

Breakthrough Pain

- What is breakthrough pain?
- Why is it important?
- How common is it?
- What are the characteristics?
- How should doctors evaluate it?
- How should it be treated?



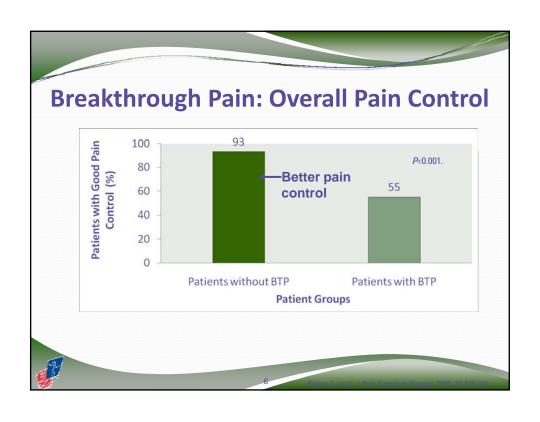
Breakthrough Pain

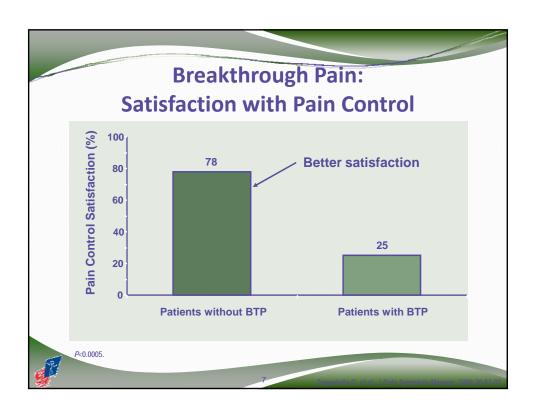
- It is important to distinguish a type of pain if it
 - Has a unique cause
 - Has importance in the lives of patients
 - Has specific treatments
- Breakthrough pain <u>should be distinguished</u> because it
 - Is important in the lives of patients
 - Has specific treatments

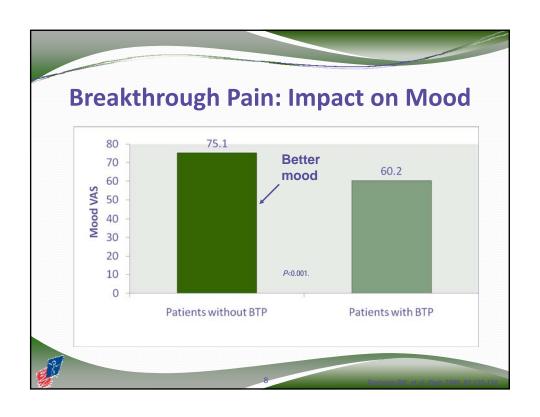
Cancer-Related Breakthrough Pain: Importance in the Lives of Patients

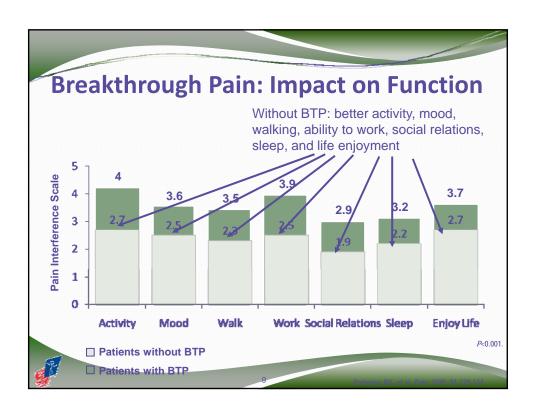
- Compared with patients without breakthrough pain, patients with breakthrough pain have:
 - More severe pain
 - Reduced response to opioid therapy
 - More problems functioning
 - More psychological distress
 - Higher cost of care

