
Supplementary file 1. Databases' search strategy

MEDLINE Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

- 1 Ventricular Function, Left/ (32622)
 - 2 Ventricular Dysfunction, Left/ (24705)
 - 3 left ventric*.mp. (179585)
 - 4 LV.mp. (41504)
 - 5 1 or 2 or 3 or 4 (198982)
 - 6 Echocardiography/ (78179)
 - 7 speckle tracking.mp. (3722)
 - 8 STE.mp. (1905)
 - 9 strain.mp. (385200)
 - 10 deformation.mp. (36853)
 - 11 mechanic*.mp. (390628)
 - 12 torsion.mp. (22257)
 - 13 twist.mp. (10298)
 - 14 rotation.mp. (95760)
 - 15 GLS.mp. (1508)
 - 16 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 (963614)
 - 17 Cardiovascular Diseases/ (128863)
 - 18 cardiovascular disease*.mp. (220948)
 - 19 Heart Failure/ (103286)
 - 20 Heart failure.mp. (176882)
 - 21 HF.mp. (35998)
 - 22 Mortality/ (39168)
 - 23 mortality.mp. (670200)
 - 24 Death/ (16230)
 - 25 death.mp. (691814)
 - 26 Morbidity/ (27417)
 - 27 morbidity.mp. (330859)
 - 28 (cardi* adj3 (event* or outcome*)).mp. (66991)
 - 29 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 (1690357)
 - 30 predict*.mp. (1382430)
 - 31 prognos*.mp. (734497)
 - 32 30 or 31 (1934125)
 - 33 exp Cohort Studies/ (1714168)
 - 34 (cohort adj (study or studies)).mp. (310492)
 - 35 (Follow up adj (study or studies)).mp. (604740)
 - 36 Longitudinal.mp. (250750)
 - 37 (observational adj (study or studies)).mp. (109821)
 - 38 Epidemiologic studies/ (7611)
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	<p>39 (epidemiologic* adj (study or studies)).mp. (79971)</p> <p>40 population based study.mp. (24755)</p> <p>41 general population.mp. (85498)</p> <p>42 communit*.mp. (535197)</p> <p>43 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 (2539317)</p> <p>44 5 and 16 and 29 and 32 and 43 (2940)</p>
EMBASE	<p>Database: Embase Classic+Embase <1947 to 2018 February 27></p> <p>Search Strategy:</p> <p>-----</p> <p>1 heart left ventricle function/ (39176)</p> <p>2 left ventric*.mp. (332499)</p> <p>3 LV.mp. (83461)</p> <p>4 1 or 2 or 3 (353062)</p> <p>5 echocardiography/ (178295)</p> <p>6 exp speckle tracking echocardiography/ (3150)</p> <p>7 speckle tracking.mp. (10536)</p> <p>8 STE.mp. (4416)</p> <p>9 strain.mp. (762166)</p> <p>10 deformation.mp. (42935)</p> <p>11 mechanic*.mp. (498347)</p> <p>12 torsion.mp. (27446)</p> <p>13 twist.mp. (12502)</p> <p>14 rotation.mp. (109923)</p> <p>15 GLS.mp. (3938)</p> <p>16 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 (1553350)</p> <p>17 cardiovascular disease/ (241943)</p> <p>18 cardiovascular disease*.mp. (336057)</p> <p>19 heart failure/ (212076)</p> <p>20 Heart Failure.mp. (347509)</p> <p>21 HF.mp. (60866)</p> <p>22 mortality/ (722163)</p> <p>23 cardiovascular mortality/ (29486)</p> <p>24 all cause mortality/ (4807)</p> <p>25 mortality.mp. (1271143)</p> <p>26 death/ (284488)</p> <p>27 death.mp. (1097060)</p> <p>28 morbidity/ (309365)</p> <p>29 morbidity.mp. (569914)</p> <p>30 (cardi* adj3 (event* or outcome*)).mp. (110928)</p> <p>31 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 (2824491)</p> <p>32 predict*.mp. (1798936)</p> <p>33 prognos*.mp. (982782)</p>

34	32 or 33 (2544622)
35	longitudinal study/ (109328)
36	longitudinal.mp. (297876)
37	prospective study/ (426930)
38	cohort analysis/ (346132)
39	(Cohort adj (study or studies)).mp. (217636)
40	(follow up adj (study or studies)).mp. (63815)
41	(observational adj (study or studies)).mp. (172984)
42	(epidemiologic* adj (study or studies)).mp. (100634)
43	population based study.mp. (33254)
44	general population.mp. (124629)
45	communit*.mp. (641283)
46	35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 (1963334)
47	4 and 16 and 31 and 34 and 46 (4098)

‘adj3’ is a proximity operator and indicates within three words;

‘OR and AND’ are Boolean operators;

‘*’ indicates truncation;

‘mp.’ means a keyword search of title, abstract, original title, name of substance word, subject heading word and keyword heading word.