

Table S1. Database(s): Embase 1974 to 2020 July 22, Ovid MEDLINE(R) ALL 1946 to July 22, 2020.

#	Searches	Results
1	exp Gender Identity/	36797
2	Sex Factors/	270976
3	Sex Characteristics/	55645
4	(sex adj5 biological variable\$).tw,kf.	404
5	(sex adj2 gender adj3 based).tw,kf.	276
6	(SABV\$ or SGBA\$).tw,kf.	91
7	(gender adj2 (main stream\$ or mainstream\$)).tw,kf. ((sex\$ or gender\$) adj3 (analy\$ or aspect\$ or based or bias\$ or characteristic\$ or comparison\$ or determinant\$ or differen\$ or dimorphism\$ or di-morphism\$ or disparit\$ or distribut* or equalit\$ or equity or factor\$ or identit\$ or inequit\$ or inequalit\$ or informed\$ or institutional\$ or integrated or interaction* or issue\$ or medicine or minorit* or norm or norms or related or responsiv\$ or role\$ or specific\$ or transform\$)).tw,kf.	223
8	specific\$ or transform\$)).tw,kf.	639634
9	or/1-8 [Sex and Gender Concept]	893598
10	exp Drug Industry/ drug development/ or exp drug approval/ or exp drug design/ or drug evaluation/	127186
11	or drug evaluation, preclinical/ or drug repositioning/	489293
12	Drug Discovery/	51759
13	Drug Costs/ legislation, drug/ or "drug and narcotic control"/ or drug approval/ or drug recalls/	90180
14	or safety-based drug withdrawals/ product surveillance, postmarketing/ or adverse drug reaction reporting systems/ or clinical trials, phase iv as topic/ or pharmacovigilance/ or prescription drug	93734
15	monitoring programs/	29677
16	Precision Medicine/	36854
17	exp "Drug-Related Side Effects and Adverse Reactions"/	645062
18	((drug\$ or pharm\$) adj3 (lifecycle\$ or life cycle\$)).tw,kf.	658
19	(precision adj (medicine or pharm\$)).tw,kf.	22449
20	pharmacovigilan\$.tw,kf. ((drug\$ or pharm\$) adj2 (approv\$ or cost\$ or develop\$ or design\$ or discover\$ or disposal\$ or evaluat\$ or industr\$ or legislat\$ or manufacture\$ or market\$ or registrat\$ or regulat\$ or recall\$ or reposition\$ or re-position\$ or research\$ or policy or policies or service\$)).tw,kf.	15321
21	or policies or service\$)).tw,kf.	508036
22	or/10-21 [Drug Life Cycle Concept]	1765219
23	9 and 22	11336
24	limit 23 to yr="2010 -Current"	7195
25	exp Animals/ not (exp Animals/ and Humans/)	16703431
26	24 not 25	4273
27	limit 26 to english language	4158
28	27 use medall	1835
29	exp gender identity/	36797

30 exp sex difference/	429582
31 "gender and sex"/	1034
32 (sex adj5 biological variable\$.tw,kw.	404
33 (sex adj2 gender adj3 based).tw,kw.	274
34 (SABV\$ or SGBA\$).tw,kw.	98
35 (gender adj2 (main stream\$ or mainstream\$)).tw,kw.	231
((sex\$ or gender\$) adj3 (analy\$ or aspect\$ or based or bias\$ or characteristic\$ or comparison\$ or determinant\$ or differen\$ or dimorphism\$ or di-morphism\$ or disparit\$ or distribut* or equalit\$ or equity or factor\$ or identit\$ or inequit\$ or inequalit\$ or informed\$ or institutional\$ or integrated or interaction* or issue\$ or medicine or minorit* or norm or norms or related or responsiv\$ or role\$ or	
36 specific\$ or transform\$)).tw,kw.	641489
37 or/29-36 [Sex and Gender Concept]	942005
38 drug industry/ or drug packaging/ or drug labeling/	142880
39 drug development/ or drug design/ or polypharmacology/ or drug approval/	204562
drug analysis/ or drug determination/ or drug discrimination/ or drug	
40 repositioning/	194578
41 "drug cost"/ or drug legislation/	116176
drug control/ or drug approval/ or drug formulary/ or drug legislation/ or drug	
42 program/ or drug recall/	98797
exp postmarketing surveillance/ or exp pharmacovigilance/ or "phase 4 clinical trial	
43 (topic)"/ or prescription drug monitoring program/	41434
44 Precision Medicine/	36854
45 adverse drug reaction/	270252
46 ((drug\$ or pharm\$) adj3 (lifecycle\$ or life cycle\$)).tw,kw.	679
47 (precision adj (medicine or pharm\$)).tw,kw.	22594
48 pharmacovigilan\$.tw,kw.	16509
((drug\$ or pharm\$) adj2 (approv\$ or cost\$ or develop\$ or design\$ or discover\$ or disposal\$ or evaluat\$ or industr\$ or legislat\$ or manufacture\$ or market\$ or	
registrat\$ or regulat\$ or recall\$ or reposition\$ or re-position\$ or research\$ or policy	
49 or policies or service\$)).tw,kw.	516268
50 or/38-49 [Drug Life Cycle Concept]	1360829
51 37 and 50	10638
52 limit 51 to yr="2010 -Current"	6628
(rat or rats or mouse or mice or swine or porcine or murine or sheep or lambs or	
pigs or piglets or rabbit or rabbits or cat or cats or dog or dogs or cattle or bovine or	
53 monkey or monkeys or trout or marmoset\$1).ti. and animal experiment/	1068382
54 Animal experiment/ not (human experiment/ or human/)	2256117
55 53 or 54	2304562
56 52 not 55	6409
57 56 use oemezd	5261
58 28 or 57	7096
59 limit 58 to yr="1860 - 2015"	3196

60 limit 58 to yr="2016 - Current"	3900
61 remove duplicates from 59	2802
62 remove duplicates from 60	3370
63 61 use medall	891
64 62 use medall	937
65 61 use oemezd	1911
66 62 use oemezd	2433
67 63 or 64	1828
68 65 or 66	4344