

## Appendix

# Types and characteristics of urban and peri-urban green spaces having an impact on human mental health and wellbeing: a systematic review

**A report of the EKLIPSE Expert Working Group on Biodiversity and Mental Health to provide recommendations for the conservation, planning, design, and management of urban green and blue infrastructures**

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## Appendix A: Search Strategies

### Full search strategies

#### A.1.: Database: Ovid MEDLINE ALL

Interface / URL: OvidSP

Database coverage dates: 1946 to June 26, 2019

Search date: 28 June 2019

Retrieved records: 8481

Search strategy:

- 1 agriculture/ or cemeteries/ or desert climate/ or ecosystem/ 111895
- 2 farms/ or exp forests/ or gardening/ or gardens/ 10098
- 3 golf/ or parks, recreational/ or grassland/ or exp Coniferophyta/ or flowers/ or wetlands/ or exp plants/ or exp soil/ or biodiversity/ 802872
- 4 or/1-3 872144
- 5 Mental Health/ 34245
- 6 mental disorders/ or exp anxiety disorders/ or exp "bipolar and related disorders"/ or exp "disruptive, impulse control, and conduct disorders"/ or exp dissociative disorders/ or exp elimination disorders/ or exp "feeding and eating disorders"/ or exp mood disorders/ or motor disorders/ or exp neurocognitive disorders/ or exp neurodevelopmental disorders/ or neurotic disorders/ or exp paraphilic disorders/ or exp personality disorders/ or exp "schizophrenia spectrum and other psychotic disorders"/ or exp sexual dysfunctions, psychological/ or exp sleep wake disorders/ or exp somatoform disorders/ or exp "trauma and stressor related disorders"/ or mentally ill persons/ 1013834
- 7 quality-adjusted life years/ or "quality of life"/ or "value of life"/ 191164
- 8 aggression/ or delusions/ or depersonalization/ or depression/ or exp stress, psychological/ or mental fatigue/ or problem behavior/ or exp self-injurious behavior/ or anxiety/ 362236
- 9 or/5-8 1436225
- 10 4 and 9 8843
- 11 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies



or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 ((mental\$ or psychological\$ or psychiatric) adj3 (fatigue\$ or disease\$ or disorder\$ or illness\$ or diagnos\$ or wellbeing or well-being or hygiene or satisf\$ or stress\$ or wellness\$ or resilien\$)).ti,ab,kf. 170

12 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 ((mental or psychological or psychiatric or "self-reported" or promot\$) adj health)).ti,ab,kf. 455

13 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (wellbeing or well-being)).ti,ab,kf. 388

14 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies

or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (mentally ill or mentally unwell)).ti,ab,kf. 4

15 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 ((psychological\$ or psychiatric or psychotherapeutic) adj3 (impact\$ or outcome\$1 or effect\$1 or benefit\$ or value\$))).ti,ab,kf. 35

16 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (behavio?r\$ adj (problem\$ or disorder\$1 or illness\$1 or disease\$1))).ti,ab,kf. 12

17 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or



prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (quality of life or quality adjusted life or QOL or QALY or QALYs or HRQOL)).ti,ab,kf. 235

18 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (disability adjusted life or DALY or DALYS)).ti,ab,kf. 9

19 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (utility adj3 (score\$1 or valu\$ or health\$ or cost\$ or measur\$ or disease\$ or mean or gain or gains or index\$))).ti,ab,kf. 46

20 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies

or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (health state utilit\$ or utilities or HSUV\$1)).ti,ab,kf. 71

21 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (adhd or attention deficit or hyperactiv\$)).ti,ab,kf. 104

22 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (aggression or aggressive\$ or aggressivity or dement\$ or amentia\$ or senile or senility or presenile or presenility or alzheimer\$)).ti,ab,kf. 662

23 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies



or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 ((cognitiv\$ or cognition or neurocognit\$ or mental) adj3 (declin\$ or dysfunction\$ or impair\$ or disorder\$ or deteriorat\$ or function))).ti,ab,kf. 144

24 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (neurodegenerative adj (illness\$ or disorder\$ or disease\$))).ti,ab,kf. 103

25 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 ((affective or body dysmorphic or cyclothymic or deficit or depersonalization or depersonalisation or depressive or developmental or dissociative or dysthymic or emotional or factitious or mood or obsessive-compulsive or panic or sleep\$) adj disorder\$1)).ti,ab,kf. 62

26 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf



course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (depression or depressive illness\$ or anxiety or anxieties or anxious\$ or agoraphobi\$ or phobia\$ or phobic or amnesia or autism or autistic or bipolar or bi-polar or manic depressive or mania)).ti,ab,kf. 815

