

Guidelines as Living Documents

Montana State Fund 18th Annual
Medical Conference

June 1, 2018

Disclosures

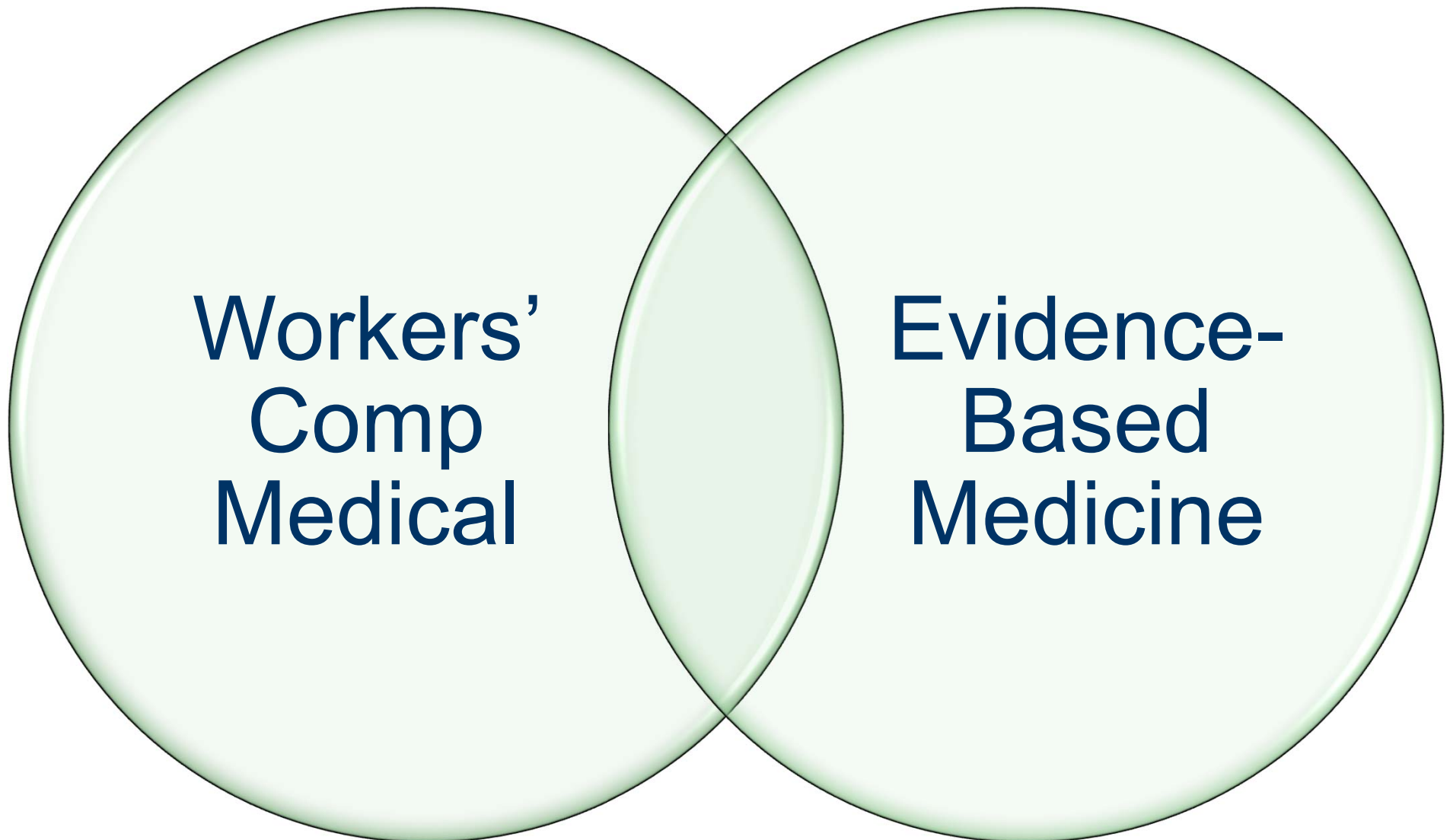
- Stephen Norwood, MD Austin, TX
- Editor-in-chief Official Disability Guidelines
- ODG is the most widely used worker's comp guideline in the world
- Acquired by MCG/Hearst Health Network January 2017—guidelines for over 200M lives
- Never any personal financial ownership; only paid to write, edit, and advise policy

The Wild West of Medicine



- WC is the only area of medicine where health encounters aren't completely scripted
 - In group health, insurance companies set health policy
 - Because of the “grand bargain”, workers’ comp payers cannot set their own health policy
 - Also no copayments, deductibles, coinsurance
 - Result is both excessive utilization, and too much UR
- Solution: Regulators set health policy at the state level using evidence-based treatment guidelines

What is the relationship between Workers' comp, EBM, and guidelines?



Evidence-Based Medicine

- EBM is “healthcare based on clinical studies of what works best and what does not”
 - Systematic reviews, meta-analyses, RCT’s, cohort studies trump others
 - Requires (1) transparent literature review (2) evidence-ranking
 - EBM does not vary from state-to-state
- EBM is not healthcare based on opinion, consensus, personal observation, or tradition
- 3 guidelines types: *evidence-* based, *consensus-* based, hybrid
 - Not interchangeable; not all created equal
 - Device lobby and special interests perpetually push (\$\$\$) for state and specialty specific guidelines, influencing the process by stealth from EBM towards consensus

National Guideline Clearinghouse (NGC)

The screenshot displays the National Guideline Clearinghouse (NGC) website. At the top, the U.S. Department of Health & Human Services logo is visible, along with navigation links: Home, About Us, Careers, Contact Us, Español, FAQ, and Email Updates. The AHRQ logo and tagline 'Advancing Excellence in Health Care' are prominently displayed. Below this is a search bar and a navigation menu with links: Topics, Programs, Research, Data, Tools, Funding & Grants, News, and About. A breadcrumb trail indicates the current location: Home > Research > Research Findings & Reports > Fact Sheets > Medical Errors and Patient Safety.

The main content area is titled 'National Guideline Clearinghouse: Fact Sheet'. It includes a sidebar with 'Data Resources' and 'Publications & Products' sections. The 'Research Findings & Reports' section is expanded, showing a list of topics: EPC Evidence-Based Reports, Fact Sheets, Aging, Children's Health, Computers and Medical Informatics, Health Literacy and Cultural Competency, Medical Errors and Patient Safety (selected), Minority Health, and Primary Care.

The main text area contains the following information:

- Publication:** 12-M052-EF
Previous Publication: 00-0047
- ALTERNATE FORMATS** (with a download icon) and a link to [Order Print Copies](#).
- What is the National Guideline Clearinghouse™?**
The National Guideline Clearinghouse™ (NGC) is a publicly available database of evidence-based clinical practice guidelines and related documents. It provides Internet users with free online access to guidelines at <http://www.guideline.gov>.
Updated weekly with new content, the NGC is produced by the Agency for Healthcare Research and Quality (AHRQ, formerly the Agency for Health Care Policy and Research [AHCPR]), in partnership with the American Medical Association (AMA) and the American Association of Health Plans (AAHP) Foundation.
- What Are the Major Features of the NGC?**
Key components of the NGC include:
 - Structured, standardized abstracts (summaries) about each guideline and its development.
 - A utility for comparing attributes of two or more guidelines in a side-by-side comparison.
 - Syntheses of guidelines covering similar topics, highlighting areas of similarity and difference.
 - Links to full-text guidelines, where available, and/or ordering information for print copies.

National Guidelines Clearinghouse

- Most major EBM guidelines for worker's comp do not or no longer participate in NGC
- Free online access—sounds great but get what you pay for
- Guidelines must have been reviewed or revised within the past **5 years**
- Must initially submit most current version, but AHRQ has not been equipped to keep up with continual updates of individual guidelines
- Unfortunately, routine use simply does not meet most jurisdictional requirements to remain current
- Content is simply summarized and abbreviated, often without source reference links

National Guideline Clearinghouse

- NGC was never intended to be an indicator of trustworthy guidelines, nor have they claimed such. NGC inclusion has recently become a marketing message touted by some guideline vendors.
- Under previous ownership, ODG was submitted and accepted for inclusion in NGC for over a decade. With altered inclusion criteria, there were several problems including providing newly required evidence-tables for NGC, since they were proprietary and over 10,000 pages.
- NGC has never been part of any strategic direction for MCG because few if any of the 15k NGC entries are used for care decisions by paying customers – health plans, governments, or hospitals.

