**Database Literature Search Strategy**

# Database search strategy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Database name** | **Date searched** | **Searcher** | **Peer review** | **Database Platform** |
|
| Embase | July 18, 2021 | S.Y. | AH | Ovid |
| MEDLINE ALL | July 18, 2021 | S.Y. | AH | Ovid |
| Web of Science Core Collection | July 18, 2021 | S.Y. | AH | Clarivate |
| CABI via WoS | July 18, 2021 | S.Y. | AH | Clarivate |
| BIOSIS Citation Index via WoS | July 18, 2021 | S.Y. | AH | Clarivate |

**Search queries**

**Database name: Embase**

1 (health technolog\* assessment\* or health technolog\* apprais\* or HTA).ti. (3467)

2 \*Practice Guideline/ (81853)

3 \*Biomedical Technology Assessment/ (5289)

4 (evidence adj2 (synthes\* or summar\* or tool\*)).tw. (25348)

5 ((technolog\* adj2 (assessment\* or appraisal\*)) or HTA).ti,ab,kw. (16400)

6 ((clinical or practice or care) adj2 (path or paths or pathway or pathways or protocol\*)).ti. (7992)

7 \*Cost Benefit Analysis/ (12052)

8 \*"cost utility analysis"/ (2627)

9 \*Economic Model/ (808)

10 (Economic adj3 (evaluat\* or assess\*)).ti,kw. (11626)

11 (cost\* adj3 effectiv\*).ti,kw. (53625)

12 (cost\* adj1 (utilit\* or benefit\*)).ti,kw. (10626)

13 (Multi-Criteria Decision Analysis\* or multicriteria decision analysis\*).ti,kw. (638)

14 or/1-13 (209942)

15 Management/ and (environment\* or sustainab\*).ti,ab,kw. (2576)

16 ((guideline\* or guidance\* or polic\* or standard\* or recommend\*) adj3 (environment\* or sustainab\*)).ti. (1864)

17 ((framework\* or method\* or approach\* or assessment\* or practice\* or review\* or consider\*) adj6 (health technolog\* assessment\* or health technolog\* apprais\* or HTA or guideline\* or sustainab\* or environment\*)).ti. (38275)

18 ((health technolog\* assessment\* or health technolog\* apprais\* or HTA or guideline\*) adj4 (environment\* or sustainab\*)).ti,ab,kw. (1543)

19 or/15-18 (43567)

20 14 or 19 (238698)

21 Environmental Sustainability/ (5513)

22 \*Environmental Health/ or \*Environmental Policy/ or \*Ecotoxicology/ (27145)

23 (environment\* adj4 sustainabilit\*).ti,ab. (2900)

24 ((environment\* or ecolog\*) adj2 (degrad\* or impact\* or capacit\* or outcome\* or implication\* or consideration\*)).ti,ab. (34001)

25 ((hazard\* or toxic\* or toxin\* or risk\*) adj4 environment\*).ti. (8972)

26 (environment\* health or (human health adj3 (environment\* or ecosystem\*))).ti,ab. (18732)

27 ecotoxi\*.ti,ab. (11127)

28 (environmental justice or (equit\* adj3 environment\*)).ti. (386)

29 ((built environment\* or natural environment\*) adj2 health\*).ti. (66)

30 (natural environment\* or soil or soils or flora\* or fauna\*).ti. (92810)

31 ((ecological or carbon) adj1 (footprint\* or foot print\* or foot-print\*)).ti,ab. (1838)

32 ((life cycle assess\* or life cycle appraisal\* or life cycle analys\*) adj2 environment\*).ti,kw. (105)

33 Environmental impact assessment\*.ti,kw. (618)

34 or/21-33 (187190)

35 \*Climate Change/ or \*Greenhouse Effect/ or \*Carbon Footprint/ (26428)

36 (climat\* adj1 (chang\* or cris\* or emergenc\*)).ti. (11867)

37 (global warm\* or global heat\* or radiative forcing).ti. (1584)

38 ((greenhouse adj2 (gas\* or effect\*)) or GHG\*).ti. (2572)

39 ((emission\* adj2 atmospher\*) or fossil fuel\*).ti. (717)

40 or/35-39 (30270)

41 \*Natural Resource/ or \*Biodiversity/ or \*Environmental Monitoring/ (41429)

42 (resource adj2 (exploit\* or use\* or usage)).ti. (2576)

43 (biodiversity loss or population loss or extinction or endanger\*).ti. (12506)

