Electronic waste exposure and DNA damage: A systematic review and meta-analysis

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1. Supplementary table 1: Search strategies and results from different electronic databases
2. Supplementary table 2: Excluded articles and the reasons for their exclusion

Supplementary table 1: Search strategies and results from different electronic databases

|  |  |  |
| --- | --- | --- |
| Databases | Keywords | Results |
| MEDLINE with Full Text, Academic Search Complete, CINAHL Complete, Education Research Complete, GreenFILE, Health Source: Nursing/Academic Edition, Library, Information Science & Technology Abstracts | ( "electronic waste"  OR  "e-waste"  OR  "WEEE" )  AND  ( "DNA damage"  OR  "chromosomal aberration"  OR  "DNA strand breaks"  OR  "micronucl\*"  OR  "Sister chromatid exchanges"  OR  "oxidative DNA damage"  OR  "genotox\*"  OR  "oxidative stress" )  | 83 |
| ProQuest central…1998-aug 2020 | (("electronic waste" OR "e-waste" OR "WEEE") AND ("DNA damage" OR "chromosomal aberration" OR "DNA strand breaks" OR "micronucl\*" OR "Sister chromatid exchanges" OR "oxidative DNA damage" OR "genotox\*" OR "oxidative stress")) AND PEER(yes) | 654 |
| SCOPUS..2008- Aug. 2020 | TITLE-ABS-KEY ( ( "electronic waste"  OR  "e-waste"  OR  "WEEE" )  AND  ( "DNA damage"  OR  "chromosomal aberration"  OR  "DNA strand breaks"  OR  "micronucl\*"  OR  "Sister chromatid exchanges"  OR  "oxidative DNA damage"  OR  "genotox\*"  OR  "oxidative stress" ) )  | 85 |
| Hand search |  | 1 |
| Total |  | 823 |
| Duplicates |  | 106 |
| Total after duplicates |  | 717 |

Supplementary table 2: Excluded articles and the reasons for their exclusion

|  |  |
| --- | --- |
| Author(s)/year | Resason for exclusion |
| Alabi and Bakare (2017) | 1 |
| Alabi et al. (2012) | 3 |
| Alam et al. (2019) | 3 |
| Awasthi (2016) | 1 |
| Du et al. (2018b) | 1 |
| Du et al. (2018a) | 4 |
| Grant (2013) | 1 |
| Khlaif and Qumsiyeh (2018) | 2 |
| Lu et al. (2017) | 2 |
| Song (2015) | 1 |
| Zhang et al. (2012) | 3 |
| Zhang et al. (2016) | 2 |
| 1) Not original study (e.g. reviews); 2) shared the same population and outcome variable with another article reported in this review; 3) objective did not meet inclusion criteria (e,g. not human study or did not measure DNA damage; 4) retracted article  |