National Guidelines Clearinghouse (NGC)

- 1,486 Guideline Summaries—many international and obscure
- Includes comp related specialty societies (American): Family practice (4), Orthopaedics (17), PM&R (2), Neurosurgery (39), General Surgery (1), Radiology (166), Pain (2), OT (9), PT (6), Podiatry (1), Psychiatry (3), Anesthesiology (8), Spine (4)
- Incomplete Colorado DWC (4) Lower extremity, Shoulder, Cervical Spine, and Low back MTGs
- Washington State L&I (8) **Conservative care** for epicondylitis and shoulder; cauda equina syndrome, carpal tunnel syndrome, opioid prescription
- ACOEM (only 2) Cervical and thoracic spine, Low back disorders



TAKE NOTICE: This Web site, AHRQ's National Guideline Clearinghouse, will not be available after July 16, 2018.

eral funding through AHRQ will no longer be available to support the NGC as of that date. For additional information, read our [announcement](#).

continue to post summaries of new and updated evidence-based clinical practice guidelines until July 2, 2018. For any ques

Institute of Medicine Study

- NAM/IOM publication *Clinical Practice Guidelines We Can Trust* raised very serious concerns regarding the use of specialty guidelines.
- *“The authors concluded that despite evidence of moderate progress, the quality of practice guidelines developed by specialty societies remained unsatisfactory (Grilli et al., 2000)” (pg. 64).*
- *“The authors concluded that differences in group composition may lead to contrasting recommendations; more specifically, members of a clinical specialty are more likely to promote interventions in which their specialty plays a part” (pg. 84).*
- *Clinical Practice Guidelines We Can Trust. Institute of Medicine (US) Committee on Standards for Developing Trustworthy Clinical Practice Guidelines; Editors: Robin Graham, Michelle Mancher, Dianne Miller Wolman, Sheldon Greenfield, and Earl Steinberg. Washington (DC): National Academies Press (US); 2011. ISBN-13: 978-0-309-16422-1.*

EBM as a Regulatory Tool

- Treatment guidelines must serve *DUAL MANDATE*

Safeguard and
expedite access to
quality care



Limit excessive or
inappropriate
utilization

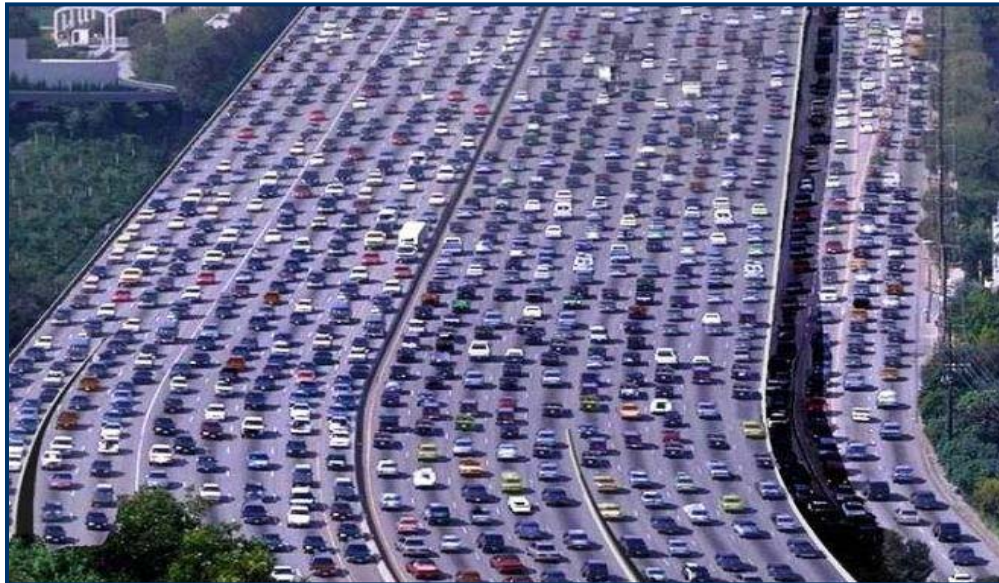


**If treatment guidelines
are like speed limits then...**





Set them too low...



Guidelines that are too restrictive cause unnecessary delays, disputes, denials, and friction, preventing workers from getting needed medical care, driving good doctors out of the system.



Set them too high...



Bad guidelines are worse than having no guidelines. If you set speed limits at 150-200 mph, there will be a lot of road kill.



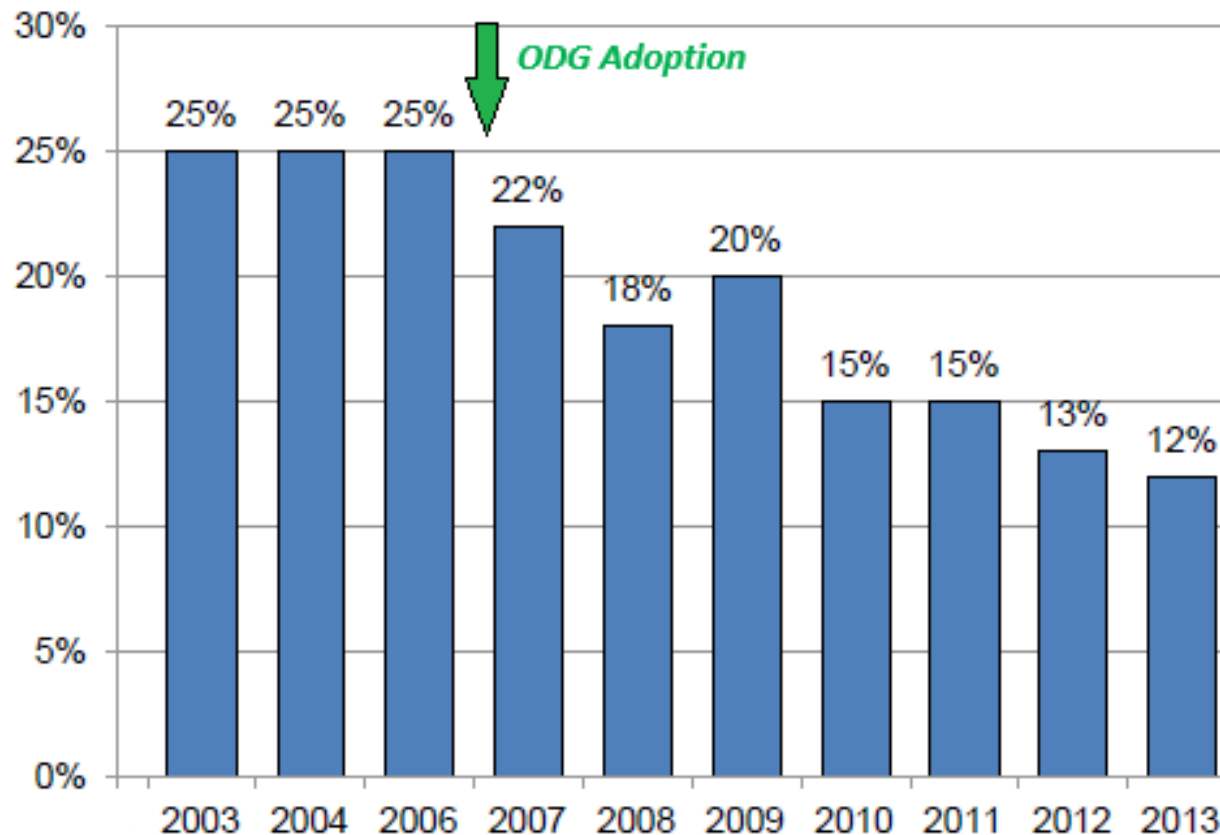
Set them just right...



Guidelines should use UR judiciously, auto-approving care while limiting excessive/inappropriate utilization. Expertise in guideline development/delivery always comes with a track record.

TDI Medical Denial Rates post-ODG

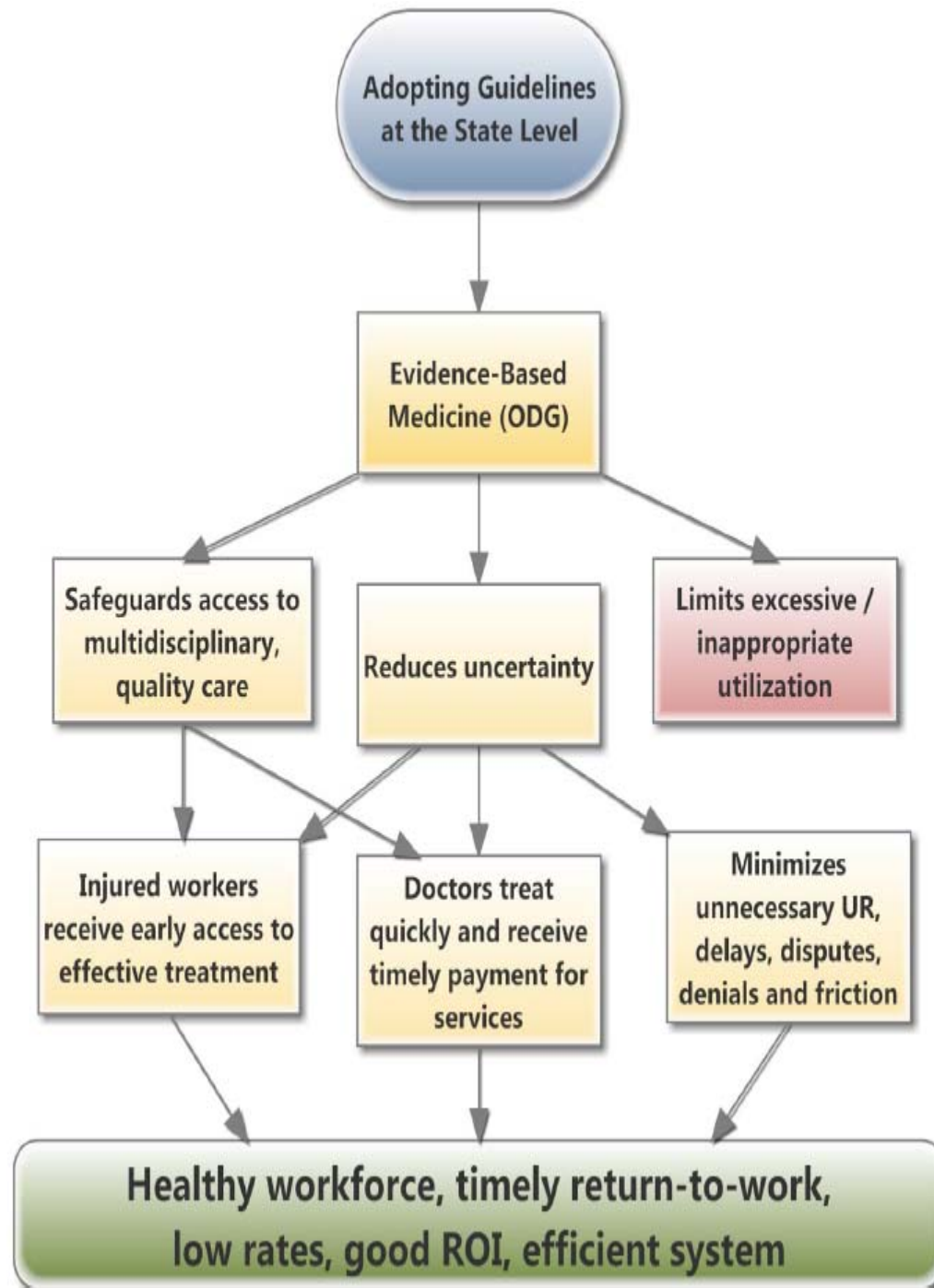
Figure 5.11: Percentage of Professional Medical Services Denied for the Top 25 Workers' Compensation Insurance Carriers, by Service Year



Denial rates, along with workers' comp premiums, have been cut in half.

