

INOSS GLOSS STUDY

Study 01/17

Data Collection Form - CASE

Please report any pregnant woman or recently pregnant woman (up to 42 days after the end of pregnancy) who has received any investigation or treatment for presumed infection between 00.00 28/11/2017 and 24.00 04/12/2017 and who has been admitted for at least 12 hours.

The following are examples of women who would be expected to be included:

Those with clinical signs suggestive of infection

Those with a sample sent for culture for presumed infection

Those prescribed antibiotics or other antimicrobial at admission or during hospital stay except for prophylaxis at e.g. caesarean section or for GBS or 3rd or 4th degree tear or PROM.

AND/OR Any woman whose death is caused or aggravated by a suspected or confirmed infection.

Exclusion criteria. Women presenting with the following conditions will be excluded, unless they present with systemic repercussions due to infection:

- Any non-severe, localised, uncomplicated infection
 - Candidiasis, Bacterial vaginosis
 - Lower urinary tract infection
 - Fungal infections of the skin (athlete's foot, jock itch, ringworm, and yeast infections)
 - Otitis media
 - Pharyngitis
 - Herpes simplex, Herpes Zoster (Shingles)
- Any uncomplicated chronic infection without evidence of another acute infection
 - Sexually transmitted infections (Gonorrhoea, Syphilis, Trichomonas, Chlamydia, Hepatitis, HIV)
 - Tuberculosis
- Any colonisation (presence of microorganisms without clinical signs/symptoms)
 - Known GBS vaginal, urethral and/or rectal colonization
 - Asymptomatic bacteriuria
 - Known oropharyngeal colonization
- Any iatrogenic hypothermia/hyperthermia (e.g. related to epidural, thyroid storm, prostaglandin administration) during hospital stay;
- Use of any prescription of prophylactic antibiotics (e.g. for GBS colonization, after caesarean section, manual removal of the placenta, vaginal delivery);

Instructions

1. Please do not enter any personally identifiable information (e.g. name, address or hospital number) on this form.
2. Fill in the form using the information available in the woman's case notes.
3. Tick the boxes as appropriate. If you require any additional space to answer a question please use the space provided in section 8.
4. Please complete all dates in the format DD/MM/YY, and all times using the 24hr clock e.g. 18:37
5. If the woman has not yet delivered, please complete the form as far as you are able, excluding delivery and outcome information, and return to the INOSS Administrator. We will send these sections again for you to complete two weeks after the woman's expected date of delivery.
6. **If you do not know the answers to some questions, please indicate this in section 8.**
7. If you encounter any problems with completing the form please contact the GLOSS country coordinator or use the space in section 8 to describe the problem.

Section 1: Basic information

- 1.1 Age in years:
- 1.2 Living with partner: Yes No
- 1.3 Born in the country? Yes No Not known
If No, please specify country of birth: _____
- 1.4 Refugee/asylum seeker/internally displaced? Yes No
- 1.5 Total number of pregnancies (including current and including pregnancy in the last 42 days)
- 1.6 Number of fetuses in current pregnancy:
- 1.7 Total number of pregnancies leading to a birth at 22 weeks or greater gestation (excluding current and excluding childbirth in the last 42 days)
- 1.8 Height: cm
- 1.9 Most recent recorded weight in pregnancy: . kg
If height and weight are not available, please give BMI: .

Section 2: Diagnosis of infection

- 2.1 Date and time of arrival at hospital (or admission if arrival time not recorded) / / : 24hr
- 2.2 Date and time first met WHO criteria for suspected or diagnosed infection (as specified on front of form) / / : 24hr

2.3 At the time of first suspicion or diagnosis of infection, was the woman (Please tick one only):

Admitted from home Admitted from the emergency department
Transferred from another facility Already hospitalised in intensive care or high dependency unit
Already hospitalised in other ward Deceased

2.4 At the time of first suspicion or diagnosis of infection, was the woman (Please tick one only):

Pregnant, not in labour Pregnant, in labour
Postpartum (up to 42 days) Post Pregnancy loss or termination (up to 42 days)
If she was pregnant when infection was first suspected or diagnosed, what was the woman's gestational age? weeks days

2.5 Was the primary source of infection identified? Yes No

If No, go to question 2.6

If Yes, what was the primary source of infection? (Please tick one only)

