

Supplemental Appendix 1. Search strategies.

Ovid MEDLINE(R) 1946 to July Week 5 2015

	Terms	Results
1	exp neoplasms/ or exp antineoplastic agents/	3213520
2	transplantation/ or exp organ transplantation/ or "tissue and organ harvesting"/ or donor selection/ or tissue transplantation/ or bone marrow transplantation/ or transplantation, autologous/ or transplantation, heterotopic/ or transplantation, homologous/ or transplantation, isogeneic/ [****Transplant terms****]	312087
3	stem cell transplantation/ or cord blood stem cell transplantation/ or hematopoietic stem cell transplantation/ or mesenchymal stem cell transplantation/ or peripheral blood stem cell transplantation/ [****Stem Cell Transplant terms****]	59907
4	(neoplasm* or neoplas* or cancer* or oncolog* or tumor* or tumour* or transplant*).mp.	3366103
5	radiometry/ or radiation dosage/ or dose-response relationship, radiation/ or radiometr*.ti,ab. [****Added textwords****]	93954
6	Radiotherapy Dosage/	46049
7	((gray or sievert) adj2 unit*) or (radiation adj2 (dosage* or dose or dosing)) or "gy radiation" or "radiation dose-response").mp.	56126
8	chemoradiotherapy/ or chemoradiotherapy, adjuvant/	5503
9	Radiotherapy, Adjuvant/	18245
10	rt.fs. or radiotherapy/ or radiotherap*.ti,ab. [****Added textwords****]	235659
11	((adjuvant adj2 chemotherap*) or chemoradiotherap* or radiochemotherap*).mp.	54403
12	or/1-11 [****Population terms****]	4135866
13	("oto-toxic*" or ototoxic*).ti,ab.	4818
14	ear diseases/ or hearing disorders/ or hearing loss/ or deafness/ or deaf-blind disorders/ or usher syndromes/ or wolfram syndrome/ or hearing loss, bilateral/ or hearing loss, conductive/ or hearing loss, functional/ or hearing loss, high-frequency/ or hearing loss, mixed conductive-sensorineural/ or hearing loss, sensorineural/ or hearing loss, central/ or hearing loss, noise-induced/ or presbycusis/ or hearing loss, sudden/ or hearing loss, unilateral/ or hyperacusis/ or tinnitus/	79655
15	auditory perception/ or auditory threshold/ or auditory fatigue/ or loudness perception/ or perceptual masking/ or pitch perception/ or pitch discrimination/ or sound localization/ or speech perception/	63359
16	hearing tests/ or audiometry/ or audiometry, pure-tone/ or audiometry, speech/ or speech discrimination tests/ or speech reception threshold test/ or psychoacoustics/	34413
17	(hearing adj2 loss).ti,ab.	30848
18	(hearing adj2 test).ti,ab.	657
19	(hearing adj2 problem*).ti,ab.	860
20	((usher* or wolfram*) and syndrome*).ti,ab.	1442
21	hyperacusis.ti,ab.	291
22	tinnitus.ti,ab.	7289
23	(loudness adj2 perception*).ti,ab.	159
24	(perceptual adj2 masking).ti,ab.	44
25	(pitch adj2 perception*).ti,ab.	515
26	(pitch adj2 discrimination).ti,ab.	305
27	(sound adj2 local#ation*).ti,ab.	1424
28	(speech adj2 perception*).ti,ab.	4031
29	audiometry.ti,ab.	6553
30	(speech adj2 discrimination).ti,ab.	1383
31	(speech adj2 reception adj2 threshold*).ti,ab.	659
32	psychoacoustic*.ti,ab.	894
33	or/13-32 [***Hearing loss terms****]	148818
34	patient outcome assessment/ [****New MeSH term as of 2014 - no previous indexing	1448

