.....                               | E645           |
| techniques.....                                    | E129, E291     |
| intracranial hypotension.....                      | E381           |
| intractable migraine .....                         | E369           |
| intrathecal .....                                  | 255            |
| drug delivery .....                                | E405, E543     |
| opioid.....  | E543           |

### J

|                       |     |
|-----------------------|-----|
| Joint Commission..... | 205 |
|-----------------------|-----|

### K

|                  |      |
|------------------|------|
| ketorolac .....  | E385 |
| knee             |      |
| innervation..... | 493  |
| pain.....        | 493  |
| surgery.....     | 493  |
| knowledge.....   | 217  |

### L

|                                       |  |
|---------------------------------------|--|
| Latin America.....                    | 379  |
| laxatives.....                        | 415  |
| LC-MS/MS .....                        | 359  |
| length of stay.....                   | E503   |
| lesser occipital nerve .....          | E709   |
| levobupivacaine .....                 | 525  |
| ligamentum flavum.....                | 155  |
| stimulation .....                     | E397   |
| liposomes .....                       | E719   |
| local anesthetic.....                 | E61, E327, E451, E489, E475, E691              |
| long-term neurocognitivy.....         | 109  |
| effect of pressure.....               | 197  |
| opioid therapy.....                   | 9  |
| loss of resistance technique.....     | 155  |
| low back pain .....                   | 43, E27, E75, E175, 247, 277 379, 459, 235 217 |
| lower extremity pain .....            | E489   |
| lumbar.....                           | 247  |
| disc disease .....                    | E599   |
| disc herniation.....                  | E61  |
| epidural injection.....               | E75  |
| epidural steroid injection .....      | 247  |
| interlaminar epidural injections..... | E61, E691                                      |
| radiculitis.....                      | E61  |
| surgery.....                          | 465  |
| vertebrae.....                        | E175   |
| vertebrae/innervation.....            | E175   |
| lumbosacral .....                     | 247  |
| radicular pain .....                  | 277  |

### M

|   |                             |
|---|-----------------------------|
| magnetic resonance imaging .....        | 163                         |
| major joint arthroplasty .....          | 515                         |
| malignant pain.....                     | 329                         |
| MCS .....                               | 53                          |
| mechanical sensitivity.....             | 353                         |
| medical                                 |                             |
| necessity.....                          | E437                        |
| use of opioids.....                     | E119                        |
| medication compliance .....             | 81                          |
| meningeal puncture headache .....       | E405                        |
| mental nerve.....                       | E375                        |
| meta-analysis.....                      | E27                         |
| methodological quality assessment ..... | E263, E291                  |
| Methylprednisolone acetate .....        | E609                        |
| midline approach .....                  | 155                         |
| Migraine.....                           | 1                           |
| headache .....                          | E537                        |
| minimal detectable change .....         | 95                          |
| minimally invasive .....                | E703                        |
| misuse .....                            | E437                        |
| mobility .....                          | 291                         |
| morphine.....                           | 255                         |
| CR .....                                | 329                         |
| dose equivalents.....                   | 205                         |
| motor cortex stimulation.....           | E99                         |
| multifunctional electrode .....         | 477                         |
| multiple abdominal surgeries .....      | E619                        |
| musculoskeletal                         |                             |
| pain.....                               | 145                         |
| procedures .....                        | E681                        |
| myelography.....                        | E381                        |
| myelopathy.....                         | E219                        |
| myristylgamma-picolinium chloride ..... | E609                        |
| naloxone.....                           | 415                         |
| national comparison of hospitals.....   | 369                         |
| neck pain.....                          | 95, 139                     |
| nerve ablation .....                    | E375                        |
| fibers.....                             | 465                         |
| growth factor .....                     | E45                         |
| stimulation .....                       | E645                        |
| neuraxial injection.....                | E385                        |
| neurolysis.....                         | E219, E755                  |
| neuromodulation .....                   | 29, E537, E619, E769        |
| neuromuscular feedback .....            | 43                          |
| neuropathic .....                       | E213                        |
| knee pain .....                         | E339                        |
| pain.....                               | 53, 169, 187, 447, 477, E95 |
| management.....                         | E99                         |
| neuropathy .....                        | E375                        |
| neurostimulation.....                   | E531                        |
| non-cancer pain.....                    | 401                         |
| non-inferiority.....                    | 329                         |
| Non-malignant pain .....                | 415                         |
| nonrandomized trials .....              | E291                        |
| NRS .....                               | 477                         |
| NSAID.....                              | 81                          |
| nucleoplasty.....                       | E149                        |