Chorioamnionitis Endometritis Abortion-related uterine infection
Lower urinary tract Upper urinary tract (pyelonephritis) Respiratory (pneumonia, viral)
Breasts (mastitis/abscess) Skin (including wound infection)
Meningitis or central nervous system Infected cannula or line Other

If Other, please specify: _____

How was the source of the primary infection diagnosed? (Please tick all that apply)

Clinical examination alone Urine dipstick Other test (e.g. Malaria, HIV, TB, syphilis)
Imaging (x-ray, ultrasound, CT, MRI) Culture of any body fluid Other

If Other, please specify: _____

If culture, what was the source of the sample of the first positive culture? (Please tick one only)

Blood Urine CNS Wound swab Vaginal swab
Endometrial swab Other

If Other, please specify: _____

Date and time first sample was taken / / : 24hr

What organism (s) were identified? _____

Were any organisms antibiotic resistant? Yes No

If Yes, please specify resistance pattern, (e.g. methicillin-resistant staphylococcus aureus, extended spectrum beta-lactamase, carbapenem-resistant enterobacteriaceae)

2.6 Did the woman have any of the following in the 24 hours before or after meeting the WHO criteria? (Please tick all that apply)

Respiratory rate >25/min O₂ Saturations < 95% Temperature < 35°C
Systolic BP < 90mm Hg Heart rate > 120 BPM Failure to pass urine for > 18 hours
Change in mental state Diastolic BP < 40 mm Hg None of these

If Yes to any of the above, date and time first identified? / / : 24hr

Section 3: Outcomes

3.1 Did the woman have any of the following in the 14 days prior to first meeting WHO criteria for suspicion/diagnosis of infection? (Please tick all that apply)

- Abdominal pain (excluding contractions) Abnormal vaginal discharge
 Sore throat/cough Chest pain Dysuria Vomiting/diarrhoea Flu-like symptoms
 Mastitis Caesarean section wound infection Other infection None of these

If Other, please specify: _____

3.2 Did the woman have any of the following treatments during pregnancy? (Please tick all that apply)

- Any invasive procedure (amniocentesis/cordocentesis/chorionic villus sampling/cervical cerclage)
 Blood products/transfusion Corticosteroids Immunosuppressants
 Chemotherapy (for malignancy) None of these

3.3 Was the woman prescribed any of the following (for either prophylaxis or treatment) in the 14 days prior to first meeting WHO criteria for suspicion or diagnosis of infection?

- Antibiotics Antivirals Antifungals (excluding topical) None of these

If Yes to any, please specify drug prescribed, indication and whether for prophylaxis or treatment: _____

3.4 Did the woman receive any antibiotics to treat infection after meeting the WHO criteria?

Yes No

If Yes, please specify antibiotics received in table below (Tick all that apply)

	Start date	Stop date
Amoxicillin <input type="checkbox"/>	<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"/>
Ampicillin <input type="checkbox"/>	<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"/>
Azithromycin <input type="checkbox"/>	<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"/>
Benzyl-Penicillin <input type="checkbox"/>	<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"/>
Carbapenems <input type="checkbox"/>	<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"/>
Cephalosporin <input type="checkbox"/>	<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"/>
Ciprofloxacin <input type="checkbox"/>	<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"/>
Clindamycin <input type="checkbox"/>	<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"/>
Co-amoxiclav <input type="checkbox"/>	<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"/>
Doxycycline <input type="checkbox"/>	<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"/>
Erythromycin <input type="checkbox"/>	<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"/>
Gentamycin <input type="checkbox"/>	<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"/>
Metronidazole <input type="checkbox"/>	<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"/>
Piperacillin <input type="checkbox"/>	<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"/>

Piperacillin/tazobactam	<input type="checkbox"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>
Polymyxin B/Colistin	<input type="checkbox"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>
Vancomycin	<input type="checkbox"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>
Other, please specify _____	<input type="checkbox"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>	<input type="text" value="DD"/> <input type="text" value="DD"/> / <input type="text" value="MM"/> <input type="text" value="MM"/> / <input type="text" value="YY"/> <input type="text" value="YY"/>

What was the date and time the first dose of antibiotic was given?

/ / :

Were any samples taken for culture before antibiotic initiation?

