
EPIDEMIOLOGY

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General

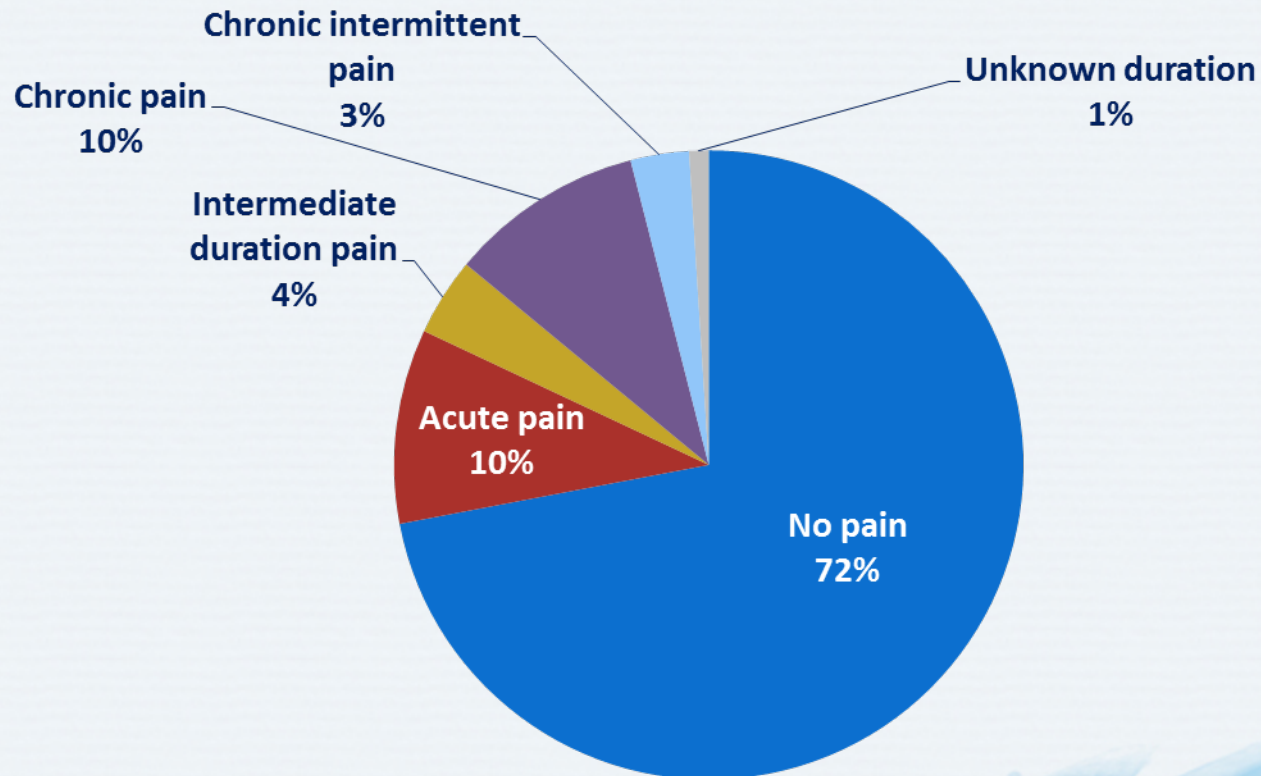
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Prevalence of Acute Pain

