

Lighting in the home and health: a systematic review

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Table S1. Search strategy for lighting in the home and health

1.1 MEDLINE Search strategy

| | Search Term |
|----|--|
| 1 | Lighting/ |
| 2 | sunlight.mp. or Sunlight/ |
| 3 | nightlight*.mp. |
| 4 | daylight*.mp. |
| 5 | bulb*.mp. |
| 6 | lighting.mp. |
| 7 | natural light*.mp. |
| 8 | artificial light*.mp. |
| 9 | lighting*1.mp. |
| 10 | illumination.mp. |
| 11 | Light/ |
| 12 | residential light*.mp. |
| 13 | domestic light*.mp. |
| 14 | artificial light/ or environmental control/ or illumination/ or lamps/ or light transmission/ or visibility/ |
| 15 | lamp*1.mp. |
| 16 | 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 |
| 17 | housing.mp. or Housing/ or Public Housing/ or Housing for the Elderly/ |
| 18 | (hous* or home*1 or resident* or apartment*).mp. |
| 19 | 17 or 18 |
| 20 | 16 and 19 |
| 21 | exp animals/ not humans.sh. |
| 22 | 20 not 21 |
| 23 | health.mp. or exp Health/ or exp Adolescent Health/ |
| 24 | 22 and 23 |
| 25 | Mental Health/ or mental health.mp. |
| 26 | injur*.mp. |
| 27 | accidental falls/ or exp accidents, home/ |
| 28 | fall*.mp. |
| 29 | 23 or 25 or 26 or 27 or 28 |
| 30 | 22 and 29 |
| 31 | streetlight*.mp. |
| 32 | 16 or 31 |
| 33 | 19 and 32 |
| 34 | 33 not 21 |

| | |
|----|---|
| 35 | 23 and 34 |
| 36 | 29 and 34 |
| 37 | Public Health/ |
| 38 | 29 or 37 |
| 39 | 34 and 38 |
| 40 | public health/ or exp epidemiology/ or exp preventive medicine/ |
| 41 | 38 or 40 |
| 42 | 34 and 41 |
| 43 | exp Public Health/ |
| 44 | 38 or 43 |
| 45 | 34 and 44 |

1.2 Embase Search Strategy:

| Search Term | |
|-------------|---|
| 1 | lighting.mp. or illumination/ |
| 2 | sunlight/ or sunlight.mp. |
| 3 | nightlight*.mp. |
| 4 | daylight*.mp. |
| 5 | bulb*.mp. |
| 6 | natural light*.mp. |
| 7 | artificial light*.mp. |
| 8 | lighting*1.mp. |
| 9 | illumination.mp. |
| 10 | light/ |
| 11 | residential light*.mp. |
| 12 | domestic light*.mp. |
| 13 | artificial light/ or environmental control/ or illumination/ or lamps/ or light transmission/ or visibility.mp. |
| 14 | lamp*1.mp. |
| 15 | streetlight*.mp. |
| 16 | 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 |
| 17 | housing.mp. or Housing/ or Public Housing/ or Housing for the Elderly/ |
| 18 | (hous* or home*1 or resident* or apartment*).mp. |
| 19 | 17 or 18 |
| 20 | 16 and 19 |
| 21 | (exp animals/ or nonhumans/) not exp human/ |
| 22 | 20 not 21 |
| 23 | exp child health/ or exp health/ or health.mp. or exp adolescent health/ |
| 24 | 22 and 23 |
| 25 | mental health.mp. or mental health/ |
| 26 | injury/ or injur*.mp. |
| 27 | exp falling/ |
| 28 | fall*.mp. |
| 29 | 23 or 25 or 26 or 27 or 28 |
| 30 | 22 and 29 |
| 31 | exp public health/ |

| | |
|----|-----------|
| 32 | 29 or 31 |
| 33 | 22 and 32 |

1.3 SCOPUS search strategy

| Search Term |
|--|
| lighting AND (home OR housing) AND (health OR public health) |

Table S2. Quality assessment score using the Newcastle-Ottawa Scale

| Author, Year | Selection | Comparability | Outcomes | Total score |
|----------------------------------|-----------|---------------|----------|-------------|
| Case-control studies | | | | |
| Rahayu, 2015 ²⁸ | ★★ | ★ | ★★ | 5 |
| Chen, 2017 ³³ | ★★ | ★ | ★★ | 5 |
| Woldesemayat, 2014 ³⁶ | ★★ | NA | ★★ | 4 |
| Savitha, 2007 ³⁷ | ★★★ | NA | ★★ | 5 |
| Mashreky, 2010 ³⁸ | ★★★ | NA | ★★ | 5 |
| Camilloni, 2011 ³⁹ | ★★ | ★★ | ★ | 5 |
| Isberner, 1998 ⁴¹ | ★★ | NA | ★★ | 4 |
| O'Leary, 2006 ⁴⁵ | ★★ | ★★ | ★ | 5 |
| Cohort studies | | | | |
| Obayashi, 2018 ⁵² | ★★★ | ★★ | ★★ | 7 |
| Obayashi, 2014 ⁵⁴ | ★★ | ★★ | ★★★ | 7 |
| Cross-sectional studies | | | | |
| Ichimori, 2013 ³¹ | ★★★ | NA | ★★ | 5 |
| Kumar, 2001 ²⁹ | ★★ | NA | ★★ | 4 |
| Brown, 2011 ³⁰ | ★★ | ★★ | ★★ | 6 |
| Youngstedt, 2004 ³² | ★★★ | NA | ★★ | 5 |
| Patel, 2019 ²⁷ | ★★ | ★★ | ★★ | 6 |
| Shi, 2014 ⁴⁰ | ★★★ | ★★ | ★★ | 7 |
| Czepita, 2004 ⁴² | ★★ | NA | ★★★ | 5 |
| Kayaba, 2014 ⁴⁴ | ★★ | ★★ | ★★ | 6 |
| Obayashi, 2015 ⁴⁶ | ★★★★ | ★★ | ★★★ | 9 |
| Obayashi, 2013 ⁴⁷ | ★★★ | ★★ | ★★★ | 8 |
| Obayashi, 2014 ⁴⁸ | ★★★ | ★★ | ★★★ | 8 |
| Obayashi, 2014 ⁴⁹ | ★★★★ | ★★ | ★★★ | 9 |
| Obayashi, 2013 ⁵¹ | ★★★★ | ★★ | ★★ | 8 |
| Obayashi, 2014 ⁵³ | ★★★★ | ★★ | ★★★ | 9 |
| Intervention studies | | | | |
| Brunnstrom, 2004 ³⁴ | ★★ | ★ | ★★ | 5 |
| Falkenberg, 2019 ³⁵ | ★★★ | ★★ | ★★ | 7 |
| Hopkins, 2017 ⁴³ | ★★ | ★★ | ★★ | 6 |
| Yamauchi, 2014 ⁵⁰ | ★★★ | NA | ★★★ | 6 |

Abbreviations: NA – not applicable