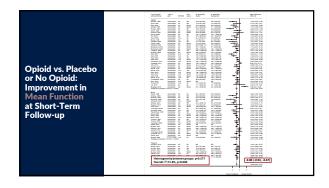
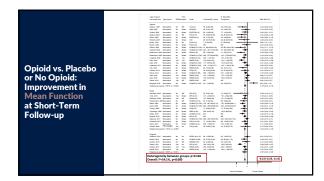
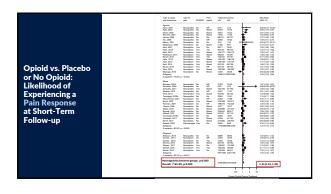
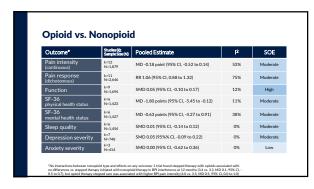


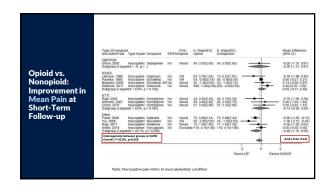
Outcome	Studies (k); Sample Size (N)	Pooled Estimate*	l <sup>2</sup>	SOE
Pain intensity (continuous)	k=70 N=19,486	MD -0.80 point (95% CI, -0.94 to -0.67)	72%	High
Pain response (dichotomous)	k=43 N=12,351	RR 1.35 (95% CI, 1.24 to 1.49) ARD 15% (95% CI, 11% to 19%)	82%	High
Function	k=43 N=12,297	SMD -0.22 (95% CI, -0.28 to -0.16)	54%	High
SF-36 physical health status	k=22 N=7,875	MD 1.65 points (95% CI, 1.09 to 2.1)	0%	High
SF-36 mental health status	k=20 N=7,456	MD -0.52 point (95% CI, -1.45 to 0.41)	64%	High
Sleep quality	k=24 N=6,590	SMD -0.25 (95% CI, -0.33 to -0.19)	0%	Moderate
Depression severity	k=8 N=1,079	SMD 0.00 (95% CI, -0.22 to 0.18)	40%	Moderate

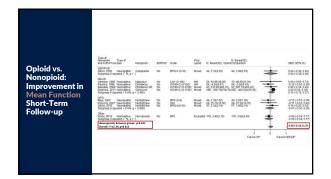


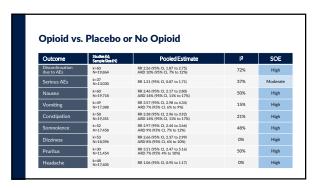


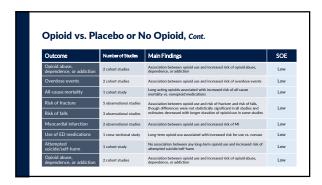


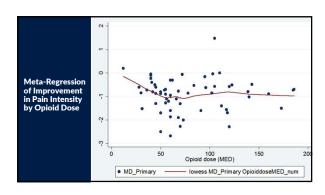


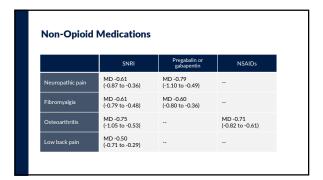


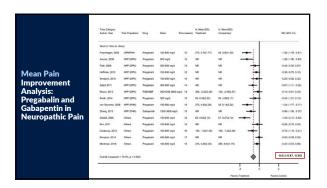


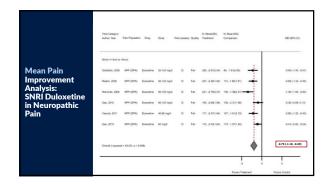


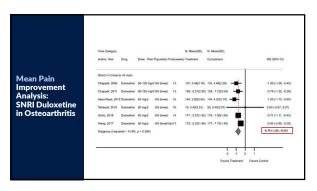


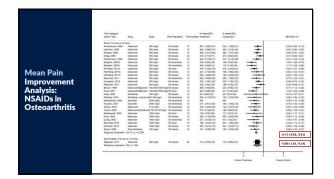


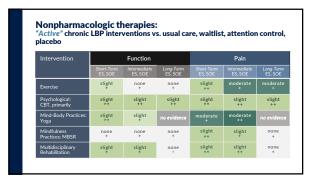


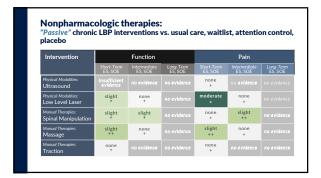


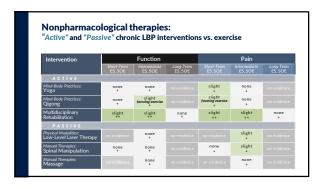


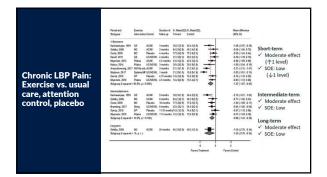




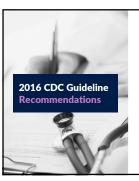










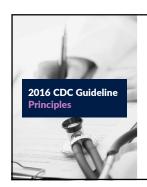


#### 12 recommendations in 3 areas

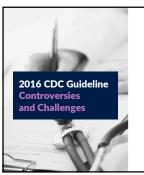
- When to initiate or continue opioids
- Opioid selection, dosage, duration, follow-up, and discontinuation
- follow-up, and discontinuation
  Assessing risk and addressing the harms
  of opioid use
  All recommendations category A (strong)
  except 1 recommendation category B
  (conditional) on urine drug testing