44 ((soil\* or land\* or water\* or species or air) adj2 (degrad\* or loss\* or deplet\* or destr\*)).ti. (2559)

45 ((resource\* adj1 (natural or renewable or nonrenewable)) or energy).ti. (109673)

46 or/41-45 (167995)

47 \*Pollution/ or \*Waste Management/ (26453)

48 ((pollut\* or contamina\*) adj2 (water or air or soil\* or land or noise or light or visual)).ti. (34288)

49 (point source pollut\* or nonpoint source pollut\*).ti. (357)

50 (particulate matter\* or PM).ti. (11302)

51 ((air or soil or water) adj2 quality).ti. (14129)

52 (trash or garbage or rubbish or disposal or incinerat\* or recycl\* or waste\*).ti. (98721)

53 or/47-52 (175005)

54 34 or 40 or 46 or 53 (520445)

55 20 and 54 (9617)

56 ("2007831581" or "628427277" or "2004163796" or "50584356" or "607937728" or "614021299" or "2004898563" or "622667118").ui. (8)

57 55 and 56 (8)

58 limit 55 to (conference abstract or conference paper or "conference review" or editorial or letter) (912)

59 55 not 58 (8705)

60 limit 59 to english language (8075)

61 limit 60 to yr="2009 -Current" (5566)

**Database name: MEDLINE ALL**

1 (health technolog\* assessment\* or health technolog\* apprais\* or HTA).ti. (1973)

2 \*Guidelines as Topic/ (11915)

3 \*Practice Guidelines as Topic/ (44763)

4 Technology Assessment, Biomedical/ (10307)

5 (evidence adj2 (synthes\* or summar\* or tool\*)).tw. (22610)

6 ((technolog\* adj2 (assessment\* or appraisal\*)) or HTA).ti,ab,kw. (9837)

7 ((clinical or practice or care) adj2 (path or paths or pathway or pathways or protocol\*)).ti. (5657)

8 \*Cost-benefit analysis/ (9768)

9 \*Models, Economic/ (3824)

10 (Economic adj3 (evaluat\* or assess\*)).ti,kw. (6556)

11 (cost\* adj3 effectiv\*).ti,kw. (30910)

12 (cost\* adj1 (utilit\* or benefit\*)).ti,kw. (4714)

13 (Multi-Criteria Decision Analysis\* or multicriteria decision analysis\*).ti,kw. (469)

14 or/1-13 (146743)

15 Policy Making/ and (environment\* or sustainab\*).ti,ab,kw. (2034)

16 ((guideline\* or guidance\* or polic\* or standard\* or recommend\*) adj3 (environment\* or sustainab\*)).ti. (1319)

17 ((framework\* or method\* or approach\* or assessment\* or practice\* or review\* or consider\*) adj6 (health technolog\* assessment\* or health technolog\* apprais\* or HTA or guideline\* or sustainab\* or environment\*)).ti. (30462)

18 ((health technolog\* assessment\* or health technolog\* apprais\* or HTA or guideline\*) adj4 (environment\* or sustainab\*)).ti,ab,kw. (1227)

19 or/15-18 (34439)

20 14 or 19 (172190)

21 \*Environmental Policy/ or \*Environmental Health/ or \*Ecotoxicology/ (12692)

22 (environment\* adj4 sustainabilit\*).ti,ab. (2648)

23 ((environment\* or ecolog\*) adj2 (degrad\* or impact\* or capacit\* or outcome\* or implication\* or consideration\*)).ti,ab. (28350)

24 ((hazard\* or toxic\* or toxin\* or risk\*) adj4 environment\*).ti. (7196)

25 (environment\* health or (human health adj3 (environment\* or ecosystem\*))).ti,ab. (16032)

26 ecotoxi\*.ti,ab. (9512)

27 (environmental justice or (equit\* adj3 environment\*)).ti. (357)

28 ((built environment\* or natural environment\*) adj2 health\*).ti. (64)

29 (natural environment\* or soil or soils or flora\* or fauna\*).ti. (85841)

30 ((ecological or carbon) adj1 (footprint\* or foot print\* or foot-print\*)).ti,ab. (1476)

31 ((life cycle assess\* or life cycle appraisal\* or life cycle analys\*) adj2 environment\*).ti,kw. (358)

32 Environmental impact assessment\*.ti,kw. (364)

33 or/21-32 (153272)

