

British Association of Paediatric Surgeons Congenital Anomalies Surveillance System (BAPS-CASS)

Meconium Ileus in Association with Cystic Fibrosis

Data Collection Form

Details of treatment up to 28 days following surgery/disimpaction of the ileum

Case Definition:

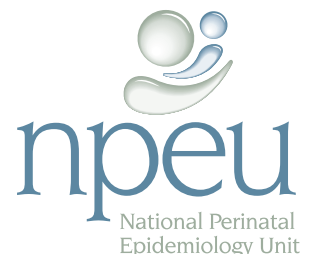
Any live-born infant presenting between 1st October 2012 and 30th September 2014 with Meconium Ileus in association with Cystic Fibrosis. This is defined as bowel obstruction caused by inspissated meconium in the terminal ileum.

Please return the completed form to:

**BAPS-CASS
National Perinatal Epidemiology Unit
University of Oxford
Old Road Campus
Oxford
OX3 7LF
Fax: 01865 617775
Phone: 01865 289714**



Case reported in: _____



Instructions

1. Please do not enter any personally identifiable information (e.g. name, address or hospital number) on this form.
2. Please record the ID number from the front of this form against the infant's name on the Clinician's Section of the blue card retained in the BAPS folder.
3. Fill in the form using the information available in the infant's case notes.
4. If codes or examples are required, some lists (not exhaustive) are included on the back page of the form.
5. Tick the boxes as appropriate. If you require any additional space to answer a question please use the space provided in section 8.
6. Please complete all dates in the format DD/MM/YY, and all times using the 24hr clock e.g. 18:37
- 7. If you do not know the answers to some questions, please indicate this in section 8.**
8. If you encounter any problems with completing the form please contact the Study Administrator or use the space in section 8 to describe the problem.

Section 1: Antenatal / Birth Data

- 1.1 What was the mother's year of birth?**
- 1.2 Please give the first alphabetical part of mother's postcode**
(e.g. OX for Oxfordshire, EH for Edinburgh, L for Liverpool)
- 1.3 Ethnic group^{1*}**
- 1.4 Gestational age at birth (completed weeks)**
- 1.5 Gender** male female indeterminate
- 1.6 Birthweight** g
- 1.7 Was Meconium Ileus suspected antenatally?** Yes No
If No, please go to 1.11
If Yes, at what gestational age (completed weeks)?
- 1.8 Which feature suggested the diagnosis? (tick all that apply)**
- | | |
|-----------------|--------------------------|
| Echogenic bowel | <input type="checkbox"/> |
| Pseudocyst | <input type="checkbox"/> |
| Fetal Ascites | <input type="checkbox"/> |
| Dilated bowel | <input type="checkbox"/> |
| Calcification | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |
- If Other, please specify _____
- 1.9 Was maternal polyhydramnios present?** Yes No
- 1.10 Is there a family history of cystic fibrosis?** Yes No
If Yes, please specify which relatives _____
- 1.11 Was an antenatal test for cystic fibrosis performed?** Yes No
- If Yes, please specify (tick all that apply)
- | | |
|--------------|--------------------------|
| Maternal DNA | <input type="checkbox"/> |
| Paternal DNA | <input type="checkbox"/> |
| Fetal DNA | <input type="checkbox"/> |

Section 2: Presentation

2.1 Age in days at first presentation to your hospital

 days

2.2 What was the date of presentation?

 / /

2.3 Was the infant transferred from another hospital?

 Yes No

If Yes, please specify hospital where the infant was born _____

2.4 Was the infant discharged home after birth and before diagnosis?

 Yes No

2.5 What features were apparent at presentation? (tick all that apply)

Bile stained vomiting

Non-bile stained vomiting

Abdominal distension

Failure to pass meconium

Peritonitis

Bowel obstruction

Other

If Other, please specify _____

2.6 Were there any associated anomalies?

 Yes No

If Yes, please specify _____

Section 3: Initial Investigations and Management

3.1 Was an abdominal x-ray performed?

 Yes No

If Yes, was there (tick all that apply)

Calcification Free air

Dilated bowel loops Soap bubble appearance Other

If Other, please specify _____

3.2 Was a contrast enema performed?

 Yes No

What features were noted? (tick all that apply)

Microcolon

Meconium plugs in colon

Meconium plugs in ileum

Contrast reached the ileum

Contrast reached proximal dilated bowel

Please complete table below: (continue in Section 8.5 if necessary)

Date of Contrast Enema	Type of Contrast used	Successful	Complications* ²
<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	
<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	

3.3 Did the infant receive enteral N-acetylcysteine?

Yes No

If Yes, Was N-acetylcysteine successful in disimpacting the terminal ileum?

Yes No

And please complete table below:

	Proximal gastrointestinal N-acetylcysteine (Nasogastric)	Distal gastrointestinal N-acetylcysteine (Per rectum)
Number of days used		
Volume (mls)		
Dilution (%)		
Frequency (times/day)		

3.4 What was the date of diagnosis?

/ /

Section 4: Initial Surgery

4.1 Did the infant have surgery?

Yes No

If No, please state reason for **not** having surgery _____

Now go to Section 5

If Yes, please continue.

