

**PainWeek**

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**Causality – You’re in Pain and It’s all Your Fault**

Kevin L. Zacharoff, MD, FACPE, FACIP, FAAP




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**Disclosure**

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- Nothing to disclose

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**Learning Objectives**

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- Illustrate how precognitive thinking may negatively impact clinical decision-making in managing chronic pain
- Describe cognitive biases
- Identify common healthcare provider and patient biases regarding chronic pain and its treatment
- Distinguish the differences between implicit and explicit biases that exist in today’s pain management environment
- Describe methods to help recognize, reflect upon, and circumvent potential stigmas to prevent compromise of patient care

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### The Blame Game

- Reacting to people with chronic pain
  - Do we wince?
  - Do we wait to respond until we know
    - Cause?
    - Diagnosis?
    - Context?
  - Do we stigmatize?
  - Does it depend on the circumstance(s)?
    - Does it have to do with responsibility?
  - Is our level of empathy directly related to responsibility?



**PainWeek**

Doualy, J., Cohen, S., Grand, J. The Blame Game: The Effect of Responsibility and Social Stigma on Empathy for Pain. *Journal of Cognitive Neuroscience* 22, 3, pp. 393-401, 2010

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*Or do we do it on the fly?*

### Do We Plan to Blame in Advance?



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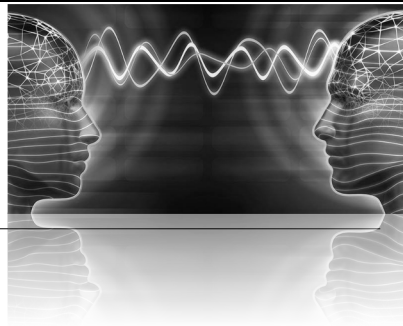
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### Precognition or Cognition?



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### Are We Taught to Think *Before* We Know?

- **Precognition** –
  - Thinking that occurs **before** knowledge acquisition takes place
    - Do we **predict** the future?
    - Do we **see** the future?
    - Do we **dictate** the future?
    - Does **empirical thinking** shape our decisions?
    - Do we use our **intuition**?
    - Do we **judge**?
    - Do we **label**???
    - If yes, **when**?
    - If yes, **why**?



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### Why We Label

- **Growing number of (sometimes) conflicting opioid prescribing guidelines**
  - Aberrant drug-related behavior(s), overdose deaths
- **Negative media attention**
  - Stigma
    - Patient
    - Healthcare provider
- **Co-morbid medical complexity**
- **State mandates**
- **Competing educational programs**
  - Educational vacuum<sup>1,2</sup>
- **FEAR OF REGULATORY SCRUTINY**



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 2. Brodwin TE, Patel-Hindin N, Pinesco-Tamayo A, et al. Deconstructing one medical school's pain curriculum: II. partnering with medical students on an evidence-guided redesign. Pain Med. 2017;18(1):65A-69S.

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### What Happens *When* We Know?

- **Cognition** –
  - The **process** of acquiring knowledge and understanding through thought, experience, and the senses involving:
    - **Intellect:**
      - Acquiring knowledge
      - Perceiving
      - Memory access/past experience(s)
    - **Processing**
    - **Reasoning**
    - **Understanding**
    - **Transduction**
      - Language/sounds
    - **Formation of beliefs and attitudes?**
      - When???



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## The Patient Perspective

- Pain patients often feel the need to prove pain is real
  - Subjective Sx vs objective findings
- Stigmatization is real
  - Opioids
  - Physical limitations
  - Social limitations
- Reaction(s) to pity
- Reaction(s) to sympathy
  - Not the same as empathy
- Suspicion about malingering
- Loneliness
- Everything else...