34 \*Climate Change/ or \*Greenhouse Effect/ or \*Carbon Footprint/ (15329)

35 (climat\* adj1 (chang\* or cris\* or emergenc\*)).ti. (11696)

36 (global warm\* or global heat\* or radiative forcing).ti. (1374)

37 ((greenhouse adj2 (gas\* or effect\*)) or GHG\*).ti. (2233)

38 ((emission\* adj2 atmospher\*) or fossil fuel\*).ti. (507)

39 or/34-38 (23238)

40 \*Natural Resources/ or \*Biodiversity/ or \*Environmental Monitoring/ (79465)

41 (resource adj2 (exploit\* or use\* or usage)).ti. (1695)

42 (biodiversity loss or population loss or extinction or endanger\*).ti. (13043)

43 ((soil\* or land\* or water\* or species or air) adj2 (degrad\* or loss\* or deplet\* or destr\*)).ti. (2495)

44 ((resource\* adj1 (natural or renewable or nonrenewable)) or energy).ti. (115915)

45 or/40-44 (211704)

46 \*Environmental Pollution/ or \*Waste Management/ (16219)

47 ((pollut\* or contamina\*) adj2 (water or air or soil\* or land or noise or light or visual)).ti. (27665)

48 (point source pollut\* or nonpoint source pollut\*).ti. (266)

49 (particulate matter\* or PM).ti. (8039)

50 ((air or soil or water) adj2 quality).ti. (9623)

51 (trash or garbage or rubbish or disposal or incinerat\* or recycl\* or waste\*).ti. (70216)

52 or/46-51 (125693)

53 33 or 39 or 45 or 52 (472519)

54 20 and 53 (7722)

55 ("31217000" or "29897036" or "32377983" or "28065172" or "27021760" or "32947153" or "19619890").ui. (7)

56 54 and 55 (7)

57 limit 54 to (clinical conference or consensus development conference or consensus development conference, nih or editorial or letter) (189)

58 54 not 57 (7533)

59 limit 58 to (english language and yr="2009 -Current") (4993)

**Database name: WoS Core Collection**

1. TI = (health technolog\* assessment\* or health technolog\* apprais\* or HTA) (3395)
2. TI = (guideline\* or guidance\*) (141,056)
3. **TI = (path\* NEAR care) (5136)**
4. **TI = (path\* NEAR clinical) (27,348)**
5. **TI = (economic NEAR evaluat\*) (13,590)**
6. **TI = (economic NEAR assess\*) (7380)**
7. **TI = (evidence NEAR synthes\*) (4243)**
8. **TI = (cost NEAR effectiv\*) (55,730)**
9. **WC = Health Care Sciences Services (411,392)**
10. **WC = Health Policy Services (274,089)**
11. **#2 or #3 or #4 or #5 or #6 or #7 or #8 (252,228)**
12. **TI = (health\* or care\* or clinical or medical\* or practice\*) (2,978,150)**
13. **#11 and #12 (75,383)**
14. **#1 or #9 or #10 or #13 (579,807)**
15. **TI = (environment\* health) (16,645)**
16. **TI = (environment\* NEAR health) (16,484)**
17. **TI = (ecosystem\* NEAR health) (1418)**
18. **TI = (ecotoxi\*) (4726)**
19. **TI = (hazard\* NEAR environment\*) (2930)**
20. **TI = (risk\* NEAR environment\*) (13,828)**
21. **TI = (environment\* NEAR impact) (25,979)**
22. **TI = (environment\* polic\*) (10,660)**
23. **TI = (environment\* NEAR sustainab\*) (11,222)**
24. **TI = (ecological footprint\* or ecological foot print\* or ecological foot-print or carbon footprint\* or carbon foot print\* or carbon foot-print\*) (3624)**
25. **TI = (climat\* chang\* or climat\* cris\* or climat\* emergenc\*) (76,657)**
26. **TI = (greenhouse gas\* or GHG\* or emission\*) (269,833)**
27. **TI = (natural resource\* or renewable resource\* or nonrenewable resource\*) (12,015)**
28. **TI = (pollut\* or contamina\*) (226,272)**
29. **#15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 (658,639)**
30. **#14 and #29 (1872)**
31. **DT = (Abstract of Published Item OR Article OR Data Paper OR Database Review OR Early Access or Review) (50,986,462)**
32. **#30 and #31 (1258)**
33. **#30 and #31 (limited by 2009-01-01 to 2021-07-18) (867)**

