Web Appendix 1 – Clinical Questions and Literature search

Clinical Questions

1. How should the lung disease attributable to NTM infection be defined?
2. What samples should be used to detect pulmonary NTM infection?
3. What microbiological tests should be used to detect NTM in respiratory samples?
4. What microbiological tests should be used to speciate and type NTM from respiratory samples?
5. Does in vitro drug susceptibility testing predict response to antibiotic treatment in people with NTM-pulmonary disease?
6. What is the evidence for transmission of NTM between individuals?
7. What investigations should be performed in patients suspected of having NTM-pulmonary disease?
8. What factors influence when NTM treatment should be started?
9. What antibiotic regimen should be used to treat *Mycobacterium avium* complex-pulmonary disease?
10. What antibiotic regimen should be used to treat *M. kansasii*-pulmonary disease?
11. What antibiotic regimen should be used to treat *M. malmoense*-pulmonary disease?
12. What antibiotic regimen should be used to treat *M. xenopi*-pulmonary disease?
13. What antibiotic regimen should be used to treat *M. abscessus*-pulmonary disease?
14. Is there a role for adjuvant therapies in the management of NTM-pulmonary disease?
15. What investigations should be performed during treatment or following treatment for NTM-pulmonary disease?
16. Are there differences in outcome between patients with NTM-pulmonary disease treated in specialist versus non-specialist care settings?
17. What is the role of surgery in the treatment of NTM-pulmonary disease?
18. Does NTM infection affect an individual’s suitability for lung transplantation?
Search strategy: NTM_BTS

12/11/2012

Sources to be searched;

Cochrane Database of Systematic Reviews (CDSR)
Database of Abstracts of Reviews of Effects (DARE)
Cochrane Central Register of Controlled Trials (CENTRAL)
Health Technology Assessment Database (HTA)
NHS Economic Evaluations Database (NHSEED)
MEDLINE and MEDLINE In-Process
EMBASE

Date range searched: without limits
Human studies only

The majority of the guideline questions can be answered with the general search strategy. The question 4 and 5 have separated searches due to their population is wider.

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### General Search

**MEDLINE and MEDLINE In-Process**

Searched 21/11/12 via OVID interface
Strategy saved as: NTM_BTS_MEDLINE
Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid

1. exp Nontuberculous Mycobacteria/ or exp Mycobacterium Infections, Nontuberculous/ (10421)
2. (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (429)
3. ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunist* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscess complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonea or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilum or immunogenum or kansasii or malmoense or marinum or mucogenericum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentilflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (12278)
4. 1 or 2 or 3 (16272)
5. exp Respiratory Tract Diseases/ (1003299)
6. (lung* or pulmon* or pneumo* or respirat* or bronch* or "cystic fibrosis").af. (1505843)
7. 5 or 6 (1744204)
8. 4 and 7 (4739)
BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

9  exp animals/ not humans.sh. (3809972)
10  8 not 9 (4288)

4288 total results saved to Endnote library marked ‘NTM_BTS_GENERAL_MEDLINE’ in Custom 4 field.

EMBASE

Searched 21/11/12 via OVID interface
Strategy saved as: NTM_BTS_embase

EMBASE 1974 to November 20

1  exp atypical mycobacteriosis/ or exp atypical mycobacterium/ (4252)
2  (Mycobacterium* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (473)
3  ((Mycobacterium* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunistic* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiacicum or celatum or chelonea or chelonei or duvalii or flavescens or fortuitum or genavense or glyum or gordonae or haemophilum or immunogenum or kanssii or malmoense or marum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (13982)
4  1 or 2 or 3 (16177)
5  exp respiratory tract disease/ (1603242)
6  (lung* or pulmon* or pneumo* or respirat* or bronch* or "cystic fibrosis").af. (2001888)
7  5 or 6 (2414846)
8  4 and 7 (5117)
9  (exp animal/ or nonhuman/) not exp human/ (5245998)
10  8 not 9 (4511)

4511 total results saved to Endnote library marked ‘NTM_BTS_GENERAL_EMBASE’ in Custom 4 field.

