



1. Core Information

OVERVIEW

- 1.1. What type of encounter are you recording? Annual
- 1.2. Date encounter booked for
- 1.3. Age of Patient at Encounter (years) (months)
- 1.4. Was the patient seen for this Annual Review?
 - Yes
 - No - Transferred to another centre or clinic
 - No - Did not attend
 - No - Patient died
 - No - Other
 - Not known
- 1.5. Encounter setting
 - Out patient
 - Inpatient
 - Daycase
 - Virtual/Phone
 - Home visit
- 1.6. Is this patient shared care? Yes No
- 1.7. Locations
 - a. Encounter Location
 - b. Where does this patient receive care?
 - c. Which is the patients' regional centre?

Height / Weight

- 1.8. Height (cm)
 - a. Height Percentile (%)
- 1.9. Weight (kg)
 - a. Weight Percentile (%)
- 1.10. BMI (kg/m²)
 - a. BMI Percentile (%)
- 1.11. Height / Weight not supplied reason
 - Behavioural issues
 - Physical disability
 - Remote encounter

Oxygen and ventilation

- 1.12. Oxygen therapy since last annual review?
 - Yes No Not known
 - a. When was oxygen therapy used?
 - Continuously
 - Nocturnal and/or with exertion
 - During exacerbation
 - PRN
 - b. Used non invasive ventilation?
 - Yes No Not known

Vaccinations

- 1.13. Has patient received an influenza vaccination since last annual review? Yes No Not known
- 1.14. Has patient received a pneumococcal vaccination since last annual review? Yes No Not known

Clinical trials

- 1.15. Has patient participated in any clinical drug trial since last annual review? Yes No Not known
Please specify
- 1.16. Has patient participated in any clinical study other than a drug study since last annual review? Yes No Not known
Please specify

2. Admissions & IVs

ADMISSIONS & IVs

Hospital IV Admissions

2.1. IV hospital admissions since last visit

	Start	End	Total days	Admission reason
Hospital IV admission 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hospital IV admission 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hospital IV admission 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hospital IV admission 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hospital IV admission 5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total	<input type="text"/> (days)			

Home IV Courses

2.2. Home IVs since last visit

	Start	End	Total days	Reason for IVs
Home IV course 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Home IV course 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Home IV course 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Home IV course 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Home IV course 5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total	<input type="text"/> (days)			

Non IV Hospital Admissions

2.3. Non IV hospital admissions since last visit

	Start	End	Total days	Admission reason
Non IV hospital admission 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Non IV hospital admission 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Non IV hospital admission 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Non IV hospital admission 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Non IV hospital admission 5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total	<input type="text"/> (days)			

3. Investigations

INVESTIGATIONS

Pulmonary function tests

3.1

FEV₁

- a. FEV₁ raw value (l) Not measured
- b. FEV₁ % predicted %

FVC

- c. FVC raw value (l) Not measured
- d. FVC % predicted %

FEF25-75

- e. FEF25 - 75 raw value (l/s) Not measured
- f. FEF25 % predicted %

Best FEV₁ since last annual review

3.2

Best FEV₁

- a. Height at best FEV₁ value (cm)
- b. Weight at best FEV₁ value (kg)
- c. Date of best FEV₁ value
- d. Best FEV₁ (l)
- e. Best FEV₁ % predicted %

Faecal elastase

3.4.

Faecal elastase

- (mcg/ml)
- Not known or Not done

CF-related diabetes (CFRD)

3.5.

Patient has been screened for CFRD?

- Yes
- No
- No (Prior CFRD diagnosis)
- Not known

a. Blood taken?