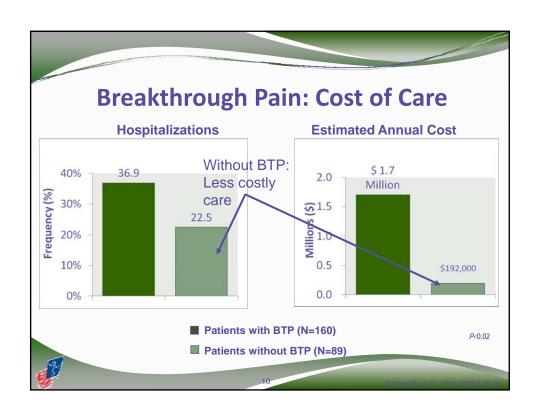


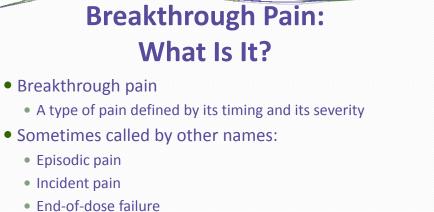






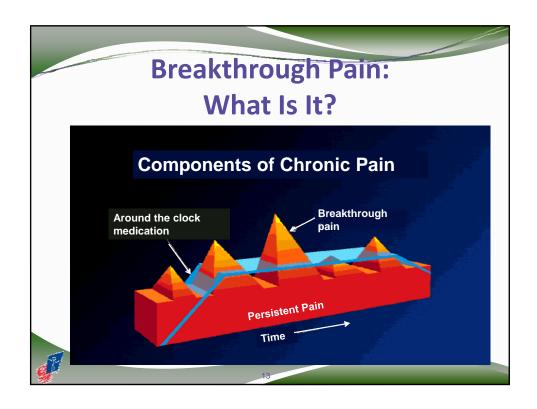






Breakthrough Pain: What Is It?

- Most common definition:
 - A <u>transitory</u>, <u>severe or excruciating</u> pain, which <u>lasts seconds to hours</u> and is <u>superimposed on a background pain</u> that is controlled using an opioid medication



Cancer-Related Breakthrough Pain: How Common Is It?

• Outpatient practices: 33%

• Inpatient settings: 50-90%

• Home care/inpatient hospice: 89%



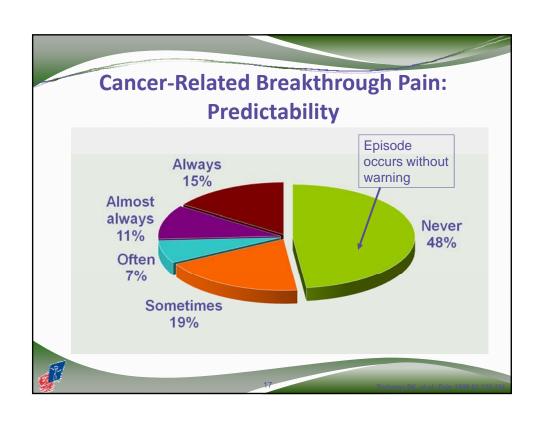
Breakthrough Pain: What are the Characteristics?

- Every person is different
- Usually similar to the background pain in terms of location and cause
- Frequency: Usually about 2 to 3 attacks per day



Breakthrough Pain: What are the Characteristics?

- Most episodes come on very quickly, peaking within a few minutes
- Most episodes last a short time but some last hours
- 50% associated with voluntary actions, like walking
- Almost half the episodes occur without warning



Breakthrough Pain: How Should Doctors Evaluate It?

- Issues
 - Some doctors do not appreciate how important breakthrough pain can be:
 - They may not know the recent research
 - They may think that the patient is managing it well because a short-acting drug has been given
 - Patients may not complain about pain in general
 - Patients may not mention that the breakthrough episodes are a problem



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Breakthrough Pain: How Should Doctors Evaluate It?

- Issues
 - Patient should know
 - <u>Both</u> pain in general and breakthrough pain specifically should be viewed as significant problems that should be evaluated by physicians
 - If the doctor does not ask about pain, the patient should bring it up
 - If a treatment is not working well enough, tell the physician and ask that it be changed



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Breakthrough Pain: How Should Doctors Evaluate It?

- To evaluate the pain in general, the doctor should ask questions about
 - Pain location, severity, quality, timing and factors that make it better or make it worse
 - Prior treatments and evaluation
 - Current treatments, include effectiveness, side effects, and benefits on mood, sleep, energy and functioning



Breakthrough Pain: How Should Doctors Evaluate It?

- To further evaluate the pain,
 - An examination is done
 - X-rays, CT scan or MRI may be needed
- All this information should inform the doctor about the:
 - Characteristics of the background pain <u>and</u> the breakthrough pain
 - The specific causes of these pains
 - Other problems and conditions that are important in developing a plan of care



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Breakthrough Pain: How Should Doctors Evaluate It?

- Issues
 - Sometimes treating breakthrough is an urgent problem
 - A high level of pain—background pain <u>or</u> breakthrough pain—is <u>never</u> acceptable



- Guidelines based on expert opinion
- Elements:
 - Treat the underlying cause if possible
 - Adjust the opioid pain medication for the background pain
 - Use specific treatments for breakthrough pain

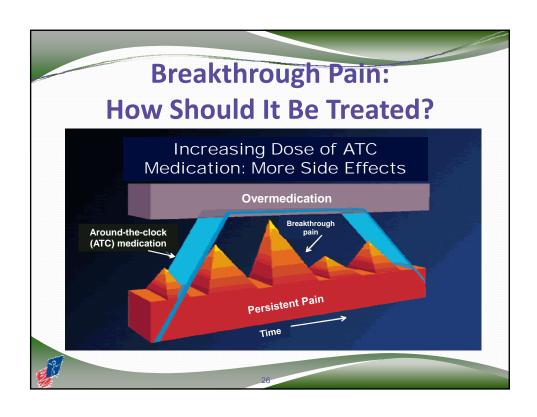


- Treat the underlying cause if possible
 - Cause of the pain
 - Example: Radiation to cancer in a bone
 - Cause of the specific episodes
 - Examples:
 - · Cough medicine for pain precipitated by cough
 - A brace for a limb that hurts with movement