**Database name: CABI: CAB Abstracts**

1. TI = (health technolog\* assessment\* or health technolog\* apprais\* or HTA) (97)
2. TI = (guideline\* or guidance\*) (11,200)
3. **TI = (path\* NEAR care) (328)**
4. **TI = (path\* NEAR clinical) (4063)**
5. **TI = (economic NEAR evaluat\*) (5091)**
6. **TI = (economic NEAR assess\*) (3278)**
7. **TI = (evidence NEAR synthes\*) (415)**
8. **TI = (cost NEAR effectiv\*) (4676)**
9. **#2 or #3 or #4 or #5 or #6 or #7 or #8 (28,900)**
10. **TI = (health\* or care\* or clinical or medical\* or practice\*) (341,693)**
11. **#9 and #10 (7188)**
12. **#1 or #11 (7,284)**
13. **TI = (environment\* health) (3563)**
14. **TI = (environment\* NEAR health) (3520)**
15. **TI = (ecosystem\* NEAR health) (755)**
16. **TI = (ecotoxi\*) (2890)**
17. **TI = (hazard\* NEAR environment\*) (656)**
18. **TI = (risk\* NEAR environment\*) (4136)**
19. **TI = (environment\* NEAR impact) (9975)**
20. **TI = (environment\* polic\*) (3094)**
21. **TI = (environment\* NEAR sustainab\*) (3601)**
22. **TI = (ecological footprint\* or ecological foot print\* or ecological foot-print or carbon footprint\* or carbon foot print\* or carbon foot-print\*) (1476)**
23. **TI = (climat\* chang\* or climat\* cris\* or climat\* emergenc\*) (38,907)**
24. **TI = (greenhouse gas\* or GHG\* or emission\*) (33,910)**
25. **TI = (natural resource\* or renewable resource\* or nonrenewable resource\*) (6055)**
26. **TI = (pollut\* or contamina\*) (106,689)**
27. **#13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 (209,638)**
28. **#12 and #27 (64)**
29. **DT = (Conference paper OR Conference proceedings OR Editorial OR Correspondence) (922,703)**
30. **#28 NOT #29 (58)**
31. **#12 and #27 (limited by 2009-01-01 to 2021-07-18) (41)**

**Database name: BIOSIS Citation Index**

1. TI = (health technolog\* assessment\* or health technolog\* apprais\* or HTA) (381)
2. TI = (guideline\* or guidance\*) (40,972)
3. **TI = (path\* NEAR care) (1453)**
4. **TI = (path\* NEAR clinical) (19,943)**
5. **TI = (economic NEAR evaluat\*) (3097)**
6. **TI = (economic NEAR assess\*) (1597)**
7. **TI = (evidence NEAR synthes\*) (2400)**
8. **TI = (cost NEAR effectiv\*) (16,847)**
9. **#2 or #3 or #4 or #5 or #6 or #7 or #8 (85,687)**
10. **TI = (health\* or care\* or clinical or medical\* or practice\*) (1,164,398)**
11. **#9 and #10 (34,111)**
12. **#1 or #11 or CC = 37012 (275,719)**
13. **TI = (environment\* health) (9428)**
14. **TI = (environment\* NEAR health) (8529)**
15. **TI = (ecosystem\* NEAR health) (1018)**
16. **TI = (ecotoxi\*) (4532)**
17. **TI = (hazard\* NEAR environment\*) (1519)**
18. **TI = (risk\* NEAR environment\*) (7625)**
19. **TI = (environment\* NEAR impact) (10,337)**
20. **TI = (environment\* polic\*) (1769)**
21. **TI = (environment\* NEAR sustainab\*) (4151)**
22. **TI = (ecological footprint\* or ecological foot print\* or ecological foot-print or carbon footprint\* or carbon foot print\* or carbon foot-print\*) (1023)**
23. **TI = (climat\* chang\* or climat\* cris\* or climat\* emergenc\*) (30,954)**
24. **TI = (greenhouse gas\* or GHG\* or emission\*) (57,025)**
25. **TI = (natural resource\* or renewable resource\* or nonrenewable resource\*) (4937)**
26. **TI = (pollut\* or contamina\*) (143,200)**
27. **#13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 (267,127)**
28. **#12 and #27 (1558)**
29. **DT = (Letter OR Meeting OR Meeting Paper OR Obituary OR Patent OR Company Profile) (7,088,508)**
30. **#28 NOT #29 (1285)**
31. **#12 and #27 (limited by 2009-01-01 to 2021-07-18) (83)**