Note: Denial rates for 2005 were excluded due to missing data. Source: Texas Department of Insurance, Workers' Compensation Research and Evaluation Group, 2014.

Choice is



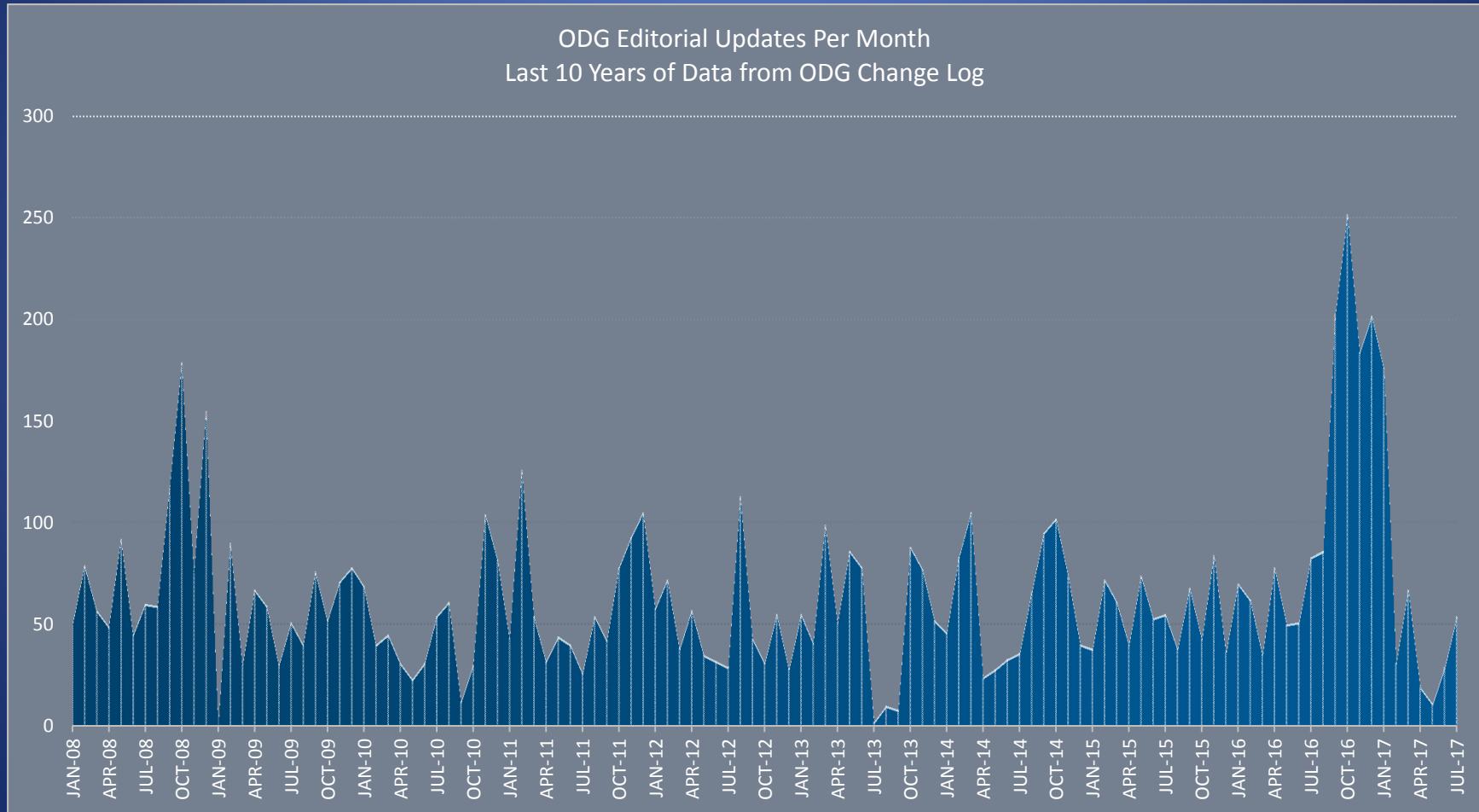
Living, breathing guidelines

- So how are guidelines kept up to date, using the latest and highest quality medical evidence?
- It starts with a quality team of physicians, pharmacologists, statisticians, data processors, among many others.
- Advisory support from a broad-base of experienced clinical clinicians representing multiple specialties is critical for recommending new updates and to review summaries before publishing.