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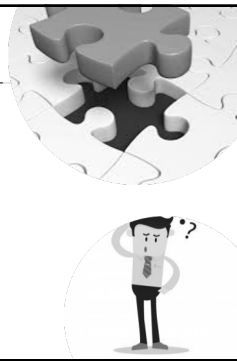
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## The Need for Individuality and Choice

- Self-reported pain ratings are subjective
- Patient needs and treatment should be highly individualized
  - Context *ALWAYS* varies
- Highly valuable contributory information should not be ignored
- **BUT AVOID:**
  - Gut checks
  - Over-reliance on prior experience
  - Superimposition of anecdotal experience



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## Patients are Individuals

There may be many things that the standard assessment processes may not capture

- Emotional states
- Emotional challenges
- Cultural challenges
- Cultural differences
- Different external pressures that they have in their lives



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**Precognitive Judgments**

- Like it or not, we bring precognitive judgments and thinking into the exam room with us every time we see a patient, probably before we even meet the patient
- We read about them before we ever meet them
  - We then judge them based on what we see and how we feel

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**Painweek**

**The End Result**

**Potential Corruption of Assessment and Treatment**

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**Patients Judge Too...**

- Patients judge themselves
- Patients judge us



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**Consider**

- You may not have the **"whole picture"**
  - At any given time, a person is dealing with many factors of which you're unaware
- The way you think and feel about a situation may be very different from one day to the next, influenced by various elements, including ***your* current mood**
- Under emotional stress, ***you may behave very differently*** than you think you would

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*Are taught them from the beginning?*

**We are Fully Stocked with Cognitive Biases...**



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**Cognitive Biases in Pain Management**

- Attribution error
- Anchoring
- Premature closure
- Search satisfaction
- Zebra retreat
- Blind-spotting
- Clustering illusion
- Bandwagon effect
- Authority bias
- Availability heuristic
- Conservatism bias
- Ostrich effect
- Outcome bias
- Zero-risk approach
- Placebo effect
- Recency
- Search satisfaction
- Overconfidence

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1. [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6911111/](#) Accessed July 16, 2019.  
2. [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6911111/](#) Accessed July 16, 2019.  
3. Stern, P. The Role of Bias in Decision Evaluation. *Journal of Personality and Social Psychology*, Vol 54(4), Apr 1988, 569-579.  
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### Cognitive Biases

- **Attribution error**
  - Explaining a patient's condition on the basis of their disposition or character rather than seeking a valid medical explanation
- **Why?**
  - Because we stereotype
  - Because there are so many things to pick from...
    - Race
    - Gender
    - Age
    - Socioeconomic status
    - Educational level
    - Medical/substance abuse history
    - Diagnosis
    - Etc
- **What to do?**
  - Be aware

Commentary

**Prejudice in medicine**

*Our role in creating health care disparities*

John Goffroy MD MSc, Luc Kelly MD MSc, Natalie G. Platen-Russell

VOL 54, NOVEMBER/NOVEMBRE 2008 Canadian Family Physician - Le Médecin de famille canadien

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### Cognitive Biases

- **Anchoring**
  - **Focusing on:**
    - One particular sign or symptom (usually the first... –sound familiar?)
    - One piece of information
    - Hanging onto one particular diagnosis without taking into consideration other possibilities, or discounting and/or ignoring them
  - **Why?**
    - Efficiency – we learn fast
    - We learn from experience
  - **End result – tunnel vision**
  - **What to do?**
    - Reassess
    - Reconsider diagnosis if
      - New signs or symptoms
      - Unexpected course of treatment
      - Lack of progress
      - Unexpected outcome

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### Cognitive Biases

- **Premature closure**
  - **Acceptance of an initial diagnosis**
    - Failing to challenge it or look any further
  - **Why?**
    - I was always taught that if you give a patient enough time, they will tell you what's wrong with them
  - **What to do?**
    - **Always** have a differential
    - Look for "red flags"
      - Follow-up on them
    - Consider the worst-case scenario (only as a possibility to ensure you don't miss something) and then **rule it out**.
    - Consider a 2<sup>nd</sup> brain/set of eyes – consult with a colleague

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### Cognitive Biases

#### ▪ Search satisfaction

– When an abnormality is found

- The search is OVER

– Why?

- So we can pin the tail on the donkey!
- How many times have you heard people mention “I have herniated discs”?

– What to do?

- Ask yourself more than once if something else might be going on



**PainWeek** 1. Common Cognitive Biases: The Canadian Psychological Association. Accessed July 16, 2019.  
 2. Stan-Barnes, Ethna (2016). [Herniated Discs: A Patient's Perspective](#). Accessed July 16, 2019.  
 3. Barin, J., & May, J. C. (2006). Bias in decision evaluation. *Journal of Personality and Social Psychology*, 91(4), 569-575.  
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 5. Proulx, C. (2010, June 16). [Blind Our Blind Selves](#). *The New York Times*. Retrieved July 16, 2019.

