



Invasive Group A Streptococcal Disease (iGAS) Case Report Form

C. LABORATORY INFORMATION						Panorama Data Entry Guidance
Specimen Collected	Collection Date <small>(YYYY/MM/DD)</small>	Result				Receive through E-Lab inbox or record in >Investigation >>Lab >>>Lab Quick Entry Attach histopathology reports in >Investigation >>Investigation Details >>>Links & Attachments Record Causative Agent in >Investigation >>Investigation Details >>>Disease Summary Record T-type and SOF in Causative Agent Further Differentiation field.
<input type="checkbox"/> Blood	_____	<input type="checkbox"/> Positive	<input type="checkbox"/> Negative	<input type="checkbox"/> Pending		
<input type="checkbox"/> CSF	_____	<input type="checkbox"/> Positive	<input type="checkbox"/> Negative	<input type="checkbox"/> Pending		
<input type="checkbox"/> Joint fluid	_____	<input type="checkbox"/> Positive	<input type="checkbox"/> Negative	<input type="checkbox"/> Pending		
<input type="checkbox"/> Deep tissue*, <i>specify:</i> _____		<input type="checkbox"/> Positive	<input type="checkbox"/> Negative	<input type="checkbox"/> Pending		
<input type="checkbox"/> Other*, <i>specify:</i> _____		<input type="checkbox"/> Positive	<input type="checkbox"/> Negative	<input type="checkbox"/> Pending		
* A histopathology report should be enclosed if the source of the specimen was not clearly a sterile site (blood, CSF, or joint fluid).						
<i>Streptococcus pyogenes</i> further characterization:						
emm: _____ T: _____		SOF: <input type="checkbox"/> Positive <input type="checkbox"/> Negative				
D. PHYSICIAN						
Physician Name: _____ <small style="margin-left: 100px;">Last</small> <small style="margin-left: 100px;">First</small>					Optional: Record in >Investigation >>Investigation Details >>>External Sources	
Physician Phone: (_____) _____ - _____ ext. _____						
E. CLINICAL PRESENTATION						
Onset of symptoms: _____ / _____ / _____ <small style="margin-left: 40px;">YYYY</small> <small style="margin-left: 40px;">MM</small> <small style="margin-left: 40px;">DD</small>						
Sign / Symptom	Yes	No	Asked but Unknown	Declined to Answer	Not Assessed	Record in >Investigation >>Signs and Symptoms Select "Set as Onset" and record onset date of the first symptom indicative of invasive group A Streptococcal disease. If infant affected in puerperal case, record in Transmission Event Quick Entry and link to case investigation for infant (Section M).
Arthritis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bacteremia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cellulitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Meningitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Necrotizing fasciitis/myositis/gangrene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pneumonia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Puerperal fever associated with pregnancy/labour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>If yes, was the infant affected?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown						
Septicemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Toxic shock syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other, <i>specify:</i> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



L. CASE DEFINITIONS

Invasive Group A Streptococcal Disease	Reportable?
<p>Confirmed case Laboratory confirmation of infection with or without clinical evidence* of invasive disease:</p> <ul style="list-style-type: none"> • isolation of group A streptococcus (<i>Streptococcus pyogenes</i>) from a normally sterile site (blood, CSF, pleural fluid, pericardial fluid, peritoneal fluid, deep tissue specimen taken during surgery [e.g. muscle collected during debridement for necrotizing fasciitis], bone or joint fluid excluding the middle ear and superficial wound aspirates [e.g. skin and soft tissue abscesses]). <p>When fetal demise occurs in association with puerperal infection, isolation of group A streptococcus from the placenta, amniotic fluid and/or endometrium is also considered confirmatory for both the mother and fetus.</p>	Yes
<p>Probable case Clinical evidence* of invasive disease in the absence of another identified aetiology and with non-confirmatory laboratory evidence of infection:</p> <ul style="list-style-type: none"> • isolation of group A streptococcus from a non-sterile site (non-sterile sites include: throat, sputum, bronchoalveolar lavage (BAL), vagina, superficial skin lesion, middle ear, or superficial abscess or wound specimens (e.g., aspirate or from incision and drainage)) OR • positive group A streptococcus antigen detection 	Yes
<p>Suspect case These are general classifications of cases included in the Panorama user interface. Cases that fall into these classifications are not reportable. Refer to Panorama documentation for definitions.</p> <p>Person under investigation</p> <p>Not a case</p> <p>Out of province Out of province cases should be notified to the BC Centre for Disease Control by to enable reporting to their home jurisdiction:</p> <ul style="list-style-type: none"> • By phone if immediate public health follow-up may be warranted <ul style="list-style-type: none"> ○ Weekdays - 604-707-2519 (Immunization and Vaccine Preventable Diseases Service) ○ Evenings and weekends - 604-312-9220 (nurse/physician on call) • By fax (604-707-2515) or e-mail (vpd.epi@bccdc.ca) if immediate action is not required 	No
<p>* Clinical evidence of invasive disease may be manifested as one or more of several conditions indicative of severe disease:</p> <ul style="list-style-type: none"> • streptococcal toxic shock syndrome • soft-tissue necrosis, including necrotizing fasciitis, myositis or gangrene • meningitis • fetal death and clinical evidence of maternal illness compatible with invasive group A streptococcal disease • death caused by iGAS <p>Notes regarding GAS pneumonia:</p> <ul style="list-style-type: none"> • Report GAS pneumonia in Panorama/PARIS as a confirmed case only when the isolate is from a sterile site (e.g. aspiration from an empyema, blood culture). • Providing no other cause has been identified, report GAS pneumonia in Panorama/PARIS as a probable case when the isolate is from sputum or a bronchoalveolar lavage (BAL), as sputum and BAL are not considered sterile site specimens. • When the GAS isolate is from sputum or a BAL, regard GAS pneumonia as a form of severe invasive disease for the purposes of public health management 	



