

Supplementary Appendix 2. Search strategy for Medline

Characteristic	Report
Type of search	New
Database	Medline
Platform	Ovid
Search date	03/02/2024
Date range for the search	No filter
Language restrictions	No filter
Other limitations	None
Search strategy	1. exp "Milk, Human"/ (23092) 2. exp "Lactation"/ (48800) 3. exp "Breast Feeding"/ (44731) 4. exp "Colostrum"/ (6930) 5. ((Human or mature or breast or Maternal or transitional) adj5 milk).tw. (28502) 6. Foremilk.tw. (244) 7. Hindmilk.tw. (85) 8. breastmilk.tw. (1721) 9. breastfeed*.tw. (29711) 10. "Breast feed*".tw. (13265) 11. (Maternal adj3 transfer).tw. (2152) 12. Colostr*.tw. (8455) 13. Lactation.tw. (37879) 14. or/1-13 (138862) 15. exp "Leukocytes"/ (830044) 16. exp "Lymphocytes"/ (579306) 17. exp "Killer Cells, Natural"/ (48402) 18. exp "Monocytes"/ (69247) 19. exp "Dendritic Cells"/ (54566) 20. exp "Granulocytes"/ (154790) 21. exp "Neutrophils"/ (97208) 22. exp "Eosinophils"/ (26104) 23. exp "Basophils"/ (8038) 24. exp "Natural Killer T-Cells"/ (3244) 25. exp "B-Lymphocytes"/ (104787) 26. leukocyte*.tw. (150835) 27. lymphocyte*.tw. (348191) 28. B-Lymphocytes.tw. (25520) 29. myeloid.tw. (109500) 30. lymphoid.tw. (85385) 31. ("Natural Killer" or "NK Cells").tw. (59121) 32. Monocytes.tw. (76287) 33. Macrophage*.tw. (289725) 34. "dendritic cell*".tw. (67588) 35. ("White blood" adj4 (cells or Corpuscle)).tw. (12908) 36. "Immun* cells".tw. (75475)

	37. Granulocytes.tw. (23427) 38. Neutrophil*.tw. (159175) 39. Eosinophil*.tw. (79470) 40. Basophil.tw. (5642) 41. "B cells".tw. (80857) 42. "T cells".tw. (254893) 43. or/15-42 (1526669) 44. 14 and 43 (4772) 45. 44 not ((animals.sh. or nonhuman.tw. or exp animals/) not humans.sh.) (2372) 46. (animals/ or Models, Animal/ or Disease Models, Animal/) not Humans/ (5155715) 47. ((animal or animals or canine* or cattle or bovine or buffalo or dog or dogs or feline or hamster* or lamb or lambs or mice or monkey* or mouse or murine or pig or pigs or piglet* or porcine or primate* or rabbit* or rats or rat or rodent* or sheep* or cow* or veterinar*) not (human* or patient)).ti,kw,jw. (2464566) 48. 46 or 47 (5460647) 49. 45 not 48 (2171)
References	2171

Supplementary Appendix 3. Search strategy for Embase

Characteristic	Report
Type of search	New
Database	Embase
Platform	Embase.com
Search date	31/01/2024
Date range for the search	No filter
Language restrictions	No filter
Other limitations	None
Search strategy	1. 'breast milk'/exp (36631) 2. 'lactation'/exp (65746) 3. 'breast feeding'/exp (69736) 4. 'colostrum'/exp (10006) 5. ((human OR mature OR breast OR maternal OR transitional) NEAR/5 milk):ab,ti (38502) 6. foremilk:ab,ti (294) 7. hindmilk:ab,ti (127) 8. breastmilk:ab,ti (3888) 9. breastfeed*:ab,ti (52592) 10. 'breast feed*':ab,ti (17528) 11. (maternal NEAR/3 transfer):ab,ti (2894) 12. colostr*:ab,ti (10140) 13. lactation:ab,ti (49637) 14. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 (189970)