	Terms	Results
	terms****]	
35	(prom or (patient* adj2 outcome* adj2 (assessment* or research* or questionnaire*)))ti,ab.	2660
36	Mass Screening/is	1048
37	Questionnaires/ or (questionnaire* or survey*)ti,ab. [****Additional data collection terms****]	756386
38	Interviews as Topic/ or interview*ti,ab. [****Additional data collection terms****]	236723
39	instrument*ti,ab. [****Additional data collection terms - probably will general too many false positives - what term(s) if any can be added to make it more specific it more ****]	179182
40	(scale or scales)ti,ab. [****Additional data collection terms****]	422681
41	Narration/ or narrative*ti,ab. [****Additional data collection terms****]	18336
42	diary/ or (diary or diaries).mp. [****Additional data collection terms****]	15615
43	((("semi-structured" or semistructured or unstructured or informal or "in-depth" or indepth or "face-to-face" or structured or guide or guides) and (interview* or discussion* or questionnaire* or "focus group*" or qualitative or ethnograph* or fieldwork or "field work" or "key informant")))ti,ab. [****Additional data collection terms****]	85873
44	focus group/ or (focus adj2 group*)ti,ab. [****Additional data collection terms****]	26730
45	self report/ or ((patient* or self) adj2 report*)ti,ab. [****Additional data collection terms****]	175570
46	"International Society of Pediatric Oncology Boston ototoxicity scale"ti,ab. [****Specific scale in Title of sentinel article****]	1
47	(Boston adj2 ototoxic* adj2 scale*)ti,ab. [****Specific scale in Title of sentinel article****]	2
48	((Speech adj2 Spatial adj2 Qualities adj2 Hearing adj2 Scale*) or SSQ*)ti,ab. [****Specific scale in Title of sentinel article - SSQ truncated to pick up SSQ as well as SSQ5****]	307
49	((Tinnitus adj5 (questionnaire* or scale* or inventory*)) or ("THI-12" or TRS or TSS))ti,ab.	5604
50	psychometrics/ or psychometric*ti,ab.	68006
51	evaluation studies as topic/ or "reproducibility of results"/ or validation studies as topic/ or "Sensitivity and specificity"/	618084
52	Self-Assessment/	10763
53	((Patient* or self) adj2 (evaluat* or apprais*) or "self-apprais* or self-evaluat*")ti,ab.	77651
54	(evaluation studies or validation studies).pt.	271670
55	or/34-54 [****Evaluation or data collection terms****]	2237845
56	12 and 33 and 55 [****Base clinical set including evalaution terms****]	1025
57	(child or child* or "school-child*" or kindergar* or kid or kids)ti,ab.	997542
58	(boy* or girl* or minor or minors* or underag* or juvenil* or youth*)ti,ab.	426508
59	(adoles* or teen* or puber* or pubescen* or prepubescen* or prepuberty*)ti,ab.	212777
60	(pediatrics or pediatric* or paediatric* or peadiatric*)ti,ab.	218780
61	("school-child*" or kindergar* or school* or preschool* or "pre-school*" or highschool* or "school-age" or schoolage*)ti,ab.	206249
62	(youth* or "young adult*" or (young adj2 adult*))ti,ab.	102470
63	or/57-62 [****Cochrane age group textwords****]	1636635
64	56 and 63 [****Age group limit 1****]	154
65	limit 56 to ("child (6 to 12 years)" or "adolescent (13 to 18 years)" or "young adult (19 to 24 years)")	343
66	64 or 65 [***FINAL Age group results****]	380

Database: Embase Classic+Embase <1947 to 2015 August 11>

	Term	Results
1	exp neoplasm/	3795909
2	exp antineoplastic agent/	1642945
3	transplantation/	152564
4	exp organ transplantation/	304626
5	donor selection/	3911
6	tissue transplantation/	4483
7	bone marrow transplantation/	45980
8	autotransplantation/	28239
9	heterotopic transplantation/	1161
10	allograft transplantation/	34078
11	isotransplantation/	159
12	stem cell transplantation/	32061
13	cord blood stem cell transplantation/	4181
14	hematopoietic stem cell transplantation/	26682
15	mesenchymal stem cell transplantation/	6857
16	peripheral blood stem cell transplantation/	2589
17	(neoplasm* or neoplas* or cancer* or oncolog* or tumor* or tumour* or transplant*).mp.	4546872
18	radiometry/	17229
19	radiation dose/	112014
20	radiation response/	46271
21	radiometr*.ti,ab.	5056
22	((gray or sievert) adj2 unit*) or (radiation adj2 (dosage* or dose or dosing)) or "gy radiation" or "radiation dose-response").mp.	148350
23	chemoradiotherapy/	17713
24	adjuvant chemoradiotherapy/	2343
25	adjuvant therapy/	44404
26	rt.fs. or radiotherap*.ti,ab.	368738
27	radiotherapy/	123731
28	((adjuvant adj2 chemotherap*) or chemoradiotherap* or radiochemotherap*).mp.	75978
29	or/1-28 [population terms]	5947294
30	("oto-toxic*" or ototoxic*).ti,ab.	6390
31	ear disease/	6776
32	hearing disorder/	10703
33	hearing impairment/	53202
34	deafblindness/	81
35	Usher syndrome/	1151
36	Wolfram syndrome/	647
37	conduction deafness/	4495
38	functional hearing loss/	5
39	mixed hearing loss/	660
40	perception deafness/	19547
41	noise injury/	5898
42	presbycusis/	1881
43	sudden deafness/	2279
44	unilateral hearing loss/	830
45	loudness recruitment/	645
46	tinnitus/	15994
47	hearing/	46213
48	auditory threshold/	14025
49	auditory masking/	2289