Cochrane Library (includes CDSR, DARE, CENTRAL, HTA and NHSEED)
http://www.thecochranelibrary.com

Searched online 21/11/12
Strategy saved as: NTM_BTS_cochrane

#1  MeSH descriptor: [Mycobacterium Infections, Nontuberculous] explode all trees 102
#2  MeSH descriptor: [Nontuberculous Mycobacteria] explode all trees 57
#3  #1 or #2 116
#4  (Mycobacterium* or M) and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti,ab.kw (Word variations have been searched) 119
#5  ((Mycobacterium* or M) and ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunistic* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiacicum or celatum or chelonea or chelonei or duvalii or flavescens or fortuitum or genavense or glyum or gordonae or haemophilum or immunogenum or kanssii or malmoense or marum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti (Word variations have been searched) 115
BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

#6   #3 or #4 or #5   204
#7   (lung* or pulmon* or pneumo* or respirat* or bronch* or "cystic fibrosis"):ti,ab,kw  (Word variations have been searched) 68459
#8   MeSH descriptor: [Respiratory Tract Diseases] explode all trees 36500
#9   #7 or #8   77565
#10  #6 and #9   58

Of 58 total results in Cochrane Library 1 were from CDSR, 0 from DARE, 56 from CENTRAL, 0 from HTA and 1 from NHSEED. Results saved to Endnote library marked NTM_CDSR_BTS_GENERAL, NTM_BTS_CENTRAL_GENERAL, and NTM_NHSEED_GENERAL in Custom 4 field.

Q4a. Does in vitro drug susceptibility testing predict response to antibiotic treatment in people with NTM pulmonary infection?

Q4b. How should drug susceptibility testing be performed for NTM?

MEDLINE and MEDLINE In-Process
Searched 21/11/12 via OVID interface
Strategy saved as: NTM_BTS_Q4_MEDLINE
Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present>

1   exp Nontuberculous Mycobacteria/ or exp Mycobacterium Infections, Nontuberculous/ (10421)
2   (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (429)
3   ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunist* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or cheloneae or chelonei or duvalli or flavescens or fortuitum or genavense or gilvum or gordoniae or haemophilum or immunogenum or kanssii or malmoense or marinum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (12278)
4   1 or 2 or 3 (16272)
5   exp *Microbial Sensitivity Tests/ or exp *Drug Resistance, Bacterial/ (32312)
6   (susceptib* or resistan*).ti. (228981)
7   5 or 6 (237096)
8   4 and 7 (798)
9   exp animals/ not humans.sh. (3809972)
10  8 not 9 (685)

685 total results saved to Endnote library marked ‘NTM_BTS_Q4_MEDLINE’ in Custom 4 field.

EMBASE
Searched 21/11/12 via OVID interface
BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

Strategy saved as: NTM_BTS_Q4_EMBASE
EMBASE 1974 to 2012 November 20

1  exp atypical mycobacteriosis/ or exp atypical mycobacterium/ (4252)
2  (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (473)
3  (((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunistic* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonae or chelonei or duvalii or flavescens or fortuitum or genavense or gordonae or haemophilum or immunogenenum or kansasi or malmoense or marium or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentillavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (13982)
4  1 or 2 or 3 (16177)
5  exp "drug resistance/ or exp "antibiotic sensitivity/ (93112)
6  (susceptib* or resistan*).ti. (270924)
7  5 or 6 (297129)
8  4 and 7 (849)
9  (exp animal/ or nonhuman/) not exp human/ (5245998)
10  8 not 9 (454)

454 total results saved to Endnote library marked 'NTM_BTS_Q4_EMBASE' in Custom 4 field.

Cochrane Library (includes CDSR, DARE, CENTRAL, HTA and NHSEED)
http://www.thecochranelibrary.com
Searched online 21/11/12
Strategy saved as: NTM_BTS_Q4

#1  MeSH descriptor: [Mycobacterium Infections, Nontuberculous] explode all trees 102
#2  MeSH descriptor: [Nontuberculous Mycobacteria] explode all trees 57
#3  #1 or #2 116
#4  (Mycobacteri* or M) and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM);ti,ab,kw (Word variations have been searched) 119
#5  (((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunistic* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonae or chelonei or duvalii or flavescens or fortuitum or genavense or gordonae or haemophilum or immunogenenum or kansasi or malmoense or marium or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentillavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti (Word variations have been searched) 115
#6  #3 or #4 or #5 204
#7  MeSH descriptor: [Microbial Sensitivity Tests] explode all trees 1250
#8  MeSH descriptor: [Drug Resistance, Bacterial] explode all trees 710
#9  susceptib* or resistan*.ti (Word variations have been searched) 6232
#10  #7 or #8 or #9 7643
#11  #6 and #10 28
Q5. What is the evidence for transmission of NTM between individuals?