**Supplementary Table S1: Gray Literature Sources**

|  |  |
| --- | --- |
| Organization | Country of Origin |
| Canadian Agency for Drugs and Health Technologies in Health (CADTH) | Canada |
| McGill University Health Centre (MUHC) | Canada |
| International Network of Agencies for Health Technology Assessment (INAHTA) | International |
| Queensland Government Health Technology Reference Group | Australia |
| Institute of Technology Assessment at the Austrian Academy of Sciences | Austria |
| Danish Health and Medicines Authority (DHMA) | Denmark |
| Agencia de Evaluación de Tecnologías Sanitarias, Instituto de Salud Carlos III | Spain |
| Swedish Council on Health Technology Assessment | Sweden |
| National Institute for Health and Care Excellence (NICE) | United Kingdom |
| National Institute for Health Research (NIHR) | United Kingdom |
| National Health Service (NHS) | United Kingdom |
| Agency for Healthcare Research and Quality (AHRQ) | United States |
| Institute for Clinical and Economic Review (ICER) | United States |
| United States Environmental Protection Agency (EPA) | United States |

**Supplementary Table S2: List of excluded studies at full-text screening**

|  |  |  |  |
| --- | --- | --- | --- |
| Title | Author(s) | Journal | Year |
| Effective diabetes complication management is a step toward a carbon-efficient planet: An economic modeling study | Fordham, Ric; *et al.* | BMJ Open Diabetes Research and Care | 2020 |
| Indoor air pollution: Cost-effectiveness analysis | Marcot, C.; *et al.* | Revue Francaise d'Allergologie | 2019 |
| Why be sustainable? The Australian and New Zealand College of Anaesthetists Professional Document PS64: Statement on **Environment**al Sustainability in Anaesthesia and Pain Medicine Practice and its accompanying background paper | McGain, Forbes; *et al.* | Anaesthesia and Intensive Care | 2019 |
| Primary-care-based social **prescri**bing for mental **health**: an analysis of financial and **environment**al sustainability | Maughan, Daniel L.; *et al.* | Primary **health** care research & development | 2016 |
| Evaluating sustainability: A retrospective cohort analysis of the Oxfordshire therapeutic community | Pearce, Steve; *et al.* | BMC Psychiatry | 2016 |
| Does a better adherence to dietary guidelines reduce mortality risk and **environment**al impact in the Dutch sub-cohort of the European Prospective Investigation into Cancer and Nutrition? | Biesbroek, Sander; *et al.* | British Journal of Nutrition | 2017 |
| Prioritising action on occupational carcinogens in Europe: A socioeconomic and **health** impact assessment | Sanchez Jimenez, A.; *et al.* | British Journal of Cancer | 2017 |
| **Health** Impact Assessment (HIA) vs **Environment**al Impact Assessment (EIA) | Simos, Jean | Environnement, Risques et Sante | 2015 |
| **Environment**ally sustainable **health** and social care: Scoping review and implications for the English NHS | Naylor, Chris; Appleby, John | Journal of **Health** Services Research and Policy | 2013 |
| Peripatetic intravenous service for metabolic bone disease: Case study in patient centred-care for new NHS | Davie, Michael; *et al.* | Current Medical Research and Opinion | 2010 |
| Economic value of home-based, multi-trigger, multicomponent interventions with an **environment**al focus for reducing asthma morbidity: A community guide systematic review | Nurmagambetov, Tursynbek A.; *et al.* | American Journal of Preventive Medicine | 2011 |
| Australia's dietary guidelines and the **environment**al impact of food "from paddock to plate" | Selvey, Linda A | The Medical journal of Australia | 2013 |
| Knowledge integration in One **Health** policy formulation, implementation and evaluation. | Hitziger, Martin; *et al.* | Bulletin of the World **Health** Organization | 2018 |
| **Health**y diets with reduced **environment**al impact? - The greenhouse gas emissions of various diets adhering to the Dutch food based dietary guidelines. | van de Kamp, Mirjam E; *et al.* | Food research international (Ottawa, Ont.) | 2018 |
| Combating climate change in the clinic: Cost-effective strategies to decrease the carbon footprint of outpatient dermatologic practice. | Fathy, Ramie; *et al.* | International journal of women's dermatology | 2021 |
| Planetary **health** care: a framework for sustainable **health** systems. | MacNeill, Andrea J; *et al.* | The Lancet. Planetary **health** | 2021 |
| Restorative Commons as an Expanded Ethical Framework for Public **Health** and **Environment**al Sustainability. | Gurevich, Robert | The New bioethics : a multidisciplinary journal of biotechnology *...* | 2020 |
| Water use in dialysis: **environment**al considerations. | Agar, John W M; Barraclough, Katherine A | Nature reviews. Nephrology | 2020 |
| The **health**iness and sustainability of national and global food based dietary guidelines: modelling study. | Springmann, Marco; *et al.* | BMJ (Clinical research ed.) | 2020 |
| **Environment**al sustainability and travel within the dental practice. | Duane, Brett; *et al.* | British dental journal | 2019 |
| **Environment**al, **health**, wellbeing, social and equity effects of urban green space interventions: A meta-narrative evidence synthesis. | Hunter, R F; *et al.* | **Environment** international | 2019 |
