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SECTION 1: SCREENING FORM

(Research Nurse/CSO to complete)

Inclusion Criteria

Please exclude if the answer is 'NO' to any of the following:

Aged before their fifth birthday?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Acute illness \leq 28 days?	<input type="checkbox"/> Yes <input type="checkbox"/> No
First time in DUTY study?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Ability of parent/carer to understand & give informed consent?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the child have any urinary tract or constitutional symptoms (generally unwell)? See questions below (* see also examples):	
Answer Yes to at least one of the screening questions to be eligible:	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Has the child been generally unwell (e.g. fever/feeling hot, generally not right, tired, irritable, crying more than usual, recently 'failing to thrive')?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Has the child had abdominal/loin pain or colic or vomiting or not eating/feeding as normal?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Has the child 'not been themselves' (e.g. clingy; not interested in what's going on; not playing well; low energy/tired; sleeping more or less than usual; irritable or not settling; crying more than usual)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Has the child had any changes relating to passing urine (e.g. pain, changes in frequency, changes in continence, changes in urine smell or appearance or blood noticed)	<input type="checkbox"/> Yes <input type="checkbox"/> No

Exclusion Criteria

Please exclude if the answer is 'YES' to any of the following:

Recently (\leq 28 days) or currently in any research study	<input type="checkbox"/> Yes <input type="checkbox"/> No
Presenting with trauma/injury as the predominant concern	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has taken oral or IV/IM antibiotics in the past 7 days*	<input type="checkbox"/> Yes <input type="checkbox"/> No
Currently taking systemic (oral/IV or IM) steroids for \geq 2 weeks (e.g. prednisolone or dexamethasone inhaled steroids are acceptable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Currently or recently (\leq 28 days) on chemotherapy or other immunosuppression (e.g. anti-rejection medications following renal transplant)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Current use of urinary catheter (including intermittent use within past month)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Previous bladder surgery	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spina bifida or neurogenic bladder	<input type="checkbox"/> Yes <input type="checkbox"/> No
Due to laboratory transport pick up times, urine sample would not have reached lab in the next 24 hours (e.g. Friday afternoon in GP surgeries).	<input type="checkbox"/> Yes <input type="checkbox"/> No

* Use of topical antibiotics does not exclude participation

Inclusion Criteria Examples for RNs/CSOs/clinicians*

- e.g. 1) well child with a sticky eye/ear but no other symptoms – exclude
- e.g. 2) child with sticky eye/ear who is crying more than usual – include
- e.g. 3) child with cough but no other symptoms – exclude
- e.g. 4) child with cough and fever, or cough and difficulty breathing – include
- e.g. 5) child with cough, no fever, but not feeding well – include
- e.g. 6) child with diarrhoea, no fever, no abdominal pain, eating normally – exclude
- e.g. 7) child with diarrhoea and fever/abdominal pain/reduced appetite – include

If the child satisfies all inclusion and exclusion criteria please continue to the next section



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SECTION 2: PARTICIPANT REGISTRATION FORM

(Research Nurse/CSO to ask parent/carer)

CRF Details

Date

/ /

D D / M M / Y Y Y Y

Time (24 hr clock)

:

RN/CSO Study ID

Consent obtained

Yes No

Recruited at own GP surgery?

Yes No

If No, please enter name of GP/surgery & address

Child's Details

First Name

Surname

Date of Birth

/ /

D D / M M / Y Y Y Y

Gender

Female Male

NHS Number

Carer's Details

First Name

Surname

Relationship to child

Mother Father Other

please specify:

Address

Postcode

Contact Telephone Number

Mobile Number

Contact Notes



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Ethnicity

Please describe your child's ethnic group?

White British Irish Any other White background

Mixed White & Black Caribbean White & Asian Any other Mixed background
 White & Black African

Asian or Asian British Indian Bangladeshi Any other Asian background
 Pakistani

Black or Black British African Caribbean Any other Black background

Chinese or Other Ethnic Group Chinese Any other

--

Prefer not to answer *please tick here*

Additional Social Economic Questions:

What is your highest level of qualification? *(Please cross one box only)*

- | | |
|---|--|
| <input type="checkbox"/> Degree (or equivalent) | <input type="checkbox"/> Diploma (or equivalent) |
| <input type="checkbox"/> 'A' level | <input type="checkbox"/> GCSE / 'O' level |
| <input type="checkbox"/> None | <input type="checkbox"/> Not given |

Other, please specify:

--

Thinking about the cost of living and how it affects your household which of the following would best describe your situation?