27 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (bore\$ out or boreout\$ or brown\$ out or brownout\$ or burn\$ out or burnout\$)).ti,ab,kf. 20

28 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (emotional adj3 (wellbeing or well-being or regulat\$))).ti,ab,kf.5

29 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns





or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (happiness or peace of mind or serenity or relaxing or relaxation or attention restoration or restorative or restorativeness)).ti,ab,kf. 463

30 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based)))) adj5 (insomnia or insomniac\$ or sleep quality or somatisation or somatization or somatoform or mental aging)).ti,ab,kf. 50

31 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based)))) adj5 ((belonging\$ or coherence) adj3 sense)).ti,ab,kf. 2

32 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based)))) adj5 ((belonging\$ or coherence) adj3 sense)).ti,ab,kf. 2

metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (subjective wellbeing or subjective well-being or vitality or paranoia or psychosis or psychotic or schizophreni\$ or suicide\$ or suicidal)).ti,ab,kf. 441

33 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 (stress adj3 (disorder\$1 or illness\$ or trauma\$ or posttrauma\$ or acute or chronic\$ or episod\$ or emotional or occupational or psychologic\$ or recover\$ or reduc\$))).ti,ab,kf. 550

34 (((green adj5 (space\$ or area\$1 or zone\$1 or corridor\$ or connector\$ or environment\$1 or architecture\$ or infrastructure\$ or design\$)) or greenspace\$ or (green adj5 (urban\$ or neighbourhood\$ or neighborhood\$ or community or communities or city or cities or town or towns or suburb\$ or semiurban or periurban or semisuburban or residential or municipal or metropolitan or metropolis\$)) or (agriculture or agricultural or allotment\$1 or bioswale or cemeteries or common land\$1 or country side or ecosystem or garden or gardens or gardening or golfcourse\$1 or golf course\$1) or (habitat\$1 or horticultur\$ or park or parks or parkland or permaculture or play area\$1 or prairie\$1 or savannah) or (balcony or balconies or bush or bushes or bushland or canopy or canopies or climbing or conifer\$1 or copse\$1 or dune or dunes or evergreen\$1 or fields or flower\$ or foliage or grass or grasses or grassland\$1 or hedge or hedges or hedging) or (herb or herbs or lawn or lawns or mangrove\$1 or meadow or meadows or meadowland or chard\$1 or plant or plants or rock or rocks or rocky or shrub or shrubs or shrubland or tree or trees or vegetation or verdure or wood or woods or woodland) or (biodiversity or biodiverse or biome or ecotone) or (landscape or landscapes or naturebased or (nature adj based))) adj5 salutogenetic\$)).ti,ab,kf. 0

35 or/11-34 4598

36 10 or 35 13125



- 37 exp animals/ not humans/ 4593622
- 38 (news or comment or editorial or letter or case reports).pt. 3739436
- 39 36 not (37 or 38) 9512
- 40 limit 39 to english language 8481

**A.2.: Database: Scopus**

Interface / URL: <https://www-scopus-com>.

Database coverage dates: N/A

Search date: 28 June 2019

Retrieved records: 5824

Search strategy:

(( TITLE-ABS-

KEY((( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* )) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* )) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( ( mental\* OR psychological\* OR psychiatric ) W/3 ( fatigue\* OR disease\* OR disorder\* OR illness\* OR diagnos\* OR wellbeing OR wellbeing OR hygiene OR satisf\* OR stress\* OR wellness\* OR resilien\* ))) ) OR ( TITLE-ABS-KEY((( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* )) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* )) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR mead

ows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( ( mental OR psychological OR psychiatric OR "self-reported" OR promot\* ) W/0 health ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( wellbeing OR well-being ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( ( psychological\* OR psychiatric OR psychotherapeutic ) W/3 ( impact\* OR outcome\* OR effect\* OR benefit\* OR value\* ) ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR



town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( behavior\* W/0 ( problem\* OR disorder\* OR illness\* OR disease\* ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( "disability adjusted life" OR daly OR dalys ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR

R shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( "mentally ill" OR "mentally unwell" )) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( "quality of life" OR "quality adjusted life" OR qol OR qaly OR qalys OR hrqol )) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( "health state utilit\*" OR utilities OR hsuv\* )) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\*





OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( adhd OR "attention deficit" OR hyperactiv\* ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( aggression OR aggressive\* OR aggressivity OR dement\* OR amentia\* OR senile OR senility OR presenile OR presenility OR alzheimer\* ) ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR



woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based )) W/5 ( ( cognitiv\* OR cognition OR neurocognit\* OR mental ) W/3 ( declin\* OR dysfunction\* OR impair\* OR disorder\* OR deteriorat\* OR function )) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based )) W/5 ( ( affective OR "body dysmorphic" OR cyclothymic OR deficit OR depersonalization OR depersonalisation OR depressive OR developmental OR dissociative OR dysthymic OR emotional OR factitious OR mood OR obsessive-compulsive OR panic OR sleep\* ) W/ disorder\* ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based )) W/5 ( depression OR "depressive illness\*" OR anxiety OR anxieties OR anxious\* OR agoraphobi\* OR phobia\* OR phobic OR amnesia OR autism OR autistic OR bipolar OR bi-polar OR "manic depressive" OR mania ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment



\* OR architecture\* OR infrastructure\* OR design\* )) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* )) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based )) W/5 ( emotional W/3 ( wellbeing OR wellbeing OR regulat\* )) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* )) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* )) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based )) W/5 ( happiness OR "peace of mind" OR serenity OR relaxing OR relaxation OR "attention restoration" OR restorative OR restorativeness )) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* )) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* )) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\*

een\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( insomnia OR insomniac\* OR "sleep quality" OR somatisation OR somatization OR somatoform OR "mental aging" )) OR ( TITLE-ABS-

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area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( ( belonging\* OR coherence ) W/3 sense )) OR ( TITLE-ABS-

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being" OR vitality OR paranoia OR psychosis OR psychotic OR schizophreni\* OR suicide\* OR s



uicidal ))) OR ( TITLE-ABS-  
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 town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR  
 municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\*  
 OR bioswale OR cemeteries OR "common land\*" OR "country  
 side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf  
 course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR  
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 woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landsca  
 pes OR naturebased OR ( nature W/0 based ) ) ) W/5 ( stress W/3 ( disorder\* OR illness\* OR t  
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 OR bioswale OR cemeteries OR "common land\*" OR "country  
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d OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( "bore\* out" OR boreout\* OR "brown\* out" OR brownout\* OR "burn\* out" OR burnout\* ))) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( neurodegenerative W/0 ( illness\* OR disorder\* OR disease\* ) ) ) ) OR ( TITLE-ABS-KEY ( ( ( green W/5 ( space\* OR area\* OR zone\* OR corridor\* OR connector\* OR environment\* OR architecture\* OR infrastructure\* OR design\* ) ) OR greenspace\* OR ( green W/5 ( urban\* OR neighbourhood\* OR neighborhood\* OR community OR communities OR city OR cities OR town OR towns OR suburb\* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis\* ) ) OR ( agriculture OR agricultural OR allotment\* OR bioswale OR cemeteries OR "common land\*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse\* OR "golf course\*" ) OR ( habitat\* OR horticultur\* OR park OR parks OR parkland OR permaculture OR "play area\*" OR prairie\* OR savannah ) OR ( balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer\* OR copse\* OR dune OR dunes OR evergreen\* OR fields OR flower\* OR foliage OR grass OR grasses OR grassland\* OR hedge OR hedges OR hedging ) OR ( herb OR herbs OR lawn OR lawns OR mangrove\* OR meadow OR meadows OR meadowland OR chard\* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland ) OR ( biodiversity OR biodiverse OR biome OR ecotone ) OR ( landscape OR landscapes OR naturebased OR ( nature W/0 based ))) W/5 ( utility W/3 ( score\* OR valu\* OR health\* OR cost\* OR measur\* OR disease\* OR mean OR gain OR gains OR index\* ) ) ) ) ) AND ( not INDEX ( medline ) ) AND ( LIMIT-TO ( LANGUAGE , "English" ) )



## A.2.: Database: Scopus

Interface / URL: <https://www-scopus-com>.

Database coverage dates: N/A

Search date: 23 August 2019

Retrieved records: 4033

Search strategy:

