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

Web Appendix 1 – Literature search

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.

<table>
<thead>
<tr>
<th>Question</th>
<th>Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Search</td>
<td>5741</td>
</tr>
<tr>
<td>Q4</td>
<td>847</td>
</tr>
<tr>
<td>Q5</td>
<td>598</td>
</tr>
</tbody>
</table>
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

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

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 (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 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 gordoniae 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 lentilavum or smegmatis or szulgai or sulgai or "terre complex" or terrae or ulcerans or buruli or xenopi):ti (Word variations have been searched) 115
#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?
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

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 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 lentillavum 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

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

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

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

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 chelonea or chelonei or duvallii or flavescens or fortuitum 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 smeegmatis 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 communic*) 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 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 duvallii or flavescens or fortuitum 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 smeegmatis 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.
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

Cochrane Library (includes CDSR, DARE, CENTRAL, HTA and NHSEED)
http://www.thecochranelibrary.com
Searched online 21/11/12
Strategy saved as: NTM_BTS_Q5

#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 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 gordoniae 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 (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 communic*) 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

<table>
<thead>
<tr>
<th>Database</th>
<th>Results</th>
<th>After deduplication</th>
<th>Custom 4 field</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDLINE and MEDLINE In-Process</td>
<td>4288</td>
<td>4148</td>
<td>NTM_BTS_GENERAL_MEDLINE</td>
</tr>
<tr>
<td>EMBASE</td>
<td>4511</td>
<td>1572</td>
<td>NTM_BTS_GENERAL_EMBASE</td>
</tr>
<tr>
<td>CDSR</td>
<td>1</td>
<td>1</td>
<td>NTM_BTS_CDSR_GENERAL</td>
</tr>
<tr>
<td>CENTRAL</td>
<td>56</td>
<td>20</td>
<td>NTM_BTS_CENTRAL_GENERAL</td>
</tr>
<tr>
<td>NHSEED</td>
<td>1</td>
<td>0</td>
<td>NTM_BTS_NHSEED General</td>
</tr>
<tr>
<td>Total</td>
<td>8857</td>
<td>5741</td>
<td></td>
</tr>
</tbody>
</table>

All results saved to Endnote X3 library NTM_BTS_GENERAL.enl

Total Results Q4

7
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

<table>
<thead>
<tr>
<th>Database</th>
<th>Results</th>
<th>After deduplication</th>
<th>Custom 4 field</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDLINE and MEDLINE In-Process</td>
<td>685</td>
<td>667</td>
<td>NTM_BTS_Q4_MEDLINE</td>
</tr>
<tr>
<td>EMBASE</td>
<td>454</td>
<td>160</td>
<td>NTM_BTS_Q4_EMBASE</td>
</tr>
<tr>
<td>CENTRAL</td>
<td>28</td>
<td>20</td>
<td>NTM_BTS_Q4_CENTRAL</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1167</strong></td>
<td><strong>847</strong></td>
<td></td>
</tr>
</tbody>
</table>

All results saved to Endnote X3 library NTM_BTS_Q4.enl

**Total Results Q5**

<table>
<thead>
<tr>
<th>Database</th>
<th>Results</th>
<th>After deduplication</th>
<th>Custom 4 field</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDLINE and MEDLINE In-Process</td>
<td>404</td>
<td>392</td>
<td>NTM_BTS_Q5_MEDLINE</td>
</tr>
<tr>
<td>EMBASE</td>
<td>398</td>
<td>206</td>
<td>NTM_BTS_Q5_EMBASE</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>802</strong></td>
<td><strong>598</strong></td>
<td></td>
</tr>
</tbody>
</table>

All results saved to Endnote X3 library NTM_BTS_Q5.enl
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

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

<table>
<thead>
<tr>
<th>Question</th>
<th>New Records from update search June 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Search</td>
<td>1419</td>
</tr>
<tr>
<td>Q4B</td>
<td>137</td>
</tr>
<tr>
<td>Q5</td>
<td>131</td>
</tr>
</tbody>
</table>
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:
--------------------------------------------------------------------------------
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 "batey bacillus" or asiaticum or celatum or chelonae or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilium 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. (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 "batey bacillus" or asiaticum or celatum or chelonae or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordonae or haemophilium 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. (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 diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

or nonchromogenic 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

ID Search
#1 MeSH descriptor: [Mycobacterium Infections, Nontuberculous] explode all trees 111
#2 MeSH descriptor: [Nontuberculous Mycobacteria] explode all trees 61
#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 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 "terrae complex" or terrae or ulcerans or buruli or xenopi)):ti (Word variations have been searched) 129
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

#6 #3 or #4 or #5 239

#7 (lung* or pulmon* or pneumo* or respirat* or bronch* or "cystic fibrosis"):ti,ab,kw
(Word variations have been searched) 88046

#8 MeSH descriptor: [Respiratory Tract Diseases] explode all trees 41603

#9 #7 or #8 98638

#10 #6 and #9 71

Of 71 total results in Cochrane Library 2 were from CDSR, 1 from DARE, 67 from CENTRAL, 0 from HTA and 1 from NHSEED.