- | | |
|---|---|
| <input type="checkbox"/> find it a strain to get by from week to week | <input type="checkbox"/> able to manage without much difficulty |
| <input type="checkbox"/> have to be careful about money | <input type="checkbox"/> quite comfortably off |
| <input type="checkbox"/> Not given | |



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SECTION 3: CASE REPORT FORM

(Research Nurse/CSO to ask parent/carer)

Current Symptoms

How many days (including today) has your child been unwell?

Enter number (1- 28)

Compared to yesterday is your child same, better or worse?

 Same Better Worse

Please rate your overall impression of your child's current illness when at its worst from 0-10

0	1	2	3	4	5	6	7	8	9	10
Completely Well					Extremely Unwell					

For each symptom, score symptom when it was at its **worst during this illness**.

Symptom	Severity				
	No Problem	Slight Problem	Moderate problem	Severe problem	Don't Know/ NA
Child 'not themselves' (e.g.: clingy; not interested in what's going on; not playing well; low energy/tired; irritable or not settling; crying more than usual).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Confused or Disorientated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Disturbed sleep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fever at any time during this illness (fever is feeling hot or cold)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fever now or in the past 24 hours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chills or Shivering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
New generalised rash with this illness (not worsening of existing skin conditions)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nappy rash or similar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Muscle aches or pains all over	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Headaches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Refused feeds/eating less than normal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Poor weight gain or weight loss (in the last month)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vomiting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Diarrhoea (at any time)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Diarrhoea (in the past 24hrs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Constipation in the last week	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdominal pain/tummy ache/pulling up legs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DUTY: Diagnosis of Urinary Tract Infections in Young Children Study



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Symptom

Severity

	No Problem	Slight Problem	Moderate problem	Severe problem	Don't Know/NA
Passing urine more often	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any changes in urine appearance (darker, cloudy, smelly or blood)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If YES , please state:	<input type="checkbox"/> Darker	<input type="checkbox"/> Cloudy	<input type="checkbox"/> Smelly	<input type="checkbox"/> Bloody	<input type="checkbox"/> Other
If Other , please describe:	<input type="text"/>				
Pain/crying when passing urine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Day or bed wetting when previously dry *	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blocked or runny nose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cough	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Wheeze	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Short of breath, difficulty breathing or grunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chest pains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earache or holding ear/s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sore throat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
More unwell compared to similar previous illnesses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Any other symptoms	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	

If **YES**, please state:

* Not applicable for children wearing nappies day & night

DUTY: **D**iagnosis of **U**rinary **T**ract Infections in **Y**oung Children Study



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Past Medical & Family History

These questions relate to other medical problems your child has or has had in the past. There are also some questions concerning the pregnancy, birth and early life of the child.

Not counting today, approximately how many times has your child previously consulted a doctor or nurse for this episode of illness?

0 1 2 3 4 5 6 7 8 9 10 10+

Does your child have any on-going health problems? Yes No

If **YES**, please indicate:

asthma diabetes heart disease high blood pressure learning disabilities

other please specify:

Was the pregnancy full term for your child? Yes No

If **NO**, please indicate: Born Late Born Early If Early, estimate weeks:

Was your child breastfed? Yes No

If **YES**, for how long exclusively? < 3months ≥ 3months

Were you ever told that your child's kidney, bladder or urinary system was abnormal in any way after a pregnancy ultrasound scan? Yes No

If **YES**, please give details:

In boys ONLY – has your child been circumcised? Yes No

The next set of questions relate to your child and to close family members of your child (this includes mother, father and any brothers or sisters who are blood relatives of the child). We are asking these questions to see whether urine infections run in families.

Has your child or member of your family ever been diagnosed with vesico-ureteric or 'kidney' reflux? Yes No
 Don't Know

If **YES**, please indicate: Child Mother Father Sibling

Has your child or any member of your family ever been diagnosed or treated for urine infections? Yes No
 Don't Know

If **YES**, please indicate: Child Mother Father Sibling

Does your child or any member of your family have any other renal/urinary problem? Yes No
 Don't Know

If **YES**, please indicate: Child Mother Father Sibling

If **YES**, please give details:



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Medications

Is your child currently taking any medication?

