# Supplementary File 1

## Search report

The goal of the focussed systematic search was to define disruptive technology (DT) in the context of health care. It targets both lexical and theoretical definitions of DT. It does not attempt to identify DT in the sense of horizon scanning, nor is it comprehensive in scope. Elements of the search were adapted from Støme et al. (lines 20-38) and Varela-Lema et al. (lines 39-44) (2,3).

The strategy was developed by LJ and JW and run on 9th April 2019 with an update on 22nd December 2021 in MEDLINE (OvidSP) and Embase (OvidSP). The results were downloaded and imported into EndNote. The retrieved hits were screened for duplicates both automatically in EndNote and manually.

**MEDLINE (OvidSP)**

|  |  |
| --- | --- |
| **Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily** <1946 to April 08, 2019> | |
| 1 | ((disrupt\* or breakthrough or break through or transformati\*) adj (innovation\* or technolog\* or health or ehealth or healthcare)).tw,kw. |
| 2 | (innovat\* adj (technolog\* or health or ehealth or healthcare or adopt\*)).tw,kw. |
| 3 | health innovat\*.tw,kw. |
| 4 | (ehealth adj (innovat\* or technolog\*)).tw,kw. |
| 5 | ((game or step) adj (changing or changer\* or change\*1)).tw. |
| 6 | market disrupt\*.tw. |
| 7 | or/1-6 |
| 8 | ((disrupt\* or breakthrough or break through or transformati\*) adj (innovation\* or technolog\* or health or ehealth or healthcare)).ti. |
| 9 | (innovat\* adj (technolog\* or health or ehealth or healthcare or adopt\*)).ti. |
| 10 | health innovat\*.ti. |
| 11 | (ehealth adj (innovat\* or technolog\*)).ti. |
| 12 | ((disrupt\* or breakthrough or break through or transformati\*) adj (innovation\* or technolog\* or health or ehealth or healthcare)).kw. |
| 13 | (innovat\* adj (technolog\* or health or ehealth or healthcare or adopt\*)).kw. |
| 14 | health innovat\*.kw. |
| 15 | (ehealth adj (innovat\* or technolog\*)).kw. |
| 16 | or/8-15 |
| 17 | td.fs. |
| 18 | 7 and 17 |
| 19 | 16 or 18 |
| 20 | exp Technology Assessment, Biomedical/ |
| 21 | (early\* or first-stage or first-phase or horizon or pilot).tw,kf. |
| 22 | 20 and 21 |
| 23 | ((early assessment or early stage assessment or early phase assessment) adj5 (biomedical or medical or health) adj5 (technology or service\* or app? or application\* or device\* or tool\*)).tw,kf. |
| 24 | (Constructive Technology Assessment\* and (early or pilot or forecast\*)).tw,kf. |
| 25 | ((early or novel or pilot\*) adj5 (hta or health technolog\* or technology assess\* or technology evalut\* or health innovation\*)).tw,kf. |
| 26 | or/22-25 |
| 27 | mt.fs. |
| 28 | st.fs. |
| 29 | td.fs. |
| 30 | or/27-29 |
| 31 | 26 and 30 |
| 32 | method\*.mp. |
| 33 | standard\*.mp. |
| 34 | trend\*.mp. |
| 35 | or/32-34 |
| 36 | 26 and 35 |
| 37 | 31 or 36 |
| 38 | limit 37 to yr="2013 -Current" |
| 39 | (new or newly or intial or initial or early or prototype or preliminary or pilot or validation or experimental or feasibility or feasability or recent$ or innovate or innovated or "single-centre" or innovates or innovating or innovation$ or innovative$ or innovatory or emergent$ or novel$ or advance$1).ti. |
| 40 | (technology$ or technologic or technological or technologically or technologies$ or technologist$ or technique$ or device$ or system$2 or procedure$ or prodedure$ or diagnostic$ or surger$ or intervent$ or transplant$ or method or test or material or application or experience or experiences or image or imaging or approach or tool$ or application).ti. |
| 41 | 39 and 40 |
| 42 | 41 and 22 |
| 43 | 37 or 42 |
| 44 | 38 or 42 |
| 45 | 19 or 43 |
| **46** | **19 or 44** |