- Yes No

i. HBA1C value

- (mmol/ml) Not done

ii. Random blood glucose

- (mmol/l) Not done

- iii. Fasting blood glucose taken
- iv. Oral glucose tolerance test fasting
- v. Oral glucose tolerance 1 hour post
- vi. Oral glucose tolerance 2 hour post
- vii. Continuous Glucose Monitoring result

(mmol/l) Not done

(mmol/l) Not done

(mmol/l) Not done

(mmol/l) Not done

Normal

Abnormal

CFRD

Not done

DEXA scan

3.6. DEXA scan performed

Normal

Abnormal

Not done

Not known

- a. DEXA scan date
- b. DEXA scan total body under 20 years of age (z-score)
- c. DEXA scan lumbar spine under 20 years of age (z-score)
- d. DEXA scan lumbar spine over 20 years of age (z-score)
- e. DEXA scan total hip over 20 years of age (z-score)
- f. DEXA scan femoral neck under 20 years of age (z-score)
- g. DEXA scan femoral neck over 20 years of age (z-score)
- h. DEXA scan lumbar spine over post menopausal women and men >50 years of age (T-score)
- i. DEXA scan total hip over post menopausal women and men >50 years of age (T-score)
- j. DEXA scan femoral neck over post menopausal women and men >50 years of age (T-score)

X-ray / Scan

3.7. Chest x-ray result?

No change

New changes

Done but result Not known

Not done

Liver ultrasound

3.8. Liver ultra sound scan performed?

a. Liver ultra sound scan type

Yes No Not known

Normal Abnormal

Serum creatinine

3.9. Serum creatinine

(mmol/dl) Not done

Liver Tests

3.10. Laboratory liver enzymes done?

- A. ALT liver enzyme result
- B. AST liver enzyme result
- C. GGT liver enzyme result
- D. ALP liver enzyme result
- E. Total Bilirubin liver enzyme result

Yes No Not Known

4. Chronic Medications

CHRONIC MEDICATIONS

4.1. Has this patient had any chronic medications? Yes No

4.2.

	Drug name	Type	Frequency	Dosage	Start Date	End date (or N/A)	Stopping reason
1st							
2nd							
3rd							
4th							
5th							
6th							
7th							
8th							
9th							
10th							

4.3 Drug Intolerance (Please tick all that apply)

- DNase
- Tobramycin solution for inhalation
- Colistin
- Macrolide antibiotics
- High-dose ibuprofen
- Hypertonic saline
- IV antibiotics

i. If 'IV antibiotics' please specify

- None known

5. Culture & Microbiology

CULTURE & MICROBIOLOGY

Respiratory microbiology

5.1.1 Number of samples

1. Number of sputum samples since last annual review

2. Number of cough/throat/nasal samples since last annual review

3. Number of Bronchoscopy samples since last annual review

5.1.2 Culture result

- Positive culture sample
- No growth
- Normal flora
- Awaited

5.1.3 Culture growth

1. Pseudomonas Aeruginosa

- Pseudomonas aeruginosa

a. Number of Pseudomonas aeruginosa samples since last annual review

b. Pseudomonas mucoid status

c. *Pseudomonas* drug resistance

- Mucoid
- Non mucoid
- Not known

d. Is *Pseudomonas* Chronic or Intermittent?

- Pseudomonas* multi drug resistant
- Pseudomonas* other resistance pattern
- Pseudomonas* fully sensitive
- Pseudomonas* ciprofloxacin resistant
- Chronic Intermittent

2. *Bukholderia* Cepacia complex

- Bukholderia* cepacia
- Bukholderia* cenocepacia
- Bukholderia* multivorans
- Other *Bukholderia* cepacia species

3. Fungal

- Aspergillus* fumigatus
- Scedosporium* species
- Aspergillus* species
- Candida*

4. *Staphylococcus aureus*

i. Is *Staphylococcus aureus* Chronic or Intermittent?

