

Safety Alert 006/23

Issue date 31 July 2023

Distributed to:

Chief Executives
Directors of Clinical
Governance

Director, Regulation and Compliance Unit

Action required by:

Chief Executives
Directors of Clinical
Governance

We recommend you also inform:

Directors, Managers and Staff of:

- Emergency
- Infectious Diseases
- Paediatrics
- General Medicine
- Maternity and Neonatal services
- Public Health Units
- Nursing

Other relevant staff, departments and committees

Deadline for completion of action – 2 August 2023

Expert Reference Group Content reviewed by:

A/Chief Health Officer Experts in Infectious Diseases

Paediatricians

Obstetricians

Neonatologists

Clinical Excellence Commission

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Review date July 2024

Updated: Clinician Alert - Invasive group A streptococcal disease

What is updated in the Safety Alert from SA:001/23?

The notice has been updated to include additional considerations for peripartum women and neonates (babies less than 28 days of age including newborns).

There continues to be increases in cases of invasive group A streptococcal (iGAS) disease observed in New South Wales, including in peripartum women. Clinicians are reminded to exercise caution when attributing symptoms such as fever, sore throat, or lethargy to a viral infection alone; do not ignore even subtle features of more severe disease.

As signs and symptoms of early sepsis may be subtle, concerns of any member of the treating team or family should be escalated, including through the <u>REACH</u> program. Early and aggressive treatment may be life-saving – this includes rapid escalation if any signs of secsis a deterioration may be very rapid. Refer to the <u>Sepsis Kills program for turner information</u>.

Increase in invasive GS Leas in NSW

Invasive group A streptococc I discuse (iGAS) is caused by infection with the bacterium streptococcus p, get as (also known as group A (beta-haemolytic) streptococcus (GAS) (r Strep A). GAS can cause a spectrum of disease from non-invasive infections, such as pharyngitis, impetigo, and scarlet fever, to invasive disease (iGAS) including bacteraemia and sepsis, streptococcal toxic shock syndrome, necrolising fasciitis, maternal sepsis, meningitis, bone/joint infections and the chonia.

New Sold, Wales continues to see high rates of iGAS diagnoses, amongst both coldres and adults over the last several weeks. At times this has closely followed viral illness, including influenza and RSV.

Cases for June and July 2023 (to 28 July) have surpassed the peak in Decr 2022 which prompted the previous alert. Notifications of maternal GAS sepsis are higher than in any other month since notification of iGAS commenced in September 2022, with a maternal iGAS death reported.

Who is at risk?

The overall risk of iGAS for the general population remains low. People most at risk of severe group A strep infections include:

- Adults over the age of 65, infants/young children, peripartum women
- Recent diagnosis of impetigo, pharyngitis, or scarlet fever
- People who have been in contact with someone with Group A streptococcal infection in the past 30 days.

Clinical picture

iGAS is a severe disease which can include bacteraemia and sepsis, streptococcal toxic shock syndrome, necrotising fasciitis, maternal sepsis, meningitis, bone/joint infections, and pneumonia. A person with iGAS can become very ill within 12 to 24 hours.



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Symptoms of iGAS vary depending on site of infection and are often non-specific. They may include:

- dizziness or light headedness
- nausea, vomiting, abdominal pain
- red, warm, painful, and rapidly spreading skin infection which may have pus or ulceration
- bleeding or purulent discharge from the vagina with or without lower abdominal pain can occur with maternal sepsis.

iGAS may initially be difficult to distinguish from a viral infection, however the persistence of these signs, the presence of multiple signs, or their extreme nature (e.g., very high fevers, severe muscle aches and tenderness, rapidly spreading and intense redness of the skin), signals likely serious bacterial infection rather than a common viral syndrome.

Specific considerations for children

Signs and symptoms of iGAS in children are non-specific but can include fever, erythematous sunburn-like rash (scarlet fever rash), cold or mottled limbs, limb pain, not wanting to walk, poor feeding, abdominal pain, vomiting, lethargy, throat infection, increased work of breathing, persistent tachycardia, and reduced urine output.

Specific considerations for peripartum women and neonetes

Signs of severe sepsis in peripartum women, particularly with confined or suspected iGAS, should be regarded as an obstetric emergency.

Where either a mother or neonate develops iGAS in the neonate policie, antibiotic prophylaxis should be offered to the other of the pair (and other neonates for multiplicatives) and commenced as soon as possible, in accordance with <a href="https://www.ncbi.nlm.nsive.org/ncbi.nl

It is important to consider the wellbeing of the fetus thile teating pregnant women with sepsis. Fetal monitoring should be performed in accordante with Maternity – Fetal Heart Rate Monitoring (GL2018 025).

Early birth may be indicated for the erefit of the forman and/ or the neonate.

Neonates under 10 days of age whose mothe has been admitted for sepsis (suspected or confirmed) must also be admitted and yidergo opinionate clinical review in accordance with *Clinical Determination for Boarder Baby Registrat* in (PD202 020).

For neonates equal to or greater than 10 days not requiring clinical care, separation of the mother and baby is not required.

Transmission

GAS bacteria are usually spread from one person to another by sneezing, coughing, or kissing. It can also spread by direct contact with other people with GAS on their skin, or from mother to baby during pregnancy and birth.

Some people carry GAS bacteria in their throat or on their skin and have no symptoms but can spread the disease.

Droplet precautions are recommended in caring for those with iGAS.

Clinical management

Clinicians should be alert for the signs and symptoms of iGAS and should thoroughly evaluate all patients with a clinically compatible illness.

Be alert to the patient, particularly an infant or child, who is more unwell than you would expect with a viral illness, or who had a viral illness and then becomes more unwell. A dual diagnosis with a common respiratory virus and iGAS is possible.





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Follow the appropriate sepsis pathway.

Where there is evidence of clinical deterioration, escalate as per the local Clinical Emergency Response System (CERS), in line with *Recognition and management of patient who are deteriorating* (PD2020_018).

Laboratory investigations of suspected iGAS cases should include:

- blood cultures,
- full blood examination
- and venous blood gas.

Management of suspected iGAS should include:

- · early fluid resuscitation
- empiric antibiotics (NB group A Streptococcus remains susceptible to beta lactams)
- urgent escalation to assess most appropriate location for management (e.g., ICU, in the case of children, retrieval to a specialist children's hospital).

Notification and Public Health intervention

Household contacts should be counselled and <u>provided written in small or garding</u> their increased risk of iGAS to ensure early intervention is taking place if a household member becomes unwell.

Management (including potential chemoprophylaxis) of household contacts should be discussed with infectious disease clinicians or other local experts.

If a clinician becomes aware of two or more cases in institution, such as residential aged care facilities, hospitals, or childcare centres within a three-month can be they should contact their local public health unit.

Further information

NSW Factsheet

https://www.health.nsw.gov.au/Infect. us/fac heets/Pages/Invasive-group-A-streptococcus.aspx

NSW control guideline

https://www.health.nsw.go_au/Infectl_us/controlguideline/Pages/invasive-group-a-strep.aspx

Required actions for the Local Health Districts/Networks

- 1. Distribute this Safety Alert to all relevant clinicians, clinical departments for awareness
- 2. Include this Safety Alert in relevant handovers and safety huddles
- 3. Notify your Public Health Unit of any suspected or confirmed clusters to facilitate management and prevent further transmission
- 4. Confirm receipt and distribution of this Safety Alert within 48 hours to cec-recalls@health.nsw.gov.au