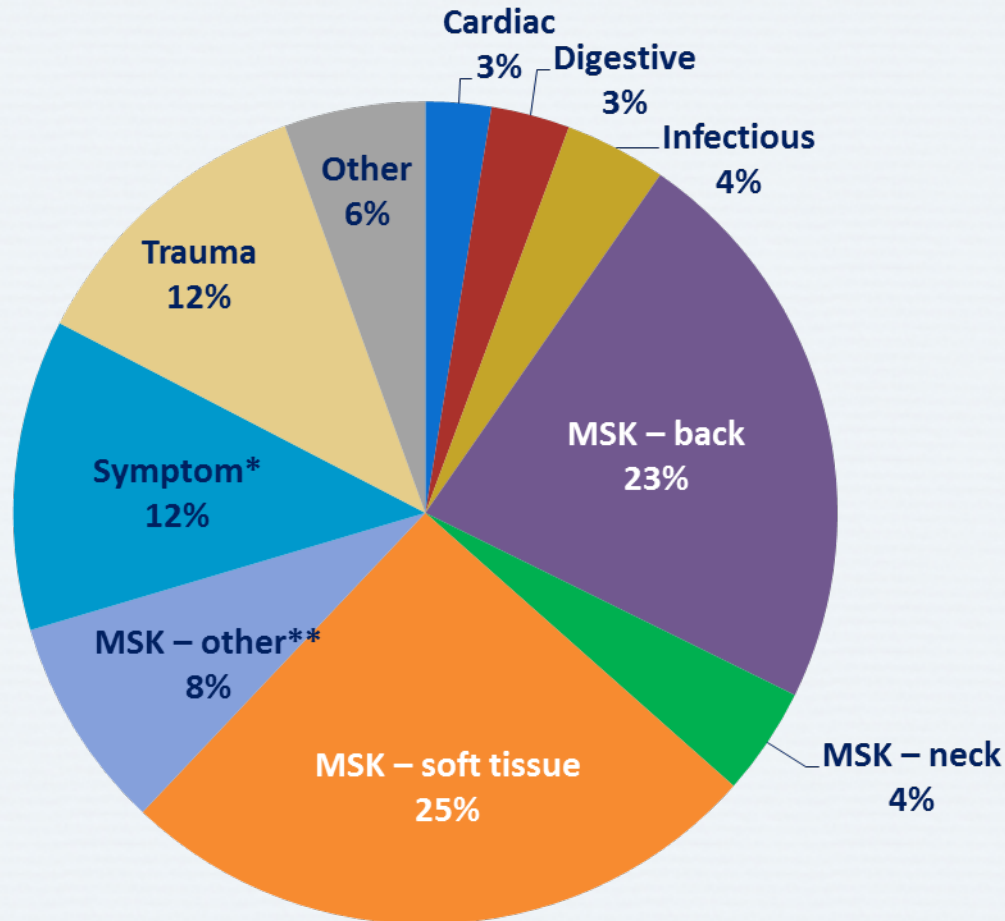
- **Lifetime** prevalence in general population:
 - Approaches **100%** for acute pain leading to use of analgesics¹
- **Emergency room** patients:
 - Pain accounts for **>2/3** of emergency room visits²
- **Hospitalized** patients:
 - **>50%** report pain³

Acute Pain in General Practice

Pain Duration Among Patients Presenting to Primary Care over 1 Year (n = 6890)



