

## Search strategies

### A.1: Source: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

Interface / URL: Ovid

Database coverage dates: 1946 to current. Updated daily.

Search date: 28/06/18

Retrieved records: 1220

Search strategy:

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 Cattle/ (330983)
  - 2 Dairying/ (10735)
  - 3 Cattle Diseases/ (47589)
  - 4 (cow or cows or cattle or heifer\$ or dairy\$ or milking or bovine or bovinæ or buiatric\$).ti,ab,kf. (301569)
  - 5 (ayrshire\$ or brown swiss\$ or busa or busas or canadienne\$ or dexter\$ or dutch belted\$ or estonian red\$ or fleckvieh\$ or friesland\$ or girolando\$ or guernsey\$ or holstein\$ or illawarra\$ or irish moiled\$ or jersey\$ or meuse rhine issel\$ or montbeliarde\$ or normande\$ or norwegian red\$ or red poll or red polls or shorthorn\$ or short horn\$).ti,ab,kf. (32164)
  - 6 or/1-5 (447891)
  - 7 (drying off or dry off or dried off or dry up or drying up or dried up or drying period\$ or dry period\$ or dry udder\$ or dry teat\$ or pre-partum or prepartum or ((end or finish\$ or stop\$ or ceas\$) adj3 lactat\$) or nonlactat\$ or non-lactat\$ or postlactat\$ or post-lactat\$ or postmilk\$ or post-milk\$ or involution or steady state).ti,ab,kf. (122992)
  - 8 6 and 7 (6922)
  - 9 (dry cow or dry cows).ti,ab,kf. (813)
  - 10 8 or 9 (7345)
  - 11 (SDCT or BDCT).ti,ab,kf. (111)
  - 12 exp anti-infective agents/ or exp anti-bacterial agents/ or antibiotic prophylaxis/ (1502811)
  - 13 (antimicrobial\* or anti-microbial\* or antibiotic\* or anti-biotic\* or antibacterial\* or anti-bacterial\* or antiinfect\* or anti-infect\* or bacteriocid\* or bactericid\* or microbicid\* or antimycobacteri\* or antimycobacteri\*).ti,ab,kf. (472266)
  - 14 (albamycin or amoxicillin or amoxycillin or ampicillin or benzathine or cathomycin or cefalexin or cefapirin or cefalonium or cefquinome or ceftiofur or cephalixin or cephapirin or cephalonium or cephapirin or chlortetracycline or cloxacillin or CTC or danofloxacin or dicloxacillin or dihydrostreptomycin or enrofloxacin or erythromycin or florfenicol or framycetin or gamithromycin or gentamicin or gentamycin or lincomycin or lincosamide\$ or neomycin or novobiocin or oxytetracycline or penethamate or penicillin or pirlimycin or pirolone or spectinomycin or sulfadimethoxine or sulfafurazole or sulfamethoxazole or sulfisoxazole or

sulphadimethoxine or tetracycline or tildipirosin or tilmicosin or trimethoprim or tulathromycin  
 or tylosin).ti,ab,kf,rn. (204142)  
 15 or/11-14 (1720141)  
 16 10 and 15 (1109)  
 17 Chemoprevention/ or Mass Drug Administration/ (5452)  
 18 Pre-Exposure Prophylaxis/ or Post-Exposure Prophylaxis/ (1936)  
 19 (prophyla\$ or chemoprophyla\$ or chemoprevent\$ or chemo-prevent\$ or metaphyla\$ or  
 meta-phyla\$ or premedicat\$ or pre-medicat\$).ti,ab,kf. (182681)  
 20 ((mass or blanket or whole population\$ or population wide or selectiv\$ or targeted or  
 prevent\$) adj5 (treat\$ or therap\$ or medicat\$ or dosing or administration)).ti,ab,kf. (291448)  
 21 or/17-20 (462758)  
 22 Mastitis, Bovine/ (7161)  
 23 Mastitis/ (4105)  
 24 (mastiti\$ or ((intramammar\$ or intra-mammar\$) adj3 (infect\$ or inflamm\$))).ti,ab,kf.  
 (11876)  
 25 or/22-24 (14198)  
 26 10 and 21 and 25 (141)  
 27 ((dry cow or dry cows) adj3 (therap\$ or manag\$ or intervention\$ or treat\$ or  
 strateg\$)).ti,ab,kf. (320)  
 28 16 or 26 or 27 (1220)  
 29 remove duplicates from 28 (1220)

## **A.2: Source: CAB Abstracts and Global Health**

Interface / URL: Web of Science

Database coverage dates: 1910-26/06/18

Search date: 28/06/18

Retrieved records: 2546

Search strategy:

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# 19 #18 OR #17 OR #12 2,546
# 18 TS=(("dry cow" OR "dry cows") NEAR/3 (therap* OR manag* OR intervention* OR
treat* OR strateg*)) 956
# 17 #16 AND #15 AND #7429
# 16 TS=(mastiti* OR ((intramammar* OR "intra-mammar*") NEAR/3 (infect* OR
inflamm*))) 39,877
# 15 #14 OR #13 140,692
# 14 TS=(("mass" OR "blanket" OR "whole population*" OR "population wide" OR selectiv*
OR "targeted" OR prevent*) NEAR/5 (treat* OR therap* OR medicat* OR "dosing" OR
"administration")) 58,290
# 13 TS=(prophyla* OR chemoprophyla* OR chemoprevent* OR "chemo-prevent*" OR
metaphyla* OR "meta-phyla*" OR premedicat* OR "pre-medicat*") 87,385
# 12 #11 AND #7 2,120
# 11 #10 OR #9 OR #8 253,960
# 10 TS=("albamycin" OR "amoxicillin" OR "amoxycillin" OR "ampicillin" OR "benzathine"
OR "cathomycin" OR "cefalexin" OR "cefapirin" OR "cefalonium" OR "cefquinome" OR
"ceftiofur" OR "cephalexin" OR "cephapirin" OR "cephalonium" OR "cephapirin" OR
  
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"chlortetracycline" OR "cloxacillin" OR "CTC" OR "danofloxacin" OR "dicloxacillin" OR "dihydrostreptomycin" OR "enrofloxacin" OR "erythromycin" OR "florfenicol" OR "framycetin" OR "gamithromycin" OR "gentamicin" OR "gentamycin" OR "lincomycin" OR lincosamide\* OR "neomycin" OR "novobiocin" OR "oxytetracycline" OR "penethamate" OR "penicillin" OR "pirlimycin" OR "piroline" OR "spectinomycin" OR "sulfadimethoxine" OR "sulfafurazole" OR "sulfamethoxazole" OR "sulfisoxazole" OR "sulphadimethoxine" OR "tetracycline" OR "tildipirosin" OR "tilmicosin" OR "trimethoprim" OR "tulathromycin" OR "tylosin") 74,869

# 9 TS=(antimicrobial\* OR "anti-microbial\*" OR antibiotic\* OR "anti-biotic\*" OR antibacterial\* OR "anti-bacterial\*" OR antiinfect\* OR anti-infect\* OR bacteriocid\* OR bactericid\* OR microbicid\* OR "anti-mycobacteri\*" OR antimycobacteri\*) 229,399

# 8 TS=("SDCT" OR "BDCT") 16

# 7 #6 OR #5 19,060

# 6 TS=("dry cow" OR "dry cows") 3,103

# 5 #4 AND #3 17,296

# 4 TS=("drying off" OR "dry off" OR "dried off" OR "dry up" OR "drying up" OR "dried up" OR "drying period\*" OR "dry period\*" OR "dry udder\*" OR "dry teat\*" OR "pre-partum" OR "prepartum" OR (("end" OR finish\* OR stop\* OR ceas\*) NEAR/3 lactat\*) OR nonlactat\* OR "non-lactat\*" OR postlactat\* OR "post-lactat\*" OR postmilk\* OR "post-milk\*" OR "involution" OR "steady state") 53,926

# 3 #2 OR #1 970,071

# 2 TS=(ayrshire\* OR "brown swiss\*" OR "busa" OR "busas" OR canadienne\* OR dexter\* OR "dutch belted\*" OR "estonian red\*" OR fleckvieh\* OR friesland\* OR girolando\* OR guernsey\* OR holstein\* OR illawarra\* OR "irish moiled\*" OR jersey\* OR "meuse rhine issel\*" OR montbeliarde\* OR normande\* OR "norwegian red\*" OR "red poll" OR "red polls" OR shorthorn\* OR "short horn\*") 90,931

# 1 TS=("cow" OR "cows" OR "cattle" OR heifer\* OR "dairy" OR "milking" OR bovine\* OR "bovinae" OR buiatric\*) 954,547

### A.3: Source: Science Citation Index (SCI)

Interface / URL: Web of Science

Database coverage dates: 1900-27/06/18

Search date: 28/06/18

Retrieved records: 936

Search strategy:

# 19 #18 OR #17 OR #12 936

# 18 TS=("dry cow" OR "dry cows") NEAR/3 (therap\* OR manag\* OR intervention\* OR treat\* OR strateg\*) 424

# 17 #16 AND #15 AND #7 182

# 16 TS=(mastiti\* OR ((intramammar\* OR "intra-mammar\*") NEAR/3 (infect\* OR inflamm\*))) 16,611

# 15 #14 OR #13 430,368

# 14 TS=("mass" OR "blanket" OR "whole population\*" OR "population wide" OR selectiv\* OR "targeted" OR prevent\*) NEAR/5 (treat\* OR therap\* OR medicat\* OR "dosing" OR "administration") 265,884

# 13 TS=(prophyla\* OR chemoprophyla\* OR chemoprevent\* OR "chemo-prevent\*" OR metaphyla\* OR "meta-phyla\*" OR premedicat\* OR "pre-medicat\*") 177,148

# 12 #11 AND #7 719

# 11 #10 OR #9 OR #8 606,839

# 10 TS=("albamycin" OR "amoxicillin" OR "amoxycillin" OR "ampicillin" OR "benzathine" OR "cathomycin" OR "cefalexin" OR "cefapirin" OR "cefalonium" OR "cefquinome" OR "ceftiofur" OR "cephalexin" OR "cephapirin" OR "cephalonium" OR "cephapirin" OR "chlortetracycline" OR "cloxacillin" OR "CTC" OR "danofloxacin" OR "dicloxacillin" OR "dihydrostreptomycin" OR "enrofloxacin" OR "erythromycin" OR "florfenicol" OR "framycetin" OR "gamithromycin" OR "gentamicin" OR "gentamycin" OR "lincomycin" OR lincosamide\* OR "neomycin" OR "novobiocin" OR "oxytetracycline" OR "penethamate" OR "penicillin" OR "pirlimycin" OR "piroline" OR "spectinomycin" OR "sulfadimethoxine" OR "sulfafurazole" OR "sulfamethoxazole" OR "sulfisoxazole" OR "sulphadimethoxine" OR "tetracycline" OR "tildipirosin" OR "tilmicosin" OR "trimethoprim" OR "tulathromycin" OR "tylosin") 166,067

# 9 TS=(antimicrobial\* OR "anti-microbial\*" OR antibiotic\* OR "anti-biotic\*" OR antibacterial\* OR "anti-bacterial\*" OR antiinfect\* OR anti-infect\* OR bacteriocid\* OR bactericid\* OR microbicid\* OR "anti-mycobacteri\*" OR antimycobacteri\*) 510,192

# 8 TS=("SDCT" OR "BDCT") 143

# 7 #6 OR #5 9,708

# 6 TS=("dry cow" OR "dry cows") 1,188

# 5 #4 AND #3 9,026

# 4 TS=("drying off" OR "dry off" OR "dried off" OR "dry up" OR "drying up" OR "dried up" OR "drying period\*" OR "dry period\*" OR "dry udder\*" OR "dry teat\*" OR "pre-partum" OR "prepartum" OR (("end" OR finish\* OR stop\* OR ceas\*) NEAR/3 lactat\*) OR nonlactat\* OR "non-lactat\*" OR postlactat\* OR "post-lactat\*" OR postmilk\* OR "post-milk\*" OR "involution" OR "steady state") 237,049

# 3 #2 OR #1 492,195

# 2 TS=(ayrshire\* OR "brown swiss\*" OR "busa" OR "busas" OR canadienne\* OR dexter\* OR "dutch belted\*" OR "estonian red\*" OR fleckvieh\* OR friesland\* OR girolando\* OR guernsey\* OR holstein\* OR illawarra\* OR "irish moiled\*" OR jersey\* OR "meuse rhine issel\*" OR montbeliarde\* OR normande\* OR "norwegian red\*" OR "red poll" OR "red polls" OR shorthorn\* OR "short horn\*") 54,025

# 1 TS=("cow" OR "cows" OR "cattle" OR heifer\* OR "dairy" OR "milking" OR bovine\* OR "bovinae" OR buiatric\*) 466,726

#### **A.4: Source: Conference Proceedings Citation Index – Science (CPCI-S)**

Interface / URL: Web of Science

Database coverage dates: 1990-27/06/18

Search date: 28/06/18

Retrieved records: 86

Search strategy:

# 19 #18 OR #17 OR #12 86

# 18 TS=(("dry cow" OR "dry cows") NEAR/3 (therap\* OR manag\* OR intervention\* OR treat\* OR strateg\*)) 45

# 17 #16 AND #15 AND #715

# 16 TS=(mastiti\* OR ((intramammar\* OR "intra-mammar\*") NEAR/3 (infect\* OR inflamm\*))) 1,223

# 15 #14 OR #13 35,755

# 14 TS=(("mass" OR "blanket" OR "whole population\*" OR "population wide" OR selectiv\* OR "targeted" OR prevent\*) NEAR/5 (treat\* OR therap\* OR medicat\* OR "dosing" OR "administration")) 19,300