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### Cognitive Biases

#### ▪ Zebra retreat

– If it's not common, it can't be the diagnosis

- Not considering the rare case

– Why?

- Because we're taught not to think of zebras, we're taught to think of ducks...
  - Usually good advice

- “Go where the money is”

– What to do?

- Rule out the zebra



**PainWeek** 1. Common Cognitive Biases: The Canadian Psychological Association. Accessed July 16, 2019.  
 2. Stan-Barnes, Ethna (2016). [Herniated Discs: A Patient's Perspective](#). Accessed July 16, 2019.  
 3. Barin, J., & May, J. C. (2006). Bias in decision evaluation. *Journal of Personality and Social Psychology*, 91(4), 569-575.  
 4. Smith, C., Lin, C.Y., & Ross, L. (1996). The Bias Blind Spot: Perceptions of Bias in Self Versus Others. *Personality and Social Psychology Bulletin*, 22(1), 200-213.  
 5. Proulx, C. (2010, June 16). [Blind Our Blind Selves](#). *The New York Times*. Retrieved July 16, 2019.

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### Cognitive Biases

#### ▪ Blind-spotting

– Being less likely to detect bias in yourself than in others

– Why?

- To some degree, it's natural...
  - Unrelated to
    - » Intelligence
    - » Self-esteem
  - » Ability to make unbiased judgments
- We tend to “do what we know” and think it's best

– What to do?

- Look in the mirror
- Self-awareness
- Identify who and what makes you feel uncomfortable
  - Figure out why



**PainWeek** Rees, S. Researchers Find Everyone Has a Bias Blind Spot. *Carnegie Mellon University*, News, June 8, 2015.

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### Cognitive Biases

- **Clustering illusion**
  - The tendency to see patterns in random events
  - **Why?**
    - Because we believe in streaks
    - Because we all have some kind of gambling tendency
  - **What to do?**
    - Realize it's a fallacy
    - A bad case is just a bad case



1. Common Cognitive Biases. The Canadian Protective Association. Accessed July 16, 2019.  
 2. Brain Biases: Ethical Dilemmas. Accessed July 16, 2019.  
 3. Baron, J., Hershey, J. S. Cognitive Bias in Decision Evaluation. Journal of Personality and Social Psychology, Vol 54(3), Apr 1988, 589-575.  
 4. Povich, E., Liu, D. Y., Ross, L. The Bias Blind Spot: Perceptions of Bias in Self Versus Others. Personality and Social Psychology Bulletin, March 1, 2010.  
 5. Fisher, D. Mind Over Mass Media. The New York Times, JUNE 16, 2010.

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### Cognitive Biases

- **Bandwagon effect**
  - When a diagnosis “sticks” to a patient potentially distorting the diagnostic process
    - eg, the patient with a history of substance abuse presents with bona fide pathology and pain and is assumed to be drug-seeking
  - **Why?**
    - Because everybody has a “permanent record”...
  - **What to do?**
    - Diligent assessment
    - Consciously come to a diagnosis
    - Take a diagnostic “time out”



1. Common Cognitive Biases. The Canadian Protective Association. Accessed July 16, 2019.  
 2. Brain Biases: Ethical Dilemmas. Accessed July 16, 2019.  
 3. Baron, J., Hershey, J. S. Cognitive Bias in Decision Evaluation. Journal of Personality and Social Psychology, Vol 54(3), Apr 1988, 589-575.  
 4. Povich, E., Liu, D. Y., Ross, L. The Bias Blind Spot: Perceptions of Bias in Self Versus Others. Personality and Social Psychology Bulletin, March 1, 2010.  
 5. Fisher, D. Mind Over Mass Media. The New York Times, JUNE 16, 2010.