**MEDLINE and MEDLINE In-Process**
Searched 21/11/12 via OVID interface
Strategy saved as: NTM_BTS_Q5_MEDLINE
Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present>

1 exp Nontuberculous Mycobacteria/ or exp Mycobacterium Infections, Nontuberculous/ (10421) 
2 (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (429) 
3 (Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportun* or environmental or "non tuberculou s" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or cheloneae or chelonei or duvallii or flavescens or fortuitum or genavense or gilvum or gordoneae or haemophilum or immunogenum or kansasii or malmoense or marinus or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (12278) 
4 1 or 2 or 3 (16272) 
5 exp *Disease Transmission, Infectious/ or exp *Communicable Diseases/ or exp *Cross Infection/ or tm.fs. (161699) 
6 ((transmi* or spread* or communica*) adj4 (human* or individual* or person* or people or patient* or direct* or contact*)).ti,ab. (47429) 
7 5 or 6 (200514) 
8 4 and 7 (503) 
9 exp animals/ not humans.sh. (3809972) 
10 8 not 9 (404)

404 total results saved to Endnote library marked ‘NTM_BTS_Q5_MEDLINE’ in Custom 4 field.

**EMBASE**
Searched 21/11/12 via OVID interface
Strategy saved as: NTM_BTS_Q5_EMBASE
EMBASE 1974 to 2012 November 20

1 exp atypical mycobacteriosis/ or exp atypical mycobacterium/ (4252) 
2 (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (473) 
3 (Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportun* or environmental or "non tuberculou s" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or cheloneae or chelonei or duvallii or flavescens or fortuitum or genavense or gilvum or gordoneae or haemophilum or immunogenum or kansasii or malmoense or marinus or mucogenicum or
BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (13982)
4 1 or 2 or 3 (16177)
5 exp disease transmission/ or communicable disease/ or cross infection/ (199799)
6 ((transmi* or spread* or communica*) adj4 (human* or individual* or person* or people or patient* or direct* or contact*)).ti,ab. (57668)
7 5 or 6 (246512)
8 4 and 7 (559)
9 (exp animal/ or nonhuman/) not exp human/ (5245998)
10 8 not 9 (398)

398 total results saved to Endnote library marked 'NTM_BTS_Q5_EMBASE' in Custom 4 field.

Cochrane Library (includes CDSR, DARE, CENTRAL, HTA and NHSEED)
http://www.thecochranelibrary.com
Searched online 21/11/12
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#1 MeSH descriptor: [Mycobacterium Infections, Nontuberculous] explode all trees 102
#2 MeSH descriptor: [Nontuberculous Mycobacteria] explode all trees 57
#3 #1 or #2 116
#4 (Mycobacteri* or M) and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM):ti,ab,kw (Word variations have been searched) 119
#5 ((Mycobacteri* or M) and ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunist* or environmental or "non tuberculosis" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonei or duvalli or flavescens or fortitium or genavense or gilvum or gordonae or haemophilum or immunogenum or kanssii or malmoense or marinum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)):ti (Word variations have been searched) 115
#6 #3 or #4 or #5 204
#7 MeSH descriptor: [Disease Transmission, Infectious] explode all trees 631
#8 MeSH descriptor: [Communicable Diseases] explode all trees 103
#9 MeSH descriptor: [Cross Infection] explode all trees 1132
#10 ((transmi* or spread* or communica*) adj4 (human* or individual* or person* or people or patient* or direct* or contact*)):ti,ab,kw (Word variations have been searched) 0
#11 #7 or #8 or #9 or #10 1839
#12 #6 and #11 0

Of 0 total results in Cochrane Library 0 were from CDSR, 0 from DARE, 0 from CENTRAL, 0 from HTA and 0 from NHSEED.