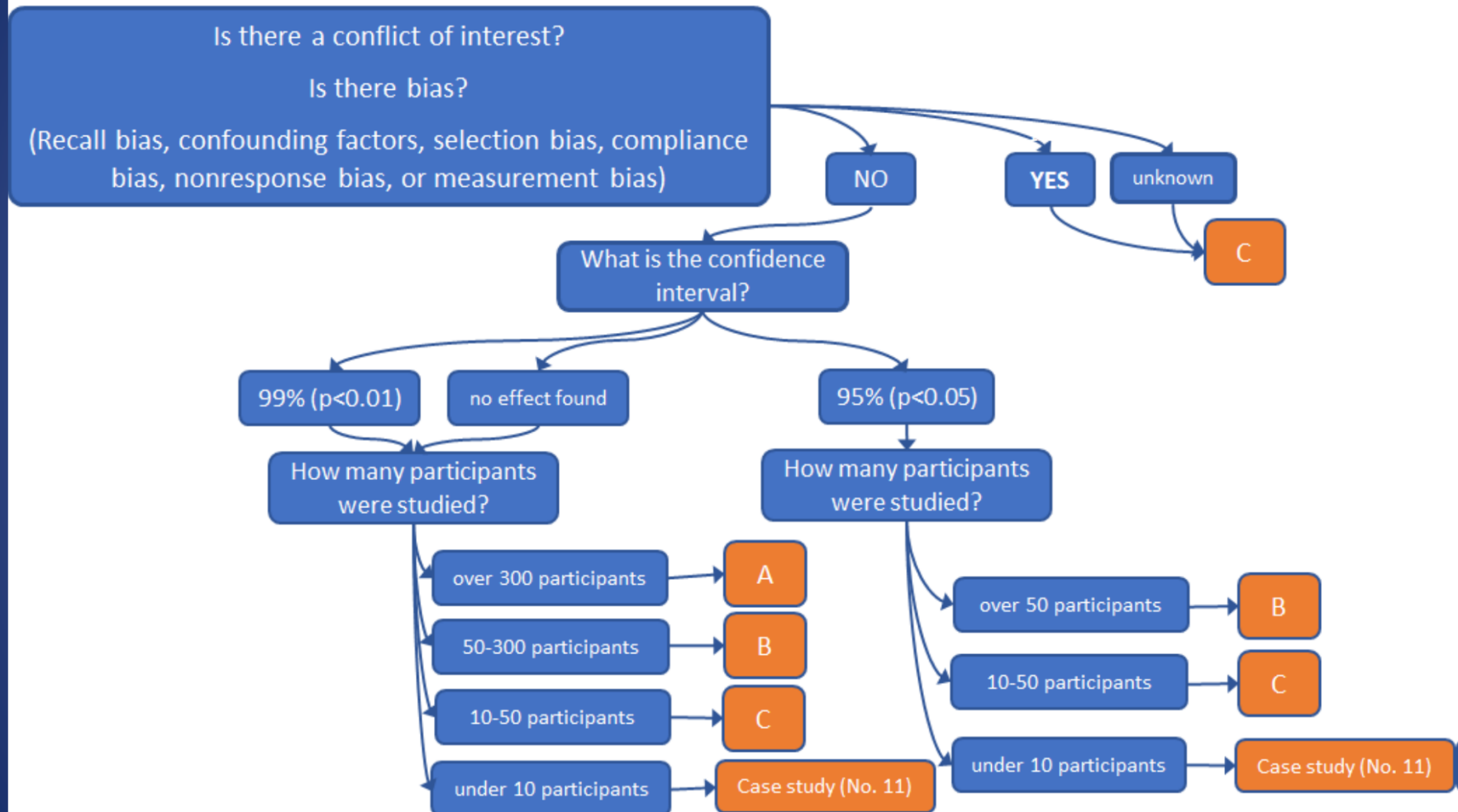
Guideline Summary Research



Never ending updates

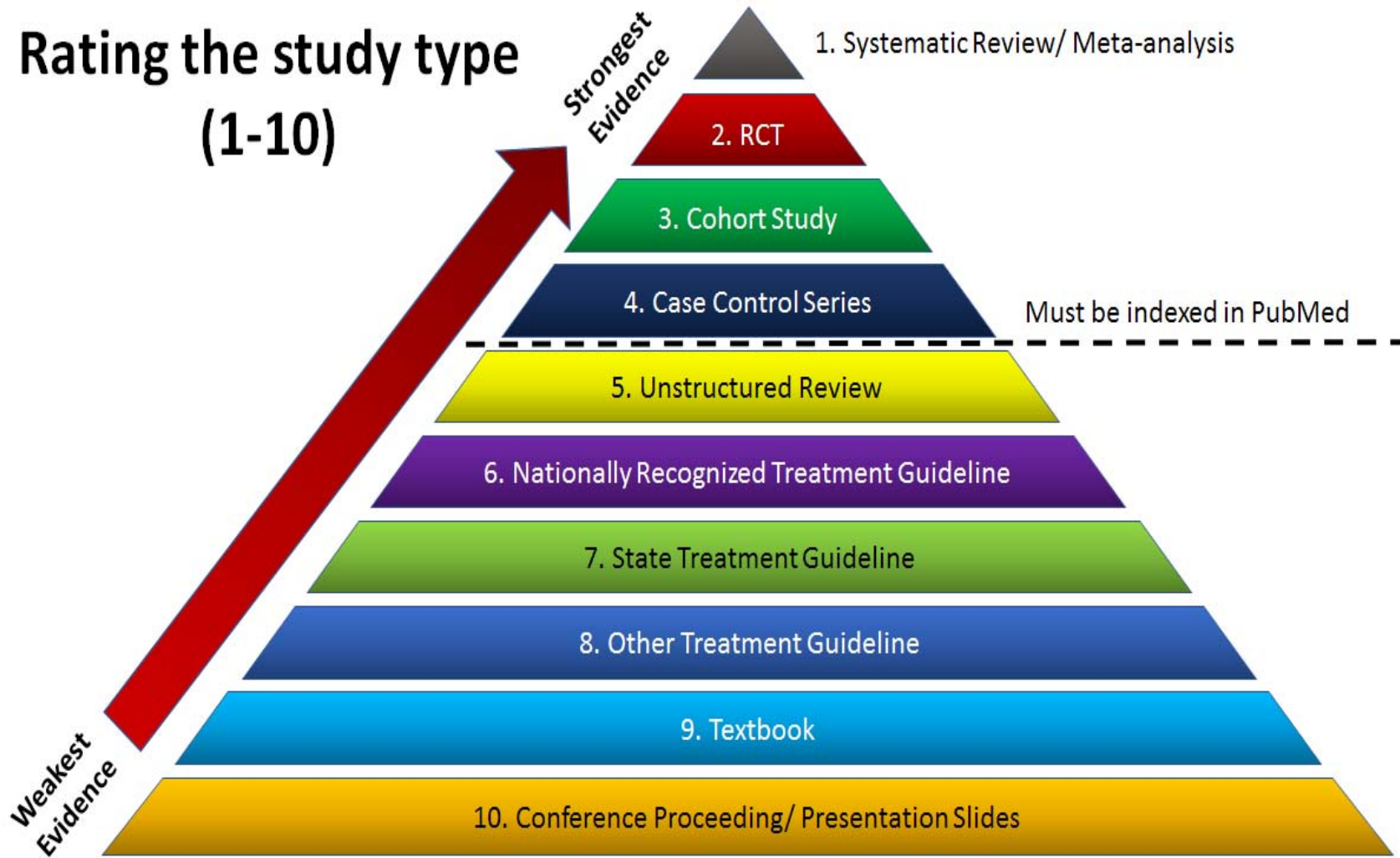


Rating the study quality (A-C)



a) High b) Medium c) Low Quality

**Rating the study type
(1-10)**



Best studies available

- Searching beyond RCTs is quite important since the biggest problem with EBM is that there are never enough quality studies. Many treatments have only lower-level evidence. Systematic reviews and meta-analyses of RCTs are the gold standard, but often do not exist for many routine, low-cost treatments, or for invasive therapies where having a control group is not practical or ethical.
- Guidelines that use only RCTs frequently uncover limited results, so many are forced to conclude “Insufficient Evidence”. Then users are forced to resort to a consensus of authors, who naturally recommend procedures they are most familiar and comfortable with. “Confirmation bias,” is the tendency to interpret information to confirm preexisting beliefs, and is the “fatal flaw” of specialty societies guidelines.

Guideline Anatomy

A. Recommendation Type

- R (Rec), CR, NR (Not Rec), US

B. Recommendation Statement

C. See also (related topics)

D. ODG Criteria

- Patient selection, number of visits

E. Clinical Evidence Summary

F. Links into the References/Studies

Guideline anatomy

The screenshot displays the ODG Evidence-Based Decision Support website. The browser address bar shows the URL <https://www.odg-twc.com/index.html>. The website header includes a search bar and navigation links: Search, Main Menu, ICD Index, CPT Index, and Help. A 'Show URL' link is also present. Below the header, a 'Toolbox' dropdown menu is visible. The main content area is titled 'ODG Evidence-Based Decision Support' and includes training options: 'ODG: Good to Go! (automated)' or 'Webinars (live)', with a link to 'Join Email List'.

	<p>(Morrino, 2013) Another RCT included 140 middle aged adults with degenerative meniscus tears but minimal OA who were followed for 2 years, with patients treated with physical therapy alone or arthroscopic partial meniscectomy alone. The therapy group had earlier thigh strength improvement, but no clinically relevant differences were found longer term. In addition, 19% of the therapy group crossed-over to surgery, which subsequently proved to be without any additional benefit. (Kise, 2016)</p>
Microfracture surgery (subchondral drilling)	<p>Recommended as indicated below for small to mid-sized lesions. Microfracture surgery or subchondral drilling is an articular cartilage repair surgical technique that is performed arthroscopically by creating tiny punctures in the underlying subchondral bone, causing new fibrocartilage to develop, presumably from stem cells.</p> <p>See also Autologous cartilage implantation (ACI); Osteochondral autograft transplant system (OATS).</p> <p>ODG Indications for Surgery™ – Microfracture surgery Procedure: Subchondral drilling or microfracture. Requires all 4 below:</p> <ol style="list-style-type: none">1. Conservative care: medication OR physical therapy (minimum of 2 months); PLUS2. Subjective clinical findings: joint pain AND swelling; PLUS3. Objective clinical findings: full thickness chondral defect on the weight bearing portion of the medial or lateral femoral condyle on MRI or during arthroscopy AND the knee is stable with intact, fully functional menisci and ligaments AND normal knee alignment AND normal joint space; PLUS4. Age 45 or younger. <p>Risk versus benefit: Systematic reviews have yet to demonstrate any superiority of ACI over other arthroscopic regenerative procedures such as microfracture. For full thickness articular cartilage defects 2.5 cm² or greater, where other arthroscopic techniques are not recommended, ACI may be a reasonable primary surgical option. However, for smaller lesions, microfracture has the lowest surgical risk and the quickest recovery time, with at least a 75% success rate. The theoretical risk is that this technique results in a less durable fibrocartilage, whereas OATS and ACI involve true autogenous cartilage.</p> <p>General consensus favors osteoarticular allograft transplants (OATS) and microfracture techniques for smaller lesions and autologous cartilage implantation (ACI) or osteochondral allografts for larger ones. (Vasiliadis, 2010) For articular cartilage injuries, ACI theoretically provides more durable results, but microfracture offers a faster recovery. (Kon, 2011) A meta-analysis of 12 randomized controlled trials comparing ACI with marrow stimulation (microfracture) and osteochondral allografts showed no differences in intermediate-term outcomes with the differing techniques, or between generations of ACI. (Mundi, 2015) The longest clinical trial follow-up to date (14-15 years) involved 80 patients who were randomized at arthroscopy to either microfracture or ACI for focal femoral cartilage defects. No significant differences in functional outcomes were seen, but twice as many ACI failures went on to total knee arthroplasty (6 vs. 3) and radiographic osteoarthritic progression was slightly higher following ACI (57% vs. 48%). (Knutsen, 2016) A novel technique using a hyaluronic acid-based scaffold with bone marrow activated stem cells (HA-BMAC) was compared to a microfracture cohort with better 2- and 5-year outcomes. (Gobbi, 2016) These singularly encouraging results have yet to be duplicated in North America or elsewhere.</p>
Microprocessor-controlled knee prostheses	<p>Recommended as indicated below.</p> <p>See also Prostheses (artificial limb)</p>

The Windows taskbar at the bottom shows the search bar with the text 'Type here to search' and the system clock indicating 4:43 PM on 1/18/2018.

Search for additional conditions

Knee and Leg Microfracture surgery (subchondral drilling) x

Home

Duration

Treatment



TAD Index

Formulary

Microfracture surgery (subchondral drilling)

1

Body system:

Knee and Leg

Treatment type:

Surgery

Related Topics:

See also [Autologous cartilage implantation \(ACI\)](#); [Osteochondral autograft transplant system \(OATS\)](#).



Conditionally Recommended

Recommended as indicated below for small to mid-sized lesions. Microfracture surgery or subchondral drilling is an articular cartilage repair surgical technique that is performed arthroscopically by creating tiny punctures in the underlying subchondral bone, causing new fibrocartilage to develop, presumably from stem cells.

ODG Criteria

ODG Indications for Surgery™ -- Microfracture surgery

Procedure: Subchondral drilling or microfracture. Requires all 4 below:

1. Conservative care: medication OR physical therapy (minimum of 2 months); PLUS
2. Subjective clinical findings: joint pain AND swelling; PLUS
3. Objective clinical findings: full thickness chondral defect on the weight bearing portion of the medial or lateral femoral condyle on MRI or during arthroscopy AND the knee is stable with intact, fully functional menisci and ligaments AND normal knee alignment AND normal joint space; PLUS
4. Age 45 or younger.

