

# EMBARC Case Report Form

Version 1.1, February 2015

For definitions please refer to the user guide

## BASIC CASE INFORMATION

Hospital number or identifier \_\_\_\_\_

- Eligibility criteria:
- Has a CT chest scan consistent with bronchiectasis
  - Is over 18 years old
  - Does not have known cystic fibrosis
  - Has not had a previous heart or lung transplant
  - Has given consent to inclusion in the study

Gender:  Male  Female

Date of birth: \_\_\_\_\_ (dd/mm/yyyy)

- Ethnicity
- White European
  - Gypsy/traveller
  - Other white ethnic group
  - Hispanic
  - Indian, Pakistani, Bangladeshi or other South Asian ethnic group
  - Chinese European/Other Chinese ethnic group
  - Other Asian ethnic group
  - Black European/Black African/other black ethnic group
  - Other African
  - Caribbean/other Caribbean ethnic group
  - Arab European/Other Arab ethnic group
  - Other ethnicity
  - Not recorded/declined

Center: \_\_\_\_\_

- How long has the patient had bronchiectasis?
- Unknown
  - < 5 years
  - 5-10 years
  - 11-15 years
  - 16-20 years
  - >20 years

Date of patient visit: \_\_\_\_\_ (dd/mm/yyyy)

## CO-MORBIDITIES

### Comorbidities

Cardiovascular diseases	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Myocardial infarction	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Angina	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Stroke or Transient ischaemic attack	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Coronary artery bypass graft	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Congestive cardiac failure	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Pulmonary hypertension	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Atrial fibrillation	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Systemic hypertension	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown

### Others \_\_\_\_\_

Liver Cirrhosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Osteoporosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Depression	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Anxiety	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Chronic renal failure	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Haemodialysis	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Neoplastic disease	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Active	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Haematological	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Site	<input type="checkbox"/> Lung	<input type="checkbox"/> Breast	<input type="checkbox"/> Prostate
	<input type="checkbox"/> Bone	<input type="checkbox"/> Skin	<input type="checkbox"/> Brain
		<input type="checkbox"/> Other	<input type="checkbox"/> Unknown
Diabetes	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Type	<input type="checkbox"/> Type I	<input type="checkbox"/> Type II	<input type="checkbox"/> Not Known
Treatment	<input type="checkbox"/> Insulin	<input type="checkbox"/> Sulphonylurea	<input type="checkbox"/> Metformin
	<input type="checkbox"/> Other	<input type="checkbox"/> Not Known	

**Non respiratory medications**

Statin	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Angiotensin-converting -enzyme inhibitor	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Angiotensin II receptor blocker	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Aspirin	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Clopidogrel	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Warfarin/Oral anticoagulants	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
β-Blocker	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Proton pump inhibitor	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown

*Additional medications can be recorded in the respiratory treatments section.*

## BRONCHIECTASIS BACKGROUND INFORMATION

Weight (Kg) \_\_\_\_\_  N/A                      Height (cm) \_\_\_\_\_  N/A

FEV<sub>1</sub> L (recorded) \_\_\_\_\_  N/A                      FVC L (recorded) \_\_\_\_\_  N/A

Were any additional lung function tests performed?     Yes     No     Unknown

Total Lung Capacity (L) \_\_\_\_\_  N/A                      Diffusing capacity (DLCO) (L) \_\_\_\_\_  N/A

Residual Volume (L) \_\_\_\_\_  N/A                      Inspiratory capacity (DLCO) (L) \_\_\_\_\_  N/A

Bronchodilator Status                       Pre-Bronchodilator  
     Post-Bronchodilator  
     Unknown  
*(where possible, post-bronchodilator values are preferred)*

Modified MRC dyspnoea score:

- 0 (I only get breathless with strenuous exercise)
- 1 (I get short of breath when hurrying on level ground or walking up a slight hill)
- 2 (On the level ground I walk slower than people of the same age because of breathlessness or I have to stop for breath when walking at my own pace on the level)
- 3 (I stop for breath after walking about 100 yards or after a few minutes on the level ground)
- 4 (I am too breathless to leave the house or I am breathless when dressing)
- N/A