Total Results General Search

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### BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

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All results saved to Endnote X3 library NTM_BTS_Q5.enl
NTM_BTS

23/6/2015

Sources to be searched;

- Cochrane Database of Systematic Reviews (CDSR)
- Database of Abstracts of Reviews of Effects (DARE)
- Cochrane Central Register of Controlled Trials (CENTRAL)
- Health Technology Assessment Database (HTA)
- NHS Economic Evaluations Database (NHSEED)
- MEDLINE and MEDLINE In-Process
- EMBASE

Date range searched: without limits
Human studies only

The majority of the guideline questions can be answered with the general search strategy. Questions 4 and 5 have a more focused search because of the wider population

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General Search
MEDLINE and MEDLINE In-Process
Searched 19th June 2015 via OVID interface

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:
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1 exp Nontuberculous Mycobacteria/ or exp Mycobacterium Infections, Nontuberculous/ (11637)
2 (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (493)
3 ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunist* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonae or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilum or immunogenum or kansasii or malmoense or marinum or mucogenicum or nonchromogenic or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrea complex" or terrae or ulcerans or buruli or xenopi)).ti. (13717)
4 1 or 2 or 3 (18237)
5 exp Respiratory Tract Diseases/ (1098930)
6 (lung* or pulmon* or pneumo* or respirat* or bronch* or "cystic fibrosis").af. (1695403)
7 5 or 6 (1956112)
8 4 and 7 (5321)
9 exp animals/ not humans.sh. (4059857)
10 8 not 9 (4825)

4825 results

EMBASE
Searched 19th June 2015 via OVID interface
Database: Embase <1974 to 2015 Week 24>

Search Strategy:
--------------------------------------------------------------------------------
1 exp atypical mycobacteriosis/ or exp atypical mycobacterium/ (5157)
2 (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (569)
3 ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunist* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonae or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilum or immunogenum or kansasii or malmoense or marinum or mucogenicum or nonchromogenic or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrea complex" or terrae or ulcerans or buruli or xenopi)).ti. (13717)
4 1 or 2 or 3 (18237)
5 exp Respiratory Tract Diseases/ (1098930)
6 (lung* or pulmon* or pneumo* or respirat* or bronch* or "cystic fibrosis").af. (1695403)
7 5 or 6 (1956112)
8 4 and 7 (5321)
9 exp animals/ not humans.sh. (4059857)
10 8 not 9 (4825)
BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (15231)
4   1 or 2 or 3 (17984)
5   exp respiratory tract disease/ (1832613)
6   (lung* or pulmon* or pneumo* or respirat* or bronch* or "cystic fibrosis").af. (2315857)
7   5 or 6 (2795278)
8   4 and 7 (6168)
9   (exp animal/ or nonhuman/) not exp human/ (5601590)
10  8 not 9 (5459)

5459 results saved to Endnote library

Cochrane Library (includes CDSR, DARE, CENTRAL, HTA and NHSEED)
http://www.thecochranelibrary.com
Searched online 19th June 2015

Search Name: BTS_NTM_GEN
Last Saved: 19/06/2015 14:56:20.548
Description: 19062015

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#3    #1 or #2  125
#4    (Mycobacteri* or M) and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM):ti,ab,kw (Word variations have been searched) 144
#5    ((Mycobacteri* or M) and ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunist* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilum or immunogenenum or kansasii or malmoense or marinum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)):ti (Word variations have been searched) 129
Q4a. Does in vitro drug susceptibility testing predict response to antibiotic treatment in people with NTM pulmonary infection?

Q4b. How should drug susceptibility testing be performed for NTM?

MEDLINE and MEDLINE In-Process
searched 22nd June 2015 via OVID interface

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present>
Search Strategy:

1 exp Nontuberculous Mycobacteria/ or exp Mycobacterium Infections, Nontuberculous/ (11637)
2 (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (493)
3 ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunist* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonea or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonea or haemophilum or immunogenenum or kanssii or malmoense or marinus or mucogenicum or nonchromogenicum or obumense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentilavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (13717)
4 1 or 2 or 3 (18237)
5 exp *Microbial Sensitivity Tests/ or exp *Drug Resistance, Bacterial/ (38004)
6 (susceptib* or resistan*).ti. (269462)
7 5 or 6 (278795)
8 4 and 7 (913)
9 exp animals/ not humans.sh. (4059857)
10 8 not 9 (786)

786 results saved to Endnote library
EMBASE
Searched 22nd June 2015 via OVID interface

