Understanding Acupuncture and its Role in Comprehensive Approach to Cancer Management

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Consider this scenario

had a had a

Interfection



•Fascia

•Nerves









Piezoelectricity



Piezoelectricity in the body















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Pain signals sent along acute and chronic pain fibres



Gate in spinal cord is open, so pain messages get through to the brain



Pain signals are still sent via acute and chronic

pain fibres





Rubbing the injury sends messages along touch and pressure fibres

Messages from touch Th and pressure fibres activate the gating n nerve cell in the spinal cord

The gate in the spinal cord is closed, so no pain messages get through to the brain

Transmission/Perception of Pain









http://drrajivdesaimd.com/wp-content/uploads/2012/04/pain-model.png



Slightly larger than a human head medium-coarse hair (0.15mm)



Acupuncture

- Increases blood flow (end products of NO)
- Peripheral somatic/autonomic nerve stimulation (increased/decreased sweat production)
- Connective tissue stimulation
- Muscle strength (bilateral effect)
- Low frequency & high intensity \rightarrow Endorphins
- Buffering effect

Side effects of acupuncture vs pain medications

Very Common: Drowsiness 32% Needle discomfort 26% Sudden change of emotions, crying, laughing, erratic behavior 10% Redness or Irritation 7% Hematoma 1% Faintness 1% Pneumothorax 1 in 1.27 million

Jindal et al

Very Common: Drowsiness (28%)

Common (1% to 10%): Respiratory depression, Dizziness, sedation, fever, anxiety, confusion, tremor, diaphoresis, lethargy, feeling of warmth, Dry mouth, constipation, nausea, diarrhea, anorexia, abdominal pain, vomiting, Anemia, leukopenia, Asthenia, accidental injury, Rash, peripheral edema

Uncommon (0.1% to 1%): Withdrawal symptoms after either abrupt cessation or fast tapering of the drug, headache, chills, flu syndrome, malaise, withdrawal syndrome, pallor, facial flushing, syncope, loss of concentration, insomnia, amnesia, paresthesia, agitation, vertigo, foot drop, ataxia, hypesthesia, slurred speech, hallucinations, euphoria, apathy, seizures, myoclonus, Hiccup, rhinitis, atelectasis, asthma, hypoxia, voice alteration, depressed cough reflex, noncardiogenic pulmonary edema, bronchospasm, Dysphagia, dyspepsia, stomach atony disorder, gastroesophageal reflux, delayed gastric emptying, biliary colic, increased gastroesophageal reflux, intestinal obstruction, Chest pain, Tachycardia, atrial fibrillation, hypertension, hypotension, palpitations, bradycardia, vasodilation, Abnormal thinking, abnormal dreams, depression, fearfulness, agitation, paranoia, psychosis, hypervigilance, hallucinations, delirium, Urinary abnormality, urinary retention, urinary hesitancy, Thrombocytopenia, Hyponatremia due to inappropriate ADH secretion, gynecomastia, amenorrhea, reduced libido, reduced potency, prolonged labor, Back pain, bone pain, arthralgia

Frequency not reported: Opioid-induced involuntary muscle hyperactivity with chronic high doses, Decubitus ulcer, pruritus, skin flush, Amblyopia, conjunctivitis, miosis, blurred vision, nystagmus, diplopia, Increases in hepatic enzymes, Hyponatremia

Very rare (less than 0.01%): Hypersensitivity reactions, anaphylaxis

Frequency not reported: Inflammatory masses including granulomas (some of which have resulted in serous neurologic impairment including paralysis) in patients receiving continuous infusion of opioids via indwelling intrathecal catheter









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How to find practitioners

- NCCAOM
 - http://mx.nccaom.org/FindAPractitioner.aspx
- AAAOM
 - http://www.aaaomonline.org/search/custom.asp?id=320
- Maryland Acupuncture Society
 - http://mas.wildapricot.org/findanacupuncturist
- American Board of Acupuncture (Physicians)
 - http://www.dabma.org/physicians.asp
- American Academy of Medical Acupuncture (Physicians)
 - http://www.medicalacupuncture.org/Find-an-Acupuncturist

Thank you!

"The cure of the part should not be attempted without the whole." - Plato