### All evidence for recommendations

- evidence for recommendations type 3 (RCTs with notable limitations, or observational studies), or type 4 (RCTs with major limitations, or observational studies with notable limitations/clinical experience) except 1 category 2 (RCTs with limitations or strong observational studies) on treatment for OUD



- Judicious use of opioids for chronic pain based on individualized risk assessment; nonopioid therapies preferred
- Treatment goals including impact on function as well as pain
- function as well as paur
  Risk mitigation strategies: Initiation, dose,
  selection of opioids, co-prescribing, urine
  drug toxicology, prescription drug
  monitoring programs, naloxone
- Continuation of opioids based on periodic re-assessment
- Taper or discontinue if benefits don't outweigh harms
- For acute pain, use doses and amount necessary (usually <3 days; rarely >7 days)



- Guideline applied to populations it was not intended for
- Guideline interpreted as prohibiting opioids for chronic pain
- Application of inflexible dose thresholds
- "...carefully reassess evidence of individual benefits and risks when increasing dosage to £50 morphine mg equivalents (MME)/day.void increasing dosage to £90 morphine mg equivalents (MME)/day.void increasing dosage to £90 morphine mg equivalents (MME)/day or carefully justify a decision to titrate dose to £90 MME."
- "...empathically review benefits and risks of continued high-dosage therapy...For patients who agree to taper opioids...clinicians should collaborate with the patient on a tapering plan."
- Harms of "forced" tapering and optimal methods for tapering
- Duration parameters for acute pain may be too short for some situations
- Dose and duration thresholds arbitrary



Centers for Disease Control and Prevention

Modulidry and Mortality Weekly Report

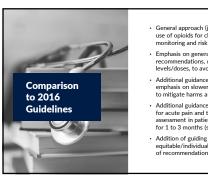
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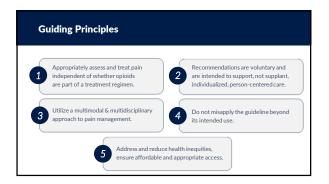
# Prescribing Opioids for Pain — The New CDC Clinical

Practice Guideline
Deborah Dowell, M.D., M.P.H., Kathleen R. Ragan, M.S.P.H., Christopher M. Jones, Pharm.D., Dr.P.H.,
Grant T. Baldwin, Ph.D., M.P.H., and Roger Chou, M.D.

pain affects the loss of mls-tentially belgful therapies. Fur-less of American and po-tentially reduces their level of dispaties in pain management function, mental health, and secreting to near or exhini-tentially reduces their level of dispaties in pain management point of the control of the control of the control of the carrier painting the evidence among other factors. Opposition density, supporting paint termsem pare-ers term may poole with pain from to treat pain, despite evidence consequent painting and point painting the control of the second path of the control of the control of the control of the control of the second path of the control of the control of the control of the control of the second path of the control of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path of the control of the control of the control of the second path



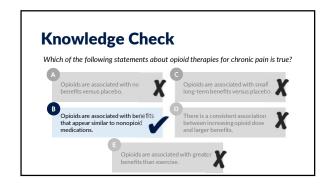
- General approach (judicious, individualized use of opioids for chronic pain with close monitoring and risk mitigation) unchanged
- Emphasis on general principles in recommendations, rather than specific levels/doses, to avoid inflexible application
- Additional guidance on tapering, including emphasis on slower tapers and strategies to mitigate harms and increase success
- Additional guidance on the use of opioids for acute pain and the need for re-assessment in patients receiving opioids for 1 to 3 months (subacute pain)
- Addition of guiding principles to facilitate equitable/individualized implementation of recommendations



## Conclusions

- $Opioids \, associated \, with improved \, pain \, and \, function \, vs. \, placebo \, but \, increased \, risk \, of \, harms \, that \, appears \, dose-dependent.$
- Little difference between opioids vs. nonopioids in pain or function.
- Evidence on alternative opioid dosing strategies, tapering, and risk mitigation is limited.
- Several nonopioid medications associated with short-term benefits vs. placebo for various chronic pain conditions, but increased risk of withdrawal due to AE.
- Several nonpharmacologic interventions associated with benefits on pain or function beyond the course of therapy for specific chronic pain conditions; most effects sizes are small; evidence for "active" vs. "passive" interventions may inform treatment selection.
- Benefits of all therapies for chronic pain are small, with limited data on longer-term outcomes.
- The subsequent series of three updates did not change the main conclusions.
- 2022 CDC guideline retains a judicious, individualized approach to the use of opioids but attempts to reduce misapplication by focusing on general principles rather than specific levels/parameters.

# **Knowledge Check** Which of the following statements about opioid therapies for chronic pain is true? Opioids are associated with no benefits versus placebo. Opioids are associated with small long-term benefits versus placebo. Opioids are associated with benefits that appear similar to nonopioid medications. There is a consistent association between increasing opioid dose and larger benefits. Opioids are associated with greater benefits than exercise.



## References

- AHRQ review on nonpharmacological therapies:
   https://effectivehealthcare.ahrq.gov/products/noninvasive-nonpharm-pain-update/research
   AHRQ review on nonopioid therapies:
   https://effectivehealthcare.ahrq.gov/products/nonopioid-chronic-pain/research

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  A HRQ review on opioid treatments:
  https://effectivehealth.care.ahrq.gov/products/opioids-chronic-pain/research

  2022 CDC guideline on opioids for pain: Dowell D, Ragan KR, Jones CM, Baldwin GT, Chou

  R. CDC Clinical Practice Guidelines for Prescribing Opioids for Pain—United States, 2022.
  MMWR Recomm Rep 2022;71:1-95
- SPACE trial: Krebs EE et al. Effect of opioid vs. nonopioid medications on pain-related function in patients with chronic back pain or hip or knee osteoarthritis pain. The SPACE randomized clinical trial. JAMA 2018;319: 872-82.