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TITLE(((green AND (space* OR area* OR zone* OR corridor* OR connector* OR environment* OR architecture* OR infrastructure* OR design*)) OR greenspace* OR (green AND (urban* OR neighbourhood* OR neighborhood* OR community OR communities OR city OR cities OR town OR towns OR suburb* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis*)) OR (agriculture OR agricultural OR allotment* OR bioswale OR cemeteries OR "common land*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse* OR "golf course*") OR (habitat* OR horticultur* OR park OR parks OR parkland OR permaculture OR "play area*" OR prairie* OR savannah) OR (balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer* OR copse* OR dune OR dunes OR evergreen* OR fields OR flower* OR foliage OR grass OR grasses OR "natural environment*" OR naturalness OR grassland* OR hedge OR hedges OR hedging) OR (herb OR herbs OR lawn OR lawns OR mangrove* OR meadow OR meadows OR meadowland OR chard* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland OR urban forest*) OR (biodiversity OR biodiverse OR biome OR ecotone) OR (landscape OR landscapes OR naturebased OR (nature W/O based)))) AND (((mental* OR psychological* OR psychiatric OR wellbeing OR well-being OR wellness* OR health-related OR restorative* OR depression OR depressive OR (self-reported AND health) OR (stress AND (restor* OR reduce OR improv* OR relie*))))))
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ABS(((green W/8 (space* OR area* OR zone* OR corridor* OR connector* OR environment* OR architecture* OR infrastructure* OR design*)) OR greenspace* OR (green W/8 (urban* OR neighbourhood* OR neighborhood* OR community OR communities OR city OR cities OR town OR towns OR suburb* OR semiurban OR periurban OR semisuburban OR residential OR municipal OR metropolitan OR metropolis*)) OR (agriculture OR agricultural OR allotment* OR bioswale OR cemeteries OR "common land*" OR "country side" OR ecosystem OR garden OR gardens OR gardening OR golfcourse* OR "golf course*") OR (habitat* OR horticultur* OR park OR parks OR parkland OR permaculture OR "play area*" OR prairie* OR savannah) OR (balcony OR balconies OR bush OR bushes OR bushland OR canopy OR canopies OR climbing OR conifer* OR copse* OR dune OR dunes OR evergreen* OR fields OR flower* OR foliage OR grass OR grasses OR grassland* OR hedge OR hedges OR hedging) OR (herb OR herbs OR lawn OR lawns OR mangrove* OR meadow OR meadows OR meadowland OR chard* OR plant OR plants OR rock OR rocks OR rocky OR shrub OR shrubs OR shrubland OR tree OR trees OR vegetation OR verdure OR wood OR woods OR woodland) OR (biodiversity OR biodiverse OR biome OR ecotone) OR (landscape OR landscapes OR naturebased OR (nature W/O based) OR "natural environment*" OR naturalness)) W/8 (((mental* OR psychological* OR psychiatric) W/3 (
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fatigue\* OR disease\* OR disorder\* OR illness\* OR diagnos\* ) OR wellbeing OR well-being OR hygiene OR satisf\* OR stress\* OR wellness\* OR resilien\* )

#1 or #2

Limited to English language = 4033 results





## Appendix B: Test list records

The following table shows the studies in the test list, which studies were available to be found in MEDLINE and Scopus, and which studies were not retrieved by the searches.

Test list study	Available in MEDLINE	Available in Scopus	Found by the searches
Arnberger, A., Eder, R., Alex, B., Ebenberger, M., Hutter, H. P., Wallner, P., & Frank, T. (2018) Health-Related Effects of Short Stays at Mountain Meadows, a River and an Urban Site—Results from a Field Experiment International journal of environmental research and public health, 15	Yes	Yes	Yes
Ayala-Azcárraga, C., Diaz, D., & Zambrano, L. (2019) Characteristics of urban parks and their relation to user well-being Landscape and Urban Planning, 189, 27-35	No	Yes	Yes
Browning, M. H., Lee, K., & Wolf, K. (2019) Tree cover shows an inverse relationship with depressive symptoms in elderly residents living in US nursing homes Urban Forestry & Urban Greening	No	Yes	No
Carrus, G., Laforteza, R., Colangelo, G., Dentamaro, I., Scopelliti, M., & Sanesi, G. (2013) Relations between naturalness and perceived restorativeness of different urban green spaces Psychology, 4	No	Yes	Yes
Carrus, G., Scopelliti, M., Laforteza, R., Colangelo, G., Ferrini, F., Salbitano, F., ... & Sanesi, G. (2015) Go greener, feel better? The positive effects of biodiversity on the well-being of individuals visiting urban and peri-urban green areas Landscape and Urban Planning, 134, 221-228	No	Yes	Yes
Carter, M., & Horwitz, P. (2014) Beyond proximity: the importance of green space useability to self-reported health EcoHealth, 11	Yes	Yes	Yes
Dallimer, M., Irvine, K. N., Skinner, A. M., Davies, Z. G., Rouquette, J. R., Maltby, L. L., ... & Gaston, K. J. (2012) Biodiversity and the feel-good factor: understanding associations between self-reported human well-being and species richness BioScience, 62	No	Yes	Yes
Dzhambov, A., Hartig, T., Markevych, I., Tilov, B., & Dimitrova, D. (2018) Urban residential greenspace and mental health in youth: Different approaches to testing multiple pathways yield different conclusions Environmental research, 160, 47-59	Yes	Yes	Yes

