

# Screening in Trauma for Opioid Misuse Prevention (STOMP)

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WISCONSIN  
PARTNERSHIP  
PROGRAM



# Patient Case

- **27 yo male**
- **Multiple pain issues related to athletic injuries**
- **Hydrocodone-acetaminophen provided initial pain relief, but use escalated to “a months worth in two days”**
- **Unhealthy levels of alcohol use**
- **Seizure attributed to substance use/withdrawal**
- **Sustained recovery x ~20 years**

- **Medical team literally invested in his physical health**
- **Escalating opioid dose while under exceptionally close medical supervision**
- **NFL MVP: 1995, 1996, and 1997**
- **1996: banned by NFL from drinking alcohol, 46 pre-season days in rehab**
- **1997: Won Superbowl**



# Significance

- **Opioid misuse, addiction, and overdose are epidemic in U.S. and WI**  
(CDC.gov; WI Interactive Statistics on Health, DHS)
- **Victims of traumatic injury are at increased risk for opioid misuse and addiction**  
(Helmerhorst 2014, Lankenau 2012)
- **Workflows and interventions to prevent opioid-related harm in trauma victims remain uninvestigated**

# STOMP Study Aims

- 1. Measure putative risk factors for opioid misuse and addiction in a sample of patients w/ traumatic injury**
- 2. Develop a screening tool to predict opioid addiction risk after traumatic injury**
- 3. Pilot implementation of the developed screen in 4 Wisconsin Trauma Centers**

# Investigative Team

- **Trauma Surgery** (Agarwal, Turpin)
- **Addiction Medicine** (Brown, Nicholas)
- **Psychology** (Nicholas)
- **Population Health** (Brown, Deyo)
- **Social Work** (Glass)
- **Industrial & Systems Engineering** (Quanbeck)
- **Biostatistics** (Hetzl, Glass)
- **Community Partners**  
(Gundersen, Marshfield, MCW, Theda Clark)

# Methods

## Aim 1 & Aim 2

- **Online Survey, Summit, and Focus Group**
  - ✓ Gain perspective from Trauma staff
- **Survey 295 injury victims from UWHC Trauma Service, and follow up for 6 months**
  - ✓ Gain perspective from patients with acute pain
  - ✓ Standardized questionnaires, medical record data, public records
  - ✓ Endpoint is development of opioid misuse by month 6
- **Use survey responses to develop novel risk screening tool**

# Methods

## Aim 3

- **Develop protocol of how screening tool should be used**
  - ✓ Modeled after current practices for alcohol screening
- **Pilot the implementation of the protocol at 4 WI Trauma Centers**
  - ✓ Gunderson, Marshfield, Medical College of WI, Theda Clark
- **Measures of implementation**
  - ✓ % of patient screened
  - ✓ Provider and hospital staff acceptability/satisfaction

# Expected Outcomes

- **At Week 4: Current Opioid Misuse Measure (COMM) and Pain Medication Questionnaire (PMQ) scores will predict Opioid Misuse and Use Disorder at week 24**
- **At Week 4: Quality of life, Pain Catastrophizing Scale, and average daily opioid dose will predict Opioid Misuse and Use Disorder at Week 24**
- **Implementation will be feasible and acceptable**

# Policy Implications

- 1. Opioid therapies are necessary for treating traumatic injury and post-surgical pain**
  - ✓ Complications of inadequate pain relief can lead to complications like delayed healing, blood clots due to lack of movement, PTSD, high blood pressure, muscle wasting, fatigue, and sleep deprivation
  - ✓ People perceive and react to pain in different ways
- 2. Questions like how prescribers can most effectively reduce risk and how closely to follow up with risky conditions still require investigation**
  - ✓ Enhancement of behavioral health and complementary health services may be needed

# Policy Implications

3. **Coordination challenges of transitions between surgical specialists, primary care provider, behavioral health, pain specialists, and complementary medicine practitioners**
  - ✓ ALL of these services need to be covered by public insurance, from yoga to inpatient rehab
  
4. **There should be no fiscal or regulatory barriers to ANYONE obtaining or administering naloxone**
  - ✓ Naloxone should be as publicly available as defibrillation devices for heart attacks

# Keep up with STOMP

- **Website:** <http://www.fammed.wisc.edu/stomp>
  - ✓ Subscribe to our monthly newsletter
  - ✓ See presentations from our Summit on Trauma and Analgesia: Balancing Patient Comfort and Opioid-related Risks
- **Email:** [dfmchSTOMPstudy@fammed.wisc.edu](mailto:dfmchSTOMPstudy@fammed.wisc.edu)
- **Join our study!**
  - ✓ Trauma inpatients at UW Hospital only

**THANK YOU!**



**QUESTIONS?**

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