**Embase (OvidSP)**

|  |  |
| --- | --- |
| **Embase** <1974 to 2019 April 08> | |
| 1 | ((disrupt\* or breakthrough or break through or transformati\*) adj (innovation\* or technolog\* or health or ehealth or healthcare)).tw,kw. |
| 2 | (innovat\* adj (technolog\* or health or ehealth or healthcare or adopt\*)).tw,kw. |
| 3 | health innovat\*.tw,kw. |
| 4 | (ehealth adj (innovat\* or technolog\*)).tw,kw. |
| 5 | ((game or step) adj (changing or changer\* or change\*1)).tw. |
| 6 | market disrupt\*.tw. |
| 7 | or/1-6 |
| 8 | ((disrupt\* or breakthrough or break through or transformati\*) adj (innovation\* or technolog\* or health or ehealth or healthcare)).ti. |
| 9 | (innovat\* adj (technolog\* or health or ehealth or healthcare or adopt\*)).ti. |
| 10 | health innovat\*.ti. |
| 11 | (ehealth adj (innovat\* or technolog\*)).ti. |
| 12 | ((disrupt\* or breakthrough or break through or transformati\*) adj (innovation\* or technolog\* or health or ehealth or healthcare)).kw. |
| 13 | (innovat\* adj (technolog\* or health or ehealth or healthcare or adopt\*)).kw. |
| 14 | health innovat\*.kw. |
| 15 | (ehealth adj (innovat\* or technolog\*)).kw. |
| 16 | or/8-15 |
| 17 | biomedical technology assessment/ |
| 18 | (early\* or first-stage or first-phase or horizon or pilot).tw,kw. |
| 19 | 17 and 18 |
| 20 | ((early assessment or early stage assessment or early phase assessment) adj5 (biomedical or medical or health) adj5 (technology or service\* or app? or application\* or device\* or tool\*)).tw,kw. |
| 21 | (Constructive Technology Assessment\* and (early or pilot or forecast\*)).tw,kw. |
| 22 | ((early or novel or pilot\*) adj5 (hta or health technolog\* or technology assess\* or technology evalut\* or health innovation\*)).tw,kw. |
| 23 | or/19-22 |
| 24 | method\*.mp. |
| 25 | standard\*.mp. |
| 26 | trend\*.mp. |
| 27 | or/24-26 |
| 28 | 23 and 27 |
| 29 | limit 28 to yr="2013 -Current" |
| 30 | (new or newly or intial or initial or early or prototype or preliminary or pilot or validation or experimental or feasibility or feasability or recent$ or innovate or innovated or "single-centre" or innovates or innovating or innovation$ or innovative$ or innovatory or emergent$ or novel$ or advance$1).ti. |
| 31 | (technology$ or technologic or technological or technologically or technologies$ or technologist$ or technique$ or device$ or system$2 or procedure$ or prodedure$ or diagnostic$ or surger$ or intervent$ or transplant$ or method or test or material or application or experience or experiences or image or imaging or approach or tool$ or application).ti. |
| 32 | 30 and 31 |
| 33 | 32 and 19 |
| 34 | 28 or 33 |
| 35 | 29 or 33 |
| 36 | 16 or 34 |
| **37** | **16 or 35** |

**References Consulted for the Search Strategy**

1. Christensen CM, McDonald R, Altman EJ, Palmer JE. Disruptive Innovation: An Intellectual History and Directions for Future Research. Journal of Management Studies. 2018;55(7):1043-78.

2. Støme LN, Moger T, Kidholm K, Kværner KJ. Early assessment of innovation in a healthcare setting. Int J Technol Assess Health Care. 2019;35(1):17-26.

3. Varela-Lema L, Punal-Riobóo J, Acción BC, Ruano-Ravina A, García ML. Making processes reliable: a validated pubmed search strategy for identifying new or emerging technologies. Int J Technol Assess Health Care. 2012;28(4):452-9.