	Term	Results
50	sound detection/	9274
51	speech perception/	12848
52	hearing test/	8212
53	audiometry/	18990
54	pure tone audiometry/	8746
55	speech audiometry/	3505
56	psychophysics/	11598
57	(hearing adj2 loss).ti,ab.	42453
58	(hearing adj2 test).ti,ab.	1066
59	(hearing adj2 problem*).ti,ab.	1291
60	((usher* or wolfram*) and syndrome*).ti,ab.	1878
61	hyperacusis.ti,ab.	430
62	tinnitus.ti,ab.	11383
63	(loudness adj2 perception*).ti,ab.	209
64	(perceptual adj2 masking).ti,ab.	59
65	(pitch adj2 perception*).ti,ab.	640
66	(pitch adj2 discrimination).ti,ab.	402
67	(sound adj2 localisation*).ti,ab.	1756
68	(speech adj2 perception*).ti,ab.	4945
69	audiometry.ti,ab.	10164
70	(speech adj2 discrimination).ti,ab.	1911
71	(speech adj2 reception adj2 threshold*).ti,ab.	794
72	psychoacoustic*.ti,ab.	1107
73	or/30-72 [hearing loss terms]	203218
74	outcome assessment/	289808
75	(prom or (patient* adj2 outcome* adj2 (assessment* or research* or questionnaire*))).ti,ab.	4415
76	mass screening/	51310
77	questionnaire/	452097
78	(questionnaire* or survey*).ti,ab.	948289
79	interview/	142841
80	interview*.ti,ab.	304166
81	instrument*.ti,ab.	270470
82	(scale or scales).ti,ab.	658447
83	narrative/	3676
84	narrative*.ti,ab.	21416
85	(diary or diaries).mp.	25323
86	((("semi-structured" or semistructured or unstructured or informal or "in-depth" or indepth or "face-to-face" or structured or guide or guides) and (interview* or discussion* or questionnaire* or "focus group*" or qualitative or ethnograph* or fieldwork or "field work" or "key informant"))).ti,ab.	128545
87	(focus adj2 group*).ti,ab.	31808
88	self report/	75725
89	((patient* or self) adj2 report*).ti,ab.	263158
90	"international society of pediatric oncology boston ototoxicity scale".ti,ab.	1
91	(Boston adj2 ototoxic* adj2 scale*).ti,ab.	3
92	((speech adj2 spatial adj2 qualities adj2 hearing adj2 scale*) or SSQ*).ti,ab.	552
93	((tinnitus adj5 (questionnaire* or scale* or inventory*)) or ("THI-12" or TRS or TSS)).ti,ab.	8250
94	psychometry/	47246
95	psychometric*.ti,ab.	36987
96	evaluation study/	18107
97	reproducibility/	164724
98	validation study/	51579
99	"sensitivity and specificity"/	231515

	Term	Results
100	self evaluation/	22697
101	(((patient* or self) adj2 (evaluat* or apprais*)) or "self-apprais* or self evaluat*").ti,ab.	129396
102	or/74-101 [evaluation or data collection terms]	2908711
103	29 and 73 and 102 [population and hearing loss and evaluation]	2699
104	(child or child* or "school-child*" or kindergar* or kid or kids).ti,ab.	1461590
105	(boy* or girl* or minor or minors* or underag* or juvenil* or youth*).ti,ab.	629389
106	(adoles* or teen* or puber* or pubescen* or prepubescen* or prepubert*).ti,ab.	317169
107	(pediatrics or pediatric* or paediatric* or peadiatric*).ti,ab.	362468
108	("school-child*" or kindergar* or school* or preschool* or "pre-school*" or highschool* or "school-age" or schoolage*).ti,ab.	296097
109	(youth* or "young adult*" or (young adj2 adult*).ti,ab.	145489
110	or/104-109 [Cochrane age group textwords]	2388437
111	103 and 110 [age group limit 1]	492
112	limit 103 to (child <unspecified age> or school child <7 to 12 years> or adolescent <13 to 17 years>)	581
113	111 or 112 [final age group results]	55

PsycINFO and CINAHL searches are available on request