Yes

No

If **YES**, please indicate:

laxatives

(e.g. lactulose, senna, modecol)

steroid inhaler

(e.g. clenil)

beta₂ agonist inhaler

(e.g. salbutamol)

antihistamine

(e.g. piriton)

paracetamol

ibuprofen

other medication (please provide details):

Toileting behaviour

Does your child use nappies/pull-ups?

Yes

No

If **YES**, please indicate:

Day

Night

Both

Approximately how many nappies/pull-ups has your child used in the last 24 hours?

Estimate number

How many times do you usually bath or shower your child in a normal week?

Estimate number

Examination

To be completed by Research Nurse/GSO or responsible clinician

Please tick here if child refuses to be examined

Temperature

· °C (range 35.0 – 42.0)

DUTY standard 'Thermoscan' thermometer used to check temp?

Yes No

If **NO**, please indicate:

infrared ear

digital auxiliary

other:

O₂ saturation

% (range 80 – 100%)

Pulse rate

(range 80 – 250 bpm)

Respiratory rate

(range 20 – 80 rpm)

Capillary refill time*

< 2 sec

2-5 sec

> 5 sec

* The Advanced Paediatric Life Support manual¹ recommends that this should be done by pressing on the sternum for 5 seconds and then recording the time it takes for the skin colour to change from white back to pink.

Has the child's responsible clinician been informed of these results?

Yes

NB: this must be done for all children



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Please examine all of the following in all children.

For each question, please indicate: 'normal' or 'abnormal'. If abnormal, tick all that apply.

Examination	Observations
-------------	--------------

Hydration Normal Some dehydration Severe dehydration *Not examined*

Conscious Level Normal Drowsy Irritable *Not examined*

General Normal Abnormal *Not examined*

If abnormal please tick all that apply:

Pallor Flushed Jaundice Distressed Lymphadenopathy

Other (please specify):

Throat Normal Abnormal *Not examined*

If abnormal please tick all that apply:

Red or Inflamed Swollen Quinsy Discharge or Pus

Other (please specify):

Ears Normal Abnormal *Not examined*

If abnormal please tick all that apply:

Pink Red or Bulging Fluid Level

Acute Perforation Chronic Perforation

Other (please specify):

Chest Normal Abnormal *Not examined*

If abnormal please tick all that apply:

Bronchial Breathing Unilateral Bilateral

Wheeze Unilateral Bilateral

Crackles Unilateral Bilateral

Recession Grunting Nasal Flaring

(any intercostal/subcostal/ supra-clavicular)

Other - please specify:

Abdomen Normal Abnormal *Not examined*

If abnormal please tick all that apply:

Mass or Organomegaly present *If Yes, please state:*

Loin Tenderness Suprapubic Tenderness

Other - please specify:



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Diagnosis and Planned Management Prior to Urine Dipstick Results

We would prefer if you answer these questions prior to seeing the urine dipstick results:

Are you currently aware of the urine dipstick results? Yes No

What is your working diagnosis?

- URTI chest infection bronchitis bronchiolitis pneumonia
 exacerbation of asthma
(infective or non-infective) tonsillitis otitis media pharyngitis
 UTI gastroenteritis viral illness
 other *please state*:

How certain are you of this diagnosis at this point?

- uncertain fairly certain certain very certain

Before seeing dipstick results, are you planning on treating this child with antibiotics?

- No Yes [for suspected UTI] Yes [for other reason]

If Yes: immediate script delayed script

Before seeing dipstick results, would you have referred this child to a paediatrician or admitted this child to hospital?

- No Yes [for suspected UTI] Yes [for other reason]
 N/A [recruited in ED]

If this child was **NOT** in the DUTY study would you have requested a urine sample?

- Yes No

DUTY: **D**iagnosis of **U**rinary **T**ract Infections in **Y**oung Children Study



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Actual Management

PLEASE COMPLETE THE NEXT QUESTIONS AFTER REVIEWING DIPSTICK RESULTS

Clinician Name

Clinician Profession

Doctor

Nurse

Has your working diagnosis changed?