**O**

observational studies..... E291  
 obturator nerve..... E83  
 occipital  
   headache ..... E381  
   nerve stimulation..... 29, E369  
   neuralgia ..... E709  
 oncology..... 317  
 one lung ventilation ..... 305  
 ONS ..... E369  
 operamide ..... E719  
 opioid  
   analgesics..... 205  
   epidemic ..... 205  
   medication ..... 109  
   metabolism ..... 425  
   receptors ..... 425  
   risk evaluation ..... 425  
   rotation ..... 401  
   therapy..... 401  
   tolerance ..... E503  
   tolerant patient population..... E503  
   tolerant patients..... E503  
 opioid-induced  
   constipation ..... 415  
   hyperalgesia ..... 353  
 opioid-related fatalities ..... E119  
 opioids..... 63, E225, 255, E437, E719  
 oral fluid drug testing ..... 63  
 osseous metastasis..... 317  
 osteoarthritis..... 493  
 osteoconduction ..... E737  
 osteopontin ..... 465  
 osteoporosis ..... E737  
 Oswestry Disability Index (ODI)..... E149  
 outcomes assessment ..... E475  
 outpatients ..... 525  
 oxycodone ..... 415

**P**

paddle electrodes..... E397  
 pain ..145, E149, E213, E229, 205, 227, E405, 291, 317, 353,  
   507, E719  
   behavior assessment..... 197  
   catastrophizing..... 265  
   management..... 317, 359, 369, 401 E599  
   medicine ..... 139, E681  
   procedures ..... E405  
   related decision-making..... 515  
   scores..... 369  
 paramedian approach ..... 155  
 paraparesis ..... E219  
 parasagittal..... 277  
 paravertebral block ..... E589  
 Parecoxib ..... 127  
 patient  
   perception..... 369  
   provider interactions..... 515  
 pediatric  
   cancer surgery ..... 393  
   patients..... E623

pediatrics..... 109  
 pelvic  
   belt intervention ..... 43  
   biomechanics ..... 43  
   pain..... E645  
 percutaneous  
   adhesiolysis ..... E129  
   cryodestruction..... E339  
   electrodes..... E397  
   epidural neuroplasty ..... E599  
 perioperative pain..... E385  
 peripheral  
   nerve field stimulation ..... 235  
   stimulation ..... 29, E369, E769  
   stimulator ..... E645  
   opioid receptors ..... E719  
   sensitization ..... 493  
 phenol ..... E219  
 physician-office based practice..... E253  
 piriformis ..... 507  
 plasma disc decompression ..... E149  
 platelet-rich plasma..... E737  
 PNS ..... E369  
 polyethylene glycol ..... E609  
 polymethyl methacrylate ..... E737  
 positron emission tomography ..... E99  
 post  
   dural puncture headache..... 119, E405  
   operative analgesia..... E589  
   surgery syndrome ..... E129  
   surgical pain intensity ..... 515  
   headache ..... E537, E531  
   stress disorder..... 265, E213  
 predictive  
   analysis..... 515  
   value ..... 53  
 prednisolone..... 179  
 prescription drugs ..... 205  
 preservatives ..... E609  
 pressure ..... 127  
   effect ..... 197  
   pain threshold ..... 127  
   paresthesia ..... 247  
 presurgical pain catastrophizing ..... 515  
 prevalence ..... E141, 379  
 PRF ..... 477, E709  
 PRlr-T ..... 477  
 Prophylaxis..... 1  
 propofol ..... E225  
 propoxyphene..... 205  
 provider-based ambulatory practice..... E253  
 provocation ..... 247  
 psychological  
   distress ..... 265  
   factors..... 515  
 psychology..... 265  
 psychometric validation..... 95  
 pulsed radiofrequency..... E709  
   treatment of nerves to knee joint..... 493

## Key Word Index

### Q

|                                   |         |
|-----------------------------------|---------|
| QST .....                         | 71      |
| quality of life.....              | 53, 179 |
| quantitative sensory testing..... | 71, 127 |
| questionnaire.....                | 95      |

### R

|   |                          |
|---|--------------------------|
| radicular artery.....                             | E451                     |
| radicular pain.....                               | 169, 477                 |
| radiculitis .....                                 | E327, E489, E691         |
| radiculomedullary artery.....                     | 139                      |
| radiculopathy.....                                | E45, E509                |
| radiofrequency.....                               | E175, E375               |
| ablation.....                                     | E83, E95, E175, 317, 459 |
| neurotomy .....                                   | 265                      |
| radiosotope cisternography (RICG).....            | E89                      |
| randomized  |                          |
| controlled trial.....                             | E61                      |
| trials.....                                       | E475                     |
| rat .....   | 187                      |
| readmission rates .....                           | E503                     |
| rechargeable systems .....                        | 345                      |
| reduction .....                                   | E149                     |
| refractory angina pectoris .....                  | 235                      |
| regional nerve blocks .....                       | E681                     |
| reliability .....                                 | 95                       |
| repetitive transcranial magnetic stimulation..... | 53                       |
| rescue analgesia.....                             | 515                      |
| risk of bias assessment.....                      | E263, E291               |
| ropivacaine .....                                 | 525                      |
| rTMS .....  | 53                       |