Risk vs. Benefit

Systematic reviews have yet to demonstrate any superiority of ACI over other arthroscopic regenerative procedures such as microfracture. For full thickness articular cartilage defects 2.5 cm² or greater, where other arthroscopic techniques are not recommended, ACI may be a reasonable primary surgical option. However, for smaller lesions, microfracture has the lowest surgical risk and the quickest recovery time, with at least a 75% success rate. The theoretical risk is that this technique results in a less durable fibrocartilage, whereas OATS and ACI involve true autogenous cartilage.

Evidence Summary

General consensus favors osteoarticular allograft transplants (OATs) and microfracture techniques for smaller lesions and autologous cartilage implantation (ACI) or osteochondral allografts for larger ones. (Vasiliadis, 2010) For articular cartilage injuries, ACI theoretically provides more durable results, but microfracture offers a faster recovery. (Kon, 2011) A meta-analysis of 12 randomized controlled trials comparing ACI with marrow stimulation (microfracture) and osteochondral allografts showed no differences in intermediate-term outcomes with the differing techniques, or between generations of ACI. (Mundi, 2015) The longest clinical trial follow-up to date (14-15 years) involved 80 patients who were randomized at arthroscopy to either microfracture or ACI for focal femoral cartilage defects. No significant differences in functional outcomes were seen, but twice as many ACI failures went on to total knee arthroplasty (6 vs. 3) and radiographic osteoarthritic progression was slightly higher following ACI (57% vs. 48%). (Knutsen, 2016) A novel technique using a hyaluronic acid-based scaffold with bone marrow activated stem cells (HA-BMAC) was compared to a microfracture cohort with better 2- and 5-year outcomes. (Gobbli, 2016) These singularly encouraging results have yet to be duplicated in North America or elsewhere.

Evidence is the backbone

2 problems with EBM

- Not enough good research
- Very manual, labor intensive

Implementation should not burden healthcare delivery

Increasing expectations that guidelines be up to date

←→https://www.odg-twc.com/index.html

Official Disability Guidelines xGoogle

ODG Navigator

Toolbox:
[Select...]

SearchMain MenuICD IndexCPT IndexHelp

Procedure Index:
[Select...]

Show URL

ODG Evidence-Based Decision Support

Training: [ODG: Good to Go!](#) (automated) or [Webinars](#) (live) ~ Join [Email List](#)

Surgery for shoulder dislocation

resulted in equivalent reductions of pain, cramping, and deformity, with significantly improved functional measures. ([Euler, 2016](#))

Recommended as indicated below. External rotation bracing and thermal or laser capsulorrhaphy is specifically Not Recommended.

See also [Surgery for AC joint](#) (arthritis, separation).

ODG Indications for Surgery™ -- Shoulder (gleno-humeral) dislocation surgery:

Criteria for capsulorrhaphy, Bankart, and/or additional procedures for diagnosis of recurrent anterior dislocation, and more rarely for posterior dislocation, persistent recurrent subluxation, or multi-directional instability (MDI) failing physical therapy. [Acute surgery](#) (without therapy) is indicated for [males under age 30](#) with highly demanding sports or job requirements (heavy contact or overhead), and all patients with early frequent re-dislocations or irreducible dislocations.

Best evidence considering complication rates and return-to work/play favors arthroscopic over open surgical techniques (e.g. arthroscopic Bankart, arthroscopic Bankart+remplissage; Latarjet and bone graft procedures are best reserved for revisions or large "bipolar" bony defects).

1. Subjective Clinical Findings: History of multiple dislocations or chronic instability disrupting activities of daily living. PLUS

2. Objective Clinical Findings: At least one of the following: Positive provocative tests (apprehension, relocation, load and shift). OR Humeral head defect (Hill Sachs). OR Dislocation/subluxation under anesthesia. PLUS

3. Imaging Clinical Findings: Conventional x-rays (AP and true lateral or axillary views), CT or MRI (with or without intra-articular contrast) consistent with recurrent dislocation/instability. AND Absence of recent non- or minimally-displaced greater tuberosity fracture. PLUS

4. Conservative Treatment failure: At least 3 months, including post-immobilization avoidance of vigorous sports and overhead work.

Risk vs. benefit: Surgery for shoulder dislocation has improved outcomes over the past decade due to better less invasive arthroscopic techniques and more thorough attention to bony defects with supplemental procedures. Overall only one-in-five anterior dislocations require surgery, however, since four-of-five males under age 30 will re-dislocate, the option of acute surgery is well justified for this sub-group. No additional benefit has been demonstrated for initial bracing in external rotation or sling immobilization beyond 1-week. Thermal or laser capsular treatments have high failure rates and should be avoided. Open procedures including Bankart and Latarjet (bone block) have similar long-term outcomes in terms of re-dislocation or revision compared to arthroscopic approaches, with the downside of more loss of external rotation, higher complications (9-14% for Latarjet), and poorer return to work/play. Early complications include infection, deep venous thrombosis, and re-dislocation, while long-term complications usually involve symptomatic instability or osteoarthritis. Only 10-20% of patients with posterior dislocation or multi-directional instability (MDI) ultimately require surgery.

Historical research:

Consensus has traditionally only supported [primary](#) repair surgery for young adults, typically males engaged in highly demanding physical activities that have first-time acute traumatic shoulder (glenohumeral joint) dislocations. Non-surgical management should continue to be the prime treatment for other lower risk patient categories. ([Handoll-Cochrane, 2004](#)) ([Gibson, 2004](#)) Multiple traumatic shoulder dislocations indicate a need for surgery when it limits functional ability following failure of muscle strengthening. Instability recurrence rates following surgery were [historically](#) around 12% for open repair and 23% for arthroscopic anterior repair (see updated comparisons under "recent research below). ([Sperber, 2001](#)) ([Jorgensen, 1999](#)) Shoulder instability has been classified as either traumatic or atraumatic with traditional treatment for both involving immobilization, rehabilitation, and a delay in return to vigorous activities; which is often quite successful in preventing recurrences for atraumatic instability. However, patients with traumatic instability often have further dislocation/subluxation, with reported recurrence rates as high as 94% in patients younger than age 20. Open surgical repair for anterior instability was reported to be 94-100% successful in preventing recurrence, while arthroscopic stabilization procedures were successful for 80-90%, with less morbidity. ([Burgess, 2003](#)) A randomized controlled trial (RCT) concluded that arthroscopic repair with suture

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1/19/2018

Exceptions to guidelines

- Appendix D—Documenting Exceptions to the Guidelines
- "These publications are guidelines, not inflexible proscriptions, and they should not be used as sole evidence for an absolute standard of care. Guidelines can assist clinicians in making decisions for specific conditions and also help payors make reimbursement determinations, but they cannot take into account the uniqueness of each patient's clinical circumstances."

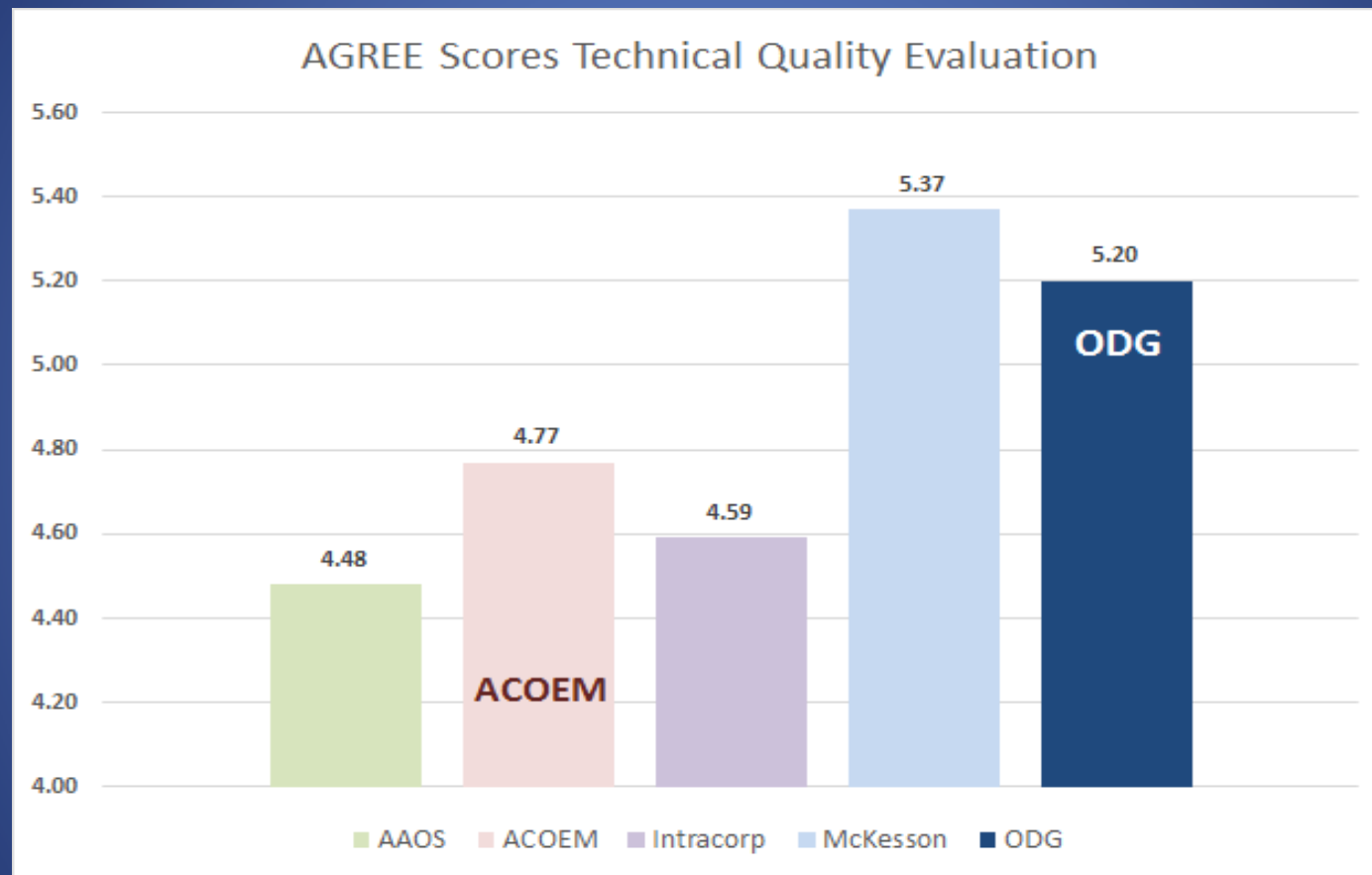
Yes, guidelines get grades

Evaluating Medical Treatment Guideline Sets for Injured Workers in California

Table S.2
Technical Quality Evaluation—AGREE Instrument Results
(Standardized Domain Scores)