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 gordonae or haemophilum or immunogenenum or kanssii or malmoense or marinum or mucagenicum or nonchromogenicum or oubense 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. (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
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

EMBASE
Searched 22nd June 2015 via OVID interface

Database: Embase <1974 to 2015 Week 25>
Search Strategy:

--------------------------------------------------------------------------------
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 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 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. (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
Description:

ID    Search
#1    MeSH descriptor: [Mycobacterium Infections, Nontuberculous] explode all trees 111
#2    MeSH descriptor: [Nontuberculous Mycobacteria] explode all trees 61
#3    #1 or #2 125
BTS Guidelines for the diagnosis and management of non-tuberculous mycobacterial pulmonary disease (NTM-PD)

#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 duvallii 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 lentilflavum 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: [Microbial Sensitivity Tests] explode all trees  1345
#8  MeSH descriptor: [Drug Resistance, Bacterial] explode all trees  822
#9  susceptib* or resistan*:ti  (Word variations have been searched)  9382
#10  #7 or #8 or #9  10891
#11  #6 and #10  29

Of 29 total results in Cochrane Library 1 were from CDSR, 0 from DARE, 28 from CENTRAL, 0 from HTA and 0 from NHSEED.

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 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 duvallii 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 lentilflavum 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 *Disease Transmission, Infectious/ or exp *Communicable Diseases/ or exp *Cross Infection/ or tm.fs. (181170)
6  ((transmi* 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 diagnosis and 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 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 gordoniae or haemophilum or immunogenum or kansasi 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. (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

#1 MeSH descriptor: [Mycobacterium Infections, Nontuberculous] explode all trees  111
#2 MeSH descriptor: [Nontuberculous Mycobacteria] explode all trees  61
#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 chelonea or chelonei or duvalii or flavescens or fortuitum or genavense or gilvum or gordoniae or haemophilum or immunogenum or kansasi or malmoense or marinum or mucogenicum or nonchromogenicum or obuense or peregrinum or scrofulaceum or "simiae complex" or simiae or
BTS Guidelines for the diagnosis and 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

<table>
<thead>
<tr>
<th>Database</th>
<th>Results</th>
<th>After deduplication against</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1) All new search results</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) All original search results</td>
</tr>
<tr>
<td>MEDLINE and MEDLINE In-Process</td>
<td>4825</td>
<td></td>
</tr>
<tr>
<td>EMBASE</td>
<td>5459</td>
<td></td>
</tr>
<tr>
<td>CDSR</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CENTRAL</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>DARE</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>NHSEED</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>10,355</td>
<td>1419</td>
</tr>
</tbody>
</table>

All 1419 results saved to Endnote library BTS NTH GEN Update FINAL June 2015.enl

Results: Q4B

<table>
<thead>
<tr>
<th>Database</th>
<th>Results</th>
<th>After deduplication against</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1) All new search results</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) All original search results</td>
</tr>
<tr>
<td>MEDLINE and MEDLINE In-Process</td>
<td>786</td>
<td></td>
</tr>
<tr>
<td>EMBASE</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>CDSR</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CENTRAL</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1315</td>
<td>137</td>
</tr>
</tbody>
</table>

All 137 results saved to Endnote library BTS NTM Q4B Update FINAL June 2015.enl
### Results Q5

<table>
<thead>
<tr>
<th>Database</th>
<th>Results</th>
<th>After deduplication against</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1) All new search results</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) All original search results</td>
</tr>
<tr>
<td>MEDLINE and MEDLINE In-Process</td>
<td>467</td>
<td></td>
</tr>
<tr>
<td>EMBASE</td>
<td>449</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>916</strong></td>
<td><strong>131</strong></td>
</tr>
</tbody>
</table>

All results saved to Endnote library BTS NTM Q5 update FINAL June 2015.enl