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| Title | Methods of assessment of zinc status in humans: an updated review and |
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| | meta-analysis |
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| Creators | Ceballos Rasgado, Marena, Brazier, Anna, Gupta, Swarnim, Moran, Victoria Louise, Pierella, Elisa, Fekete, Katalin and Lowe, Nicola M |

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Studies included in previous version of review $(n = 46^1)$

Reports of studies included in previous version of review (n = 46)

Records excluded: Intervention where effect of Zn cannot be isolated (n=1) Records identified from Medline, Embase and Cochrane as of August 2022:

Registers (n = $18,486^2$)

Records screened (n= 12,149³)

Reports sought for retrieval (n = 372)

Reports assessed for eligibility (n = 250)

New studies included in review (n = 50)Reports of new included studies (n = 54)

Total studies included in review (n = 95)Reports of total included studies (n = 99) Records removed *before screening*:

Duplicate records removed after automatic de-duplication (n=5,189)

Duplicate records removed after manual de-duplication (n=1,148)

Records excluded manually during title and abstract screening (n = 11,777)

Reports not retrieved: 122

Clinical trial register (n=51); Conference abstract (n=38); Full text not found (n=14); duplicated article: (n=13); erratum (n=3); correspondence/comment (n=2); Persian language (n=1)

Reports excluded: 196

Not healthy population (n=44); supplement type not stated (n=29); Do not report biomarker of Zn at baseline and after supplementation (n=37); duplicated study with duplicated results (n=15); intervention where effect of Zn cannot be isolated (n=14); no Zn supplement given (n=10); biofortification (n=6); other form of Zn (Zn lactate, chloride, oxide, aspartate and carnosine) (n=13); supplementation below two weeks (n=5); protocol with no results (n=4); not original study (n=13); self-reported Zn supplements (n=2); participants recently used mineral or vitamin supplements (n=2); case report (n=1); not a human study (n=1)