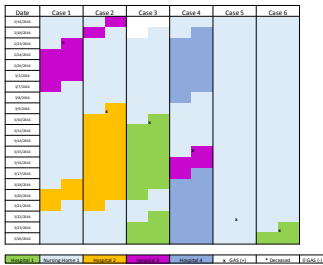


Outbreak of Group A Streptococcus in a Long-Term Care Facility - Illinois 2016

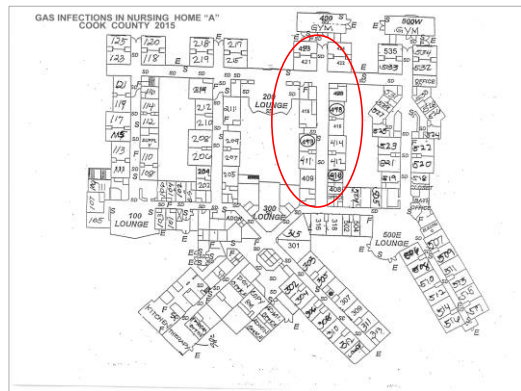
2017 CSTE Annual Conference
 June 4-8, 2017
 Boise, Idaho



Cluster of GAS reported in Feb-March 2016, LTCF A, Illinois



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Wound Care observation



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Wound Care Observation

V.A.C. (Vacuum Assisted Closure) Therapy, also known as NPWT (Negative Pressure Wound Therapy)



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Muscle Stimulation Therapy



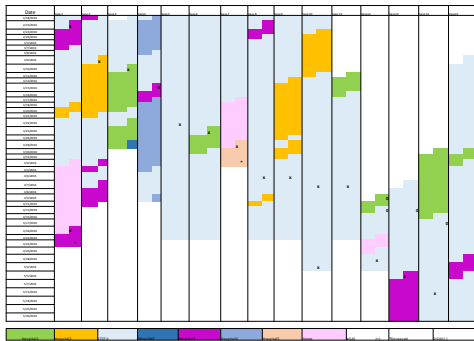
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Infection Control lapses



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Total GAS cases, LTCF A, Illinois 2016



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Case-Control study, LTCF A, Illinois 2016

- 15 case-residents: A patient with history of recent admission to LTCF A with a positive culture for GAS emm type 89.0
- 21 control-residents: A patient of LTCF A with a negative surveillance culture in wound, who did not develop infection at a later time.

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Characteristics of cases

- Chronic wounds
- V.A.C. and/or wound therapy
- DM, Morbid Obesity, HTN
- Gender: 59% female, 41% male
- Race: 59% AA, 41% Caucasian
- Age: Median 64 years old (48 to 82)
- # of days at Facility: Median 24 days (11 to 30)
- 57% of cases were invasive
- 2 fatalities were reported

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Characteristics of controls

- Chronic wounds
- DM, Morbid Obesity, HTN
- Gender: 43% female, 57% male
- Race: 62% AA, 38% Caucasian
- Age: Median 77 years old (25 to 97)
- # of days at Facility: Median 7 days (1 to 30)
- (-) GAS culture

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Case-Control study, LTCF A, Illinois 2016

Clinical characteristics	Cases N=15 (100%)	Controls N=21	Odds Ratio (95% confidence interval)	P (Fisher's exact test)
Resident received wound care therapy	N=15 (100%)	N=5 (24%)	∞ undefined	<0.001
Resident had VAC placement	N=14 (93%)	N=1 (4.8%)	280 (16.1 to >999.9)	<0.001

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Environmental cultures



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Environmental cultures



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Building an Infection Control Program

- APIC certified nurse has been contracted
- ABHS dispensers have been installed by the door of every room and other common areas
- Biohazard bags are now available in immediate treatment or care area
- All wound care therapy devices were removed from service and replaced by new ones
- Policies for cleaning and disinfection of wound care devices had been revised and improved according to manufacturer's recommendations
- Devoted devices for known carriers and cases
- Ongoing competency-based training
- Active surveillance

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