Yes

No

If Yes, please indicate:

URTI

chest infection

bronchitis

bronchiolitis

pneumonia

exacerbation of asthma
(infective or non-infective)

tonsillitis

otitis media

pharyngitis

UTI

gastroenteritis

viral illness

other, please state:

How certain are you of your diagnosis?

uncertain

fairly certain

certain

very certain

Did you treat the child with antibiotics?

No

Yes [for suspected UTI]

Yes [for other reason]

If Yes: immediate script

delayed script

Please provide details of script:

[GP surgery only]

Was the child referred for same day urgent assessment in hospital?

No

Yes [for suspected UTI]

Yes [for other reason]

NA

[ED only]

Was the child admitted to hospital for this illness?

No

Yes [for suspected UTI]

Yes [for other reason]

NA



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SECTION 5: CASE REPORT FORM

(Research Nurse/CSO to complete)

Urine Collection

Was a urine sample provided before the child left the surgery /discharged from ED? Yes No *
 (* If 'No': ensure instructions are given to parent)

Which method was used to collect urine?

Clean Catch Nappy Pad Bag Catheter Suprapubic aspiration

Date child provided (passed) urine

/ /
 D D M M Y Y Y Y

Time child provided (passed) urine

: (24 hr clock)

If urine sample not provided, please give reason:

Dipstick Results

Please record dipstick information:

Urine Dipstick Tested: Yes No

Date urine tested:

/ /
 D D M M Y Y Y Y

Time urine tested:

: (24 hr clock)

Read Time ↑ 2 mins 30 secs	Leukocytes	<input type="checkbox"/> Negative	<input type="checkbox"/> Trace	<input type="checkbox"/> +	<input type="checkbox"/> ++	<input type="checkbox"/> +++		
	Nitrites	<input type="checkbox"/> Negative	<input type="checkbox"/> Positive	<input type="checkbox"/> +	<input type="checkbox"/> ++	<input type="checkbox"/> +++		
	Protein	<input type="checkbox"/> Negative	<input type="checkbox"/> Trace	<input type="checkbox"/> +	<input type="checkbox"/> ++	<input type="checkbox"/> +++	<input type="checkbox"/> ++++	
	pH	<input type="checkbox"/> 5.0	<input type="checkbox"/> 6.0	<input type="checkbox"/> 6.5	<input type="checkbox"/> 7.0	<input type="checkbox"/> 7.5	<input type="checkbox"/> 8.0	<input type="checkbox"/> 8.5
	Blood	<input type="checkbox"/> Negative	<input type="checkbox"/> Non-haem Trace	<input type="checkbox"/> Non-haem ++	<input type="checkbox"/> Haem Trace	<input type="checkbox"/> Haem +	<input type="checkbox"/> Haem ++	<input type="checkbox"/> Haem +++
	Specific Gravity	<input type="checkbox"/> 1.000	<input type="checkbox"/> 1.005	<input type="checkbox"/> 1.010	<input type="checkbox"/> 1.015	<input type="checkbox"/> 1.020	<input type="checkbox"/> 1.025	<input type="checkbox"/> 1.030
	Ketones	<input type="checkbox"/> Negative	<input type="checkbox"/> Trace	<input type="checkbox"/> +	<input type="checkbox"/> ++	<input type="checkbox"/> +++	<input type="checkbox"/> ++++	
	Glucose	<input type="checkbox"/> Negative	<input type="checkbox"/> Trace	<input type="checkbox"/> +	<input type="checkbox"/> ++	<input type="checkbox"/> +++	<input type="checkbox"/> ++++	

(SIEMENS – Multistix 8 SG)

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Sample Processing

Has the clinician taking responsibility for this child's care been informed of the dipstick results?

Yes
NB this must be done for all children

Has the urine sample been divided, labelled with DUTY stickers and sent to the usual local NHS laboratory AND the central DUTY laboratory?

Yes: sent to NHS lab only.
 Yes: sent to both labs.
 No: dipstick test only.

*NHS sample takes priority over the research lab sample if there is less than 2ml of urine.

Has the participant been given a £5 voucher?

Yes No

Please record Voucher serial number here: