

## 2023 Changes to the Invasive Group A Streptococcus (iGAS) Toolkit

Document Name	2018 version (archived)	2023 version (current)
Updated GAS Antibiotic Recommendations for Decolonization	<ul> <li>Susceptibility wording not included</li> <li>Benzathine Penicillin + Rifampin described together based on weight</li> <li>Benzathine Penicillin dose for patients ≥27 kg lacked clarity (1 vs 2 doses)</li> <li>First generation cephalosporin dosage listed as 500 mg PO twice daily for 10 days</li> <li>GAS antibiotic resistance data not included</li> <li>No contact information provided for BOE contact with the decolonization of pregnant or lactating women footnote</li> </ul>	<ul> <li>Wording added to indicate that GAS is universally susceptible to beta-lactam antibiotics</li> <li>Benzathine Penicillin + Rifampin described separately to clarify that Rifampin dose is not based upon patient weight</li> <li>Wording added to clarify that Benzathine Penicillin is given in a single dose, regardless of patient weight</li> <li>First generation cephalosporin dosage changed to 25-50 mg/kg/day (maximum daily dose 1000 mg/day) in 2-4 divided doses for 10 days</li> <li>Wording added to include antibiotic resistance data from 2020</li> <li>Added BOE main number in the decolonization of pregnant or lactating women footnote</li> <li>Added CDC LTCF toolkit reference</li> </ul>
Transmission-based Precautions for Group A Streptococcal infection in Long-term Care Facilities	<ul> <li>Titled "Transmission-based Precautions for Group A Streptococcal infection in Long-term Care Facilities"</li> <li>Wording about enhanced barrier precautions not included</li> <li>No differentiation between infection and asymptomatic colonization</li> <li>Standard precautions for wounds that can be contained by dressings</li> <li>Precautions for wounds without dressing end after 24 hours of antimicrobial therapy</li> </ul>	<ul> <li>Titled "Transmission-based Precautions for Residents in Long-term Care Facilities with Group A Streptococcal (GAS) Infection or Colonization"</li> <li>Wording added to clarify use of enhanced barrier precautions</li> <li>Separated into 2 sections; one for infections and one for asymptomatic colonization with PPE recommendations based on infection site or specimen source respectively</li> <li>Contact, standard, and droplet precautions for wound, burn, skin infections and wound, ostomy, device-insertion site specimen sources</li> <li>Precautions for wounds, burns, skin infections and wound, ostomy, device-insertion site specimen</li> </ul>

