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### You Can't Get the Right Results With the Wrong System

Some Thoughts on "The High Utilizing Patient" and "Addiction"

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### Disclosures

No relevant disclosures



### The Utilization Paradox of SCD



Carroll, Haywood, Fagan, and Lanzkron, *American Journal of Hematology* 2009 84(10):666-670 Carroll, Haywood, and Lanzkron. *Journal of Hospital Medicine*. In Press.



### A Consult\*

- Very frequent visits to multiple hospitals, reports 7-10/10 pain, often abdominal or in sites of AVN
  - (>1 visit or hospital day per three days)
- He lies. A lot.
- Seen by psychiatry inpatient and out-, diagnosed with a particular developmental disorder but "with no specific recommendations." Occasionally suspected of depression.
- Specific question: "Is this OUD?"
- When I see him, he's...pleasant. And very anxious about pain.
- (He's probably not taking his HU right)

AVN, avascular necrosis; OUD, opioid use disorder; HU, hydroxyurea

\*which never works



## Addiction and "Pseudo-addiction"





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## Maybe We Should Stick With What We Can See





# Principles of Behavior Change: ABCs

- Elements
  - Antecedents: Things that reliably happen prior to the behavior "triggers," contexts
  - <u>Behaviors</u>: Verifiable, countable (in principle) things people do
  - <u>Consequences</u> (or Contingencies): What happens immediately after the behavior?
- Application
  - <u>Extinction</u>: Stop reinforcing the behavior
    - It also helps to increase the work of the undesirable pattern
  - **Substitution**: Start reinforcing successive approximations of the desired behavior
    - Reduce the difficulty of desired behaviors
    - Make reinforcement as easy and frequent as you can to start
  - Reduce predictable antecedents to the target behavior; or better yet pair them with the new behavior



#### **Outpatient Opioids and Visits**



He's actually NOT in the hospital all the time.

(But he still manages to have ~1 visit/hospital day per three days.)

OME, oral morphine equivalent; OP, outpatient





- Outpatient doses are not high, but often staggered and chaotic
- ED doses are not out of line with his outpatient doses, though often IV
- However, when he gets admitted, the dose available is ~10 times his outpatient dose



# A Behavioral Analysis/Hypothesis

- Antecedents:
  - Reduction or "impending reduction" of opioid dose below ~50-60 OME

### – ALSO: Crises

- **Behaviors**: •
  - Presenting to EDs and providing a history that minimizes chances of discharge and maximizes chance of admission
- **Reinforcers** (Possible): ۲
  - Opioids (- Relief of pain, Reducing withdrawal, + Reward)
  - Relief of fear, support, etc
  - A thought: "Slot machine" dynamic might explain the intensity of his ED utilization
- Desired alternate behavior:
  - Regular outpatient visits with a single provider who manages the SCD and chronic pain







Home pain regimen: Morphine (MS-IR) 15mg po prn. Typical consumption between 45 and 60 oral morphine equivalents per day

**Disease modifying therapy:** Chronic q4 week partial exchange transfusions to target % HbS=30%

#### Suggested acute care treatment:

- When presenting for acute care, the patient should have a full assessment for complications of SCD as well as any other conditions reasonably indicated (see below for important notes). All management should be guided by assessment and good clinical judgment
- After complete assessment, morphine sulfate 15mg orally q4hr prn for pain; do ٠ not give intravenous opioids.
- Do not use iv bolus diphenhydramine (Benadryl) unless absolutely indicated (eg anaphylaxis)
- Check CRISP for recent visits and updates
- In the absence of complications, hospitalization outside ??? Hospital should be avoided without input from his primary hematologist, Dr. ???. The patient has weekly appointments with Dr. ???
- If hospitalized, treat with oral opioids as above until contact can be made with his primary team
- His port (if present) should be accessed only by staff at ??? Hospital
- Contact primary team: (Our numbers here)



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Assess him.

Absent other considerations, treat as chronic pain.

Don't hospitalize without good reason. We'll see him quickly.

Do no harm and don't mess up the plan.













### A Funny, Funny Story





# The Paradoxes...

- We continued to prescribe a disease-modifying treatment we knew he wasn't taking, rather than alter treatment or declare failure
- Our concerns about opioid use/ED visits/hospitalizations didn't change our behavior in any effective way
  - Referred out repeatedly; which was unproductive
  - Much talk in the chart about his behavior, little about ours
- As an outpatient, he was suspected of "OUD" while being provided opioids at a fluctuating but fundamentally unchanged dose
- Payment systems designed to limit access to opioids failed, and punished stable, highly supervised prescribing while incentivizing higher doses and more dyscoordinated care



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# **Q:** Is it *real pain, "psych,"* or addiction?

# A: What if it's us?



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### The Four Priorities (Plus 1)

- (0. Be the team running the case)
- 1. <u>Treat</u> the SCD as aggressively as possible
- 2. If the patient's acute care utilization\* itself is a problem, <u>modify your</u> <u>behavior</u> to shift it to <u>an appropriately intense outpatient chronic care model</u>
- 3. Once the patient is treatable as an outpatient, evaluate chronic pain, stabilize the regimen, and assess its effectiveness relative to its risk. <u>Act on that assessment</u>
- 4. Diagnose and attempt to manage other relevant comorbid conditions/complications

\* Or any other behavior pattern.



# 4. Identify and Deal With Other Causes

# Why is this last?!



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# It's Not Exactly Last...

- As a matter of practicality, few other causes can be effectively addressed if:
  - The SCD is out of control
  - The opioid dose is really unstable, or
  - The patient is not really managed as an outpatient
- While things like AVN, depression, etc may well be major *drivers* of pain; • they mostly have in common:
  - They take time and complex outpatient interactions with the medical system to deal with
  - Interruptions and inconsistencies in the approach decimate effectiveness



## How About Just Going After Chronic Pain Itself?

- If the current regimen is failing, you may decide to add other agents or taper/switch.
  - Pharmacotherapies for chronic pain tend to have modest effects (NNTB ~5-7)
  - Small effects are hard to see with frequent acute pain or a chaotic regimen
  - Similar problem if an opioid taper is happening what's having the effect?
- Non-pharmacological options for chronic pain require the same sorts of interventions as most of the comorbidities we discussed

NNTB, number needed to treat to be a benefit