15. 'leukocyte'/exp (1531736)
16. 'lymphocyte'/exp (1075920)
17. 'natural killer cell'/exp (102952)
18. 'monocyte'/exp (142898)
19. 'dendritic cell'/exp (130813)
20. 'granulocyte'/exp (273455)
21. 'neutrophil'/exp (179372)
22. 'eosinophil'/exp (63814)
23. 'basophil'/exp (17658)
24. 'natural killer t cell'/exp (13247)
25. 'b lymphocyte'/exp (224780)
26. leukocyte*:ab,ti (217318)
27. lymphocyte*:ab,ti (501699)
28. 'b lymphocytes':ab,ti (34133)
29. myeloid:ab,ti (199944)
30. lymphoid:ab,ti (124380)
31. 'natural killer':ab,ti OR 'nk cells':ab,ti (93279)
32. monocytes:ab,ti (117481)
33. macrophage*:ab,ti (416217)
34. 'dendritic cell*':ab,ti (106347)
35. ('white blood' NEAR/4 (cells OR corpuscle)):ab,ti (22717)
36. 'immun* cells':ab,ti (130081)
37. granulocytes:ab,ti (32973)
38. neutrophil:ab,ti (159042)
39. eosinophil*:ab,ti (130677)
40. basophil:ab,ti (9035)
41. 'b cells':ab,ti (126024)
42. 't cells':ab,ti (402796)
43. #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 (2402009)
44. #14 AND #43 (7932)
45. #44 AND ('Conference Abstract'/it OR 'Conference Paper'/it OR 'Conference Review'/it) (1337)
46. (animal:ti,ab,lnk,kw,tn,tt,df,mn,dn OR animals:ti,ab,lnk,kw,tn,tt,df,mn,dn OR canine*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR cattle:ti,ab,lnk,kw,tn,tt,df,mn,dn OR bovine:ti,ab,lnk,kw,tn,tt,df,mn,dn OR buffalo:ti,ab,lnk,kw,tn,tt,df,mn,dn OR dog:ti,ab,lnk,kw,tn,tt,df,mn,dn OR dogs:ti,ab,lnk,kw,tn,tt,df,mn,dn OR feline:ti,ab,lnk,kw,tn,tt,df,mn,dn OR hamster*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR lamb:ti,ab,lnk,kw,tn,tt,df,mn,dn OR lambs:ti,ab,lnk,kw,tn,tt,df,mn,dn OR mice:ti,ab,lnk,kw,tn,tt,df,mn,dn OR monkey*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR mouse:ti,ab,lnk,kw,tn,tt,df,mn,dn OR murine:ti,ab,lnk,kw,tn,tt,df,mn,dn OR pig:ti,ab,lnk,kw,tn,tt,df,mn,dn OR pigs:ti,ab,lnk,kw,tn,tt,df,mn,dn OR piglet*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR porcine:ti,ab,lnk,kw,tn,tt,df,mn,dn OR primate*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR rabbit*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR rats:ti,ab,lnk,kw,tn,tt,df,mn,dn OR rat:ti,ab,lnk,kw,tn,tt,df,mn,dn OR rodent*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR sheep*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR cow*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR veterinar*:ti,ab,lnk,kw,tn,tt,df,mn,dn) NOT (human*:ti,ab,lnk,kw,tn,tt,df,mn,dn OR

	patient:ti,ab,lnk,kw,tn,tt,df,mn,dn) (4569866) 47. #45 NOT #46 (973) 48. #44 NOT #45 (6595) 49. ('animal'/exp OR 'juvenile animal'/exp OR 'adult animal'/exp OR 'animal cell'/exp OR 'animal tissue'/exp OR 'nonhuman'/exp OR 'animal experiment'/exp OR 'animal model'/exp) NOT 'human'/exp (8024124) 50. #48 NOT (#46 OR #49) (3295) 51. #47 OR #50 (4268) 52. #51 AND [embase]/lim NOT ([embase]/lim AND [medline]/lim) (1446)
References	1446

Supplementary Appendix 4. Search strategy for Cochrane Central Register of Controlled Trials