Most Common Types of Pain in General Practice



Note: types of pain are based on ICD-9 codes

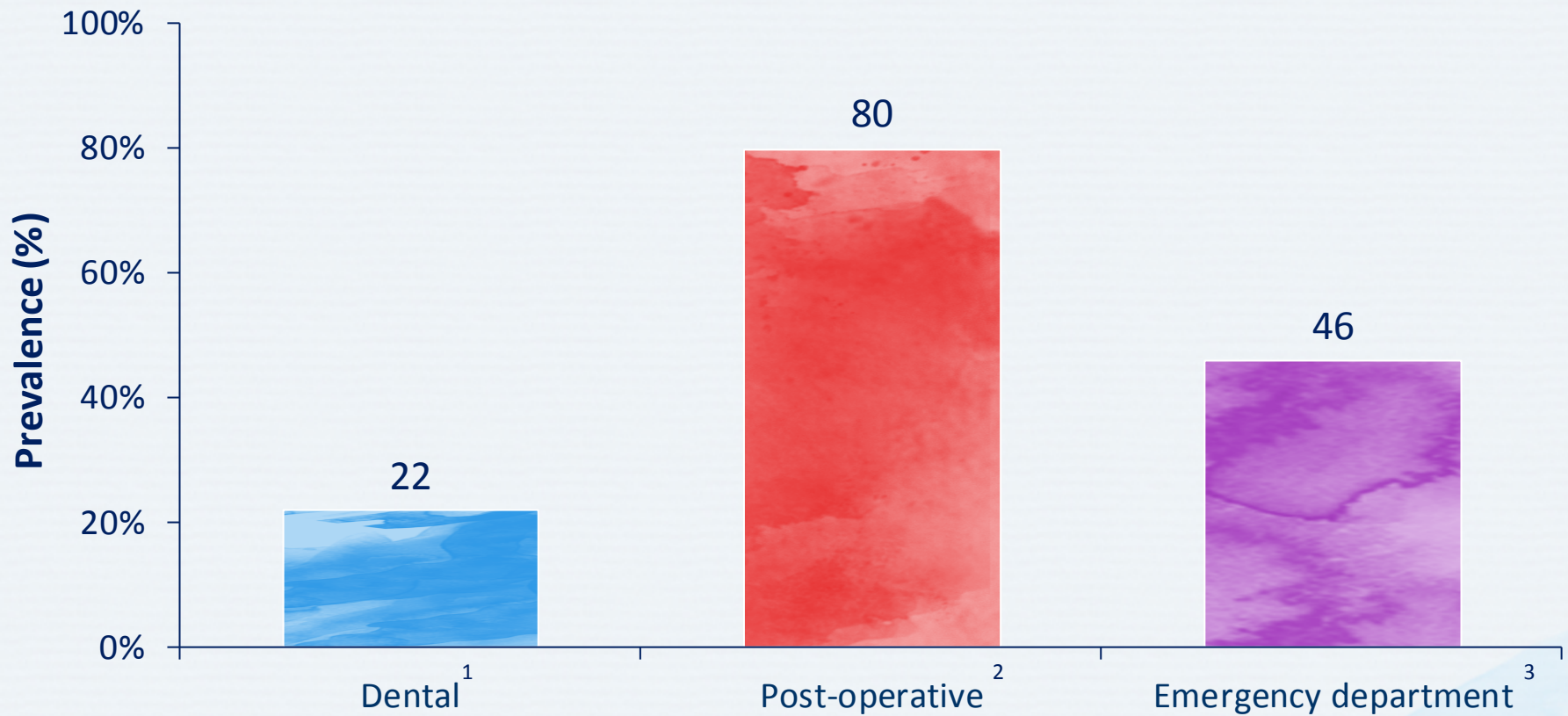
***The use of the symptom code suggests clinician could not identify the underlying cause of the pain**

****MSK – other refers to musculoskeletal pain at sites other than the neck, back or soft tissue**

ICD = International Classification of Disease; MSK = musculoskeletal

Hasselström J et al. *Eur J Pain* 2002; 6(5):375-85.