| Importance of considering **environment**al sustainability in dietary guidelines. | Tuomisto, Hanna L | The Lancet. Planetary **health** | 2018 |
| **Environment**al sustainability: measuring and embedding sustainable practice into the dental practice. | Duane, Brett; *et al.* | British dental journal | 2019 |
| Awareness and Barriers to Sustainable Dental Practice - A Scoping Literature Review: Sustainable Dental Practice: Awareness and barriers. | Martin, Nicolas; *et al.* | Journal of dentistry | 2021 |
| COVID-19, antibiotics and One **Health**: a UK **environment**al risk assessment. | Comber, Sean D W; *et al.* | The Journal of antimicrobial chemotherapy | 2020 |
| **Health** and Sustainability in Public Meals-An Explorative Review. | Hoijer, Karin; *et al.* | International journal of **environment**al research and public **health** | 2020 |
| Optimal Strategies for the Diagnosis of Acute Pulmonary Embolism: A **Health** Technology Assessment [Internet] | Sinclair, Alison; *et al.* |   | 2018 |
| Composite Resin versus Amalgam for Dental Restorations: A **Health** Technology Assessment — Project Protocol | Khangura, Sara D.; *et al.* |   | 2018 |
| Interventions for the Treatment of Obstructive Sleep Apnea in Adults: A **Health** Technology Assessment | Kim, Joanne; *et al.* |   | 2017 |
| Guidance on reuse of cardio-vascular catheters and devices in India: A consensus document. | Kapoor, Aditya; *et al.* | Indian heart journal | 2017 |
| Reprocessed single-use devices in laparoscopy: assessment of cost, **environment**al impact, and patient safety. | Renton, David; *et al.* | Surgical endoscopy | 2018 |
| Australia's dietary guidelines and the **environment**al impact of food "from paddock to plate". | Selvey, Linda A; Carey, Marion G | The Medical journal of Australia | 2013 |
| Green dentistry: the art and science of sustainable practice. | Mulimani, P | British dental journal | 2017 |
| Are the dietary guidelines for meat, fat, fruit and vegetable consumption appropriate for **environment**al sustainability? A review of the literature. | Reynolds, Christian John; *et al.* | Nutrients | 2014 |
| Carbon footprint and cost-effectiveness of cataract surgery. | Venkatesh, Rengaraj; *et al.* | Current opinion in ophthalmology | 2016 |
| Sustainability in the Qatar national dietary guidelines, among the first to incorporate sustainability principles. | Seed, Barbara | Public **health** nutrition | 2015 |
| **Environment**alism in surgical practice. | Weiss, Anna; *et al.* | Current problems in surgery | 2016 |
| Top paper in **environment**al policy: Eat locally, or eat differently?. | Engelhaupt, Erika | **Environment**al science & technology | 2009 |
| The **environment**al sustainability of dental practice. | McClea, Phillip T; *et al.* | The New Zealand dental journal | 2011 |
| Informing food policy: balancing the evidence. | Gill, M; Johnston, K | The Proceedings of the Nutrition Society | 2010 |
| Analysis of **environment**al impact assessment (EIA) system in Turkey. | Coskun, Aynur Aydin; Turker, Ozhan | **Environment**al monitoring and assessment | 2011 |
| Targeting the **environment**al risk assessment of pharmaceuticals: Facts and fantasies. | Tarazona, Jose V; *et al.* | Integrated **environment**al assessment and management | 2010 |
| Use of multicriteria decision analysis to support weight of evidence evaluation. | Linkov, Igor; *et al.* | Risk analysis : an official publication of the Society for Risk *...* | 2011 |
| Methodology to account for uncertainties and tradeoffs in pharmaceutical **environment**al hazard assessment. | Coutu, Sylvain; *et al.* | Journal of **environment**al management | 2012 |
| Integrating **Environment**al Sustainability Considerations into Food and Nutrition Policies: Insights from Australia's National Food Plan. | Ridgway, Ella Megan; *et al.* | Frontiers in nutrition | 2015 |
| Controversy over antibacterial silver: implications for **environment**al and sustainability assessments. | Boholm, Max; Arvidsson, Rickard | Journal of cleaner production | 2014 |
| Weight-of-evidence evaluation in **environment**al assessment: review of qualitative and quantitative approaches. | Linkov, Igor; *et al.* | The Science of the total **environment** | 2009 |
| Do single-use medical devices containing biopolymers reduce the **environment**al impacts of surgical procedures compared with their plastic equivalents? | Unger, S. R.; *et al.* | JOURNAL OF **HEALTH** SERVICES RESEARCH & POLICY | 2017 |
| Assessing the **environment**al, human **health**, and economic impacts of reprocessed medical devices in a Phoenix hospital's supply chain | Unger, S.; Landis, A. | JOURNAL OF CLEANER PRODUCTION | 2016 |
| Assessing the value of **health**care interventions using multi-criteria decision analysis: a review of the literature. | Marsh, Kevin; *et al.* |   | 2014 |
| Priority Setting of **health** interventions: the need for multi-criteria decision analysis | Baltussen, Rob; Niessen, Louis W. |   | 2006 |
| **Health** Technology Assessment and **Environment**al Costs: Time for **Health** Care To Catch Up? | Marsh, Kevin; *et al.* |   | 2014 |

