

## Ovid MEDLINE(R)

#	Searches
1	Sewage/ch, is, ip, mt, mi, ps, pc, vi
2	(wastewater/ or sewage/ or water pollution/) and (exp communicable disease control/ or epidemiological monitoring/ or exp environmental monitoring/)
3	(wastewater/ or sewage/ or water pollution/) and isolation purification.fs.
4	Wastewater-Based Epidemiological Monitoring/
5	((wastewater? or sewage) adj3 (sampl* or surveil* or monitor* or treatment plant? or test*)),ab,kf,ti.
6	((wastewater? or sewage) adj10 (detect* or charact* or concentration)).ab,kf,ti.
7	wastewater microbiome.ab,kf,ti.
8	sewage signal*.ab,kf,ti.
9	or/1-8 [sewage sampling]
10	communicable disease control/ or public health/
11	epidemiology.fs.
12	(public health or lockdown or virus spread or epidemiol* or epidemic* or endemic* or pandemic* or community wastewater? or ((spread or surveillance) adj5 (infection or disease or virus* or norovirus* or bacter* or parasit* or fung*))) or (spread adj3 infection)).ab,kf,ti.
13	or/10-12 [public health]
14	communicable diseases/
15	(communicable disease? or fungi or bacter* or parasite? or virus* or viral or norovirus or infect*).ab,kf,ti.
16	9 and 13
17	limit 16 to covid-19
18	or/14-15,17 [infectious agents]
19	and/9,13,18
20	wastewater based epidemiological monitoring/
21	19 or 20

## Ovid Embase Classic+Embase

#	Searches
1	Sewage/
2	(exp wastewater/ or sewage/ or exp water pollution/) and (exp communicable disease control/ or exp epidemiological monitoring/ or environmental monitoring/ or exp environmental surveillance/ or water monitoring/)
3	Wastewater-Based Epidemiology/
4	((wastewater? or sewage) adj3 (sampl* or surveil* or monitor* or treatment plant? or test*)),ab,kw,ti.
5	((wastewater? or sewage) adj10 (detect* or charact* or concentration)).ab,kw,ti.
6	wastewater microbiome.ab,kw,ti.
7	sewage signal*.ab,kw,ti.
8	or/1-7 [sewage sampling]
9	exp communicable disease control/ or public health/
10	epidemiology.fs.
11	(public health or lockdown or virus spread or epidemiol* or epidemic* or endemic* or pandemic* or community wastewater? or ((spread or surveillance) adj5 (infection or disease or virus* or norovirus* or bacter* or parasit* or fung*))) or (spread adj3 infection)).ab,kw,ti.
12	or/9-11 [public health]
13	exp *infection/ or *fungus/ or *parasite/ or *virus/
14	(communicable disease? or fungi or bacter* or parasite? or virus* or viral or norovirus or infect*).ab,kw,ti.
15	8 and 12
16	limit 15 to covid-19
17	or/13-14,16 [infectious agents]
18	and/8,12,17
19	wastewater based epidemiology.mp.
20	18 or 19

## Web of Science Core Collection

#	Searches
1	TS=((wastewater? or sewage) NEAR/2 (sampl* or surveil* or monitor* or "treatment plant?" or test*))
2	TS=((wastewater? or sewage) NEAR/9 (detect* or charact* or concentration))
3	TS="wastewater microbiome"
4	TS="sewage signal*"
5	#4 OR #3 OR #2 OR #1
6	TS=("public health" or lockdown or virus spread or epidemiol* or epidemic* or endemic* or pandemic* or "community wastewater?" or ((spread or surveillance) NEAR/4 (infection or disease or virus* or norovirus* or bacter* or parasit* or fung*))) or (spread NEAR/2 infection))
7	TS=("communicable disease?" or fungi or bacter* or parasite? or virus* or viral or norovirus or infect*)
8	#5 AND #6 AND #7