M. PANORAMA DATA ENTRY DETAILS

If the **infant is affected in a puerperal case**, create a Transmission Event for the mother on the Exposure Summary screen (under Investigation on the left hand navigation) using the Transmission Event Quick Entry section.

Exposure Name: XXX-Vertical Transmission *where XXX is the Health Authority identifier (FNHA, IHA, VIHA, FHA, or NHA)*
Exposure Start: Infant's date of birth
Location Name: *same as Exposure Name*
Setting Type: Vertical transmission/congenital

Create a case investigation for the infant, with the infant's Acquisition Event linking to the mother's Transmission Event.

Training Materials (<https://panoramacst.gov.bc.ca>): [Exposures-Reference Guide-Investigations](#)

System Guidelines (<https://panoramacst.gov.bc.ca>): [Congenital/Neonatal/Vertical Transmission-Data Capture Guideline - Investigations](#), [Exposures-Data Capture Guideline-Investigations](#)

If the infection was **acquired in hospital**, create an Acquisition Event on the Exposure Summary screen (under Investigation in the left hand navigation) using the Create Acquisition Event button to get to the Maintain Acquisition Event Details screen.

Exposure Name: XXX-Nosocomial *where XXX is the Health Authority identifier (FNHA, IHA, VIHA, FHA, or NHA)*
Potential Mode of Acquisition: Airborne/droplet
Nature of Exposure: Nosocomial
Exposure Start: Admission date/date visited hospital or 7 days prior to onset of symptoms (*select the most recent*)
Exposure Location Name: *same as Exposure Name*
Exposure Setting Type: Facility - non-recreational
Exposure Setting: Hospital

Training Materials (<https://panoramacst.gov.bc.ca>): [Exposures-Reference Guide-Investigations](#)

System Guidelines (<https://panoramacst.gov.bc.ca>): [Exposures-Data Capture Guideline-Investigations](#)

If the case **lives in a communal setting or attends child care, school or university**, and follow-up of contacts from these settings is required, create a Transmission Event on the Exposure Summary Screen (under Investigation in the left hand navigation) using the Create Transmission Event button to get to the Maintain Transmission Event Details screen.

Exposure Name: XXX-NameOfFacility-[DiseaseName] *where XXX is the Health Authority identifier (FNHA, IHA, VIHA, FHA, or NHA)*
Exposure Start: 7 days prior to onset of symptoms
Exposure Location Name: *same as Exposure Name*
Exposure Setting Type: "Facility – non-recreational" or "Congregate/communal living settings"
Exposure Setting: most appropriate selection based on list filtered by Exposure Setting Type
Address: fill in details for facility

When required, create investigations for **close contacts** of **severe** iGAS cases (refer to [Communicable Disease Control Manual](#)). Contacts can be created as indeterminate clients until all required personal identifiers are known.

Training Materials (<https://panoramacst.gov.bc.ca>): [Exposures-Reference Guide-Investigations](#), [Maintain Client-Quick Steps-Shared Services](#)

System Guidelines (<https://panoramacst.gov.bc.ca>): [Exposures-Data Capture Guideline-Investigations](#)

Data Standards (<https://panoramacst.gov.bc.ca>): [Client Identification-Data Standard-Shared Services](#)

If the **outcome is fatal**, record as follows.

Outcome: Fatal
Outcome Date: Date of death (if known) or date at which user found out about fatal outcome (if date of death unknown)
Cause of Death: Select most appropriate response

After recording the outcome, inactivate the client in the Personal Information screen (under Subject > Client Details on the left hand navigation) following routine procedures/standards.

Note: If the outcome is **not fatal**, the outcome date is the date public health was made aware of the outcome.

NOTE: Additional relevant training materials and data standards are available on the Panorama Solution Partner Portal (<https://panoramacst.gov.bc.ca>).