- Staphylococcus aureus*
- Chronic Intermittent

5. Other Cultures

- Alcaligenes (Achromobacter) xylooxidans*
- Pseudomonas* Species
- Escherichia Coli*
- Haemophilus influenza*
- Klebsiella*
- MRSA
- Pandoraea*
- Strenotrophomonas (Xanthomas) maltophilia*
- Other

i. If 'Other', please specify

NTM

5.2.1. Has the patient been on treatment for NTM pulmonary disease at any time since last annual review?

- Yes No

Species

i. Start date

Species

i. Start date

b. Has the patient stopped all NTM antibiotic treatment? Yes No

i. Date of stopping treatment

ii. Reason for stopping

Completed treatment

Declined further treatment

Intolerant of treatment

Stopped treatment then later restarted it

Other

a. If 'Other' specify the reason

5.2.2. Has the patient had NTM positive samples since last annual review? Yes No

a. Negative Culture Result

Negative culture sample

Contaminated culture sample

No samples taken

Not known

5.2.3.

A. If yes, Date of Culture

B. Culture Type

Sputum

Induced Sputum

Lung Biopsy

Broncho-alveolar lavage

Not known

C. Species

5.2.4. Did the patient fulfil ATS criteria for NTM pulmonary disease before starting treatment? Yes No

a. Select reason why NTM treatment did not start

The patient is about to start NTM treatment

The patient declined NTM treatment

The clinical team did not think that NTM treatment was appropriate

Other

5.2.5. Was an intravenous induction regimen used at the beginning of the NTM treatment? Yes No

5.2.6. Which of the following antibiotics were prescribed as NTM treatment during the last period? Please tick all that apply:

<input type="checkbox"/> Amikacin	<input type="checkbox"/> Azithromycin	<input type="checkbox"/> Capreomycin
<input type="checkbox"/> Cefoxitine	<input type="checkbox"/> Clarithromycin	<input type="checkbox"/> Ciprofloxacin
<input type="checkbox"/> Clofazimine	<input type="checkbox"/> Coamoxiclav	<input type="checkbox"/> Cotrimoxazole
<input type="checkbox"/> Cycloserine	<input type="checkbox"/> Doxycycline	<input type="checkbox"/> Ertepenem
<input type="checkbox"/> Ethambutol	<input type="checkbox"/> Ethionamide	<input type="checkbox"/> Imipenem
<input type="checkbox"/> Interferon gamma	<input type="checkbox"/> Isoniazid	<input type="checkbox"/> Levofloxacin
<input type="checkbox"/> Linezolid	<input type="checkbox"/> Meropenem	<input type="checkbox"/> Minocycline
<input type="checkbox"/> Moxifloxacin	<input type="checkbox"/> Ofloxacin	<input type="checkbox"/> Prothionamide
<input type="checkbox"/> Pyrazinamide	<input type="checkbox"/> Rifabutin	<input type="checkbox"/> Rifampicin
<input type="checkbox"/> Rifinah	<input type="checkbox"/> Rifater	<input type="checkbox"/> Streptomycin
<input type="checkbox"/> Tetracycline	<input type="checkbox"/> Tigecycline	<input type="checkbox"/> None

5.2.9. Has the patient been on oral corticosteroid since the last data set? Yes No Not known

5.2.10. Has the patient been on immunosuppressive drugs since the last data set? Yes No Not known

COMPLICATIONS

HAS THE PATIENT HAD ANY OF THE FOLLOWING COMPLICATIONS SINCE THEIR LAST ANNUAL REVIEW?

6. Any new or persisting complications since last encounter?

CF-related diabetes (CFRD)

Diagnosis

6.1 CFRD Status

- CFRD with fasting hyperglycaemia
- CFRD without fasting hyperglycaemia
- CFRD (fasting hyperglycaemia status unknown)
- Impaired glucose tolerance
- Indeterminate
- No CFRD

a. CFRD Complications

- None
- Diabetic Retinopathy
- Diabetic Microalbuminuria
- Other

i. If 'Other', please specify

Not known

b. CFRD Treatment

i. Was patient prescribed treatment for CFRD?