Database: Embase <1974 to 2015 Week 25>
Search Strategy:
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1 exp atypical mycobacteriosis/ or exp atypical mycobacterium/ (5172)
2 (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (570)
3 ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunistic* or environmental or "non tuberculosis" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellular or "avium intracellular" or "battey bacillus" or asiaticum or celatum or cheloneae or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilum or immunogenum or kansasii or malmoense or marinum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smeagmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (15242)
4 1 or 2 or 3 (18005)
5 exp *drug resistance/ or exp *antibiotic sensitivity/ (102775)
6 (susceptib* or resistan*).ti. (317381)
7 5 or 6 (344484)
8 4 and 7 (939)
9 (exp animal/ or nonhuman/) not exp human/ (5606733)
10 8 not 9 (500)

500 results saved to Endnote library

Cochrane Library (includes CDSR, DARE, CENTRAL, HTA and NHSEED)
http://www.thecochranelibrary.com
Searched online 22nd June 2015

Search Name: BTS NTM Q4B
Last Saved: 22/06/2015 14:59:42.862
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Q5. What is the evidence for transmission of NTM between individuals?

MEDLINE and MEDLINE In-Process

Search 22nd June 2015 via OVID interface

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present

1  exp Nontuberculous Mycobacteria/ or exp Mycobacterium Infections, Nontuberculous/ (11637)
2  (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (493)
3  ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunistic* or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonei or duvallii or flavescens or fortuitum or genavense or gilvum or gordoneae or haemophilum or immunogenum or kansasii or malmoense or marum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentilflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti (Word variations have been searched) (13717)
4  1 or 2 or 3 (18237)
5  exp *Disease Transmission, Infectious/ or exp *Communicable Diseases/ or exp *Cross Infection/ or tm.fs. (181170)
6  ((transmit* or spread* or communica*) adj4 (human* or individual* or person* or people or patient* or direct* or contact*)).ti,ab. (57613)
7  5 or 6 (228718)
8  4 and 7 (579)
9  exp animals/ not humans.sh. (4059857)
10 8 not 9 (467)

467 results saved to Endnote library.
BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

EMBASE
Searched 22nd June 2015 via OVID interface
Database: Embase <1974 to 2015 Week 25>

1  exp atypical mycobacteriosis/ or exp atypical mycobacterium/ (5172)
2  (Mycobacteri* or M).ti,ab. and (MOTT or MABSC or MAC or MAIC or MAI or MFC or ATM or NTM).ti. (570)
3  ((Mycobacteri* or M) adj4 ("slow growers" or "rapid growers" or "slowly growing" or "rapidly growing" or atypical or opportunistic or environmental or "non tuberculous" or nontuberculous or "other than Tuberculosis" or pigmented or "abscessus complex" or abscessus or bolletii or massiliense or "avium complex" or avium or intracellulare or "avium intracellulare" or "battey bacillus" or asiaticum or celatum or chelonae or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilum or immunogenum or kansasii or malmoense or marinum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi)).ti. (15242)
4  1 or 2 or 3 (18005)
5  exp disease transmission/ or communicable disease/ or cross infection/ (219601)
6  ((transmi* or spread* or communica*) adj4 (human* or individual* or person* or people or patient* or direct* or contact*).ti,ab,kw. (71332)
7  5 or 6 (278346)
8  4 and 7 (650)
9  (exp animal/ or nonhuman/) not exp human/ (5606733)
10  8 not 9 (449)

449 results saved to Endnote library

Cochrane Library (includes CDSR, DARE, CENTRAL, HTA and NHSEED)
http://www.thecochranelibrary.com
Searched online 23rd June 2015

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BTS Guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

lentiflavum or smegmatis or szulgai or sulgai or "terrae complex" or terrae or ulcerans or buruli or xenopi):ti (Word variations have been searched) 129
#6 #3 or #4 or #5 239
#7 MeSH descriptor: [Disease Transmission, Infectious] explode all trees 806
#8 MeSH descriptor: [Communicable Diseases] explode all trees 115
#9 MeSH descriptor: [Cross Infection] explode all trees 1376
#10 ((transmi* or spread* or communica*) near/4 (human* or individual* or person* or people or patient* or direct* or contact*)):ti,ab,kw (Word variations have been searched) 3885
#11 #7 or #8 or #9 or #10 5884
#12 #6 and #11 0

Of 0 total results in Cochrane Library 0 were from CDSR, 0 from DARE, 0 from CENTRAL, 0 from HTA and 0 from NHSEED.

Results: General Search

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