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### Cognitive Biases

- **Authority bias**
  - Consciously deciding to disagree with an “expert” or person with authority
  - **Why?**
    - Because the “White Ivory Tower” is not “Main Street”
    - Because we like to go against authority
  - **What to do?**
    - Know your limitations
    - Make sure to listen to both patient and the expert and then come to your own conclusions based on objective analysis
    - Make sure every member of the “team” has an equal voice



1. Common Cognitive Biases. The Canadian Protective Association. Accessed July 16, 2019.  
 2. Brain Biases: Ethical Dilemmas. Accessed July 16, 2019.  
 3. Baron, J., Hershey, J. S. Cognitive Bias in Decision Evaluation. Journal of Personality and Social Psychology, Vol 54(3), Apr 1988, 589-575.  
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 5. Fisher, D. Mind Over Mass Media. The New York Times, JUNE 16, 2010.

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### Cognitive Biases

#### Availability heuristic

-Recent or vivid diagnoses come to mind first and are overemphasized

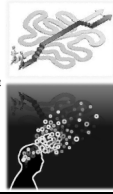
• I just had a patient with...

#### - Why?

• Think *mental shortcut*

#### - What to do?

- Remember patient individuality
- Watch for inconsistencies with common, less serious diagnoses
- Beware over-investigating because recent unexpected diagnosis in another patient



**PAINWEEK**  
 1. Common Cognitive Biases. The Canadian Protective Association. Accessed July 16, 2019.  
 2. Brain Biases: Clinical Implications. Accessed July 16, 2019.  
 3. Brain, C. Verhey, J. C. Cognitive bias in decision evaluation. *Journal of Personality and Social Psychology*, Vol 54(3), Apr 1988, 559-570.  
 4. Peruch, G. Liu, D. Y. Shen, L. The Bias Blind Spot: Perceptions of Bias in Self Versus Others. *Personality and Social Psychology Bulletin*, March 1, 2009.  
 5. Fisher, G. Mind Over Mean Media. *The New York Times*, JUNE 16, 2010.

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### Cognitive Biases

#### Conservatism

-Favoring old evidence over new information

#### - Why?

- "It's the way I was taught"
- "This has always worked before"
- "If it isn't broken, don't fix it"

#### - What to do?

- Keep an open mind
- Come to Vegas to PAINWeek every September
- Measure what the young'uns say after listening
- Understand that change is usually a good thing



**PAINWEEK**  
 1. Common Cognitive Biases. The Canadian Protective Association. Accessed July 16, 2019.  
 2. Brain Biases: Clinical Implications. Accessed July 16, 2019.  
 3. Brain, C. Verhey, J. C. Cognitive bias in decision evaluation. *Journal of Personality and Social Psychology*, Vol 54(3), Apr 1988, 559-570.  
 4. Peruch, G. Liu, D. Y. Shen, L. The Bias Blind Spot: Perceptions of Bias in Self Versus Others. *Personality and Social Psychology Bulletin*, March 1, 2009.  
 5. Fisher, G. Mind Over Mean Media. *The New York Times*, JUNE 16, 2010.

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### Cognitive Biases

#### Ostrich effect

-Pretty much self explanatory

#### - Why?

- Because we like to avoid difficult
- Situations
- Discussions
- Outcomes

#### - What to do?

- Don't abandon patients
- Filing them
- "I don't prescribe opioids"
- "All patients are drug seeking"
- Don't make assumptions based on the diagnosis without context
- "There are two types of patients that just get the opioid prescription: cancer and sickle cell"



**PAINWEEK**  
 1. Common Cognitive Biases. The Canadian Protective Association. Accessed July 16, 2019.  
 2. Brain Biases: Clinical Implications. Accessed July 16, 2019.  
 3. Brain, C. Verhey, J. C. Cognitive bias in decision evaluation. *Journal of Personality and Social Psychology*, Vol 54(3), Apr 1988, 559-570.  
 4. Peruch, G. Liu, D. Y. Shen, L. The Bias Blind Spot: Perceptions of Bias in Self Versus Others. *Personality and Social Psychology Bulletin*, March 1, 2009.  
 5. Fisher, G. Mind Over Mean Media. *The New York Times*, JUNE 16, 2010.

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### Cognitive Biases

#### Outcome bias

-Judging the quality of a decision based on the outcome instead of the process of how the decision was made

##### -Why?

- Because we'd all rather be lucky than smart, right?