Grahn, P., & Stigsdotter, U. K. (2010) The relation between perceived sensory dimensions of urban green space and stress restoration Landscape and urban planning, 94	No	Yes	Yes
Hauru, K., Lehvavirta, S., Korpela, K., & Kotze, D. J. (2012) Closure of view to the urban matrix has positive effects on perceived restorativeness in urban forests in Helsinki, Finland Landscape and Urban Planning, 107	No	Yes	Yes
Helbich, M., Yao, Y., Liu, Y., Zhang, J., Liu, P., & Wang, R. (2019) Using deep learning to examine street view green and blue spaces and their associations with geriatric depression in Beijing, China Environment international, 126, 107-117	Yes	Yes	Yes
Korpela, K., De Bloom, J., Sianoja, M., Pasanen, T., & Kinnunen, U. (2017) Nature at home and at work: Naturally good? Links between window views, indoor plants, outdoor activities and employee well-being over one year Landscape and Urban planning, 160, 38-47	No	Yes	No
Kuo, M., Browning, M. H., Sachdeva, S., Westphal, L., & Lee, K. (2018) Might school performance grow on trees? Examining the link between “greenness” and academic achievement in urban, high-poverty schools Frontiers in psychology, 9, 1669	Yes	Yes	No
MacKerron, G., & Mourato, S. (2013) Happiness is greater in natural environments Global environmental change, 23	No	Yes	Yes
Marselle, M., Irvine, K., & Warber, S. (2013) Walking for well-being: are group walks in certain types of natural environments better for well-being than group walks in urban environments? International journal of environmental research and public health, 10	Yes	Yes	Yes
Marselle, M., Irvine, K., Lorenzo-Arribas, A., & Warber, S. (2015) Moving beyond green: Exploring the relationship of environment type and indicators of perceived environmental quality on emotional well-being following group walks International journal of environmental research and public health, 12	Yes	Yes	Yes
Martens, D., Gutscher, H., & Bauer, N. (2011) Walking in “wild” and “tended” urban forests: The impact on psychological well-being Journal of environmental psychology, 31	No	Yes	Yes
McGinlay, J., Parsons, D. J., Morris, J., Hubatova, M., Graves, A., Bradbury, R. B., & Bullock, J. M. (2017) Do charismatic species groups generate more cultural ecosystem service benefits? Ecosystem services, 27, 15-24	No	Yes	No



Memari, S., Pazhouhanfar, M., & Nourtaghani, A. (2017) Relationship between perceived sensory dimensions and stress restoration in care settings <i>Urban Forestry &amp; Urban Greening</i> , 26, 104-113	No	Yes	No
Nordh, H., Hartig, T., Hagerhall, C. M., & Fry, G. (2009) Components of small urban parks that predict the possibility for restoration <i>Urban forestry &amp; urban greening</i> , 8	No	Yes	No
O'Brien, L. (2018) Engaging with and Shaping Nature: A Nature-Based Intervention for Those with Mental Health and Behavioural Problems at the Westonbirt Arboretum in England <i>International journal of environmental research and public health</i> , 15	Yes	Yes	Yes
Olszewska-Guizzo, A. A., Paiva, T. O., & Barbosa, F. (2018) Effects of 3D Contemplative Landscape Videos on Brain Activity in a Passive Exposure EEG Experiment <i>Frontiers in psychiatry</i> , 9	Yes	No	Yes
Pálsdóttir, A. M., Stigsdóttir, U. K., Persson, D., Thorpert, P., & Grahn, P. (2018) The qualities of natural environments that support the rehabilitation process of individuals with stress-related mental disorder in nature-based rehabilitation <i>Urban Forestry &amp; Urban Greening</i> , 29, 312-321	No	Yes	Yes
Rogerson, M., Brown, D. K., Sandercock, G., Wooller, J. J., & Barton, J. (2016) A comparison of four typical green exercise environments and prediction of psychological health outcomes <i>Perspectives in public health</i> , 136	Yes	Yes	Yes
Scott, J. T., Kilmer, R. P., Wang, C., Cook, J. R., & Haber, M. G. (2018) Natural Environments Near Schools: Potential Benefits for Socio-Emotional and Behavioral Development in Early Childhood <i>American journal of community psychology</i> , 62	Yes	Yes	Yes
Tang, I. C., Tsai, Y. P., Lin, Y. J., Chen, J. H., Hsieh, C. H., Hung, S. H., ... & Chang, C. Y. (2017) Using functional Magnetic Resonance Imaging <i>Landscape and Urban Planning</i>	No	Yes	No
Taylor, M. S., Wheeler, B. W., White, M. P., Economou, T., & Osborne, N. J. (2015) Research note: Urban street tree density and antidepressant prescription rates—A cross-sectional study in London, UK <i>Landscape and Urban Planning</i> , 136, 174-179	No	Yes	Yes
Tsai, W. L., McHale, M., Jennings, V., Marquet, O., Hipp, J., Leung, Y. F., & Floyd, M. (2018) Relationships between characteristics of urban green land cover and mental health in US	Yes	Yes	Yes

