

Supplemental Materials

Supplement Figure 1. Search strategy for Medline effective May 2025.

1. exp parathyroid hormone/
2. exp Hyperparathyroidism, Primary/ or exp Hyperparathyroidism/ or exp Hyperparathyroidism, Secondary/
3. hyperparathyroid*.mp.
4. (parathyroid adj4 hormone*).mp.
5. parathormone.mp.
6. PTH.mp.
7. parathyrin.mp.
8. (parathyroid adj4 adenoma).mp.
9. (parathyroid adj4 hypertroph*).mp.
10. (parathyroid adj4 hyperplasia).mp.
11. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12. exp Stroke/
13. cerebrovascula*.mp.
14. apople*.mp.
15. (brain adj4 vascula*).mp.
16. (cerebr* adj4 vascula*).mp.
17. (brain adj4 infarct*).mp.
18. (cerebr* adj4 infarct*).mp.
19. (brain adj4 attack).mp.
20. (cerebr* adj4 attack).mp.
21. (brain adj4 isch?emi*).mp.
22. (cerebr* adj4 ischi?emi*).mp.
23. 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22
24. 11 and 23

**((parathyroid) OR (hyperparathyroid*) OR (parathormone) OR (PTH) OR (parathyrin)) AND ((stroke) OR (cerebrovascula*) OR (cerebr* infarct)
OR (brain infarct) OR (cerebr* attack) OR (cerebr* ischaem*) OR (cerebr* ischem*) OR (brain ischaem*) OR (brain ischem*))**

Supplement Table 1. Newcastle-Ottawa score of all included studies.

First author & Year	Selection (/4)	Comparability (/2)	Exposure (/3)	Total (/9)
Korada 2016	4	2	2	8
Kontogeorgos 2015	3	2	2	7
Iglesias 2023	3	2	1	6
Folsom 2014	4	2	2	8
Yu 2011	3	2	3	8
Anderson 2011	3	2	2	7
Soto-Pedre 2023	3	2	2	7
Kontogeorges 2020	3	2	2	7
Axelsson 2022	3	2	1	6
Celik 2017	4	2	2	8
Tan 2017	3	1	3	7
Zhang 2021	2	2	3	7
Gupta 2014	4	2	3	9
Altay 2013	1	1	2	4