Domain	AAOS	ACOEM	Intracorp	McKesson	ODG
Scope and purpose	1.00	0.89	0.89	1.00	1.00
Stakeholder involvement	0.54	0.79	0.79	0.88	0.79
Rigor of development	0.81	0.88	0.83	0.88	0.81
Clarity and presentation	0.96	0.88	1.00	1.00	0.96
Applicability	0.17	0.33	0.33	0.61	0.72
Editorial independence	1.00	1.00	0.75	1.00	0.92

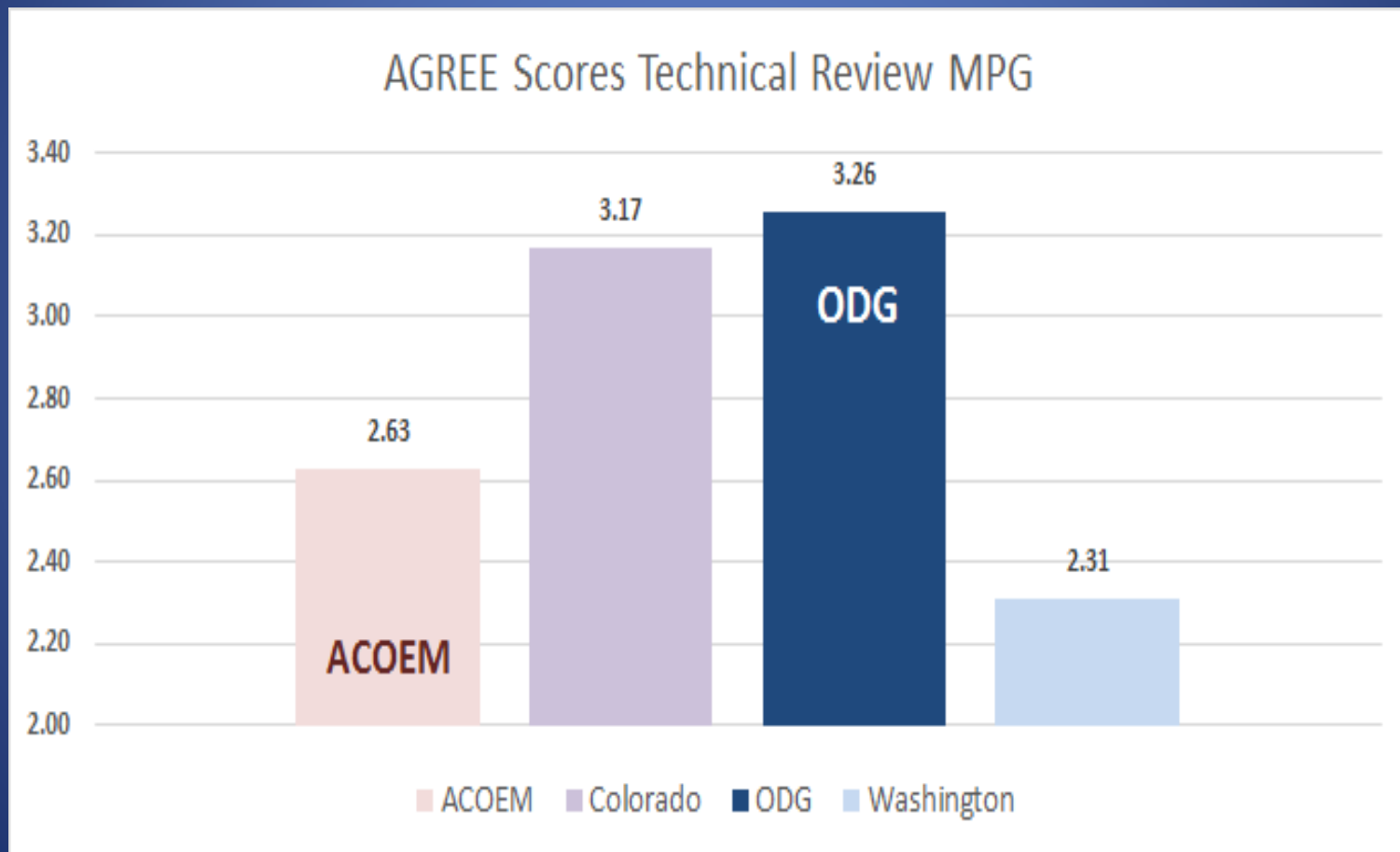
Nuckols TK et al. Evaluating Medical Treatment Guideline Sets for Injured Workers in California. Published 2005 by the RAND Corporation, 1776 Main Street, P.O. Box 2138, Santa Monica, CA 90407-2138. Table 5.2, page 32. http://www.rand.org/pubs/monographs/2005/RAND_MG400.sum.pdf



Ju H, Liufu Z, Newton S, Merlin T (2008). Systematic review of clinical practice guidelines on the management of acute/subacute soft tissue injuries to the low back. tracSA, Adelaide, SA.

AGREE Domain	ODG Score
Scope and Purpose	83%
Stakeholder Involvement	88%
Rigour of Development	83%
Clarity of Presentation	92%
Applicability	83%
Editorial Independence	92%
Average Score Across AGREE Domains	87%
ODG recommended for use (yes or no)?	Yes

2010 Montana L&I



Technical Quality and Clinical Acceptability of a Utilization Review Guideline for Occupational Conditions

ODG® Treatment Guidelines by the Work Loss Data Institute. Rand, 2017 (Nuckols, Shetty, Raaen, Khodyakov).

AGREE Domain	Score
Scope and Purpose	64%
Stakeholder Involvement	67%
Rigor of Development	55%
Clarity of Presentation	75%
Applicability	74%
Editorial Independence	69%
Average Score Across AGREE Domains	67%
Recommended for Use (yes or no):	Yes

Formularies

Many out there with multiple variations

Commercial—full adoptions, customization,
list-only

State-specific

What is a Drug Formulary?

ODG STATUS

N



ODG STATUS

Y

for·mu·lar·y

noun

1. an official list giving details of medicines that may be prescribed.