##### -What to do?

- Try to standardize the decision-making process
- Avoid pendulums
- Base and document decisions based on ethical principle(s)



**PainWeek** 1. [Outcome Bias](#). The Canadian Protective Association. Accessed July 16, 2019.  
 2. Stan-Barnes, Emily L. [Outcome Bias](#). [Healthcare Compliance](#). Accessed July 16, 2019.  
 3. Baron, J., The Wily, J. C. Outcome bias in decision evaluation. *Journal of Personality and Social Psychology*, Vol 54(4), Apr 1988, 569-576.  
 4. Patten, S. Liu, D.Y., Ross, L. The Risk Blind Spot: Perceptions of Risk in Self Versus Others. *Personality and Social Psychology Bulletin*, March 1, 2002.  
 5. Patten, S. Mind Over Matter Health. *The New York Times*. June 16, 2010.

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### Cognitive Biases

#### Zero-risk

-Avoidance of risk at all costs – even if the result is counterproductive

##### -Why?

- We like predictable outcomes
- We like to avoid harm
- Nonmaleficence is what we consider to be the most important ethical principle
- Because risk mitigation is a very current topic

##### -What to do?

- Consider that risk mitigation is not risk elimination
  - Think about anti-coagulation...
- Risk/benefit analysis and informed consent (documented)



**PainWeek** 1. [Outcome Bias](#). The Canadian Protective Association. Accessed July 16, 2019.  
 2. Stan-Barnes, Emily L. [Outcome Bias](#). [Healthcare Compliance](#). Accessed July 16, 2019.  
 3. Baron, J., The Wily, J. C. Outcome bias in decision evaluation. *Journal of Personality and Social Psychology*, Vol 54(4), Apr 1988, 569-576.  
 4. Patten, S. Liu, D.Y., Ross, L. The Risk Blind Spot: Perceptions of Risk in Self Versus Others. *Personality and Social Psychology Bulletin*, March 1, 2002.  
 5. Patten, S. Mind Over Matter Health. *The New York Times*. June 16, 2010.

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### Cognitive Biases

#### Honorable mention...

##### -Placebo effect

- Doing something is better than doing nothing

##### -Recency

- "I just learned about this at a conference"

##### -Search satisfaction

- Once you find something, you stop looking for other things

##### -Overconfidence

- Who me?



**PainWeek** 1. [Outcome Bias](#). The Canadian Protective Association. Accessed July 16, 2019.  
 2. Stan-Barnes, Emily L. [Outcome Bias](#). [Healthcare Compliance](#). Accessed July 16, 2019.  
 3. Baron, J., The Wily, J. C. Outcome bias in decision evaluation. *Journal of Personality and Social Psychology*, Vol 54(4), Apr 1988, 569-576.  
 4. Patten, S. Liu, D.Y., Ross, L. The Risk Blind Spot: Perceptions of Risk in Self Versus Others. *Personality and Social Psychology Bulletin*, March 1, 2002.  
 5. Patten, S. Mind Over Matter Health. *The New York Times*. June 16, 2010.

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### Implicit or Explicit Bias?

#### Implicit bias

– *Unconscious* attitude(s) or stereotype(s) that may affect:

- Understanding
- Actions
- Decisions

– We all have them...

– May be **favorable or unfavorable**

– Activated **involuntarily**

- Usually without awareness or intentional control



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### Implicit or Explicit Bias?

#### Explicit bias

– Attitude(s) or stereotype(s) we may have about a person or group on a **conscious** level

– **Deliberate**

– Generally **unfavorable**

– When people perceive their biases to be valid, they may be more likely to justify unfair/unequitable treatment

– Can have **significant negative impact** on patients' physical and mental health



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It's All YOUR fault!



What is the Clinical Impact?  
**So What Does all this Mean?**

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### Bias, Stigma, and Pain



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### Pain Management Best Practices Inter-Agency Task Force



▪ ***“Established to propose updates to best practices and issue recommendations that address gaps or inconsistencies for managing chronic and acute pain”***

- The U.S. Department of Health and Human Services guided this effort along with the U.S. Department of Veterans Affairs and U.S. Department of Defense
- The Task Force consisted of representatives from relevant HHS agencies, the Departments of Veterans Affairs and Defense and the Office of National Drug Control Policy
- Non-federal representatives included from diverse disciplines and views, including experts in areas related to pain management, pain advocacy, addiction, recovery, substance use disorders, mental health, and minority health and more