GAS Investigation Algorithm: Investigation of Two Culture-Confirmed Cases of GAS Infection	<ul> <li>Titled "Investigation of Two Culture-Confirmed Cases of GAS Infection"</li> <li>Setting</li> <li>Identification of 2 invasive cases OR 1 invasive case + 1 noninvasive case. Does not explicitly state that individuals need to be symptomatic</li> <li>Symptom onset of 2<sup>nd</sup> case occurs within 3 months of the first case</li> <li>Identification of additional cases</li> <li>Monitor residents daily for symptoms of invasive OR noninvasive infections for 3 months from onset of most recent GAS case</li> <li>Identification of potential carriers</li> <li>Culture all residents, including those beginning treatment ≥1 month ago. This wording is not consistent within the algorithm</li> <li>Does not include recommendation to put colonized patients on transmission-based precautions</li> <li>Does not include recommendation to consider culturing epi-linked HCP for carriage or recommendation to exclude HCP from workplace until antibiotic administered for 24 hours</li> <li>Does not include test of cure recommendation</li> <li>Footnote only includes mention of targeted screening for residents</li> <li>Sites to culture include pharynx, skin lesions &amp; indwelling catheter sites (only if red/signs of infection)</li> </ul>	<ul> <li>Titled "Investigation of Two Culture-Confirmed Symptomatic Cases of GAS Infection"</li> <li>Setting*</li> <li>Identification of 2 symptomatic GAS infections with at least one invasive infection. Clarifies that new cases are in symptomatic individuals</li> <li>Symptom onset of 2<sup>nd</sup> case occurs within 4 months of the first case</li> <li>Identification of additional cases</li> <li>Monitor residents daily for symptoms of invasive OR noninvasive infections for 4 months from onset of most recent GAS case</li> <li>Includes recommendation to follow all single case recommendations</li> <li>Identification of potential carriers</li> <li>Culture all residents, except those on GAS treatment within last 14 days. Wording consistent throughout algorithm</li> <li>Recommendation to place colonized residents on appropriate transmission-based precautions</li> <li>Recommendation to exclude HCP from workplace until antibiotic administered for ≥ 24 hours</li> <li>Includes recommendation to consider culturing epi-linked HCP, except those on GAS treatment within last 14 days</li> <li>Includes recommendation to exclude HCP from workplace until antibiotic administered for ≥ 24 hours</li> <li>Includes recommendation to exclude HCP from workplace until antibiotic administered for ≥ 24 hours</li> <li>Includes recommendation to re-culture GAS carriers 7-10 days after finishing treatment</li> <li>Footnote includes mention of targeted screening for staff and/or epi-linked healthcare providers</li> <li>Sites to culture include pharynx, skin lesions, gastrostomy &amp; nephrostomy sites. Other insertion</li> </ul>
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GAS Investigation Algorithm: Investigation of Three or More Culture-Confirmed Cases of GAS Infection	Infection control         • Only includes recommendation to review hand hygiene, wound care, and respiratory care practices         • Titled "Investigation of Three or More Culture-Confirmed Cases of GAS Infection"         Setting         • Identification of ≥3 invasive cases OR 2 invasive cases + 1 noninvasive case. Does not explicitly state that individuals need to be symptomatic         • Symptom onset of 3 <sup>rd</sup> case occurs within 3 months of the first case         Identification of additional cases         • Monitor residents daily for symptoms of invasive OR noninvasive infection for 3 months from onset of most recent GAS case         Identification of potential carriers         • Re-culture all residents, treatment ≥14 days prior to identification of most recent case. This wording is not consistent within the algorithm         • Does not include recommendation to put colonized patients on transmission-based precautions         • Culture all healthcare workers, including those who completed treatment ≥14 days prior to identification of third case.	<ul> <li>red/signs of infection</li> <li><u>Infection control</u></li> <li>Includes recommendation to review and audit hand hygiene, wound care, and respiratory care practices</li> <li>Titled "Investigation of Three or More Symptomatic Culture-Confirmed Cases of GAS Infection"</li> <li><u>Setting</u>*</li> <li>Identification of 3+ symptomatic GAS infections with at least one invasive infection identified. Clarifies that new cases are in symptomatic individuals</li> <li>Symptom onset of 3rd case occurs within 4 months of the first case</li> <li><u>Identification of additional cases</u></li> <li>Monitor residents daily for symptoms of invasive OR noninvasive infection for 4 months from onset of most recent GAS case</li> <li>Includes recommendation to follow all single case recommendations</li> <li><u>Identification of potential carriers</u></li> <li>Re-culture all residents, except those on GAS treatment within last 14 days. Wording consistent throughout algorithm</li> <li>Recommendation to place colonized residents on appropriate transmission-based precautions</li> <li>Recommendations for healthcare worker screening are less conservative</li> </ul>
	<ul> <li>colonized patients on transmission-based precautions</li> <li>Culture all healthcare workers, including those who completed treatment ≥14 days</li> </ul>	<ul> <li>throughout algorithm</li> <li>Recommendation to place colonized residents on appropriate transmission-based precautions</li> <li>Recommendations for healthcare worker screening</li> </ul>
	<ul> <li>Does not include footnote for healthcare worker screening</li> <li>Does not include test of cure recommendation</li> </ul>	<ul> <li>treatment within last 14 days.</li> <li>Consider culturing all HCP, except those on GAS treatment within last 14 days</li> <li>Includes footnote indicating that healthcare provider screening recommendations are made in consultation with BOE</li> </ul>

	<ul> <li>Sites to culture include pharynx, skin lesions &amp; indwelling catheter sites (only if red/signs of infection)</li> <li><u>Infection control</u></li> <li>Includes recommendation to consider restricting visitors</li> <li>Includes recommendation to consider cohorting patients and staff</li> </ul>	<ul> <li>Includes recommendation to re-culture GAS carriers 7-10 days after finishing treatment</li> <li>Sites to culture include pharynx, skin lesions, gastrostomy &amp; nephrostomy sites. Other insertion sites (i.e., tracheostomy) should only be include if red/signs of infection</li> <li>Infection control</li> <li>Removes recommendation to consider restricting visitors</li> <li>Removes recommendation to consider cohorting patients.</li> <li>Includes recommendation to consider cohorting healthcare providers on affected units/floors</li> </ul>
One Case iGAS LTCF Letter Updated		Incorporates all appropriate changes from the single case algorithm references above
Two case letter template FINAL	<ul> <li>Includes recommendation to implement surgical mask use during all wound care</li> <li>Includes recommendation to improve influenza vaccine coverage</li> </ul>	<ul> <li>Incorporates all appropriate changes from the 2 and 3+ case algorithm references above</li> <li>Includes recommendation to implement surgical mask use during all wound care activities and when handling invasive medical devices for the duration of the outbreak</li> <li>Includes recommendation to improve influenza and COVID-19 vaccine coverage</li> </ul>

\*Note: CDC's toolkit includes only resident cases when considering if a facility has 2+ cases of GAS in a 4-month window. PADOH has not implemented this change and will consider cases in residents or staff.