Evidence table of systematic review on calcium intake and adenoma recurrence

|  |  |
| --- | --- |
| **Author Year [UI]** | Weingarten, 2008 [18254022] |
| **Design** | Randomized controlled trials: Cochrane Library Issue 2, 2007, the Cochrane Colorectal Cancer Group (CCCG) specialized register, MEDLINE (1966 to July 2007 ), Cancerlit (1963 to April 2002), Embase (1980 to July 2007) |
| **Population** | Healthy adults and studies of adults at higher risk of colon cancer due to family history, previous adenomatous polyps, or inflammatory bowel disease |
| **Intervention (Exposure) and Comparator** | Calcium (>1200 mg/d) vs. placebo |
| **Results** | Calcium vs. placebocolorectal adenoma recurrence: OR 0.74, CI 0.58-0.95, P=0.02CRC: OR 0.34, CI 0.05-2.15, P=0.20at least one adverse event requiring discontinuation: OR 0.93, CI 0.42-2.05, P=0.80 |
| **Comments** | Based only on two RCTs (1346 participants). Heterogeneity due to different dose of supplementation (one RCT supplemented with 1200 mg/d and the other RCT with 2000 mg/d). Analysis based on fixed effects model; however, considering there are only two studies, random effects model might have been more appropriate. Analysis on adverse events is based only on reported data of one out of the two RCTs (Barron 1999). Only participants with high risk due to previous adenomas were recruited in these two RCTs; therefore, applicability of the results can only be considered for high risk population. Insufficient evidence to recommend the general use of calcium supplements to prevent colorectal adenoma or colorectal cancer |
| AMSTAR |
| A priori design? | X | Study quality assessment performed? | X |
| **Two independent reviewers?** | X | **Study quality appropriately used in analysis?** | X |
| **Comprehensive literature search?** | X | **Appropriate statistical synthesis?** | X |
| **All publication types and languages included?** |  | **Publication bias assessed?** |  |
| **Included and excluded studies listed?** | X | **Conflicts of interest stated?** | X |
| **Study characteristics provided?** | X |  |  |