

Additional File 2: Search strategies

Database(s): Ovid MEDLINE(R), Ovid OLDMEDLINE(R)

- 1 exp Lyme Disease/
- 2 lyme*.mp.
- 3 exp Borrelia/
- 4 borreli*.mp.
- 5 tick*.mp.
- 6 (erythem* adj2 migran*).mp.
- 7 dermat*.mp.
- 8 cutan*.mp.
- 9 exp Erythema/
- 10 erythem*.mp.
- 11 exp Skin Diseases, Bacterial/
- 12 skin diseas*.mp.
- 13 acroderm* chron* atrophy*.mp.
- 14 mult* erythem* migran*.mp.
- 15 Scleroderma, Localized/
- 16 local* sclero*.mp.
- 17 circ* sclero*.mp.
- 18 morphea.mp.
- 19 Pseudolymphoma/
- 20 pseudolymphom*.mp.
- 21 lymphocytom*.mp.
- 22 (cutan* adj2 lymphocyt*).mp.
- 23 Lichen sclerosus/

- 24 Lichen sclero*.mp.
- 25 atroph*.mp.
- 26 aneto*.mp.
- 27 granuloma*.mp.
- 28 neuroborreli*.mp.
- 29 arthritis.mp.
- 30 carditis.mp.
- 31 early locali*.mp.
- 32 (early adj2 lyme*).mp.
- 33 (early adj2 borrel*).mp.
- 34 acute lyme*.mp.
- 35 (acute adj2 borrel*).mp.
- 36 early dissemin*.mp.
- 37 late dissemin*.mp.
- 38 late lyme*.mp.
- 39 (late adj2 borrel*).mp.
- 40 (dissemin* adj2 borrel*).mp.
- 41 (chron* adj2 borrel*).mp.
- 42 chron* lyme*.mp.
- 43 (subacute adj2 borrel*).mp.
- 44 subacute lyme*.mp.
- 45 (refractory adj2 borrel*).mp.
- 46 refractory lyme*.mp.
- 47 or/1-5
- 48 or/6-12
- 49 or/13-30
- 50 or/31-46

- 51 48 or 50
- 52 49 or 50
- 53 47 and 51
- 54 47 and 52
- 55 53 or 54

[mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

Database(s): Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations

- 1 lyme*.mp.
- 2 borreli*.mp.
- 3 tick*.mp.
- 4 (erythem* adj2 migran*).mp.
- 5 dermat*.mp.
- 6 cutan*.mp.
- 7 erythem*.mp.
- 8 skin diseas*.mp.
- 9 acroderm* chron* atrophy*.mp.
- 10 mult* erythem* migran*.mp.
- 11 local* sclero*.mp.
- 12 circ* sclero*.mp.
- 13 morphea.mp.
- 14 pseudolymphom*.mp.
- 15 lymphocytom*.mp.
- 16 (cutan* adj2 lymphocyt*).mp.
- 17 Lichen sclero*.mp.

18 atroph*.mp.
19 aneto*.mp.
20 granuloma*.mp.
21 neuroborreli*.mp.
22 arthritis.mp.
23 carditis.mp.
24 early locali*.mp.
25 (early adj2 lyme*).mp.
26 (early adj2 borrel*).mp.
27 acute lyme*.mp.
28 (acute adj2 borrel*).mp.
29 early dissem*.mp.
30 late dissem*.mp.
31 late lyme*.mp.
32 (late adj2 borrel*.mp.
33 (dissem* adj2 borrel*).mp.
34 (chron* adj2 borrel*).mp.
35 chron* lyme*.mp.
36 (subacute adj2 borrel*).mp.
37 subacute lyme*.mp.
38 (refractory adj2 borrel*).mp.
39 refractory lyme*.mp.
40 or/1-3
41 or/4-8
42 or/9-23
43 or/24-39
44 41 or 43

- 45 42 or 43
- 46 40 and 44
- 47 40 and 45
- 48 46 or 47

[mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

Database(s): Ovid MEDLINE(R) Daily Update

- 1 exp Lyme Disease/
- 2 lyme*.mp.
- 3 exp Borrelia/
- 4 borreli*.mp.
- 5 tick*.mp.
- 6 (erythem* adj2 migran*).mp.
- 7 or/1-6

[mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

Database(s): Pubmed MEDLINE(R) Publisher

- 1 lyme*[tw]
- 2 borreli*[tw]
- 3 tick*[tw]
- 4 erythem*[tw]
- 5 migran*[tw]
- 6 #4 AND #5
- 7 #1 OR #2 OR #3 OR #6

8 #7 AND publisher[sb]

[tw= Title, Abstract, MeSH, Subheadings, Publication Types, Other Terms, Chemical Names of Substances, Secondary Source Identifier, Personal Name as Subject; sb= Subset]

Database(s): Ovid Embase

- 1 exp Lyme Disease/
- 2 lyme*.mp.
- 3 exp Borrelia infection/
- 4 borreli*.mp.
- 5 tick*.mp.
- 6 (erythem* adj2 migran*).mp.
- 7 dermat*.mp.
- 8 cutan*.mp.
- 9 exp erythema/
- 10 erythem*.mp.
- 11 exp bacterial skin disease/
- 12 skin diseas*.mp.
- 13 acroderm* chron* atrophy*.mp.
- 14 mult* erythem* migran*.mp.
- 15 exp localized scleroderma/
- 16 local* slcero*.mp.
- 17 circ* sclero*.mp.
- 18 exp morphea/
- 19 morphea.mp.
- 20 exp pseudolymphoma/
- 21 pseudolymphom*.mp.
- 22 lymphocytom*.mp.

- 23 (cutan* adj2 lymphocyt*).mp.
- 24 exp lichen sclerosus et atrophicus/
- 25 Lichen sclero*.mp.
- 26 atroph*.mp.
- 27 aneto*.mp.
- 28 granuloma*.mp.
- 29 neuroborreli*.mp.
- 30 arthritis.mp.
- 31 carditis.mp.
- 32 early locali*.mp.
- 33 (early adj2 lyme*).mp.
- 34 (early adj2 borrel*).mp.
- 35 acute lyme*.mp.
- 36 (acute adj2 borrel*).mp.
- 37 early dissemin*.mp.
- 38 late dissemin*.mp.
- 39 late lyme*.mp.
- 40 (late adj2 borrel*).mp.
- 41 (dissemin* adj2 borrel*).mp.
- 42 (chron* adj2 borrel*).mp.
- 43 chron* lyme*.mp.
- 44 (subacute adj2 borrel*).mp.
- 45 subacute lyme*.mp.
- 46 (refractory adj2 borrel*).mp.
- 47 refractory lyme*.mp.
- 48 or/1-5
- 49 or/6-12

- 50 or/13-31
- 51 or/32-47
- 52 49 or 51
- 53 50 or 51
- 54 48 and 52
- 55 48 and 53
- 56 54 or 55

[mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

Database(s): Central

- 1 MeSH descriptor: [Borrelia] explode all trees
- 2 MeSH descriptor: [Lyme Disease] explode all trees
- 3 *borreli*
- 4 lyme*
- 5 tick*
- 6 erythem* near/2 migran*
- 7 #1 OR #2 OR #3 OR #4 OR #5 OR #6
- 8 Trials