metropolitan areas International journal of environmental research and public health, 15			
Tyrväinen, L., Ojala, A., Korpela, K., Lanki, T., Tsunetsugu, Y., & Kagawa, T. (2014) The influence of urban green environments on stress relief measures: A field experiment Journal of Environmental Psychology, 38, 1-9	No	Yes	Yes
Wood, E., Harsant, A., Dallimer, M., Cronin de Chavez, A., McEachan, R., & Hassall, C. (2018) Not all green space is created equal: biodiversity predicts psychological restorative benefits from urban green space Frontiers in psychology, 9, 2320	Yes	Yes	Yes
Wyles, K. J., White, M. P., Hattam, C., Pahl, S., King, H., & Austen, M. (2019) Are some natural environments more psychologically beneficial than others? The importance of type and quality on connectedness to nature and psychological restoration Environment and Behavior, 51	No	Yes	Yes
Zhang, L., & Tan, P. Y. (2019) Associations between Urban Green Spaces and Health are Dependent on the Analytical Scale and How Urban Green Spaces are Measured International journal of environmental research and public health, 16	Yes	Yes	Yes



Likely reasons for the non-retrieval of eight studies are shown in the following Table.

Test list study	Likely reason for non-retrieval by the searches
Browning, M. H., Lee, K., & Wolf, K. (2019) Tree cover shows an inverse relationship with depressive symptoms in elderly residents living in US nursing homes <i>Urban Forestry &amp; Urban Greening</i>	Likely missed because the search had 'depressive disorders' rather than 'depressive symptoms'
Korpela, K., De Bloom, J., Sianoja, M., Pasanen, T., & Kinnunen, U. (2017) Nature at home and at work: Naturally good? Links between window views, indoor plants, outdoor activities and employee well-being over one year <i>Landscape and Urban planning</i> , 160, 38-47	We could not search for 'nature' alone as it generated too many records
Kuo, M., Browning, M. H., Sachdeva, S., Westphal, L., & Lee, K. (2018) Might school performance grow on trees? Examining the link between "greenness" and academic achievement in urban, high-poverty schools <i>Frontiers in psychology</i> , 9, 1669	There are no mental health terms in this record
McGinlay, J., Parsons, D. J., Morris, J., Hubatova, M., Graves, A., Bradbury, R. B., & Bullock, J. M. (2017) Do charismatic species groups generate more cultural ecosystem service benefits? <i>Ecosystem services</i> , 27, 15-24	There are no mental health terms in this record
Memari, S., Pazhouhanfar, M., & Nourtaghani, A. (2017) Relationship between perceived sensory dimensions and stress restoration in care settings <i>Urban Forestry &amp; Urban Greening</i> , 26, 104-113	Does not have the search terms in the same relationships as in the strategy
Nordh, H., Hartig, T., Hagerhall, C. M., & Fry, G. (2009) Components of small urban parks that predict the possibility for restoration <i>Urban forestry &amp; urban greening</i> , 8	'Restoration' is not used as a single term in the strategy but has to be combined with 'attention', because restoration has so many different meanings including physical restoration of green spaces
Olszewska, A. A., Marques, P. F., Ryan, R. L., & Barbosa, F. (2018) What makes a landscape contemplative? <i>Environment and Planning B: Urban Analytics and City Science</i> , 45	'Mental health benefits' is within the abstract but not linked closely to a green term
Tang, I. C., Tsai, Y. P., Lin, Y. J., Chen, J. H., Hsieh, C. H., Hung, S. H., ... & Chang, C. Y. (2017) Using functional Magnetic Resonance Imaging <i>Landscape and Urban Planning</i>	There are green terms but this not really about mental health

## Appendix C: Meta-data extraction

For the items that included a specific code, the codes are included in the Tables below.