Asthma:                       Yes     No     Unknown

COPD:                       Yes     No     Unknown

Nasal polyps:     Yes     No     Unknown

Rhinosinusitis:     Yes     No     Unknown

Sputum color when stable:     Mucoid  
     Mucopurulent  
     Purulent

Usual daily sputum volume:  
\_\_\_\_\_ (ml/day)     N/A

Smoking status:  Current  
                                   Ex  
                                   Never

Approximate Pack years:     0  
     0-5  
     6-10  
     11-20  
     21-40  
     More than 40  
     Unknown

No of exacerbations in last year:

0  1  2  3  4  5  6  7  8  9  10  11  12  Unknown

Source of this data:

Patient history  Antibiotic prescription data  Hospital records

No of hospital admissions for respiratory infections in last year:

0  1  2  3  4  5  6  7  8  9  10  11  12  Unknown

Source of this data:

Patient history  Antibiotic prescription data  Hospital records

No of Emergency Department visits in last year:

*(Please record outpatient exacerbations, hospital admissions and emergency department visits that do not result in hospital admission separately)*

0  1  2  3  4  5  6  7  8  9  10  11  12  Unknown

Source of this data:

Patient history  Antibiotic prescription data  Hospital records

Has the patient ever been hospitalised for bronchiectasis?  Yes  No  Unknown

Has the patient received outpatient intravenous antibiotics in the last year?  Yes  No  Unknown

Has the patient ever had major haemoptysis requiring hospital admission?  Yes  No  Unknown

Has the patient participated in a clinical trial for bronchiectasis (other than the registry)?  Yes  No  Unknown

QoL-B Questionnaire *If yes, complete the following:*

English-UK  Danish-Denmark  Dutch-Belgium  Dutch-Netherlands  Finnish  
 French-Belgium  French-France  German  Hungarian  Italian  Lithuanian  
 Norwegian  Polish  Portuguese  Romanian  Russian-Israel  Russian- Russia  
 Serbian  Spanish-Latin  Spanish-Spain

Date of completion: \_\_\_\_\_ (dd/mm/yyyy)

Q1 _____	Q2 _____	Q3 _____	Q4 _____	Q5 _____
Q6 _____	Q7 _____	Q8 _____	Q9 _____	Q10 _____
Q11 _____	Q12 _____	Q13 _____	Q14 _____	Q15 _____
Q16 _____	Q17 _____	Q18 _____	Q19 _____	Q20 _____
Q21 _____	Q22 _____	Q23 _____	Q24 _____	Q25 _____
Q26 _____	Q27 _____	Q28 _____	Q29 _____	Q30 _____
Q31 _____	Q32 _____	Q33 _____	Q34 _____	Q35 _____
Q36 _____	Q37 _____			

## AETIOLOGY AND LABORATORY TESTING

**Has the patient had testing for the following underlying disorders:**

**ABPA**                     Yes     No     Unknown

Serum eosinophil count	<input type="checkbox"/> Elevated	<input type="checkbox"/> Normal	<input type="checkbox"/> Not tested
Total IgE	___iu/mL	<input type="checkbox"/> Normal	<input type="checkbox"/> Elevated <input type="checkbox"/> Unknown
Specific IgE to aspergillus	<input type="checkbox"/> Raised	<input type="checkbox"/> Normal	<input type="checkbox"/> Not tested
Aspergillus IgG	<input type="checkbox"/> Raised	<input type="checkbox"/> Normal	<input type="checkbox"/> Not tested
Aspergillus Skin prick test	<input type="checkbox"/> Raised	<input type="checkbox"/> Normal	<input type="checkbox"/> Not tested

**Cystic Fibrosis**         Yes     No     Unknown

Sweat test	<input type="checkbox"/> Positive	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Negative	<input type="checkbox"/> Not performed	<input type="checkbox"/> Unknown
Genetics	<input type="checkbox"/> Homozygous	<input type="checkbox"/> Heterozygous	<input type="checkbox"/> No mutations		
	<input type="checkbox"/> Not performed <input type="checkbox"/> Unknown				

**Serum Immunoglobulins**                     Yes     No     Unknown

Serum level IgM	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested
Serum level IgG	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested
Serum level IgA	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested
Serum level IgG1	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested
Serum level IgG2	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested
Serum level IgG3	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested
Serum level IgG4	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested

**$\alpha$ -1 antitrypsin deficiency**                     Yes     No     Unknown

Level	<input type="checkbox"/> Normal	<input type="checkbox"/> Low	<input type="checkbox"/> High	<input type="checkbox"/> Not tested
Genetics	<input type="checkbox"/> PiMM (Normal)	<input type="checkbox"/> PiMS	<input type="checkbox"/> PiSS	<input type="checkbox"/> PiMZ
	<input type="checkbox"/> PiSZ	<input type="checkbox"/> PiZZ	<input type="checkbox"/> Not performed	

**Functional antibodies to  
Pneumococcal/H influenza vaccine**                     Yes     No     Unknown

Result	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal
	<input type="checkbox"/> Not performed <input type="checkbox"/> Unknown	

**Serum electrophoresis**                     Yes     No     Unknown

Result	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal
	<input type="checkbox"/> Not performed <input type="checkbox"/> Unknown	

**Tests of ciliary function**                     Yes     No     Unknown

- Nasal eNO  Positive  Intermediate  Negative  
 Not performed  Unknown
- Saccharin test  Positive  Intermediate  Negative  
 Not performed  Unknown
- Scintigraphic mucociliary clearance  Positive  Intermediate  Negative  
 Not performed  Unknown
- Biopsy for electron microscopy  Positive  Intermediate  Negative  
 Not performed  Unknown
- Biopsy for analysis of ciliary beat patten/frequency  Positive  Intermediate  Negative  
 Not performed  Unknown
- Genetics  Positive  Intermediate  Negative  
 Not performed  Unknown

**Bronchoscopy**  Yes  No  Unknown

**Autoantibody testing**  Yes  No  Unknown

CCP screen results  Positive  Intermediate  Negative  
 Not performed  Unknown

ANA screen results  Positive  Intermediate  Negative  
 Not performed  Unknown

ENA screen results  Positive  Intermediate  Negative  
 Not performed  Unknown

ANCA  Positive  Intermediate  Negative  
 Not performed  Unknown

Additional tests performed \_\_\_\_\_

**Does the patient have a history of any of the following:**

**Pneumonia**  Yes  No  Unknown

**Whooping cough/pertussis**  Yes  No  Unknown

**Other childhood/respiratory infection**  Yes  No  Unknown

**Tuberculosis**  Yes  No  Unknown  
 Infection  Current  Previous  Unknown  
 Treatment received  Yes  No  Unknown

**Atypical mycobacterial infection**  Yes  No  Unknown  
 Infection  Current  Previous  Unknown  
 Treatment received  Yes  No  Unknown

**Rheumatoid arthritis**  Yes  No  Unknown

**Other connective tissue disease**

- Yes    No    Unknown
- Systemic lupus erythematosus    Sjogrens syndrome    Systemic sclerosis/scleroderma
- Poly/dermatomyositis    Ehlers\_danlos syndrome    Juvenile idiopathic asthritis
- Mixed connective tissue disease    Relapsing polychondritis    Stills disease    Other    Unknown

**Inflammatory bowel disease**

- Yes    No    Unknown
- Ulcerative colitis    Yes    No    Unknown
- Crohns disease    Yes    No    Unknown

**HIV**

- Yes    No    Unknown

**Immunodeficiency**

- Yes    No    Unknown

B-cell deficiencies:

- Common variable immunodeficiency
- X-linked agammaglobulinaemia
- Thymoma with antibody deficiency
- Hyper IgM syndrome
- Activate PI3K-delta syndrome
- Selective IgA deficiency
- IgG subclass deficiency
- Specific antibody deficiency
- Other

T-cell and combined deficiencies

- Severe combined immunodeficiency
- DiGeorge syndrome
- X-linked lymphoproliferative syndrome
- Hyper IgM syndrome (CD40 ligand)
- MHC class II deficiency
- Ataxia-telangiectasis
- Wiskott-Aldrich syndrome
- Chronic mucocutaneous candidiasis
- TAP deficiency
- IPEX (immune dysfunction, polyendocrinopathy, eneteropathy, X-linked)
- ALPS (autoimmune lymphoproliferative syndrome)
- WHIM syndrome
- Other

