

Supplementary file 1. Example of search strategy for Ovid MEDLINE database**Medline**

- 1 "Early Detection of Cancer"/ (21288)
- 2 exp Neoplasms/di, pc [Diagnosis, Prevention & Control] (558392)
- 3 exp Colonoscopy/ (28423)
- 4 Occult Blood/ (5214)
- 5 exp Mammography/ (28739)
- 6 Human Papillomavirus DNA Tests/ (449)
- 7 Papanicolaou Test/ (6344)
- 8 Tomography, X-Ray Computed/ (362120)
- 9 Tomography, Emission-Computed/ (24537)
- 10 (early adj3 (cancer* or neoplasm* or carcinoma* or adenocarcinoma* or malignan* or tumor?r* or metastas* or sarcoma*)).tw,kf. (67360)
- 11 ((screen or screens or screening) adj5 (cancer* or neoplasm* or carcinoma* or adenocarcinoma* or malignan* or tumor?r* or metastas* or oncolog* or sarcoma* or breast)).tw,kf. (58804)
- 12 (test* adj3 (cancer* or neoplasm* or carcinoma* or adenocarcinoma* or malignan* or tumor?r* or metastas* or oncolog* or sarcoma*)).tw,kf. (47410)
- 13 colonoscop*.tw,kf. (28110)
- 14 Sigmoidoscop*.tw,kf. (4548)
- 15 occult blood.tw,kf. (5250)
- 16 fecal immunochemical test*.tw,kf. (858)
- 17 iFOBT.tw,kf. (132)
- 18 (mammograph* or mammogram*).tw,kf. (30982)
- 19 ((human papillomavirus or HPV) adj3 test*).tw,kf. (6241)
- 20 ((Papanicolaou or Pap) adj3 (test* or smear*)).tw,kf. (11223)
- 21 (comput* adj5 tomograph* adj10 (cancer* or neoplasm* or carcinoma* or adenocarcinoma* or malignan* or tumor?r* or metastas* or oncolog* or sarcoma*)).tw,kf. (32625)
- 22 ((CT or CAT) adj5 (scan* or x-ray* or low dose) adj10 (cancer* or neoplasm* or carcinoma* or adenocarcinoma* or malignan* or tumor?r* or metastas* or oncolog* or sarcoma*)).tw,kf. (13624)
- 23 or/1-22 (1077281)
- 24 Internet/ (68365)
- 25 Social Media/ (5887)
- 26 Telephone/ (11256)
- 27 exp Cell Phone/ (9458)
- 28 "Cell Phone Use"/ (94)
- 29 exp Telemedicine/ (25015)
- 30 online social networking/ (36)
- 31 Webcasts as Topic/ (305)
- 32 internet.tw,kf. (47742)
- 33 wireless.tw,kf. (12295)
- 34 world wide web.tw,kf. (3143)
- 35 (cyberspace or cyber-space).tw,kf. (443)
- 36 web-based.tw,kf. (27133)
- 37 (social medium or social media*).tw,kf. (8642)
- 38 (online adj5 social network*).tw,kf. (802)
- 39 (text messag* or texting or short message service or SMS or instant messag*).tw,kf. (8834)
- 40 ((mobile or cell or cellular or smart) and (phone* or device*)).tw,kf. (48926)
- 41 Smartphone*.tw,kf. (8435)
- 42 ((app or apps or application*) and (phone* or device*)).tw,kf. (65979)

- 43 (email* or e-mail*).tw,kf. (14473)
- 44 (blog* or vlog* or microblog*).tw,kf. (1849)
- 45 video chat*.tw,kf. (71)
- 46 "web 2.0".tw,kf. (624)
- 47 Facebook.tw,kf. (2921)
- 48 WhatsApp.tw,kf. (257)
- 49 QQ.tw,kf. (829)
- 50 WeChat.tw,kf. (112)
- 51 QZone.tw,kf. (2)
- 52 Tumblr.tw,kf. (45)
- 53 Instagram.tw,kf. (300)
- 54 Twitter.tw,kf. (2483)
- 55 Google plus.tw,kf. (9)
- 56 Baidu Tieba.tw,kf. (2)
- 57 Skype.tw,kf. (300)
- 58 Viber.tw,kf. (9)
- 59 Sina Weibo.tw,kf. (42)
- 60 (LINE and messenger*).tw,kf. (3791)
- 61 Snapchat.tw,kf. (44)
- 62 YY.tw,kf. (3216)
- 63 VKontakte.tw,kf. (2)
- 64 Pinterest.tw,kf. (52)
- 65 LinkedIn.tw,kf. (132)
- 66 Telegram.tw,kf. (26)
- 67 Reddit.tw,kf. (74)
- 68 Taringa.tw,kf. (1)
- 69 Foursquare.tw,kf. (25)
- 70 Ren Ren.tw,kf. (1)
- 71 Tagged.tw,kf. (35301)
- 72 (telemedicine or tele-medicine).tw,kf. (10969)
- 73 (telehealth or tele-health).tw,kf. (4103)
- 74 (eHealth or e Health).tw,kf. (5265)
- 75 (telecare or tele-care).tw,kf. (724)
- 76 (telenursing or tele-nursing).tw,kf. (188)
- 77 mobile health.tw,kf. (3276)
- 78 (mHealth or m Health).tw,kf. (3758)
- 79 Free Open Access Med*.tw,kf. (48)
- 80 FOAM.tw,kf. (18519)
- 81 webcast*.tw,kf. (235)
- 82 podcast*.tw,kf. (688)
- 83 or/24-82 (345912)
- 84 23 and 83 (7353)
- 85 limit 84 to (comment or editorial or letter) (175)
- 86 84 not 85 (7178)
- 87 Animals/ not (Animals/ and Humans/) (4551893)
- 88 86 not 87 (6970)