- Adjust the opioid pain medication for the background pain
 - Most clearly useful for "end-of-dose failure"
 - Theoretically helpful in other breakthrough pains
 - Risk of overmedication
 - Controversial







- Non-drug therapies for breakthrough pain
 - Application of heat or cold
 - · Massage or stretching
 - Cognitive techniques like deep relaxation, mental imagery or self-hypnosis

- Drug therapy for breakthrough pain
 - Non-opioid
 - Acetaminophen
 - NSAID like ibuprofen or naproxen
 - Opioid



- Opioid treatment for breakthrough pain
 - Known as "rescue dose"
 - Should be considered the <u>standard of care</u> for cancer patients
 - Treatment guidelines based on expert opinion

"Rescue Dose" According to Expert Opinion

- Expert opinion:
 - Most common approach at the present time
 - Oral, short-acting opioid drug, usually the same drug as the one used for the background pain
 - Examples: oral morphine, oral oxycodone, oral hydromorphone



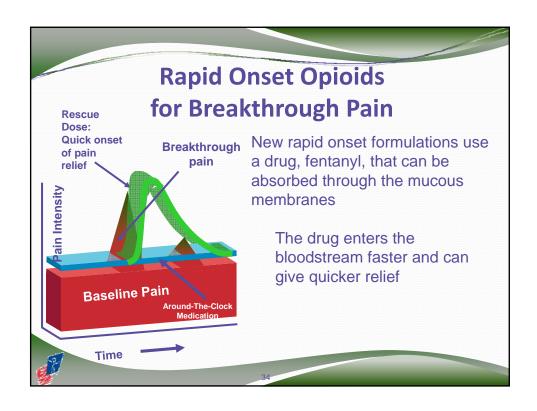
"Rescue Dose" According to Expert Opinion

- Expert opinion:
 - Most common approach at the present time
 - Dose is a percentage of the dose given for the background pain
 - Dose can be taken every 1 or 2 hours as needed
 - Dose should be adjusted over time to give the best relief possible without intolerable side effects

"Rescue Dose" According to Expert Opinion

- Expert opinion:
 - New "rapid onset" drugs have appeared on the market and offer an alternative that may be considered on a case-by-case basis





Rapid Onset Opioids for Breakthrough Pain

- Approved formulations in the US and Europe
 - Oral transmucosal fentanyl citrate
 - Fentanyl effervescent buccal tablet
 - Bio-erodible mucoadhesive (BEMA[™]) patch
 - Fentanyl solution nasal spray
 - Sublingual fentanyl tablet
- Others are in development

Rapid Onset Opioids for Breakthrough Pain

- Not enough information to know who would benefit from these drugs
- It is reasonable to offer them, if possible, to:
 - Patients who do not benefit from an oral drug because it works too slowly, and
 - Patients whose breakthrough pain appears quickly and severely
- Cost and insurance coverage may be an issue

- Other issues concerning opioid treatment
 - All opioids can cause side effects such as sleepiness, mental clouding and constipation
 - The physician should be told about side effects
 - If possible, the patient should describe the side effects of the background opioid and the opioid for breakthrough pain separately



- Other issues concerning opioid treatment
 - Each person responds different to each opioid drug
 - If side effects occur, the opioid can be switched—called "opioid rotation"
 - If side effects are largely due to the rescue dose, just the rescue dose can be changed

- Other issues concerning opioid treatment
 - All opioids are 'abusable'
 - The physician must monitor them carefully and follow the regulations about prescribing
 - The physician may request urine drug tests or other measures to improve monitoring
 - The patient must be vigilant in terms of storing the medication in a way that reduces the risk of theft
 - The patient must follow instructions and communicate any problem that occurs



Breakthrough Pain

- Conclusions
 - Breakthrough pain can be a significant problem
 - Patients with cancer pain should make sure that their physicians evaluate both the background pain and breakthrough pain
 - If breakthrough pain is distressing, it should be treated
 - There are many approaches to treatment and patients should discuss the options with their physicians
 - Ongoing communication is important, and if a treatment does not work, another should be tried
 - More research is needed in this area

Resources

- APF Website www.painfoundation.org
 - APF's Breakthrough Cancer Pain Online Guide -http://www.painfoundation.org/learn/programs/spotlight-on-cancer-pain/breakthrough-pain/
- American Cancer Society www.cancer.org
- CANCERCare www.cancercare.org
- Cancer.Net www.cancer.net
- Cancer Support Community www.cancersupportcommunity.org
- Lance Armstrong Foundation www.livestrong.org
- National Coalition for Cancer Survivorship www.canceradvocacy.org