Secondary immunodeficiencies

- Chronic Lymphocytic leukemia
- Multiple Myeloma
- Immunodeficiency associated with haematological malignancy
- Immunodeficiency secondary to systemic chemotherapy
- Immunodeficiency secondary to immunosuppressive drugs
- Stem cell transplantation
- Solid organ transplantation
- Other



**Phagocyte deficiencies**

- Chronic granulomatous disease
- Familial Haemophagocytic lymphohistiocytosis
- Congenital agranulocytosis
- Cyclic neutropenia
- Leucocyte adhesion deficiency
- Chediak-Higashi syndrome
- Griscelli's syndrome
- Hyper IgE syndrome
- Interferon gamma/IL-12 rec
- Other cytokine deficiencies

**Complement deficiencies**

- Mannose binding lectin (MBL) deficiency
- Properdin deficiency
- Complement C3 deficiency
- Terminal complement component deficiency
- Other

**Primary ciliary dyskinesia**

- Yes    No    Unknown

**Aspiration**

- Yes    No    Unknown

**Gastro-oesophageal reflux disease**

- Yes    No    Unknown

**Congenital airway abnormality**

- Yes    No    Unknown  
Please specify: \_\_\_\_\_

**Foreign body inhalation or obstruction**

- Yes    No    Unknown

**After investigation, the underlying aetiology determined was:**

- |  |   |
|--|---|
| <input type="checkbox"/> Idiopathic                      | <input type="checkbox"/> Kartagener syndrome              |
| <input type="checkbox"/> Post-infective                  | <input type="checkbox"/> Youngs Syndrome                  |
| <input type="checkbox"/> Post-tuberculous                | <input type="checkbox"/> Alpha-1-antitrypsin deficiency   |
| <input type="checkbox"/> ABPA                            | <input type="checkbox"/> Common variable immunodeficiency |
| <input type="checkbox"/> Rheumatoid arthritis            | <input type="checkbox"/> X-linked agammaglobulinaemia     |
| <input type="checkbox"/> Connective tissue disease       | <input type="checkbox"/> IgA deficiency                   |
| <input type="checkbox"/> Inflammatory bowel disease      | <input type="checkbox"/> IgG subclass deficiency          |
| <input type="checkbox"/> Aspiration                      | <input type="checkbox"/> Specific antibody deficiency     |
| <input type="checkbox"/> Gastroesophageal reflux disease | <input type="checkbox"/> HIV                              |
| <input type="checkbox"/> Non-tuberculous mycobacteria    | <input type="checkbox"/> Williams-Campbell Syndrome       |
| <input type="checkbox"/> COPD                            | <input type="checkbox"/> Marfan Syndrome                  |
| <input type="checkbox"/> Asthma                          | <input type="checkbox"/> Mounier-Kuhn syndrome            |
| <input type="checkbox"/> Primary ciliary dyskinesia      | <input type="checkbox"/> Yellow nail syndrome             |
| Other aetiology (please specify): _____                  |   |

## MICROBIOLOGY

Have any microbiology samples been obtained for this patient?  Yes  No

*If yes, complete the following:*

*Samples are divided into those performed when clinically stable and those performed during exacerbations. If it is uncertain whether patients were stable or not at the time of sampling please record under "clinically stable".*

### While clinically stable

*Please provide details of all sputum results while stable over the last 12 months (include negative cultures)*

Date of sample: \_\_\_\_\_ (mm/yyyy)  N/A

Source:  Sputum  
 BAL  
 Induced sputum  
 Throat swab

No organism isolated

Organism: \_\_\_\_\_

Antibiotic: Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_

Organism: \_\_\_\_\_

Antibiotic: Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_

Has the patient ever grown *Pseudomonas aeruginosa*?  Yes  No  Unknown

How long ago was the most recent isolation of *Pseudomonas*?  Present  
 Last 2 years  
 Last 5 years  
 Last 10 years  
 More than 10 years

Type:  Mucoid  
 Non-mucoid  
 Unknown

Has the patient ever had nebulised, oral or intravenous antibiotics aimed at eradication of pseudomonas?