Other formularies

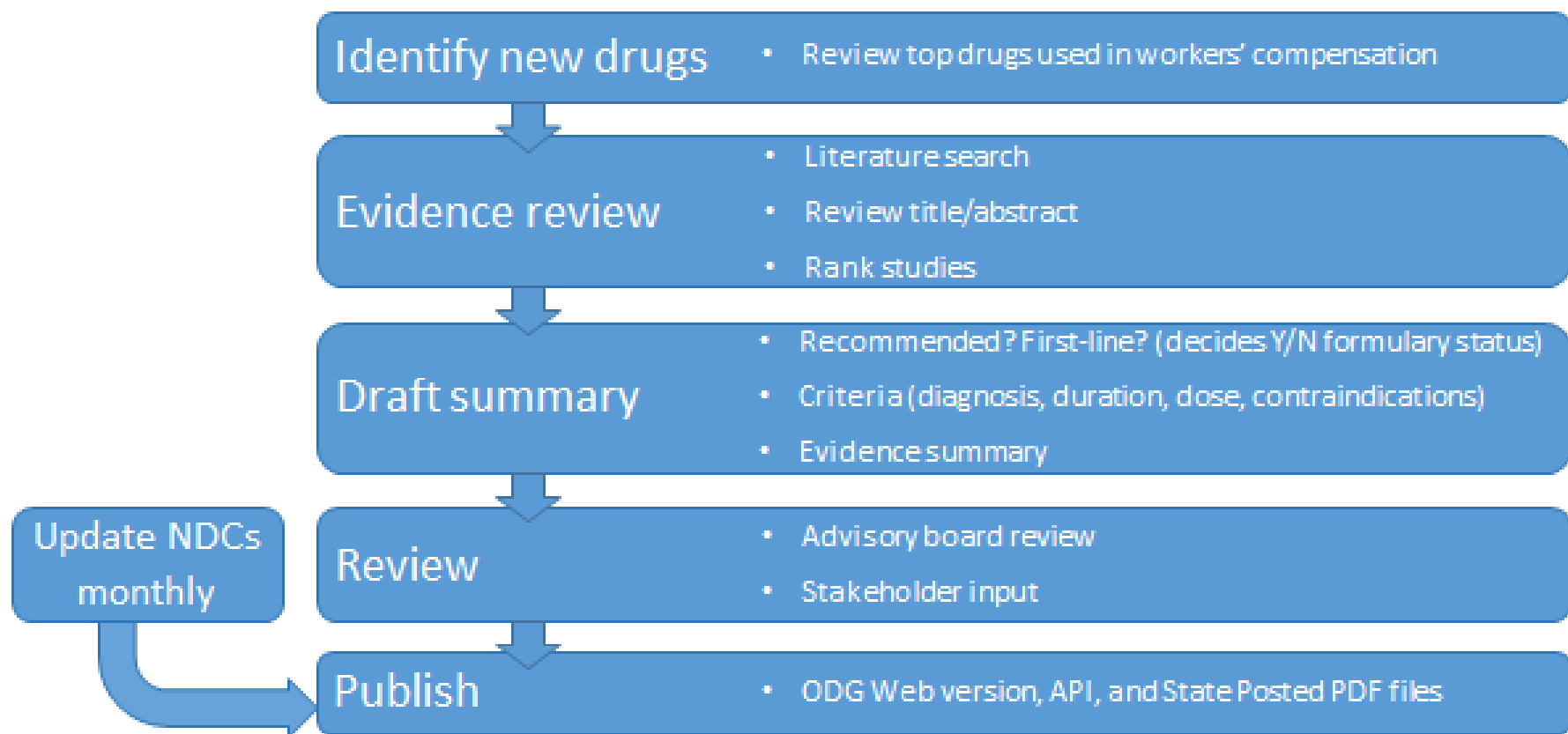
EXAMPLES

California MTUS—Exempt, non-exempt

New York WBC—Preferred, non-preferred

Washington L&I—Allowed, prior
authorization required, denied

	Drug Ingredient	Reference Brand Name	Preferred / Non-Preferred* Exempt/Non-Exempt*	Special Fill**	Peri-Op***	Drug Class	Reference in Guidelines	Dosage Form	Strength	Unique Product Identifier(s)
1	Acetaminophen	Tylenol	Preferred-Exempt			Analgesics - NonNarcotic	✓☑ Ankle and Foot Disorders ✓ Cervical and Thoracic Spine Disorders ✓ Chronic Pain ✓X Elbow Disorders ✓ Eye ✓X Hand, Wrist, and Forearm Disorders ✓ Hip and Groin Disorders ✓ Knee Disorders ✓ Low Back Disorders ✓ Shoulder			
2	Adalimumab	Humira	Non-Preferred-Non-Exempt			Analgesics - Anti-Inflammatory (TNF-alpha blocker)	X Chronic Pain X Hip and Groin Disorders X Knee Disorders X Low Back Disorders			
3	Albuterol Sulfate	Proventil	Preferred-Exempt			Antiasthmatic and Bronchodilator Agents	✓ Work Related Asthma			
4	Alclometasone Dipropionate	Aclovate	Non-Preferred-Non-Exempt			Dermatologicals	✓ Ankle and Foot Disorders			
4 5	Alendronate Sodium	Fosamax	Non-Preferred-Non-Exempt			Endocrine and Metabolic Agents- Misc. (Bisphosphonate)	✓X Chronic Pain ✓☑ Hip and Groin Disorders ☑ Knee Disorders X Low Back Disorders ✓ Shoulder			
5 6	Amantadine HCL	Symmetrel	Non-Preferred-Non-Exempt			Antiparkinson Agents (NMDA receptor antagonist)	X Chronic Pain X Low Back Disorders			
7	Aminonide	Cyclocort	Non-Preferred-Non-Exempt			Dermatologicals	✓ Ankle and Foot Disorders			
6 8	Amitriptyline HCL	Elavil	Non-Preferred-Non-Exempt			Antidepressants (TCAs)	✓X Cervical and Thoracic Spine Disorders ✓ Chronic Pain X☑ Hip and Groin Disorders ✓X☑ Knee Disorders ✓☑ Low Back Disorders ✓X Shoulder			
7 9	Amlodipine Besylate	Norvasc	Non-Preferred-Non-Exempt			Calcium Channel Blockers	✓ Hand, Wrist, and Forearm Disorders			
8 10	Amoxicillin/Clavulanate P	Augmentin	Preferred-Exempt			Antibiotics (Penicillins)	✓☑ Ankle and Foot Disorders ✓ Hand, Wrist, and Forearm Disorders ✓ Low Back Disorders			
11	Anakinra	Kineret	Non-Preferred-Non-Exempt			Analgesics - Anti-inflammatory	X Knee Disorders			
9 12	Apixaban	Eliquis	Non-Preferred-Non-Exempt		14 Days 4 Days	Anticoagulants	☑ Ankle and Foot Disorders ✓ Hip and Groin Disorders ✓ Knee Disorders			



Expanding the Formulary

Formulary directly linked to Criteria

Official Disability Guidelines

www.odg-twc.com

ODG Navigator

Toolbox:
[Select...]

Search

Main Menu

ICD Index

CPT Index

Help

Procedure Index:
[Select...]

Show URL

ODG Evidence-Based Decision Support

Training: [ODG: Good to Go!](#) (automated) or [Webinars](#) (live) ~ Join [Email List](#)

Benzodiazepines	<p>Not recommended for treatment of acute or chronic pain.</p> <p>See Benzodiazepines in the Mental Illness and Stress Chapter. See also Anxiety medications in chronic pain; & Insomnia treatment. Benzodiazepines that are commonly prescribed include the following: alprazolam, chlordiazepoxide, clonazepam, clorazepate, diazepam, estazolam, flurazepam, lorazepam, midazolam, oxazepam, quazepam, temazepam, & triazolam. (Clinical Pharmacology, 2016).</p> <p>Benzodiazepines are Not Recommended as first-line medications by ODG.</p> <p>Criteria for use if provider & payer agree to prescribe anyway:</p> <ol style="list-style-type: none">1) Indications for use should be provided at the time of initial prescription.2) Authorization after a one-month period should include the specific necessity for ongoing use as well as documentation of efficacy. <p>There is no evidence that benzodiazepines help with the core symptoms of chronic pain, and in fact, there is limited suggestion that this class of drugs antagonizes opioid analgesia. (Gear, 1997) Research suggests that there is no positive evidence for the use of benzodiazepines in any area of long-term chronic pain treatment. (Gauntlett-Gilbert, 2016) Benzodiazepine use is associated with adverse drug events and mortality, and substantial harm is found with long-term use. Benzodiazepines are a major cause of overdose, particularly as they act synergistically with other drugs such as opioids and/or alcohol (mixed overdoses are often a cause of fatalities). (Jones, 2014)</p> <p><u>Indications:</u> Range of action of this class of drugs includes as a sedative/hypnotic, anxiolytic, anticonvulsant, and muscle relaxant. Chronic benzodiazepines are the first-line treatment of choice in very few conditions. This class of drugs is utilized as first-line treatment in hospital settings for emergency seizure treatment and for alcohol and/or sedative hypnotic withdrawal. Benzodiazepines can be used as a "bridge treatment" as first-line drugs are initiated for anxiety and panic disorder. (Cheatle, 2015)</p> <p><u>Adverse effects with use:</u> (1) Adverse effects with use include physiological and psychological dependence. This can occur within 1-2 weeks of use. Caution is suggested when prescribing this class of drugs to patients with a known or suspected history of substance abuse. Non-medical use has been reported in 16% of patients, and abuse or dependence in 4.6% of patients prescribed benzodiazepines for anxiety in one study. (Fenton, 2010) (2) Elevated rates of respiratory suppression, which can lead to mortality, have been noted in patients on benzodiazepines. This is particularly in those with lung disease (including COPD and obstructive sleep apnea). (3) Use is associated with sedation, dysphoria, depression and cognitive impairment (including memory problems). (Barker, 2004) (4) Multiple articles have been published linking benzodiazepine use and accident risk, with the highest</p>
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Opioid (oral or transdermal)	Dose		Morphine Equivalent Dosage
Codeine	<input type="text" value="10"/>	mg per day	1.50 morphine equivalent dosage (MED) per day.
Fentanyl Oral	<input type="text"/>	mg per day	
Fentanyl Transdermal	<input type="text"/>	mcg/hr	
Hydrocodone	<input type="text" value="15"/>	mg per day	15.00 morphine equivalent dosage (MED) per day.
Hydromorphone	<input type="text"/>	mg per day	
Methadone	<input type="text"/>	mg per day	
Morphine	<input type="text" value="25"/>	mg per day	25.00 morphine equivalent dosage (MED) per day.
Oxycodone	<input type="text"/>	mg per day	
Oxymorphone	<input type="text"/>	mg per day	
Tapentadol	<input type="text"/>	mg per day	
Tramadol	<input type="text"/>	mg per day	
65084-0305 - Vicodin Es Tablets	<input type="text" value="35"/>	mg per day	35.00 morphine equivalent dosage (MED) per day.
<input type="text" value="DURA"/>	<input type="text"/>		76.50 Total daily morphine equivalent dose (MED) per day.