Yes No

If 'Yes',

- Dietary change
- Oral hypoglycaemic agents
- Intermittent insulin
- Chronic insulin

Cancer

6.2. Newly diagnosed cancer

Yes No

a. If 'Yes', Cancer type

i. If 'Other' please specify

Septicaemia

6.3. Septicaemia positive blood cultures

Yes No Not known

a. Septicaemia related to indwelling port catheter

Yes No Not known

Number of episodes

1st episode

Date

Not known

Culture identified

2nd episode

Not known

3rd episode

Not known

4th episode

Not known

5th episode

Not known

Haemoptysis

6.4. Haemoptysis massive, severe and/or moderate Yes No

a. Number of episodes ▼
 Not known

Massive/Severe/Moderate Haemoptysis episodes

	Type	Date	
1 st episode	▼	▼	<input type="checkbox"/> Not known
2 nd episode	▼	▼	<input type="checkbox"/> Not known
3 rd episode	▼	▼	<input type="checkbox"/> Not known
4 th episode	▼	▼	<input type="checkbox"/> Not known
5 th episode	▼	▼	<input type="checkbox"/> Not known

6.5. Haemoptysis scanty (<=5 mls in 24 hours) Yes No Not known

a. Number of episodes ▼

Chest tightness/wheezing

6.6. Acute chest tightness and/or wheezing related to medication Yes No Not known

a. Acute chest tightness and/or wheezing related to medications number of episodes ▼

	Date	Medication details
1 st episode	▼	▼
2 nd episode	▼	▼
3 rd episode	▼	▼
4 th episode	▼	▼
5 th episode	▼	▼

Cough Fracture

6.7. Cough fracture Yes No

a. Cough fracture number of episodes ▼

1 st date	▼	<input type="checkbox"/> Not known
2 nd date	▼	<input type="checkbox"/> Not known
3 rd date	▼	<input type="checkbox"/> Not known
4 th date	▼	<input type="checkbox"/> Not known
5 th date	▼	<input type="checkbox"/> Not known

Pulmonary

6.8. Pulmonary abscess Yes No

a. Number of episodes ▼
 Not known

1 st date	▼	<input type="checkbox"/> Not known
2 nd date	▼	<input type="checkbox"/> Not known
3 rd date	▼	<input type="checkbox"/> Not known
4 th date	▼	<input type="checkbox"/> Not known
5 th date	▼	<input type="checkbox"/> Not known

Cardiac

6.9. Are there any cardiac complications Yes No

If 'Yes', please tick all that apply

i. Arrhythmia type

- Arrhythmia
- Bradycardia Tachyarrhythmia

ii. Bradycardia options

a. HeartBlock

Yes No

b. Pauses

Yes No

c. Asymptomatic Bradycardia

Yes No

iii. Tachyarrhythmia options

- Atrial fibrillation
- Atrial flutter
- Paroxysm atrial tachycardia
- Ventricular fibrillation
- Ventricular flutter
- Other
- Ventricular tachycardia

a. If 'Other' please specify

-
- Cardiac arrest
 - Cardiomyopathy
 - Congenital heart disease
 - Heart failure
 - Ischaemic heart disease
 - Valvular disease
 - Other

Liver/ gall bladder (hepatobiliary)

6.10. Were there any liver / gall bladder complications (including gastrointestinal bleeds with varices as source) Yes No

a. Gall Bladder Disease

Yes No

b. Raised Liver Enzymes

Yes No

c. Liver disease

Yes No

If 'Liver disease', is it:

i. Cystic fibrosis related liver disease

Yes No

If 'CF related liver disease', are there any of the following additional findings:

1. Chronic liver Disease with no cirrhosis

Yes No

2. Cirrhosis with portal hypertension

Yes No

3. Cirrhosis with no portal hypertension

Yes No

4. Gastrointestinal bleeding from varices

Yes No

5. Hepatic Encephalopathy

Yes No

6. Oesophageal injection or banding

Yes No

ii. Other liver disease

Yes No

If 'Other liver disease', was it:

1. Acute liver failure (no underlying liver disease, ALT >3x ULN, INR > 2, not responsive to vitamin K)

Yes No

2. Acute hepatitis (ALT > 5 x ULN and duration of illness < 6 months)

Yes No

A. Infectious

Yes No

B. Drug induced liver disease

Yes No

i. Suspected drug

- Levofloxacin
- Not known
- Other

If 'Other', please specify

ii. Was a liver biopsy done?