Yes No

Section 4: Management of infection

4.1 Did the woman have any of the following to treat the source of infection? (Please tick all that apply)

- Laparotomy and washout Incision and drainage Caesarean section Hysterotomy
 Hysterectomy Vacuum aspiration Percutaneous drainage Wound debridement
 Culdotomy/Colpotomy Dilatation and curettage or evacuation of retained products
 Removal of infected cannula/line Other None of these

If Other, please specify: _____

Section 5: Delivery/pregnancy outcome

5.1 Date and time of delivery/miscarriage/termination:

/ / :

If undelivered, please go to Section 6

OR tick if undelivered

5.2 Place of delivery/miscarriage/termination (Please tick one only):

Home Before arrival/during transfer

At primary healthcare centre Public hospital Private hospital

5.3 Did this woman have a miscarriage, ectopic or termination?

Yes No

If Yes, was this: Spontaneous Induced medical Surgical Mixed methods
 Not indicated in case notes laparotomy or laparoscopy for ectopic

If No, was childbirth assisted by (Please tick one only):

Midwife Obstetrician Other physician Nurse

Other skilled birth attendant Traditional birth attendant Family member Other

Was labour onset: Spontaneous Induced medical

Induced surgical or mixed methods CS before labour onset

Was membrane rupture? (Please tick one only) Spontaneous OR Artificial

Date and time of membrane rupture / / :

*Follow-up women until discharge or 6 weeks after diagnosis of infection, whichever is earlier

Was amniotic fluid (*Please tick one only*):

Clear Meconium stained Purulent Blood-stained

5.4 Was there any evidence of retained products?

Yes No

If Yes, did this require any of the following? (*Please tick all that apply*)

Manual removal of the Placenta Curettage Medical management
None of these

5.5 Did the woman have any of the following? (*Please tick all that apply*)

PPH > 500ml (including post miscarriage or termination) Uterine rupture or perforation
Embolic disease (thrombo/air/amniotic) 3rd or 4th degree tear
Vulval or perineal haematoma Postpartum inversion of the uterus
Hysterectomy Anaphylaxis Other allergic reaction
Anaesthetic complication Post-op ileus/bowel obstruction None of these

Section 6: Maternal outcome

6.1 Status at end of follow-up (*Please tick one only*):

Discharged alive

Still in hospital, undelivered Still in hospital, after end of pregnancy Dead

If this woman died:

Date and time of death

/ / :
24hr

Cause of death as stated on the death certificate

Section 7: Infant outcomes

NB: If more than one infant, for each additional infant, please photocopy the infant section of the form (before filling it in) and attach extra sheet(s) or download additional forms from the website: www.npeu.ox.ac.uk/ukoss

7.1 Pregnancy outcome at end of follow-up* (*Please tick one only*):

Undelivered Ectopic Molar pregnancy
Miscarriage Termination Stillbirth Neonatal death Live birth

If stillbirth, neonatal death or live birth, what was the final mode of birth? (*Please tick one only*):

Spontaneous vaginal Instrumental vaginal Pre-labour CS
1st stage CS 2nd stage CS

If undelivered, ectopic, molar pregnancy, miscarriage or termination, please go to section 8

7.2 Birth order

7.3 Fetus presentation at delivery (*Please tick one only*) Cephalic Breech Other

7.4 Infant sex Male Female

7.5 Birthweight g

7.6 5 min Apgar score

7.7 Admitted to NICU? Yes No

If Yes, Date of admission / / Date of discharge / /

7.8 Transferred after birth to another hospital? Yes No

7.9 Suspected early neonatal infection? Yes No

7.10 Culture confirmed early neonatal infection? Yes No

If Yes, date of first positive sample / /

What organisms were identified (please specify)? _____

Were any organisms antibiotic resistant? Yes No

If Yes, please specify _____

Was the source of infection identified? Yes No

If Yes, please specify _____

Was the baby treated with antibiotics? Yes No

If Yes, please specify which antibiotics, and indicate whether these were used for longer than 48h: _____

7.11 Infant status at end of follow-up (Please tick one only)

Alive and healthy Alive with complications Died

If Died, date and time of death / / : :
24hr

Cause of death as stated on the death certificate

Section 8:

Please use this space to enter any other information you feel may be important

Section 9:

9.1 Name of person completing the form: _____

9.2 Designation: _____

9.3 Today's date: / /

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

Please return the completed form to:

For the UK:

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For The Netherlands:

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