**S1 Table. Master Data Extraction Sheet. Table with information on sponsor/author, guidelines name, references, elements known to introduce bias, number of red flags and uncertain rating and notes for each guideline.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sponsor/Author | Guideline | Ref  | Sources | Element known to introduce potential bias | Red flags  | Notes |
| American College of Occupational and Environmental Medicine (ACOEM) | ACOEM Guidelines for Chronic Use of Opioids (2011) | [1] | Email communicationSupplementary materials [2] | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/ANo flag No flagRed flagNo flagNo flagRed flag | Not stated. No pharma industry sponsors in searchesN/ANot stated: ACOEM provided names and COI via email. No pharma industry conflicts reported for chairs or found in searchesNot stated: ACOEM provided names and COI via email. No pharma industry conflicts reported committee members15 panel members, 1 addictions expertise (1/15 =7%)Standing methodology committee that provides guidance/oversight. Sent for external review according to supplementary materials: ACEOM guidelines methodology document Two non-physicians, no patients  |
| American Geriatrics Society (AGS) | Pharmacological Management of Persistent Pain in Older Persons and Management of Persistent Pain in Older Persons (2009) | [3,4] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | Red FlagN/ARed FlagRed flagNo flagRed flagNo flagRed flag | Not stated. Has pharma industry sponsors in searches N/AStated: none but COI for chair with Purdue and Endo pharma companies (2007) found in searches Stated: many members with COI with pharma10 members, 1 with expertise in addictions (10%) No methodologist in lead role or providing oversightSent for external reviewTwo non-physicians, no patients |
| American Pain Society and American Academy of Pain Medicine (APS and AAPM) | Clinical Guidelines for the Use of Chronic Opioid Therapy in Chronic Noncancer Pain (2009)  | [5–7] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients  | Red FlagN/ARed FlagRed FlagRed flagNo flagNo flagRed flag  | Not stated. Pharma industry sponsors reported in annual reportN/AStated: Co-chairs- one with conflicts Stated: 7 with pharma industry conflicts14 members, 1 addiction MD (1/14) (7%) Chair is methodologist, expert in systematic reviews Sent for external reviewThree non-physicians, no patients |
| American Society of Anesthesiologists (ASA) | Practice Guidelines for Chronic Pain Management: An Updated Report by the American Society of Anesthesiologists Task Force on Chronic Pain Management and the American Society of Regional Anesthesia and Pain Medicine (2010) | [8] | Email communication | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | Red flagN/ANo flagUncertain\*Red flagNo flagRed flagRed flag | Not stated. Has pharma industry sponsors in searchesN/ANone stated, no pharma industry conflicts in searchesNot stated: in guideline materials, when emailed, they refused to provide and put me in contract with their lawyer13 members, none with addictions expertiseTwo consulting methodologist from ASA standards committeeReview only within the ASA/ASRA and their national meetingsNo non-physicians or patients on committee  |
| American Society of Interventional Pain Physicians (ASIPP) | American Society of Interventional Pain Physicians (ASIPP) Guidelines for Responsible Opioid Prescribing in Chronic Non-Cancer Pain (2012) | [9,10] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/ANo flagNo flagRed flagRed flagNo flagRed flag | Not stated. No pharma funding found in searchesN/ANone stated, no pharma industry conflicts in searchesStated: 1 author had conflicts of interest with pharma industry (1/55) 55 members, no addiction experts No methodologist in lead role/oversight roleSent for external reviewSome non-physicians, no patients  |
| National Opioid Use Guideline Group (NOUGG) | Canadian Guideline for Safe and Effective Use of Opioids for Chronic Non-Cancer Pain (2010) | [11–14] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelistsCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/ARed flagRed flagNo flagNo flagNo flagRed flag  | Stated funded by governmental grant to NOUGG, a subcommittee of Federation of Medical Regulatory Authorities of Canada N/AStated one had conflicts of interest with pharma (two immediate family members worked for pharma industry)Stated: 3/5 conflicts of interest with pharma industry5 members, 3/5 addictions expertiseChair is epidemiologistSent for external reviewNo patients on committee, some non-physicians |