Enter drug name or NDC code

DURA

- 54868-3076 - [Duragesic 50 Transdermal System](#) - 50
- 16590-0716 - [Duragesic C II Patch](#) - 10;4mg
- 16590-0703 - [Duragesic C-11 Patch](#) - 2.5mg/unt
- 16590-0730 - [Duragesic C2 Patch](#) - 5mg
- 68115-0570 - [Duragesic dis 25mcg/hr](#) - 25 MCG/HR
- 54868-3074 - [Duragesic dis 25mcg/hr](#) - 25 MCG/HR
- 54868-5706 - [Duragesic Fentanyl Transdermal System](#)

ine doses when converting patients from one opioid to another. Dose ratios are approximations
bles like increased risk of overall opioid toxicity. See Chronic Pain chapter for complete [ODG Opioid](#)

Opioid Dosing

Up to
50 MED

USE

50-75
MED

HIGH

75-100
MED

EXTREME

100+
MED

LIMIT

Find:

Previous Next

Options ▼

Sorted by ODG Class:

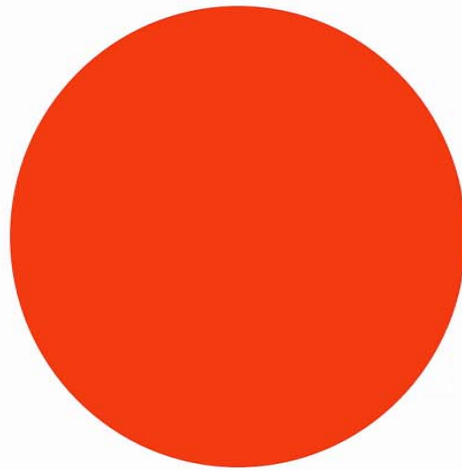
ODG Workers' Compensation Drug Formulary					
Drug Class	Generic Name	Brand Name	GE	Status	Cost
Analgesics, narcotics	See Opioids .				
Analgesics, NSAIDs	See NSAIDs (non-steroidal anti-inflammatory drugs).				
Analgesics, OTC	See Nonprescription analgesics .				
Anticonvulsants	See Anti-epilepsy drugs (AEDs).				
Antidepressants (for pain)	Amitriptyline	Elavil®	Y	Y	\$2.72
Antidepressants	Bupropion	Wellbutrin®	Y	N	\$86.45
Antidepressants	Duloxetine	Cymbalta®	N	Y	\$113.70
Antidepressants	Escitalopram	Lexapro®	N	N	
Antidepressants	Fluoxetine (for pain)	Prozac®	Y	N	\$15.00
Antidepressants	Sertraline (for pain)	Zoloft®	Y	N	\$86.20
Antidepressants	Venlafaxine	Effexor®	Y	Y	\$102.21
Antidepressants	Venlafaxine ER	Effexor ER®	Y	Y	
Antidepressants (NSRIs)	Milnacipran	Savella/Ixel®	N	N	
Antidepressants (SNRIs)	Duloxetine	Cymbalta®	N	Y	\$113.70
Antidepressants (SNRIs)	Venlafaxine	Effexor®	Y	Y	\$102.21
Antidepressants (SSRIs) (for depression)	Fluoxetine, Sertraline (for depression)	Prozac®, Zoloft®	Y	Y	
Antidepressants (SSRIs) (for pain)	Citalopram (for pain)	Celexa	Y	N	
Antidepressants (SSRIs)				N	

N Drug Use in Texas

Number of N-Drug Prescriptions per Year 2009 versus 2015

Pre-ODG Formulary

Post-ODG Formulary



3 3 5 , 0 7 7



2 6 , 7 0 1

The combined and powerful effect of the ODG treatment guidelines and ODG Drug Formulary.

Texas

Proving Ground

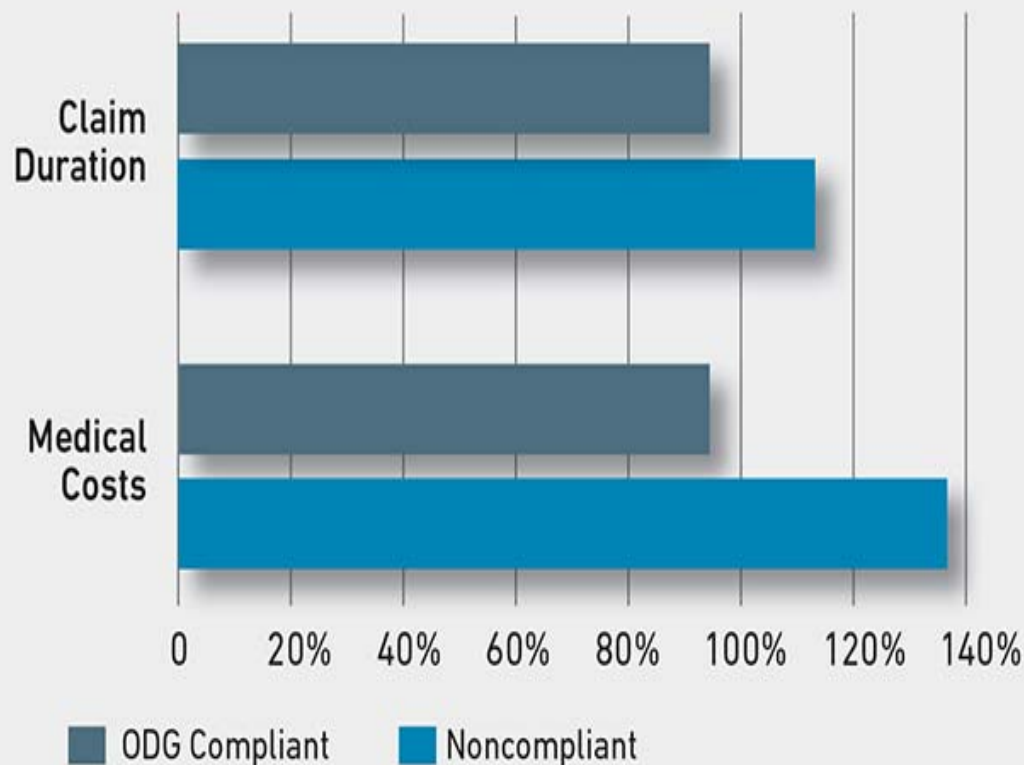
- Texas (adopts ODG guidelines in 2007, ODG Formulary in 2011)
 - Work comp premiums down 51%
 - Average lost-time down -34%, median -30%
 - RTW rates way up (acute, sub-acute, chronic)
 - Medical costs down 30% (N drugs down 81%)
 - Access to care up 42%
 - Jumps 26 slots in WC Premium Ranking,
State Report Cards from WC from F to B
 - [NASI study](#): Texas now lowest cost state

Independent Research: JOEM Study

Impact of Treatment Guidelines on Claims Outcomes

According to the "Journal of Occupational and Environmental Medicine," evidence-based medicine has a major impact on the duration and cost of claims.

ODG Compliance on Claims Outcomes



RAND

Recommendations:

- Compatibility with Medical Treatment Utilization Schedule
- **Condition-specific requirements should be imposed sparingly.**
- “A traditional formulary is a list of covered drugs with rules on how the drugs may be accessed and under which conditions”.
- Formulary should be operationalized with NDC codes, would need to be created for ACOEM or MTUS, **updated quarterly.**
- The ‘Y/N’ structure of formulary preauthorization rules makes it easier to operationalize because it does not require diagnostic information.

Implementing a Drug Formulary for California's Workers' Compensation Program

Barbara O. Wynn, Christine Buttorff, Erika Meza, Erin A. Taylor,
Andrew W. Mulcahy

“Living Document”

- Any EBM guideline remains alive only through frequent and diligent updating
- Real-world examples demonstrate the importance of staying relevant

“Living Document”

- Arthroscopic meniscectomy
- Bone stimulators (LIPUS)
- Stem cells
- Platelet-rich plasma (PRP)
- Corticosteroid injections-Zilretta®
- Robotics/navigation
- Functional capacity evaluation (FCE)
- BMI—joint replacement
- Outpatient joint replacement surgery
- Prolotherapy

Arthroscopic meniscectomy

- Not recommended with ANY imaging signs of OA/degenerative tear or symptoms > 1 year
- Arthroscopic surgery for OA not recommended except for locking from large loose bodies

Bone stimulators (LIPUS)

- Low-intensity pulsed ultrasound
- No longer ever recommended for fresh fractures, even with risk-factors
- Still appropriate for delayed or non-union

Stem cells

- “Not recommended”
- SC clinics under scrutiny/investigation by FDA
- Shoddy research abounds
- N. American SC clinics direct to consumer advertising for “pay to participate” studies
- NIH implicated for lack of standards on ClinicalTrials.gov

Platelet-rich plasma (PRP)

- Currently some promise but indications very limited, still controversial
- Knee OA (mild/moderate)—6 months conservative, < 50, failed CSI, once yearly
- Refractory patellar tendinosis—12 months, single injection only
- Elbow lateral epicondylitis—12 months, single injection only

Corticosteroid injections

- Concerns with time and dose-related chondrotoxic effects of steroids and local anesthetics
- Delay joint replacement following CSI (TKA 6 months, TKA 12 months)
- Diabetics beware
- Zilretta[®] is FDA-approved for 1-time only knee OA injection, but data preliminary

Robotics/navigation

- Not recommended lacking evidence of improved clinical outcomes
- Incidental to the primary surgical procedure and not separately billable
- Does not cause harm, but can lengthen surgery time
- Customized joint replacement components also not recommended

Functional capacity evaluation (FCE)

- Only recommended before and at conclusion of a work hardening program
- Not recommended with physical therapy, work conditioning, or for other screening purposes

BMI joint replacement

- Obesity epidemic
- Complications expected
- TKA and TSA BMI <40 following documented weight loss effort >35
- THA <35 following documented weight loss effort >30

Outpatient joint replacement surgery

- Controversial with Medicare and between hospitals and surgery centers
- Growing literature evidence to support for younger patients without co-morbidities
- More appropriate for primary UKA, TKA, THA, and TSA in descending order

Prolotherapy

- Hypertonic dextrose injections
- Resurgence in “Regenerative medicine” clinics
- Research remains very poor after 50 years
- Only recommended as 2nd-line for lateral epicondylitis meeting criteria for surgery