- Yes No

If 'Yes', what were the results?

- Hepatitis
- Cholestatic
- Mixed
- Other

If 'Other', please specify

C. Other

- Yes No

If 'Other', please specify

D. Not known

- Yes No

Gut

6.11. Were there any Gut complications?

- Yes No

If 'Yes', check all complications that apply,

- DIOS (distal intestinal obstruction syndrome)
- Fibrosing colonopathy/colonic stricture
- Intestinal obstruction
- Gastro oesophageal reflux disease
- Gastrointestinal non varices as source
- Pancreatitis
- Peptic ulcer
- Rectal prolapse

Kidney / Renal

6.12. Any Kidney/Renal complications

- Yes No

If 'Yes', check all complications that apply,

- Hypertension
- Kidney stones
- Acute kidney injury (plasma creatinine >50% of ULN for age; requiring dialysis / intensive monitoring)
- Chronic kidney disease (Chronic renal failure)

Tendon

6.13. Any tendon complications

- Yes No

If 'Yes',

1. Tendon rupture?

- Yes No

2. Tendinitis?

- Yes No

3. Other tendinopathy?

- Yes No

Other complications

6.14. Any other complications?

- Yes No

If 'Yes', check all complications that apply,

- Arthritis
- Arthropathy
- Allergic Bronchial Pulmonary Aspergillosis (ABPA)
- Asthma
- Bone fracture
- Depression
- Hearing loss
- Admission to intensive care unit
- Paediatric intensive care unit
- Nasal polyps
- Osteopenia
- Osteoporosis
- Pneumothorax requiring chest drain
- Port inserted or replaced in current 12 month period
- Sinus disease
- Absence of Vas deferens
- Other (please specify)

i. If 'Other', please specify

7. Growth & Nutrition

NUTRITIONAL ASSESSMENT

- 7.1. Nutritional assessment carried out this encounter? Yes No
- 7.2. Seen by specialist CF Dietitian Yes No
- 7.3. Assessed for oral intake Yes No
- 7.4. Supplemental Feeding
- | | |
|---|--|
| <input type="checkbox"/> None
<input type="checkbox"/> Nasogastric
<input type="checkbox"/> Jejunal tube
<input type="checkbox"/> Yes but method unknown | <input type="checkbox"/> Oral
<input type="checkbox"/> Gastrostomy
<input type="checkbox"/> Parenteral
<input type="checkbox"/> Not known |
|---|--|
- 7.5. Does the patient take pancreatic enzyme supplements? Yes No Not known
- 7.6. Dose of Lipase (iu/kg per day) Not applicable
 Not known
- 7.7. Has the patient been on Oestrogen? Yes No Not known

PHYSIOTHERAPY

Airway clearance

8.1. Primary airway clearance

a. If 'Other', please specify

Secondary airway clearance

8.2. Secondary airway clearance (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> PEP | <input type="checkbox"/> Postural drainage | <input type="checkbox"/> Forced expiration |
| <input type="checkbox"/> Oscillating PEP | <input type="checkbox"/> VEST | <input type="checkbox"/> Exercise |
| <input type="checkbox"/> Active Cycle of Breathing Techniques | <input type="checkbox"/> High Pressure PEP | <input type="checkbox"/> Autogenic drainage |
| <input type="checkbox"/> Assisted autogenic drainage | <input type="checkbox"/> None | <input type="checkbox"/> Other |