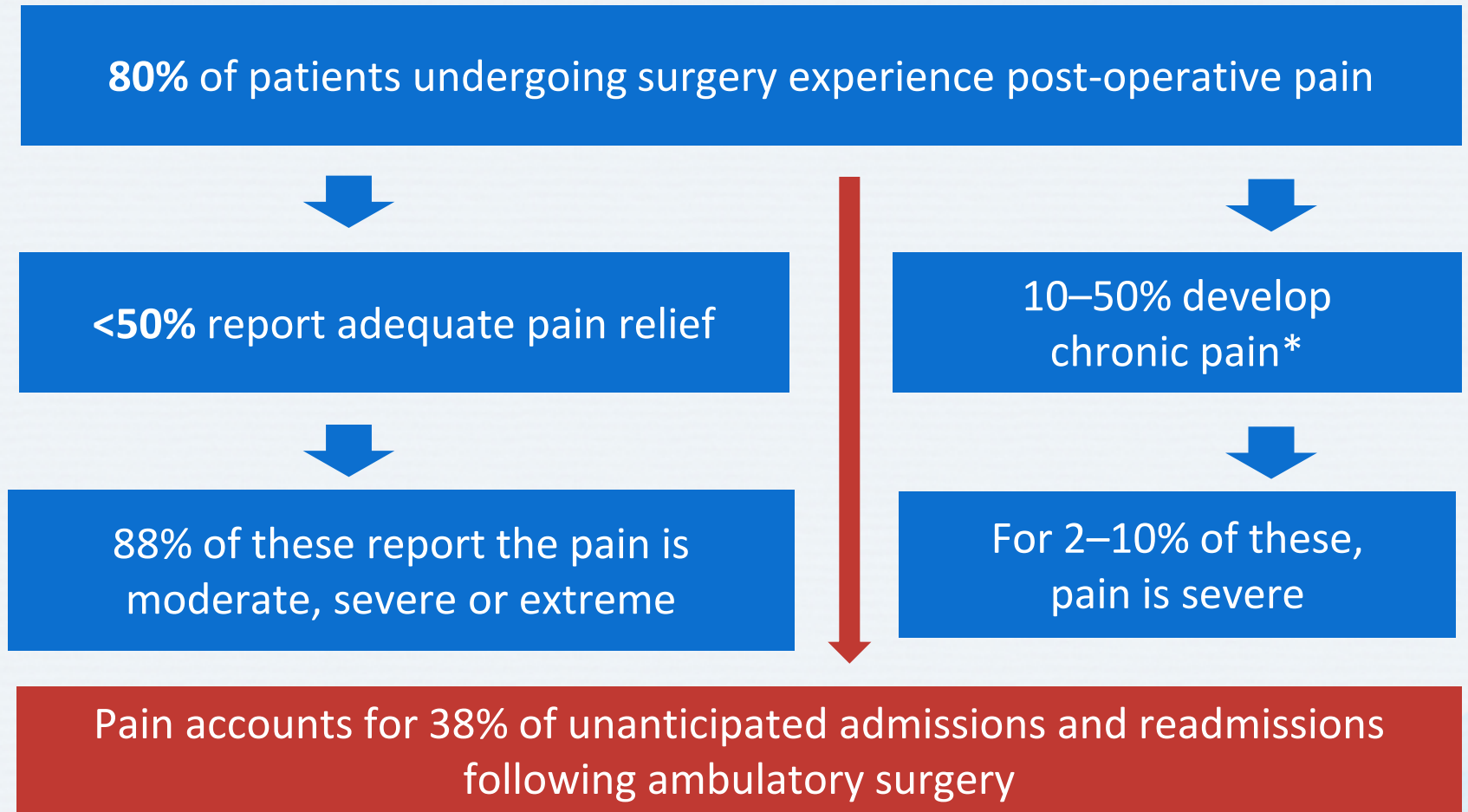
Post-operative Acute Pain is the Most Prevalent Type of Pain in the US



US = United States

1. Lipton JA *et al. J Am Dent Assoc* 1993; 124(10):115-21;
2. Apfelbaum L *et al. Anesth Analg* 2003; 97(2):534-40;
3. Nawar EW *et al. Adv Data* 2007; 29(386):1-32.