4.2 What was the indication for surgery? (tick one only)

Failure of contrast enema

Failure of N-acetylcysteine to disimpact the terminal ileum

Complication of enema

Complicated Meconium Ileus

Other

If Other, please specify _____

4.3 What was the date of initial surgery?

/ /

4.4 What was the infant's weight at time of surgery?

g

4.5 What were the intra-operative findings? (tick all that apply)

Meconium obstruction in distal ileum (simple meconium ileus)

Perforation

Atresia

Volvulus

Meconium peritonitis

Meconium pseudocyst

Other

If Other, please specify _____

4.6 What surgical procedure was performed? (tick one only)

Intra-operative enterotomy and bowel irrigation

If So, what irrigation agent was used? _____

Resection and primary anastomosis

Resection and bowel irrigation

If So, what irrigation agent was used? _____

Resection and Enterostomy

Mikulicz double barrel ileostomy

Santuli procedure

Bishop Koop ileostomy

T-tube ileostomy

Terminal ileostomy and mucous fistula

Loop ileostomy

Other

If Other, please specify _____

4.7 Was any small bowel resected? Yes No

If Yes, what length of small bowel was resected? cm

What length of small bowel is remaining? cm

Proximal cm

Distal cm

Remaining bowel length unknown

Is the ileocaecal valve still present? Yes No

4.8 Did the infant receive N-acetylcysteine post-operatively? Yes No

	Proximal gastrointestinal N-acetylcysteine (Nasogastric)	Distal gastrointestinal N-acetylcysteine (Per rectum)
Number of days used		
Volume (mls)		
Dilution (%)		
Frequency (times/day)		

Section 5: Feeding at 28 days after surgery/ disimpaction

- 5.1** Was the infant still on parenteral feeds at 28 days? Yes No
- 5.2** Were enteral feeds started in first 28 days? Yes No
If Yes, please give date started / /
- 5.3** Did the infant progress to full enteral feeds in first 28 days? Yes No
If Yes, please give date started / /
- 5.4** Did the infant progress to full oral feeds in first 28 days? Yes No
If Yes, please give date started / /
- 5.5** What type of milk was being given? _____
- 5.6** Were any enteral nutritional supplements given? Yes No
If Yes, please specify, e.g. carbohydrate, protein, medium chain triglycerides

- 5.7** Is the weight at 28 days known? Yes No
If Yes, please give weight g

Section 6: Early Morbidity (28 days post initial surgery /disimpaction)

- 6.1** Did the infant develop a wound infection requiring antibiotics? Yes No Not applicable
- 6.2** Did the infant develop an anastomotic leak? Yes No Not applicable
- 6.3** Did the infant develop an adhesive bowel obstruction? Yes No
- 6.4** Did the infant develop a stoma complication? Yes No Not applicable
If Yes, please tick all that apply
- | | |
|---------------------------|--------------------------|
| Necrosis | <input type="checkbox"/> |
| Retraction | <input type="checkbox"/> |
| Prolapse | <input type="checkbox"/> |
| Parastomal skin breakdown | <input type="checkbox"/> |
| Parastomal hernia | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |
- If Other, please specify _____
- 6.5** Did the infant develop a further meconium obstruction? Yes No
- 6.6** Were there any other early (up to 28 days) complications? Yes No
If Yes, please specify _____
- 6.7** Were any further surgical procedures required in the first 28 days post disimpaction/post surgery? Yes No
If Yes, please specify _____

Date of surgery	Details of Further Surgical Procedure
<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>	

Section 7: Tests for Cystic Fibrosis

- 7.1 Did the infant have newborn IRT (Immunoreactive Trypsin) screening for cystic fibrosis?** Yes No
If Yes, did it confirm cystic fibrosis? Yes No
- 7.2 Did the infant have DNA testing for common CFTR (cystic fibrosis transmembrane conductance regulator) gene mutations?** Yes No
If Yes, was a recognised CFTR gene mutation identified? Yes No
If Yes, what was the genotype? (tick one only)
 F508/F508
 F508/other
 other/other
- 7.3 Did the infant have a sweat test performed?** Yes No
If Yes, did it confirm cystic fibrosis? Yes No

Section 8: Other information

- 8.1 Has the infant been discharged home?** Yes No
If Yes, specify date of discharge / /
- 8.2 Has the infant been discharged to another hospital?** Yes No
If Yes, please give name of hospital _____
Name of responsible consultant _____
Date of transfer / /
- 8.3 Did this infant die?** Yes No
If Yes, please give date of death / /
Cause of death as stated on the death certificate (please state if not known)

- 8.4 Were the parents given any of the following? (tick all that apply)**
- In-hospital produced information leaflets
 - Contact details for support groups
 - Information leaflets for support groups
 - Offer of Genetic Counselling appointment

8.5 Please add other relevant information below

Section 9:

Name of person completing the form _____

Designation _____

Today's date

D	D	/	M	M	/	Y	Y
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You may find it useful in the case of queries to keep a copy of this form.

Definitions

1. UK Census Coding for ethnic group

WHITE

- 01. British
- 02. Irish
- 03. Any other white background

MIXED

- 04. White and black Caribbean
- 05. White and black African
- 06. White and Asian
- 07. Any other mixed background

ASIAN OR ASIAN BRITISH

- 08. Indian
- 09. Pakistani
- 10. Bangladeshi
- 11. Any other Asian background

BLACK OR BLACK BRITISH

- 12. Caribbean
- 13. African
- 14. Any other black background

CHINESE OR OTHER ETHNIC GROUP

- 15. Chinese
- 16. Any other ethnic group

2. Complications:

- Perforation
- Hepatotoxicity
- Hypovolemic shock