## TOXIC SHOCK SYNDROME (TSS) INVESTIGATION FORM

☐ STAPHYLOCOCCAL TSS

☐ STREPTOCOCCAL TSS (*Group A* Streptococcus)

BASIC DEMOGRAPHIC DATA			
	<b></b>		
Last Name:	First Name:	Middle Name:	
DOB:/ Ag	e: 🗆 years 🗆 months Curi	rent Sex:   Female   Male   Unknown	
Is the patient deceased? ☐ No ☐ Unkn	own 🗆 Yes Date of Death: / _	/	
Street Address 1:		Street Address 2:	
Street Address 1.		Street Address 2.	
City:	State: Zip Code:	County:	
Home Phone: ()	Cell Phone: ()	Work Phone: () Ext	
Ethnicity: ☐ Hispanic or Latino ☐ Not H	lispanic or Latino 🗆 Unknown		
		N	
	☐ Asian ☐ Black/African American ☐	Native Hawaiian/Other Pacific Islander    White    Unk	nown
INVESTIGATION SUMMARY			
Investigation Start Date://_	Investigation Status:   Open  O	Closed Investigator:	
STREPTOCOCCAL TSS OTHER PATIEN	IT INFORMATION		
		The state of the s	
□ No health care cov	ice (HIS) ☐ Medicaid/state assistance progerage ☐ Other (specify)	gram	,,
Weight:lbsoz OR	kg <b>OR</b>	ght:ftin <b>OR</b> cm <b>OR</b> 🗆 Unkn	own
REPORTING SOURCE			
Date of Report:/	Reporting Source:		
CLINICAL			
Physician's Name:		Phone Number: () Ext	
		ital Name:	
Admission Date://	Discharge Date: / / /	Duration of Stay day(s)	
Diagnosis Date://	Illness Onset Date://	Illness End Date: / /	
Age at Onset: □ days □ ho	urs □ minutes □ months □ unknown □	weeks 🗆 years	
Did the patient die from this illness? ☐ N	lo □ Unknown □ Yes Date of Death:	://	
Streptococcal TSS (Group A St	reptococcus):		
Streptococcal TSS (Group A <i>St</i> Types of infection caused by organism:	reptococcus):		
Types of infection caused by organism:		☐ Peritonitis	
•	reptococcus):  □ Epiglottitis □ Hemolytic Uremic Syndrome (HUS)	☐ Peritonitis ☐ Pneumonia	
Types of infection caused by organism:	□ Epiglottitis		
Types of infection caused by organism:  Abscess (not skin)  Bacteremia without focus	☐ Epiglottitis ☐ Hemolytic Uremic Syndrome (HUS) ☐ Meningitis	<ul><li>□ Pneumonia</li><li>□ Puerperal sepsis</li></ul>	
Types of infection caused by organism:  Abscess (not skin)  Bacteremia without focus  Cellulitis	☐ Epiglottitis☐ Hemolytic Uremic Syndrome (HUS)	☐ Pneumonia	
Types of infection caused by organism:  Abscess (not skin)  Bacteremia without focus  Cellulitis  Chorioamnionitis	<ul> <li>□ Epiglottitis</li> <li>□ Hemolytic Uremic Syndrome (HUS)</li> <li>□ Meningitis</li> <li>□ Necrotizing fasciitis</li> <li>□ Osteomyelitis</li> </ul>	<ul><li>□ Pneumonia</li><li>□ Puerperal sepsis</li><li>□ Septic abortion</li></ul>	
Types of infection caused by organism:  Abscess (not skin)  Bacteremia without focus  Cellulitis  Chorioamnionitis  Conjunctivitis	<ul> <li>□ Epiglottitis</li> <li>□ Hemolytic Uremic Syndrome (HUS)</li> <li>□ Meningitis</li> <li>□ Necrotizing fasciitis</li> </ul>	<ul><li>Pneumonia</li><li>Puerperal sepsis</li><li>Septic abortion</li><li>Septic Arthritis</li></ul>	
Types of infection caused by organism:  Abscess (not skin)  Bacteremia without focus  Cellulitis Chorioamnionitis Conjunctivitis Empyema	<ul> <li>□ Epiglottitis</li> <li>□ Hemolytic Uremic Syndrome (HUS)</li> <li>□ Meningitis</li> <li>□ Necrotizing fasciitis</li> <li>□ Osteomyelitis</li> <li>□ Other (specify):</li></ul>	<ul> <li>Pneumonia</li> <li>Puerperal sepsis</li> <li>Septic abortion</li> <li>Septic Arthritis</li> <li>Streptococcal toxic-shock syndrome (STSS)</li> </ul>	

Sterile sites from which organism isolated <i>(Select)</i> :      Blood  Cerebral Spinal Fluid (CSF)  Join	nt			
Nonsterile sites from which organism isolated:   Amniotic f	fluid   Middle ear   Other	_ □ Placenta □ Sinus □ Wound		
Did the patient have any of the following underlying condition  AIDS  Alcohol abuse  Asthma  Atherosclerotic cardiovascular disease (ASCVD)/CAD  Burns  Cerebral vascular accident (CVA) stroke  Cirrhosis/Liver Failure  Cochlear implant  Complement Deficiency  CSF Leas (2° trauma/surgery)  Current smoker	Deaf/Profound hearing loss Diabetes Mellitus Emphysema/COPD Heart Failure/CHF HIV Hodgkin's Disease Immunoglobulin Deficiency Immunosuppressive therapy (steroids) IVDU Leukemia Multiple Myeloma	Nephrotic Syndrome None Obesity Organ Transplant: Other Malignancy: Other prior illness: Renal Failure/Dialysis Sickle Cell Anemia Splenectomy/Asplenia Systemic Lupus Erythematosus (SLE)		
EPIDEMIOLOGIC				
Streptococcal TSS (Group A Streptococcus):  If < 6 years of age is the patient in daycare (i.e., supervised group Daycare Name:  Was the patient a resident of a nursing home or other chronic Chronic Care Facility Name:  Is this case part of an outbreak?   No Unknown Yes  Staphylococcal TSS:  Is this patient associated with a day care facility?   No Unknown Yes	care facility at the time of first positive culture  If yes, outbreak name:  known  Yes Is this patient a food handler?	P No Unknown Yes		
Streptococcal & Staphylococcal TSS:				
Case Status:  Confirmed Not a Case Probable Sus	pect  Unknown MMWR Week:	MMWR Year:		
ADMINISTRATIVE  General Comments:				
PHA4 SUPERVISOR REVIEW				
Date Due:/ Investigation ready for supervisor review: _ Reviewed (Complete) _ Reviewed (Incomplete)  Date investigation ready for supervisor review:/ Reviewed (Not a case) _ Yes  Review comments (completed by supervisor):				
CONTACT ATTEMPTS				
Physician Contact Date(s):  1 <sup>st</sup> Attempt:// 2 <sup>nd</sup> Attempt  Patient Contact Date(s):  1 <sup>st</sup> Attempt:// Time:   Alternoon    1 <sup>st</sup> Attempt://   Alternoon   Alternoon    1 <sup>st</sup> Attempt:/   Alternoon   Alternoon    1 <sup>st</sup> Attempt:/   Alternoon   Alternoon    1 <sup>st</sup> Attempt:/   Alternoon	:// 3 <sup>rd</sup> Attempt:/ M	/		
Physician Contact Date(s):  1 <sup>st</sup> Attempt:// 2 <sup>nd</sup> Attempt  Patient Contact Date(s):	:// 3 <sup>rd</sup> Attempt:/ M	/		
Physician Contact Date(s):  1 <sup>st</sup> Attempt:// 2 <sup>nd</sup> Attempt  Patient Contact Date(s):  1 <sup>st</sup> Attempt:// Time:   Alternoon    1 <sup>st</sup> Attempt://   Alternoon   Alternoon    1 <sup>st</sup> Attempt:/   Alternoon   Alternoon    1 <sup>st</sup> Attempt:/   Alternoon   Alternoon    1 <sup>st</sup> Attempt:/   Alternoon	:// 3 <sup>rd</sup> Attempt:/ M	//		

CASE REQUIRMENTS
Streptococcal & Staphylococcal TSS:
Hypotension, based on lowest systolic blood pressure (SBP):
SBP ≤90 mmHg in adults: $\square$ No $\square$ Unknown $\square$ Yes OR SBP < 5 <sup>th</sup> percentile for children < 16 years: $\square$ No $\square$ Unknown $\square$ Yes
Rash:
Generalized erythematous macular rash (may desquamate): $\square$ No $\square$ Unknown $\square$ Yes
Coagulopathy:
Platelets ≤ 100,000/mm³: ☐ No ☐ Unknown ☐ Yes OR Disseminated Intravascular Coagulation (DIC): ☐ No ☐ Unknown ☐ Yes
Liver Involvement:
ALT/AST/Total Bilirubin ≥ 2x upper limit of normal: □ No □ Unknown □ Yes <b>OR</b>
Patients with existing renal disease > 2-fold elevation over baseline: $\Box$ No $\Box$ Unknown $\Box$ Yes
Streptococcal TSS (Group A Streptococcus):
Renal Impairment:
Adult creatinine ≥ 2 mg/dL: ☐ No ☐ Unknown ☐ Yes <b>OR</b>
Any age creatinine ≥ 2x upper limit of normal: ☐ No ☐ Unknown ☐ Yes <b>OR</b>
Patients with existing renal disease creatinine > 2-fold elevation over baseline: ☐ No ☐ Unknown ☐ Yes
Acute Respiratory Distress Syndrome (ARDS):
Acute onset diffuse pulmonary infiltrates (via CXR) and hypoxemia not caused by cardiac failure:   No Unknown Ves  OR
Diffuse capillary leak after acute onset generalized edema <b>or</b> pleural/peritoneal effusions with hypoalbuminemia: 🗆 No 🕒 Unknown 🗀 Yes
Soft-Tissue Necrosis:
Necrotizing fasciitis: ☐ No ☐ Unknown ☐ Yes <b>OR</b> Necrotizing myositis: ☐ No ☐ Unknown ☐ Yes <b>OR</b> Gangrene: ☐ No ☐ Unknown ☐ Yes
Staphylococcal TSS:
Renal Impairment:
Blood Uria nitrogen (BUN) or Creatinine ≥ 2x upper limit of normal: □ No □ Unknown □ Yes <b>OR</b>
Urinary sedimentation with pyuria (≥ 5 leukocytes/high-power field) in absence of urinary tract infection: □ No □ Unknown □ Yes
Gastrintestinal:
Vomiting or diarrhea at illness onset: ☐ No ☐ Unknown ☐ Yes
Muscular:
Severe myalgia: ☐ No ☐ Unknown ☐ Yes
Mucous Membrane:
Vaginal, oropharyngeal, or conjunctival hyperemia (redness): ☐ No ☐ Unknown ☐ Yes
High Fever:
High Fever (≥102.0°F): ☐ No ☐ Unknown ☐ Yes
STAHYLOCOCCAL TSS CULTURE INFORMATION  Was Staphylococcus aureus present in the vagina:   No Unknown Yes
If <i>S. aureus</i> present in vagina, is it resistant to penicillin and ampicillin only:
Was patient taking antibiotics when culture(s) performed:   No  Unknown  Yes
STAPHYLOCOCCAL TSS MENSTRATION INFORMATION  Dees the patient use tompones.   No.   Unknown   Ves.   Prond Most Frequently Used.
Does the patient use tampons: No Unknown Yes Brand Most Frequently Used:  Style of Brand Most Frequently Used: Style of Brand Most Frequently Used: Unknown
Style of Brand Most Frequently Used:   Junior/Slender   Regular   Super   Super-Plus   Unknown
How was information in this section verified:    Interviewer Viewing Product Box   Patient Viewing Product Box   Other:   Other:
Has patient had similar illness in past during menstrual period: $\Box$ No $\Box$ Unknown $\Box$ Yes $\Box$ If yes, how many episodes of similar illness:

STAPHYLOCOCCAL TSS CASE CLASSIFICATION Create ALNBS Toxic-shock syndrome, staphylococcal investigation				
1	Did the patient have a high fever (≥102.0°F)?	☐ No ☐ Unknown ☐ Yes		
2	Did the patient have a diffuse macular erythematous (red) rash?	□ No □ Unknown □ Yes		
3	Was there desquamation 1-2 weeks after rash onset (not required if patient dies before desquamation occurs)?	☐ No ☐ Unknown ☐ Yes		
4	Was the patient hypotensive, as defined within investigation?	□ No □ Unknown □ Yes		
5	Was multi-organ involvement characterized by at least 3 of the following, as defined within investigation?  □ Coagulopathy (platelets ≤ 100,000/mm³) □ Renal Impairment □ Liver Involvement □ Acute Respiratory Distress Syndrome (ARDS) □ Generalized Erythematous Rash □ Soft-tissue Necrosis	□ No □ Unknown □ Yes		
6	Were both laboratory results negative (if obtained)?  □ Blood and CSF cultures negative for everything but <i>Staphylococcus aureus</i> □ Rocky Mountain spotted fever, leptospirosis, or measles serologies	□ No □ Unknown □ Yes		
	Confirmed: 1 - 6 Probable: Any four combinations of	1 – 5 with 6 required		
	Confirmed: 1 - 6 Probable: Any four combinations of	1 – 5 with 6 required		
STI	Confirmed: 1 - 6 Probable: Any four combinations of Create ALNBS Streptococcal toxic-shock	·		
STI		·		
STI 1 2	REPTOCOCCAL TSS CASE CLASSIFICATION Create ALNBS Streptococcal toxic-shock	syndrome investigation		
1	REPTOCOCCAL TSS CASE CLASSIFICATION  Create ALNBS Streptococcal toxic-shock  Was the patient hypotensive, as defined within investigation?  Was multi-organ involvement characterized by at least 2 of the following, as defined with investigation?  □ Coagulopathy (platelets ≤ 100,000/mm³ or DIC)  □ Renal Impairment  □ Liver Involvement	syndrome investigation  No Unknown Yes		
2	REPTOCOCCAL TSS CASE CLASSIFICATION  Create ALNBS Streptococcal toxic-shock  Was the patient hypotensive, as defined within investigation?  Was multi-organ involvement characterized by at least 2 of the following, as defined with investigation?  □ Coagulopathy (platelets ≤ 100,000/mm³ or DIC) □ Renal Impairment □ Liver Involvement  □ Acute Respiratory Distress Syndrome (ARDS) □ Rash □ Soft-Tissue Necrosis	S syndrome investigation  No Unknown Yes  No Unknown Yes		
2	Was the patient hypotensive, as defined within investigation?  Was multi-organ involvement characterized by at least 2 of the following, as defined with investigation?  □ Coagulopathy (platelets ≤ 100,000/mm³ or DIC) □ Renal Impairment □ Liver Involvement □ Acute Respiratory Distress Syndrome (ARDS) □ Rash □ Soft-Tissue Necrosis  Does the treating physician feel this is a case of Streptococcal toxic-shock syndrome?	No Unknown Yes  No Unknown Yes  No Unknown Yes		