Yes    No    Unknown

**During exacerbations**

*Please provide details of all sputum results during exacerbations over the last 12 months*

Date of sample: \_\_\_\_\_ (mm/yyyy)    N/A

Source:    Sputum  
 BAL  
 Induced sputum  
 Throat swab

No organism isolated

Organism: \_\_\_\_\_

Antibiotic: Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_

Organism: \_\_\_\_\_

Antibiotic: Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Sensitive: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_  
Resistant: \_\_\_\_\_

**Mycobacterial samples**

*Please provide details of all sputum results for acid fast bacilli/mycobacterial culture over the last 12 months*

Date of sample: \_\_\_\_\_ (mm/yyyy)    N/A

Source:    Sputum  
 BAL  
 Induced sputum  
 Throat swab

No organism isolated

Organism: \_\_\_\_\_ Macrolide sensitivity:    Yes    No    Unknown

## RADIOLOGY

CT scan available for this patient?  Yes  No

*If yes:*

Date of CT scan: \_\_\_\_\_ (dd/mm/yyyy)  Unknown

Type of imaging:  High resolution CT scan (HRCT)  
 CT Thorax  
 Unknown

Right upper lobe:  Cylindrical  
 Varicose  
 Cystic  
 Unknown

Right middle lobe:  Cylindrical  
 Varicose  
 Cystic  
 Unknown

Right lower lobe:  Cylindrical  
 Varicose  
 Cystic  
 Unknown

Left upper lobe:  Cylindrical  
 Varicose  
 Cystic  
 Unknown

Lingula:  Cylindrical  
 Varicose  
 Cystic  
 Unknown

Left Lower lobe:  Cylindrical  
 Varicose  
 Cystic  
 Unknown

## RESPIRATORY TREATMENTS

The patient has regular respiratory treatments:  Yes  No *(if yes, complete below)*

Long term oxygen therapy:  Yes  No  Unknown

Non invasive ventilation:  Yes  No  Unknown

### Respiratory Medications

- |  |             |
|--|-------------|
| <input type="checkbox"/> Inhaled steroid                           | Drug: _____ |
| <input type="checkbox"/> Inhaled steroid/Long acting beta agonist  | Drug: _____ |
| <input type="checkbox"/> Itraconazole                              | Drug: _____ |
| <input type="checkbox"/> Leukotriene receptor antagonist           | Drug: _____ |
| <input type="checkbox"/> Long acting anti-muscarinic               | Drug: _____ |
| <input type="checkbox"/> Long acting beta agonist                  | Drug: _____ |
| <input type="checkbox"/> Long term (>28 days) Oral corticosteroids | Drug: _____ |
| <input type="checkbox"/> Monoclonal antibody                       | Drug: _____ |
| <input type="checkbox"/> Mucolytic                                 | Drug: _____ |
| <input type="checkbox"/> Nebulised bronchodilators                 | Drug: _____ |
| <input type="checkbox"/> Oral theophylline                         | Drug: _____ |

### Antibiotic Medications

- |  |             |
|--|-------------|
| <input type="checkbox"/> Inhaled/Nebulised antibiotics         | Drug: _____ |
| <input type="checkbox"/> Long term (>28 days) Oral antibiotics | Drug: _____ |
| <input type="checkbox"/> Cyclical antibiotic therapy           | Drug: _____ |

### Physiotherapy Adjuncts

- DNAase
- Inhaled mannitol
- Nebulised Hypertonic saline
- Nebulised Normal saline
- Sodium Hyaluronate

### Vaccination

Has the patient ever received?

Pneumococcal polysaccharide vaccine (e.g.: PSV23):  Yes  No  Unknown

Pneumococcal conjugate vaccine (e.g.: PCV13):  Yes  No  Unknown

In the last year has the patient received Influenza vaccination:  Yes  No  Unknown

### Physiotherapy and activity

Does the patient practice regular chest physiotherapy?  Yes  No  Unknown

Manual airway clearance:  Active cycle of breathing technique  
 Autogenic drainage  
 Postural drainage  
 Assisted cough  
 Manual vibration  
 Percussion  
 ELTGOL  
 None

Devices:  Positive expiratory pressure (PEP) device  
 Flutter device  
 Cornet  
 Acapella  
 Mechanical vibration  
 Percussionnaire  
 High frequency chest wall oscillation  
 Other  
 None

Has the patient attended pulmonary rehabilitation?  Yes  
 Not referred  
 Not fit due to co-morbidities  
 Patient refused  
 Patient failed to attend  
 Unknown

### ADDITIONAL INFORMATION

Provide any additional required information in the free text provided:

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