**Supplementary Table S3: Summary of All Included Studies**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Authors | Year | Title  | Journal | Area | Type |
| Marsh *et al.* | 2016 | Expanding Health Technology Assessments to Include Effects on the Environment | *Value in Health* | HTA | Methodological review of rationales and challenges of incorporation of environmental considerations into HTA |
| Polisena *et al.* | 2018 | Environmental Impact Assessment of a Health Technology: A Scoping Review | *International Journal of Technology Assessment in Health Care* | HTA | Methodological (scoping) review of frameworks and methods to incorporate environmental impacts into HTA |
| Hensher | 2020 | Incorporating environmental impacts into the economic evaluation of health care systems: Perspectives from ecological economics | *Resources, Conservation and Recycling* | HTA | Methodological review of considerations for incorporation of environmental sustainability into economic evaluations of health technologies |
| Jacob *et al.* | 2021 | Economics of Interventions to Increase Active Travel to School: A Community Guide Systematic Review | *American Journal of Preventive Medicine* | HTA | Systematic review of economic evaluations of interventions that promote active travelling to school |
| Duane *et al.* | 2020 | Incorporating sustainability into assessment of oral health interventions | *British Dental Journal* | HTA | Modelling study using LCA methodology incorporating CO2e and DALYs |
| Ortsäter *et al.* | 2020 | Incorporating the Environmental Impact into a Budget Impact Analysis: The Example of Adopting RESPIMAT (R) Re-usable Inhaler | *Applied Health Economics and Health Policy* | HTA | Economic evaluation using LCA methodology incorporating social cost of carbon  |
| Preux et al. | 2018 | Beyond financial efficiency to support environmental sustainability in economic evaluations | *Future Healthcare Journal* | HTA | Economic evaluation using cost-effectiveness analysis with efficiency metric for carbon footprint of technology |
| Debaveye *et al.* | 2018 | The public health benefit and burden of mass drug administration programs in Vietnamese schoolchildren: Impact of mebendazole | *PLoS Neglected Tropical Diseases* | HTA | Economic evaluation based on Markov modelling comparing DALYs for treatment effect on health and those induced by supply chain of treatment calculated using LCA |
| Debaveye et al. | 2019 | Human health benefit and burden of the schizophrenia health care pathway in Belgium: paliperidone palmitate long-acting injections | *BMC Health Services Research* | HTA | Economic evaluation based on Markov modelling comparing DALYs for treatment health benefits and those induced by supply chain of treatment calculated using LCA |
| Marsh *et al.* | 2016 | Incorporating Environmental Outcomes into a Health Economic Model | *International Journal of Technology Assessment in Health Care* | HTA | Economic evaluation by IMS CORE model to predict treatment impacts on healthcare costs, HRQoL and CO2 emissions |
| Seifert *et al.* | 2021 | Life Cycle Assessment as decision support tool for environmental management in hospitals: a literature review | *Health Care Management Review* | Healthcare | Methodological review of how LCA can be used as a decision support tool for environmental management in hospitals |
| Reynier *et al.* | 2021 | Moving towards green anaesthesia: are patients' safety and environmentally friendly practices compatible? A focus on single-use devices | *Anaesthesia, Critical Care & Pain Medicine* | Healthcare | Narrative review on the benefits of reusable devices in terms of costs, water/energy consumption, waste, and reducing greenhouse gas emissions |