General	Codes
First author	-
Year of publication	-
Paper title	-
Journal name	-
Country the study took place in	-
Location the study took place in	-
Season the study took place in	Spring Summer Autumn Winter > 1 year (study was conducted over a period longer than 1 year)



Methodology	Codes
Type of data (quantitative, qualitative)	Quantitative Qualitative
Study category (cross-sectional, etc)	Experimental Cross-sectional Qualitative
Hypothesis testing versus exploratory study ( <i>quantitative studies</i> )	Hypotheses were reported No hypothesis was reported
Study design	Between subjects design Within subjects design Mixed design
Type of within participants design ( <i>within / mixed studies</i> )	Pre-post design Longitudinal Cross-sectional
Presence of a control group	Control group or condition is included Control group or condition is not included Not applicable
Data collection method	Self-report Physiological measures Experience sampling Health / medical data Interviews Focus groups Other
Health of population	General Clinical At-risk
Population type	Students Convenience sample (other than students) Elderly Schoolchildren Adolescents Pupils Patients (mental disorder) Patients (physical disorder) Panel members



Methodology	Codes
Population type (continued)	National residents Urban residents Rural residents Local residents Green space visitors Employees Athletes / hikers Other
Sample size (number of participants)	-
Sample age (mean and standard deviation)	-
Sample age (range)	-
Sample percentage female	-
Inclusion and exclusion criteria for participation	-
Study duration	0 – 30 minutes 31 minutes – 1 hour 1 – 2 hours > 2 hours < 1 day > 1 day < 1 week > 1 week < 1 month > 1 month < 3 months > 3 months < 6 months > 6 months < 1 year > 1 year
Study Frequency	Once Twice More than twice
Duration and frequency visit report	Duration only is reported Frequency only is reported Both are reported Neither duration nor frequency is reported



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Methodology	Codes
Duration and frequency visit report (continued)	Duration only is measured
	Frequency only is measured
	Both are measured
	Neither duration nor frequency is measured

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Green space manipulation	Codes
Characteristic or type of green space	Characteristic Type Characteristic and type
Type of green space exposure (direct versus indirect)	Direct Indirect
Type of green space	Garden Park Forest Farmland Green corridor Woodland Sports pitch Heathland Grassland Tree canopy Biodiversity Other green space type Other green space characteristic
Green space description	-
Environmental assessment (e.g., residential area)	Residential area Green space visits School environment Healthcare environment Work environment Viewing green spaces Listening to green sounds Other
Activities performed in the green space	Physical exercise, sports Sitting Gardening Viewing / listening Other



Mental health and mental wellbeing	Codes
Typology of outcome measure	Affect Restorative effects Recalled restorative effect Perceived stress Vitality Physiological stress Subjective wellbeing Severity mental disorder Prevalence mental disorder Quality of life Satisfaction with life Sleep quality Suicide rate Other
Measurement instruments used <i>(quantitative studies)</i>	-
Unit of observation (aggregate or individual) <i>(quantitative studies)</i>	Within the individual only Individual An aggregate of individual
Covariates and confounding variables <i>(quantitative studies)</i>	-
Results	-

## Appendix D: Critical appraisal Experimental studies

Category	Criteria for confidence of no bias				
	Item	High	Moderate	Low	Not applicable
Performance bias	Representative sampling	Random sampling is used (probability sampling); the sample is representative for the population under study	Purposive sampling is used; researchers have sampled individuals for a specific purpose, but non-probability sampling was used.	Convenience sampling is employed; sample is drawn for the part of the population that is close to hand, non-probability sampling	-
	Sample description in relation to population	The authors provide a description of both the true population and the sample	Authors describe the sample but provide no description of the true population	No description was provided	
	Baseline study characteristics	At baseline, the groups are similar on the value of the dependent variable, unless differences were included purposefully	At baseline, the groups are not similar on the value of the dependent variables unless differences are purposefully, but they are similar in composition in demographic variables	It is unknown whether the groups in different conditions are similar in terms of their score on demographic or independent variables	It is only one group (i.e., it is a within subjects design, not a between-subjects design)
	Random allocation of participants to the experimental conditions	Participants were randomly assigned, allocation was based on chance.	Participants were only semi-randomly assigned, allocation was according some pre-set plan (e.g., a list on paper)	No description was provided or participants were not randomly assigned	It is only one group (i.e., it is a within subjects design, not a between-subjects design)
	Order of conditions, interventions, or stimuli to participants	The order in which participants are exposed to a condition, intervention or stimuli is/are randomized	One or more orders is missing, or order is not fully randomized (e.g. 123, 321)	No description was provided; or order of conditions, interventions or stimuli to participant was not randomized	-
	Selection bias				