i. If 'Other', please specify

Exercise

8.3. Has an exercise test been performed?

Yes No Not known

a. If 'Yes', check all that apply

- Submaximal
- Shuttle test
- Walk test
- Step test
- Other

i. If 'Other', please specify

Continence & Posture

8.4. Urinary incontinence

Yes No Not known

8.5. Faecal incontinence

Yes No Not known

8.6. Postural abnormality

Yes No Not known

Lifestyle

Smoking

9.1. Does the patient smoke cigarettes or other forms of tobacco?

9.2. Is the patient regularly exposed to second hand smoke?

Yes No Not known

Education

9.3. Current education level of patient

Marital status

9.4. Patients marital status

Employment

9.5. What is the patients employment status?

Full time Unemployed
 Part time Disabled

Student Not known

Pregnancy / Birth

9.6 Since the last annual review:

a. Has the patient or their partner been pregnant?

Yes No Not known

b. Was conception via IVF?

Yes No Not known

c. What was the outcome of the pregnancy?

d. Gestational age (weeks)

Not known

e. Congenital abnormality

Yes No

i. If 'Yes' please specify

- Anencephaly
- Meningomyelocele/Spina bifida
- Cyanotic congenital heart disease
- Congenital diaphragmatic hernia
- Omphalocele
- Gastroschisis
- Limb reduction defect (excluding congenital amputation & dwarfing syndromes)
- Cleft Lip with or without Cleft Palate

a. Down Syndrome

Yes No

i. Down Syndrome Karyotype

- Karyotype confirmed
- Karyotype pending

b. Suspected chromosomal disorder

Yes No

i. Suspected chromosomal disorder Karyotype

- Karyotype confirmed
- Karyotype pending

Outcome	
Death	
10.1. Has the patient died?	<input type="radio"/> Yes <input checked="" type="radio"/> No
a. Date of death	<input type="text"/>
i. Is date of death an estimate?	<input type="radio"/> Yes <input checked="" type="radio"/> No
b. Cause of Death	<input type="text"/>
If 'Cancer', please specify	<input type="radio"/> Bowel <input type="radio"/> Breast <input type="radio"/> Brain <input type="radio"/> Liver <input type="radio"/> Lung <input type="radio"/> Lymphoma <input type="radio"/> Pancreatic <input type="radio"/> Skin <input type="radio"/> Testicular <input type="radio"/> Other
Other	<input type="text"/>
10.2. Diagnosis reversed?	<input type="radio"/> Yes <input checked="" type="radio"/> No
a. Diagnosis reversal date	<input type="text"/>
b. Reason for reversal of diagnosis?	<input type="text"/>
i. If 'Other', please specify	<input type="text"/>
	<input type="checkbox"/> Not known
Transplants	
10.3. Since the last annual review:	
a. Has this patient been evaluated for transplant during the period since the last annual review?	<input type="radio"/> Yes <input type="radio"/> No
i. What was the outcome of the transplant evaluation?	<input type="radio"/> Accepted <input type="radio"/> Declined <input type="radio"/> Deferred
a. Date placed onto transplant list	<input type="text"/>
b. Received transplant since last annual review?	<input type="radio"/> Yes <input type="radio"/> No
i. Transplant date	<input type="text"/>
ii. Transplant centre	<input type="text"/>
iii. Transplant type(s)	<input type="text"/>
a. If 'Other', please specify	<input type="text"/>
Transplant Complications	
10.4. Within 12 months of surgery, select any complications suffered	
<input type="checkbox"/> None	<input type="checkbox"/> Bronchiolitis
<input type="checkbox"/> LymphoProlifDisorder	<input type="checkbox"/> Renal Failure
<input type="checkbox"/> Atypical Infection	<input type="checkbox"/> Other
	<input type="checkbox"/> Unknown
i. If 'Other', please specify,	<input type="text"/>