| NICE | 2017 | Environmental impact report: Medicines optimisation | *National Institute for Health and Care Excellence* | Healthcare | Report on the environmental impacts, calculated through the reduction of non-elective admissions for adverse drug reactions, of implementing NICE’s guidelines on medicines optimisation |
| NICE | 2020 | Patient Decision Aid: Inhalers for Asthma | *National Institute for Health and Care Excellence* | Healthcare | Decision aid for patients and clinicians on inhalers for asthma that includes environmental considerations |
| Jones *et al.* | 2016 | A Systematic Review of the Measurement of Sustainable Diets | *Advances in Nutrition* | Food & Diet | Methodological review of measurement and indicators of sustainable diets |
| Eme *et al.* | 2019 | Review of Methodologies for Assessing Sustainable Diets and Potential for Development of Harmonised Indicators | *International Journal of Environmental Research and Public Health* | Food & Diet | Methodological review of indicators used to assess diet sustainability including health, environmental, and socioeconomic factors |
| Huseinovic *et al.* | 2017 | Does diet intervention in line with nutrition recommendations affect dietary carbon footprint? Results from a weight loss trial among lactating women | *European Journal of Clinical Nutrition* | Food & Diet | Modelling study of 61 lactating women participating in weight loss trial to examine changes in dietary carbon footprint using LCA  |
| Bozeman *et al.* | 2020 | Meeting EAT-Lancet Food Consumption, Nutritional, and Environmental Health Standards: A U.S. Case Study across Racial and Ethnic Subgroups | *Environmental justice*  | Food & Diet | Modelling study of environmental impacts for per capita food consumption data of demographic subgroups using LCA  |
| Stylianou *et al.* | 2016 | A life cycle assessment framework combining nutritional and environmental health impacts of diet: a case study on milk | *International Journal of Life Cycle Assessment* | Food & Diet | Creation of a framework that evaluates in tandem the environmental and nutritional effects of foods or diets using LCA and DALYs |
| Gazan *et al.* | 2018 | Mathematical Optimization to Explore Tomorrow's Sustainable Diets: A Narrative Review | *Advances in Nutrition*  | Food & Diet | Narrative review on mathematical diet optimization modelling and its use in understanding diet sustainability and its relationship to other factors |
| Wilson *et al.* | 2019 | Achieving Healthy and Sustainable Diets: A Review of the Results of Recent Mathematical Optimization Studies | *Advances in Nutrition*  | Food & Diet | Methodological review on mathematical modelling to assist in identifying dietary patterns to improve health/nutrition and reduce environmental impacts |
| Brink *et al.* | 2019 | Development of healthy and sustainable food-based dietary guidelines for the Netherlands | *Public Health Nutrition* | Food & Diet | Mathematical modelling study to produce Dutch food-based dietary guidelines with constraints on food groups for health outcomes, environmental impact, and cultural acceptability |
| Serra-Majem *et al.* | 2020 | Updating the Mediterranean Diet Pyramid towards Sustainability: Focus on Environmental Concerns | *International Journal of Environmental Research and Public Health* | Food & Diet | Qualitative methods used to create a new pyramid for a sustainable diet, referencing studies that mainly used LCA |
| Springmann et al.  | 2020 | The healthiness and sustainability of national and global food based dietary guidelines: modelling study | *The BMJ* | Food & Diet  | Modelling of health and environmental impact of adoption of 85 national food-based dietary guidelines compared to those of WHO and EAT-Lancet Commission |

Abbreviations: HTA = health technology assessment, LCA = life-cycle assessment, CO2e = carbon dioxide equivalents, DALYs = disability-adjusted life years, HRQoL = health-related quality of life, NICE = National Institute for Health and Care Excellence,