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### Stigma



- ***“Stigma can be a barrier to treatment of painful conditions”***
- ***Often presents a barrier to care and is often cited as a challenge for:***
  - Patients
  - Families
  - Caregivers
  - Clinicians
  - Social dynamics
- ***In the current environment, patients with chronic pain – particularly those being treated with opioids – can be stigmatized***
- ***May be exacerbated when co-morbidities exist***
  - Anxiety
  - Depression
  - Substance use disorder
  - Etc

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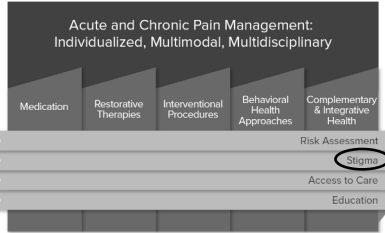
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### Treatment Approaches Informed by Four Critical Topics



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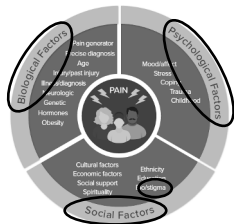
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### The Biopsychosocial Model of Pain Management



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### Stigma

▪ **“Studies suggest that patients who are receiving or who have previously received long-term opioid therapy for nonmalignant pain face both subtle and overt stigma from:”**

- Family
- Friends
- Coworkers
- The healthcare system
- Society
- Insurers



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**Stigma**

- Feelings of **guilt, shame, judgment, and embarrassment** resulting from stigma can increase the risk for behavioral health issues, such as anxiety and depression
  - Which can further contribute to **symptom chronicity**
- *"The sub-population of patients with painful conditions and comorbid substance use disorder (SUD) face **additional barriers** to treatment because of stigmatization of both chronic pain and addiction."*
- *"Chronic pain is common among individuals with SUD, including opioid misuse, yet **stigma remains a significant barrier** to implementation of programs and treatments for such as medication-assisted treatment and naloxone"*


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**Recommendations**

*"Reducing barriers to care that exist as a consequence of stigmatization is crucial for patient engagement and treatment effectiveness"*





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**Recommendations**

*"Increase patient, physician, clinician, non-clinical staff, and societal education on the underlying disease processes of acute and chronic pain to reduce stigma"*


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**Recommendations**

***“Increase patient, physician, clinician, non-clinical staff, and societal education on the disease of addiction”***

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**Recommendations**

***“Counter societal attitudes that equate pain with weakness through an awareness campaign that urges early treatment for pain that persists beyond the expected duration for that condition or injury”***

**PainWeek**

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**Recommendations**

***“Identify strategies to reduce stigma in opioid use so that it is never a barrier to patients receiving appropriate treatment, with all cautions and considerations, for the management of their chronic pain conditions”***

**PainWeek**

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### Does Education Make a Difference?

+ Effective, patient-centered care  
 + Optimize patient functional outcomes  
 + Appropriate medication  
 + Eliminate stigma  
 + Reduced risk through assessment

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### Final Thoughts...

- The issue of stigma and chronic pain is *not new and not ours alone*

**ETHICS** : Original Research Articles  
**Review** : Stigma Experienced by People with Nonspecific Chronic Low Back Pain: A Qualitative Study  
**The Extir** : Susan Carolyn Slade, PhD Candidate, Elizabeth Molloy, PhD, and Jennifer Lyn Keating, PhD

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### Watch for Certain "Markers"

- Malingering**
  - Be really sure
- "The patient failed a trial/course of therapy..."**
  - Who failed who?
- "The last five people I went to see for this didn't help me"**
  - What is the definition of help?
- Drug-seeking/doctor shopping**
  - Be really sure
- Lying**
- These are just a few examples...**
  - There are so many more

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**Final Thoughts...**

- **Reflect**  
– Your/our common biases
- **Recognize** what might happen before knowledge is acquired
- **Think** about when/how we formulate beliefs and what drives us to them
- **Consider** that the potential negative impact of precognitive thinking and bias
  - Depression
  - Anxiety
  - Low self-esteem
  - Social detachment
  - Suicide?
- **This *can* affect treatment outcomes**
  - Bad for the patient
  - Bad for us
  - Bad for everyone



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*"Cure sometimes, treat often, comfort always."*  
– Hippocrates

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QUESTIONS?



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