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Hospital Pain Management

Drug dependence, Surgery and Implementing a Team

Matthew Jared, MD

Associate Chief Hospitalist, St. Anthony Hospital Matthew.Jared@ssmhealth.com

Learning Objectives

- Review obstacles in drug dependent patients
- Principles of treating pain in opioid dependence
- Review risk factors for development of dependence in peri-operative care
- Evaluate effective strategies for creating hospital pain control policies



- Common area of discomfort for providers
 - Transference and Countertransference
- What is important to assess
 - Medications, OTCs, Illicit substances
 - Opioid substitution therapy
 - Improper use of prescription
 - Infections
 - Social and Support Systems



- Approximate Detection Potential of Urine Drug Screen
 - Buprenorphine and metabolites: 8 days
 - Methadone maintenance: 7-8 days
 - Cocaine metabolite: 48-72hrs
 - Heroin (morphine, codeine, dihydrocodeine and propoxyphene): 48hrs
 - Cannabinoids, single use: 3-4d
 - Cannabinoids, heavy or chronic use: up to 45days
 - Amphetamines: 48 hrs
 - Benzodiazepine (Midazolam): 12hr
 - Benzodiazepine (Diazepam): over 7 days



Opioid Dependent Patient Treatment decision model

- Environment
 - Perspective is important
- Establish misuse
 - Injecting oral forms
- Analgesic plan
 - Optimize non-opioids, continue outpatient therapy
 - Opioid substitution therapy (OST)
- Withdrawal Management
- Multidisciplinary discharge planning



- 3 Obstacles to Effective Pain Therapy
 - Opioid-induced hyperalgesia
 - Multiple risk factors
 - Ketamine attenuates
 - May last several months
 - Opioid Tolerance
 - Confirm doses
 - May require higher doses



- 3 Obstacles to Effective Pain Therapy-Continued
 - Opioid Withdrawal
 - Heightened stress response
 - Sympathetic Stimulation
 - #1 treatment is prevention
 - Early reduction of IV opioids
 - Subcutaneous or oral therapy



Discharge planning

- Early planning
- Clear communication
- Outpatient providers



Chronic Pain

- Chronic Post-Surgical Pain Syndrome
 - Surgery dependent
 - Amputation, Inguinal herniotomy, Mastectomy, Cesarean Section
 - Risk Tools are inconsistent
 - Identify risk factors pre-operatively
 - Younger, female, chronic pain, surgery type
 - Post-operative Pain Severity also high risk



Chronic Pain

- Post-surgical period
 - Endocrine changes
 - High dose Milligram morphine equivalents
 - Ketamine may not change this
 - Anti-inflammatory response
 - Studied in specific surgeries
 - Multimodal treatment maximizes effect
 - Immunosuppression
 - Temporary
 - Metastatic cancer risk



Implementing Pain Management

Develop a team

- Champion
- Experts, Nursing, Pharmacy, Physicians

Set goals

- Develop Vision
- Set plan to achieve Vision
 - PDCA
- Obtain support from stakeholders
 - Getting to Yes, Roger Fisher and William Ury
 - True North: Discover Your Authentic Leadership, Bill George



Implementing Pain Management

- Write policies to support the change
 - After extended review
 - Create a safe environment for comment and criticism
 - Plan reevaluation



Implementing Pain Management

Top 3 Goals

- Keep patient safe
 - Reduce ADEs
 - Reduce dependence
- Provide comfort
 - Provide pain relief
 - Treat underlying psychiatric disease
- Include multiple lines of treatment
 - Broaden your treatment options
 - Delineate how to access care



Citations

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