Post-operative Pain



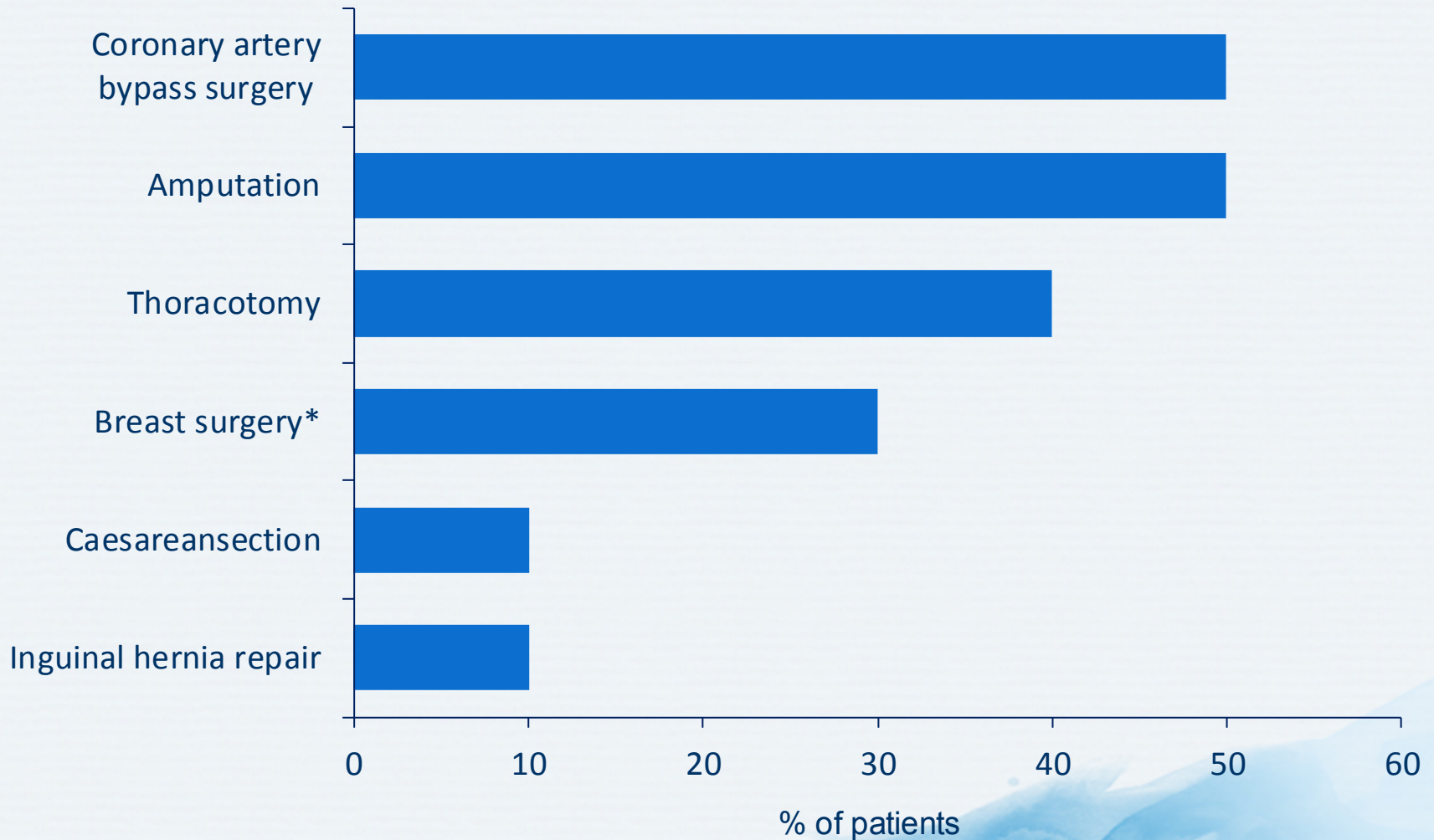
***Depending on type of surgery**

Coley KC et al. *J Clin Anesth* 2002; 14(5):349-53; Institute of Medicine. *Relieving Pain in America: A Blueprint for Transforming Prevention, Care, Education, and Research*. The National Academies Press; Washington, DC: 2011.

Chronic Pain as an Outcome of Surgery

Surgery	Incidence	Factors
Limb amputation	30–81%	Pre-amputation pain, persistent stump pain
Thoracotomy	47 %	Extent of acute post-operative pain, intercostal nerve dysfunction
Breast surgery	11–57%	Extent of acute post-operative pain, type of surgery, intercostobrachial nerve injury
Gallbladder surgery	3–56%	Psychologic vulnerability, long-standing pre-operative symptoms
Inguinal hernia	11%	Intensity of early post-operative pain, nerve dysfunction

Some Surgical Procedures are Associated with a High Estimated Incidence of Chronic Post-operative Pain



*Lumpectomy or mastectomy

Kehlet H *et al. Lancet* 2006; 367(9522):1618-25.

Summary

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Epidemiology of Acute Pain: Summary

- Acute pain is experienced by:
 - 10% of patients presenting to primary care
 - >50% of hospitalized patients
 - 2/3 of patients in ER
 - 80% of patients following surgery