

Breast Cancer

;HQRELRWLF J LQF DV D ELRPDUNHU IRU EUHDVW FDQFHU \$ PHWD

.RXURVK 6D\HKWHPHK 6D\$NEBU\$NEBU%M;DNQNGDBQWDID 5H]DBQGDDWJDKK 6DHL *KDUH QD]

¹0HGLFDO 8QLYHUVLW\ RI ,ODP ,UDQ

²Abadan School of Medical Sciences, Iran

³&RXQFLO IRU 1XWULWLRQDO DQG (QYLURQPHQWDO 0HGLFLQH 1RUZD\

⁴6KDKLG %HKHVKWL 8QLYHUVLW\ RI 0HGLFDO 6FLHQFHV DQG +HDWK 6HUFLFHV ,UDQ

Different studies indicate some discrepancies regarding zinc (Zn) levels in various samples of breast cancer patients. Several researchers have shown blood and hair levels of Zn decrease in patients dealing with breast cancer while others have found the opposite. The present study analyzes the Zn level of breast tissue, plasma or serum and hair samples and its relationship with breast cancer using meta-analysis method. In the present meta-analysis of 31 articles, which are published in the years 1984 to 2017, selected by search in PubMed, Scopus and Google Scholar databases and information analyzed I² statistics were calculated to examine heterogeneity. The analysis was performed on 31 studies of including 1699 cases and 2009 controls participants. In the present study

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