# 13 TS=(prophyla\* OR chemoprophyla\* OR chemoprevent\* OR "chemo-prevent\*" OR metaphyla\* OR "meta-phyla\*" OR premedicat\* OR "pre-medicat\*") 17,244

# 12 #11 AND #7 58

# 11 #10 OR #9 OR #8 37,104

# 10 TS=("albamycin" OR "amoxicillin" OR "amoxycillin" OR "ampicillin" OR "benzathine" OR "cathomycin" OR "cefalexin" OR "cefapirin" OR "cefalonium" OR "cefquinome" OR "ceftiofur" OR "cephalexin" OR "cephapirin" OR "cephalonium" OR "cephapirin" OR "chlortetracycline" OR "cloxacillin" OR "CTC" OR "danofloxacin" OR "dicloxacillin" OR "dihydrostreptomycin" OR "enrofloxacin" OR "erythromycin" OR "florfenicol" OR "framycetin" OR "gamithromycin" OR "gentamicin" OR "gentamycin" OR "lincomycin" OR lincosamide\* OR "neomycin" OR "novobiocin" OR "oxytetracycline" OR "penethamate" OR "penicillin" OR "pirlimycin" OR "piroline" OR "spectinomycin" OR "sulfadimethoxine" OR "sulfafurazole" OR "sulfamethoxazole" OR "sulfisoxazole" OR "sulphadimethoxine" OR "tetracycline" OR "tildipirosin" OR "tilmicosin" OR "trimethoprim" OR "tulathromycin" OR "tylosin") 9,111

# 9 TS=(antimicrobial\* OR "anti-microbial\*" OR antibiotic\* OR "anti-biotic\*" OR antibacterial\* OR "anti-bacterial\*" OR antiinfect\* OR anti-infect\* OR bacteriocid\* OR bactericid\* OR microbicid\* OR "anti-mycobacteri\*" OR antimycobacteri\*) 31,368

# 8 TS=("SDCT" OR "BDCT") 55

# 7 #6 OR #5 642

# 6 TS=("dry cow" OR "dry cows") 119

# 5 #4 AND #3 559

# 4 TS=("drying off" OR "dry off" OR "dried off" OR "dry up" OR "drying up" OR "dried up" OR "drying period\*" OR "dry period\*" OR "dry udder\*" OR "dry teat\*" OR "pre-partum" OR "prepartum" OR (("end" OR finish\* OR stop\* OR ceas\*) NEAR/3 lactat\*) OR nonlactat\* OR "non-lactat\*" OR postlactat\* OR "post-lactat\*" OR postmilk\* OR "post-milk\*" OR "involution" OR "steady state") 50,382

# 3 #2 OR #1 40,185

# 2 TS=(ayrshire\* OR "brown swiss\*" OR "busa" OR "busas" OR canadienne\* OR dexter\* OR "dutch belted\*" OR "estonian red\*" OR fleckvieh\* OR friesland\* OR girolando\* OR guernsey\* OR holstein\* OR illawarra\* OR "irish moiled\*" OR jersey\* OR "meuse rhine issel\*" OR montbeliarde\* OR normande\* OR "norwegian red\*" OR "red poll" OR "red polls" OR shorthorn\* OR "short horn\*") 6,411

# 1 TS=("cow" OR "cows" OR "cattle" OR heifer\* OR "dairy" OR "milking" OR bovine\* OR "bovinae" OR buiatric\*) 35,057

#### **A.5: Source: AGRICOLA**

Interface / URL: ProQuest

Database coverage dates: 1970 to current

Search date: 28/06/18

Retrieved records: 558

Search strategy:

Set#: S1

Searched for: NOFT(cow OR cows OR cattle OR heifer\* OR dairy\* OR milking OR bovine\* OR bovinæ OR buiatric\*)

Databases: AGRICOLA

Results: 303053

Set#: S2

Searched for: NOFT(ayrshire\* OR "brown swiss\*" OR busa OR busas OR canadienne\* OR dexter\* OR "dutch belted\*" OR "estonian red\*" OR fleckvieh\* OR friesland\* OR girolando\* OR guernsey\* OR holstein\* OR illawarra\* OR "irish moiled\*" OR jersey\* OR "meuse rhine issel\*" OR montbeliarde\* OR normande\* OR "norwegian red\*" OR "red poll" OR "red polls" OR shorthorn\* OR "short horn\*")

Databases: AGRICOLA

Results: 37549

Set#: S3

Searched for: S1 OR S2

Databases: AGRICOLA

These databases are searched for part of your query.