| Colorado Division of Workers’ Compensation (Colorado DWC) | Chronic Pain Disorder Medical Treatment Guidelines (2011) | [15] | Email communication | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/AUncertain\*Uncertain\*No flagRed flagRed flagRed flag  | Not stated, no pharma industry funding found in searchesN/ANot Stated: Email response Colorado DWC, chairs not named, COI not collected at time Not stated: Not done at time according to email response from Colorado DWC15 members, 2 addiction expertise (2/15) (13%) None listedNo external review mentionedNon physicians, no patients  |
| Fine et al, 2009 | Establishing “Best Practices” for Opioid Rotation: Conclusions of an Expert Panel (2009) | [16] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | N/ARed flagRed flagUncertain\*Uncertain\* Red flagRed flagRed flag | N/AStated: Supported by an unrestricted grant from Endo Pharmaceuticals Stated: authors state no conflicts, searches show both had conflicts with pharma industry in 2008 including Purdue Stated: “The authors declare no financial conflicts with respect to this work”. 12 members, no addiction expertsBoth chairs are content expertsNo external review mentionedTwo non-physicians, no patients |
| Institute for Clinical Systems Improvement (ICSI) | Assessment and Management of Chronic Pain (2011)\*\*via email because no longer available online  | [17] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/ANo flagNo flagRed flagRed flagNo flagNo flag  | Not stated but no private sponsorship, as per its own guidelines. No pharma funding found in searchesN/AStated: none and none in searches Stated: 1 with pharma conflict- stock holdings and speakers bureau10 members, no addiction experts Co-leads are content experts, ICSI staff do literature search/reviewSent for external review Have patient advisory group and non-physician members |
| University of Michigan Health System (UMHS) | Managing Chronic Non-Terminal Pain in Adults, Including Prescribing Controlled Substances (2012)\*\* via email because no longer available online | [18] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/ANo FlagNo FlagRed flagRed flagRed flagRed flag | Not stated, no pharma industry funding found in searchesN/AStated no conflicts and none in searchesStated: 1 with conflicts 9 members, no addiction expertsLeads are content experts, used literature review from VA in 1998/2002Not statedNon-physicians, no patients |
| Utah Department of Health (UDOH) | Utah Clinical Guidelines on Prescribing Opioids for Treatment of Pain (2009) | [19,20] |  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/ANo flagNo flagNo flagNo flagNo flagRed flag | Not stated. None found in searchesN/AStated: no conflicts stated, and none found with searchesStated: one panelist has many conflicts with pharma12 members, 2/12 are addiction experts (17%)Chair is methodologistSent for external review Five non-physicians, no patients |
| Veterans Affairs and Department of Defense (VA/ DoD) | Clinical Practice Guideline for Management of Opioid Therapy for Chronic Pain (2010) | [21] | Email communicationSupplementary materials [22] | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | Red flagN/ARed flagUncertain\*No flagNo flagNo flagRed flag | Not stated. Has pharma industry sponsors found in searchesN/ANot stated. Searches: one chair on national board directors 2009 for APF (90% pharma-funded including Purdue) Not stated, email response- no relevant conflicts but no additional information provided 20 members, 2 addiction specialists (2/20) (10%)Have oversight methodology committee Sent for external review according to supplementary material Two non-physicians, no patients |
| Work Loss Data Institute (WLDI) | Pain (Chronic) (2011) | [23] | Email communication  | Sponsor is conflicted: Industry/unknown sponsor:Committee chair conflictedMultiple panelists conflictedCommittee stackingLimited methodologistNo external reviewNo non-physicians or patients | No flagN/ANo flagNo flagRed flagRed flagNo flagRed flag | Not stated. No pharma industry sponsors in searchesN/ANot stated: From email: no conflicts. Nothing in searchesNot stated: Emailed me list of participants, no pharma COI 17 members, no addiction expertsNo lead or oversight by methodologistYes, sent for external reviewNon physicians, but no patients |
|  |  |  |  |  |  |  |

