Efficacy of ginger (Zingiber officinale) in ameliorating chemotherapy-induced nausea and vomiting and chemotherapy-related outcomes: a systematic literature review update and meta-analysis
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Ginger for Chemotherapy-induced nausea and vomiting?

Introduction
Gingerol and shogaol compounds in ginger likely interact with multiple components of the CINV pathway. Previous systematic reviews (Marx et al. 2013 and Lee & Oh 2013) found no consistent effect of ginger as an adjuvant therapy for CINV. Research aim: To update previous systematic reviews which evaluate the efficacy of ginger supplementation in the prevention and management of CINV.

Methods & Included Studies

Search 5 databases → Included adults receiving CTx → Ginger versus placebo/control (including anti-emetics) → Searched 204 records → Included 18 studies (13 new ones) → n=1,652 total participants, 64% female, n=9/18 studies in breast cancer → Low risk of bias in most studies (Cochrane) → Meta-analysis via RevMan → Confidence in body of evidence assessed by GRADE.

Results

NAUSEA INCIDENCE

Figure 1: >1g/day for any duration significantly reduced odds of overall nausea incidence by 42%. GRADE level: very low

VOMITING INCIDENCE

Figure 3: ≤1g/day for any duration significantly reduced odds of overall vomiting incidence by 30%. GRADE level: low

Figure 4: Any dose for >3-days duration significantly reduced odds of overall vomiting by 40%. GRADE level: low

Takeaway messages
✓ No serious safety concerns identified beyond increased risk of reflux
✓ Consistent finding that >3 days of supplementation can improve nausea & vomiting incidence
✓ Evidence regarding dosing strength inconsistent likely to due to heterogeneity in active compounds
✓ Larger well-controlled studies should improve confidence in estimated effect sizes
✓ SPICE Trial currently underway in Qld Australia (n=300 Double Blind Placebo-RCT)