### S

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| sacral neurostimulation .....        | E645                                  |
| sacroiliac joint                     |                                       |
| ligaments .....                      | 43                                    |
| motion .....                         | 43                                    |
| pain.....                            | 459                                   |
| saliva .....                         | 63                                    |
| sciatica.....                        | E45, E27, 507                         |
| screening .....                      | 359                                   |
| sensor generation .....              | 345                                   |
| shoulder pain.....                   | 145                                   |
| side effects .....                   | E543                                  |
| skin incisions knee surgery .....    | E339                                  |
| socioeconomic factors.....           | 217                                   |
| somatic symptoms .....               | E349                                  |
| spinal                               |                                       |
| cord .....                           | E761                                  |
| injury.....                          | E629                                  |
| stimulation .....                    | 235, 345                              |
| disease with sciatica .....          | 525                                   |
| stenosis .....                       | 169, E129                             |
| subarachnoid hematoma .....          | E405                                  |
| spine .....                          | E45, 317                              |
| spondylolisthesis .....              | E703                                  |
| spontaneous                          |                                       |
| epidural hematoma .....              | E385                                  |
| intracranial hypotension (SIH) ..... | E89                                   |
| steroid (s).....                     | E75, E61, 247, E327, E475, E489, E691 |
| injection .....                      | 297                                   |

|  |              |
|--|--------------|
| stiffness .....                            | 493          |
| stimulation.....                           | E369         |
| suicide .....                              | E359         |
| SUNA.....                                  | 29           |
| SUNCT.....                                 | 29           |
| suprascapular nerve .....                  | E769         |
| surgical management of pain.....           | E645         |
| sympathetic block (SB) .....               | E637         |
| sympathetically maintained pain (SMP)..... | E637         |
| symptom clusters.....                      | E349         |
| systematic review.....                     | 1, E27, E509 |

### T

|   |                           |
|---|---------------------------|
| TAP block.....                              | E623, E755                |
| Tapentadol PR.....                          | 329                       |
| temporomandibular disorders .....           | 95                        |
| tennis elbow .....                          |                           |
| thermal                                     |                           |
| hyperalgesia .....                          | 71                        |
| sensitivity.....                            | 353                       |
| thoracic                                    |                           |
| epidural analgesia proinflammatory .....    | 305                       |
| interlaminar epidural injections .....      | E327                      |
| threshold                                   |                           |
| discomfort.....                             | 345                       |
| perception.....                             | 345                       |
| timing of therapy .....                     | 119                       |
| tinnitus .....                              | E95, E405                 |
| TNF E27                                     |                           |
| tolerability.....                           | 329                       |
| tolerance .....                             | E437                      |
| Tonabersa .....                             | 1                         |
| topical                                     |                           |
| drug delivery .....                         | E719                      |
| lidocaine.....                              | E629                      |
| total knee arthroplasty .....               | E339                      |
| toxicological analyses.....                 | 81                        |
| tramadol.....                               | 187                       |
| transcranial magnetic stimulation.....      | E99                       |
| transforaminal .....                        | 139, 277, 291, E509, E703 |
| epidural .....                              | E509, E691                |
| steroid injection (TFESI) .....             | 487                       |
| injections.....                             | E489                      |
| steroid injections .....                    | 17                        |
| transverse                                  |                           |
| abdominis plane.....                        | E619                      |
| block .....                                 | E619                      |
| myelitis.....                               | E219                      |
| transversus abdominis plan place block..... | E755                      |
| treatment .....                             | E45                       |
| guidelines.....                             | 217                       |
| trigeminal                                  |                           |
| autonomic cephalalgias .....                | 29                        |
| neuralgia.....                              | 29                        |
| trigemino-cervical complex.....             | E537                      |
| trochanteric bursitis .....                 | E775                      |
| tumor .....                                 | 317                       |
| necrosis factor-alpha.....                  | E27                       |
| antagonists.....                            | E27                       |
| tumoral calcinosis .....                    | E775                      |
| tumor-related pain .....                    | 329                       |

**U**

ultrasonography..... 507  
ultrasound.....E619, E755  
    guidance ..... E681, 507  
unwanted stimulation..... E397  
urine drug testing..... 63, 81, 425

**V**

ventral ..... E599  
vertebra ..... E737  
vertebral  
    artery ..... 139  
    augmentation..... 317  
vicodin..... 353  
visual analog scale (VAS) ..... E149

**W**

water-cooled radiofrequency ablation ..... E175  
wet tap..... 119  
whiplash ..... 265  
women..... E141  
workability..... 145  
wrist ..... 145

**Z**

ziconotide..... E405  
Zohydro..... E437  
zygapophyseal joint ..... E175, 297