APF = American Pain Foundation, ASRA= American Society of Regional Anesthesia and Pain Medicine, COI = conflict of interest, N/A = not applicable, pharma = pharmaceutical company

\* Element that could not be confidently appraised with available information

**References**

1. American Coll of Occupational and Environmental Medicine. ACOEM Guidelines for Chronic Use of Opioids. American Coll of Occupational and Environmental Medicine; 2011. Available: https://www.nhms.org/sites/default/files/Pdfs/ACOEM%202011-Chronic%20Pain%20Opioid%20.pdf

2. American College of Occupational and Environmental Medicine. Methodology for ACOEMʼs Occupational Medicine Practice Guidelines, 2011 revision. 2011. Available: https://www.acoem.org/gmc.aspx

3. American Geriatrics Society Panel on Pharmacological Management of Persistent Pain in Older Persons. Pharmacological management of persistent pain in older persons. J Am Geriatr Soc. 2009;57: 1331–1346. doi:10.1111/j.1532-5415.2009.02376.x

4. AGS Panel on Persistent Pain in Older Persons. The management of persistent pain in older persons. J Am Geriatr Soc. 2002;50: S205-224.

5. Chou R. 2009 Clinical Guidelines from the American Pain Society and the American Academy of Pain Medicine on the use of chronic opioid therapy in chronic noncancer pain: what are the key messages for clinical practice? Pol Arch Med Wewn. 2009;119: 469–477.

6. Chou R, Fanciullo GJ, Fine PG, Adler JA, Ballantyne JC, Davies P, et al. Clinical Guidelines for the Use of Chronic Opioid Therapy in Chronic Noncancer Pain. The Journal of Pain. 2009;10: 113-130.e22. doi:10.1016/j.jpain.2008.10.008

7. American Pain Society, American Academy of Pain Medicine. Guideline for the Use of Chronic Opioid Therapy in Chronic Noncancer Pain: Evidence Review. American Pain Society, American Academy of Pain Medicine; 2009. Available: http://americanpainsociety.org/uploads/education/guidelines/chronic-opioid-therapy-cncp.pdf

8. American Society of Anesthesiologists Task Force on Chronic Pain Management, American Society of Regional Anesthesia and Pain Medicine. Practice guidelines for chronic pain management: an updated report by the American Society of Anesthesiologists Task Force on Chronic Pain Management and the American Society of Regional Anesthesia and Pain Medicine. Anesthesiology. 2010;112: 810–833. doi:10.1097/ALN.0b013e3181c43103

9. Manchikanti L, Abdi S, Atluri S, Balog CC, Benyamin RM, Boswell MV, et al. American Society of Interventional Pain Physicians (ASIPP) guidelines for responsible opioid prescribing in chronic non-cancer pain: Part I--evidence assessment. Pain Physician. 2012;15: S1-65.

10. Manchikanti L, Abdi S, Atluri S, Balog CC, Benyamin RM, Boswell MV, et al. American Society of Interventional Pain Physicians (ASIPP) guidelines for responsible opioid prescribing in chronic non-cancer pain: Part 2--guidance. Pain Physician. 2012;15: S67-116.

11. Furlan AD, Reardon R, Weppler C, National Opioid Use Guideline Group. Opioids for chronic noncancer pain: a new Canadian practice guideline. CMAJ. 2010;182: 923–930. doi:10.1503/cmaj.100187

12. National Opioid Use Guideline Group. Canadian Guideline for Safe and Effective Use of Opioids for Chronic Non-Cancer Pain. National Pain Centre; 2010. Available: http://nationalpaincentre.mcmaster.ca/opioid\_2010/

13. Kahan M, Mailis-Gagnon A, Wilson L, Srivastava A, National Opioid Use Guideline Group. Canadian guideline for safe and effective use of opioids for chronic noncancer pain: clinical summary for family physicians. Part 1: general population. Can Fam Physician. 2011;57: 1257–1266, e407-418.

14. Kahan M, Wilson L, Mailis-Gagnon A, Srivastava A, National Opioid Use Guideline Group. Canadian guideline for safe and effective use of opioids for chronic noncancer pain: clinical summary for family physicians. Part 2: special populations. Can Fam Physician. 2011;57: 1269–1276, e419-428.

15. Colorado Division of Workers’ Compensation. Chronic Pain Disorder Medical Treatment Guidelines. Colorado Division of Workers’ Compensation; 2011.

16. Fine PG, Portenoy RK, Ad Hoc Expert Panel on Evidence Review and Guidelines for Opioid Rotation. Establishing “best practices” for opioid rotation: conclusions of an expert panel. J Pain Symptom Manage. 2009;38: 418–425. doi:10.1016/j.jpainsymman.2009.06.002

17. Institute for Clinical Systems Improvement. Assessment and Management of Chronic Pain. Bloomington, MN: Institute for Clinical Systems Improvement; 2011. Institute for Clinical Systems Improvement; 2011.

18. University of Michigan. Managing Chronic Non-Terminal Pain in Adults Including Prescribing Controlled Substances. University of Michigan; 2009.

19. Utah Department of Health. Utah Clinical Guidelines on Prescribing Opioids for Treatment of Pain. Utah Department of Health; 2009.

20. Rolfs RT, Johnson E, Williams NJ, Sundwall DN, Utah Department of Health. Utah clinical guidelines on prescribing opioids for treatment of pain. J Pain Palliat Care Pharmacother. 2010;24: 219–235. doi:10.3109/15360288.2010.503265

21. Department of Veterans Affairs, Department of Defense. Clinical Practice Guideline for Management of Opioid Therapy for Chronic Pain. Department of Defense; 2010. Available: http://www.healthquality.va.gov/guidelines/Pain/cot/COT\_312\_Full-er.pdf

22. Department of Veteran Affairs and Department of Defense. Guidelines for guidelines. 2013.

23. Work Loss Data Institute. Pain (chronic). Work Loss Data Institute; 2011.