Cate- Gory		Confidence of no bias – criteria			
Item		High	Moderate	Low	Not applicable
Performance bias (cont.)	Blinding of participants	Authors report their efforts for blinding the participants for the research purpose	Authors acknowledge that blinding was not done / not possible and recognize this may have influenced the outcomes	No description was provided	-
	Attrition	There is evidence of no attrition (note: attrition only applies to the period after the study has started), i.e., there are no drop-outs. OR: there is attrition but it is reported and the consequence on the outcomes are taken into account in the analyses.	drop-out rates are described (first and final sample size) but no analyses have been conducted into the consequence of attrition	no description of attrition (drop-outs) was provided	there is only one measurement, no attrition (drop-out) possible
Detection bias	Blinding of outcome assessment	There is no direct contact between the researcher and the participant, including questionnaires delivered remotely	-	There is direct contact between the researcher and the participants, including questionnaires delivered by hand	-
	Manipulation clearly defined	Direct exposure is described in terms of duration and frequency	-	there is no description about the characteristics of the exposure, or only availability (indirect exposure) is assessed	-

Category		Confidence of no bias – criteria			
	Item	High	Moderate	Low	Not applicable
Manipulation (continued)	Treatment similarity	The treatments in both groups were exactly the same (except in blue space type or characteristics) in duration, timing, intensity of physical activity, location (both indoors or both outdoors) and these similarities are described	The treatment of each group was similar on some aspects, but differed on others (aspects as described in the 'high score' field)	No description was provided	Not applicable when there is only one group
	Reporting bias	authors report or mention non-significant results (e.g table of all results is reported in the paper; or statement that results were non-significant)	Authors do not mention or report non-significant results.	Non-significant results were not reported. evidence of partial reporting (some results are missing), and no explanation why	-
Covariates	Covariates	Covariate (s) are identified and taken into account in the analyses	Covariate(s) have been identified, but they are only being discussed (not included in the analyses)	Covariate(s) were not identified	Not applicable, for true experiments with good random allocation to conditions with no difference on baseline



## Appendix E: Critical appraisal Cross-sectional studies

Cate- gory	Confidence of no bias – criteria				
	Item	High	Moderate	Low	Not applicable
Selection bias	Random selection participants	Participants were selected based on a priori plan to ensure randomization	Participants were selected by chance, or participants were self-selected	No description was provided	a census was used (census means: every possible record was available to the researcher)
	Sample description in relation to population	The authors provide a description of both the true population and the sample, and there is evidence that the sample is representative (at the start in case there are multiple measurements)	The authors provide a description of both the true population and the sample, but there is evidence that the sample is not representative	No complete description was provided	a census was used (census means: every possible record was available to the researcher)
	Proportion of baseline sample available for analysis	There is evidence of no attrition (note: attrition starts only applies to the period after the study has started), i.e., there are no drop-outs. OR: there is attrition but it is reported and the consequence on the outcomes are taken into account in the analyses.	drop-out rates are described (first and final sample size) but no analyses have been conducted into the consequence of attrition	no description of attrition (drop-outs) was provided	there is only one measurement, no attrition (drop-out) possible
Detection bias	Blinding	There is no direct contact between the researcher and the participant, including questionnaires delivered remotely		There is direct contact between the researcher and the participants, including questionnaires delivered hand to hand	



Cate- Gory		Confidence of no bias – criteria			
Item		High	Moderate	Low	Not applicable
Manipulation	Is the manipulation clearly defined	Direct exposure is described in terms of duration and frequency	Direct exposure is described in terms of duration	There is no description about the characteristics of the exposure, or only availability (indirect exposure) is assessed	
	Selective reporting	Authors report or mention non-significant results (e.g. table of all results is reported in the paper; or statement that results were nonsignificant)	Authors do not mention or report non-significant results.	Non-significant results were not reported. evidence of partial reporting (some results are missing), and no explanation why	
Covariates	Covariates	Covariate(s) are identified and taken into account in the analyses	Covariate(s) have been identified, but they are only being discussed (not included in the analyses)	Covariate(s) were not identified	



## Appendix F: Critical appraisal Qualitative studies

Category	Confidence of no bias – criteria			
	Item	High	Moderate	Low
Selection bias	Source of target population	-	There is a description of the sample	There is no description of the sample
	Recruitment description	Purposeful / systematic sampling; the authors of the papers have chosen the people who were sampled	Convenience sampling; The researchers have taken people as they volunteered and were available	There is no description of the sampling process
	Independent raters	There are two or more independent raters that code the data	There was only one person coding the data	No description was provided
Qualitative method	Stakeholder involvement	Stakeholders (non-academic) are involved in the entire research process (from the design of the method to the analysis of the outcomes)	Stakeholders (non-academic) are involved in only part of the research process (only design of method or only at the outcomes)	No stakeholders (non-academic) are involved or no description was given
	Triangulation	A mix in research methods or data sources were employed and the outcomes were used together in the analysis	A mix in research methods or data sources were employed, but they were not used together in the analysis	No mix in research methods, data sources, or researchers (backgrounds) was employed