Characteristic	Report
Type of search	New
Database	Cochrane Central Register of Controlled Trials
Platform	Ovid
Search date	31/01/2024
Date range for the search	No filter
Language restrictions	No filter
Other limitations	None
Search strategy	1. exp "Milk, Human"/ (1274) 2. exp "Lactation"/ (938) 3. exp "Breast Feeding"/ (2639) 4. exp "Colostrum"/ (216) 5. ((Human or mature or breast or Maternal or transitional) adj5 milk).tw. (4026) 6. Foremilk.tw. (8) 7. Hindmilk.tw. (16) 8. breastmilk.tw. (395) 9. breastfeed*.tw. (6571) 10. "Breast feed*".tw. (2833) 11. (Maternal adj3 transfer).tw. (69) 12. Colostr*.tw. (556) 13. Lactation.tw. (2862) 14. or/1-13 (14866) 15. exp "Leukocytes"/ (11224) 16. exp "Lymphocytes"/ (6319) 17. exp "Killer Cells, Natural"/ (878) 18. exp "Monocytes"/ (850) 19. exp "Dendritic Cells"/ (368) 20. exp "Granulocytes"/ (2844) 21. exp "Neutrophils"/ (1587) 22. exp "Eosinophils"/ (929) 23. exp "Basophils"/ (155) 24. exp "Natural Killer T-Cells"/ (17)

	25. exp "B-Lymphocytes"/ (634) 26. leukocyte*.tw. (6984) 27. lymphocyte*.tw. (13034) 28. B-Lymphocytes.tw. (431) 29. myeloid.tw. (6405) 30. lymphoid.tw. (1172) 31. ("Natural Killer" or "NK Cells").tw. (2694) 32. Monocytes.tw. (2321) 33. Macrophage*.tw. (4471) 34. "dendritic cell*".tw. (1618) 35. ("White blood" adj4 (cells or Corpuscle)).tw. (1613) 36. "Immun* cells".tw. (1907) 37. Granulocytes.tw. (725) 38. Neutrophil*.tw. (12778) 39. Eosinophil*.tw. (5730) 40. Basophil.tw. (417) 41. "B cells".tw. (1883) 42. "T cells".tw. (6638) 43. or/15-42 (55958) 44. 14 and 43 (308) 45. 44 not ((animals.sh. or nonhuman.tw. or exp animals/) not humans.sh.) (300) 46. (animals/ or Models, Animal/ or Disease Models, Animal/) not Humans/ (2656) 47. ((animal or animals or canine* or cattle or bovine or buffalo or dog or dogs or feline or hamster* or lamb or lambs or mice or monkey* or mouse or murine or pig or pigs or piglet* or porcine or primate* or rabbit* or rats or rat or rodent* or sheep* or cow* or veterinar*) not (human* or patient)).ti,kw,jw. (6393) 48. 46 or 47 (7313) 49. 45 not 48 (285)
References	285

Supplementary Appendix 5. Search strategy for BVS

Characteristic	Report
Type of search	New
Database	LILACS, WPRIM, LIS, IBECs, BDENF. CUMED, LIPECS, SES-SP, BBO, BRISA, VETINDEX, coleccionaSUS and INDEXPSI
Platform	BVS
Search date	31/01/2024
Date range for the search	No filter
Language restrictions	No filter
Other limitations	None
Search strategy	((lactation OR "breast milk" OR breastmilk OR "breast feed*" OR "leche materna" OR colostr* OR calostro OR lactancia OR amamanta*)) AND ((leucocitos OR leukocytes OR linfocitos OR lymphocytes OR "células asesinas naturales" OR "natural killer cells" OR monocitos OR monocytes OR

	"células dendríticas" OR "dendritic cells" OR granulocitos OR granulocytes OR neutrófilos OR neutrophils OR eosinófilos OR eosinophils OR basófilos OR basophils OR "células T asesinas naturales" OR "natural killer T cells" OR "linfocitos B" OR "B lymphocytes" OR mieloide OR myeloid OR linfoide OR lymphoid OR macrófagos OR macrophages OR "white blood" OR "células B" OR "B cells" OR "células T" OR "T cells")) AND NOT (ti:((animal OR animals OR canine* OR cattle OR bovine OR buffalo OR dog OR dogs OR feline OR hamster* OR lamb OR lambs OR mice OR monkey* OR mouse OR murine OR pig OR pigs OR piglet* OR porcine OR primate* OR rabbit* OR rats OR rat OR rodent* OR sheep* OR cow* OR veterinar*)) AND (db:(("LILACS" OR "WPRIM" OR "LIS" OR "IBECS" OR "BDENF" OR "CUMED" OR "LIPECS" OR "SES-SP" OR "BBO" OR "BRISA" OR "VETINDEX" OR "coleccionaSUS" OR "INDEXPSI"))
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