Results: 323414

Set#: S4

Searched for: NOFT("drying off" OR "dry off" OR "dried off" OR "dry up" OR "drying up" OR "dried up" OR "drying period\*" OR "dry period\*" OR "dry udder\*" OR "dry teat\*" OR "pre-partum" OR prepartum OR ((end OR finish\* OR stop\* OR ceas\*) NEAR/3 lactat\*) OR nonlactat\* OR "non-lactat\*" OR postlactat\* OR "post-lactat\*" OR postmilk\* OR "post-milk\*" OR involution OR "steady state")

Databases: AGRICOLA

Results: 21208

Set#: S5

Searched for: S3 AND S4

Databases: AGRICOLA

These databases are searched for part of your query.

Results: 4005

Set#: S6

Searched for: NOFT("dry cow" OR "dry cows")

Databases: AGRICOLA

Results: 691

Set#: S7

Searched for: S5 OR S6

Databases: AGRICOLA

These databases are searched for part of your query.  
Results: 4374

Set#: S8  
Searched for: NOFT(SDCT OR BDCT)  
Databases: AGRICOLA  
Results: 9

Set#: S9  
Searched for: NOFT(antimicrobial\* OR "anti-microbial\*" OR antibiotic\* OR "anti-biotic\*" OR antibacterial\* OR "anti-bacterial\*" OR antiinfect\* OR anti-infect\* OR bacteriocid\* OR bactericid\* OR microbicid\* OR "anti-mycobacteri\*" OR antimycobacteri\*)  
Databases: AGRICOLA  
Results: 77327

Set#: S10  
Searched for: NOFT(albamycin OR amoxicillin OR amoxycillin OR ampicillin OR benzathine OR cathomycin OR cefalexin OR cefapirin OR cefalonium OR cefquinome OR ceftiofur OR cephalixin OR cephapirin OR cephalonium OR cephapirin OR chlortetracycline OR cloxacillin OR CTC OR danofloxacin OR dicloxacillin OR dihydrostreptomycin OR enrofloxacin OR erythromycin OR florfenicol OR framycetin OR gamithromycin OR gentamicin OR gentamycin OR lincomycin OR lincosamide\* OR neomycin OR novobiocin OR oxytetracycline OR penethamate OR penicillin OR pirlimycin OR pirolin OR spectinomycin OR sulfadimethoxine OR sulfafurazole OR sulfamethoxazole OR sulfisoxazole OR sulphadimethoxine OR tetracycline OR tildipirosin OR tilimicosin OR trimethoprim OR tulathromycin OR tylosin)  
Databases: AGRICOLA  
Results: 21322

Set#: S11  
Searched for: S8 OR S9 OR S10  
Databases: AGRICOLA

These databases are searched for part of your query.  
Results: 87245

Set#: S12  
Searched for: S11 AND S7  
Databases: AGRICOLA

These databases are searched for part of your query.  
Results: 424

Set#: S13  
Searched for: NOFT(prophyla\* OR chemoprophyla\* OR chemoprevent\* OR "chemo-prevent\*" OR metaphyla\* OR "meta-phyla\*" OR premedicat\* OR "pre-medicat\*")  
Databases: AGRICOLA  
Results: 10397

Set#: S14

Searched for: NOFT((mass OR blanket OR "whole population\*" OR "population wide" OR selectiv\* OR targeted OR prevent\*) NEAR/5 (treat\* OR therap\* OR medicat\* OR dosing OR administration))

Databases: AGRICOLA

Results: 16898

Set#: S15

Searched for: S13 OR S14

Databases: AGRICOLA

These databases are searched for part of your query.

Results: 26777

Set#: S16

Searched for: NOFT(mastiti\* OR ((intramammar\* OR "intra-mammar\*") NEAR/3 (infect\* OR inflamm\*)))

Databases: AGRICOLA

Results: 10885

Set#: S17

Searched for: S16 AND S15 AND S7

Databases: AGRICOLA

These databases are searched for part of your query.

Results: 93

Set#: S18

Searched for: NOFT(("dry cow" OR "dry cows") NEAR/3 (therap\* OR manag\* OR intervention\* OR treat\* OR strateg\*))

Databases: AGRICOLA

Results: 269

Set#: S19

Searched for: S18 OR S17 OR S12

Databases: AGRICOLA

These databases are searched for part of your query.

Results: 558