

Keeping Student Travel Healthy and Safe: Hot Topics and Effective Practices



Michael Ambrose, M.D.

July 2021



Background

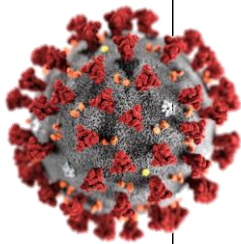
- Attended the University of Michigan Medical School and board-certified in pediatrics
- Practice in a pediatric emergency department at a community hospital in Ann Arbor, Michigan
- Published multiple youth health research studies through the American Academy of Pediatrics the World Association for Disaster and Emergency Medicine, the Society of Academic Emergency Medicine, and Pediatric Academic Societies
- Lead author of the American Academy of Pediatrics (AAP) national policy statement on *Improving Health and Safety at Camp*
- Medical expert for the COVID-19 Field Guide created by the American Camp Association (ACA) and YMCA
- Founder of DocNetwork, an Electronic Health Record (EHR) software company for camps and schools through the CampDoc and SchoolDoc platforms



Workshop Key Takeaways

- Designing Comprehensive Health and Safety Policies
- COVID-19 Screening, Testing, and NPIs
- Improving Health and Safety With Technology





POLICY STATEMENT Organizational Principles to Guide and Define the Child Health
Care System and/or Improve the Health of all Children

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™

Improving Health and Safety at Camp

Michael J. Ambrose, MD, FAAP;^a Edward A. Walton, MD, FAAP;^b COUNCIL ON SCHOOL HEALTH

The American Academy of Pediatrics has created recommendations for health appraisal and preparation of young people before participation in day, resident, or family camps and to guide health and safety practices at camp. These recommendations are intended for parents and families, primary health care providers, and camp administration and health center staff. Although camps have diverse environments, there are general guidelines that apply to all situations and specific recommendations that are appropriate under special conditions. This policy statement has been reviewed and is supported by the American Camp Association and Association of Camp Nursing.

BENEFITS OF THE CAMP EXPERIENCE

For more than 150 years, children have been attending camp.¹ Today, more than 14 000 day and resident camps exist in the United States, and approximately 14 million children attend day or resident camp supported by 1.5 million staff members.² When there is a successful match between a camp's philosophy, practices, and methods and a child's developmental, experiential, and temperamental readiness, abilities, and nature, the camp experience has been proven to have a lasting effect on psychosocial

abstract

^aSt Joseph Mercy Hospital, Ann Arbor, Michigan; and ^bAscension St John Hospital, Detroit, Michigan

Dr Ambrose conceptualized and designed the initial manuscript and revised the final manuscript; Dr Walton conceptualized and designed the initial manuscript, and both authors approved the final manuscript as submitted and agree to be accountable for all aspects of the work.

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from expertise and res
external reviewers. How
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organizations or govern

The guidance in this sta
of treatment or serve as
into account individual

All policy statements



Designing Comprehensive Health and Safety Policies



Health History Forms

HISTORY FORM 1
Developed and reviewed by: American Camp Association,
American Academy of Pediatrics Council on School Health, &
Association of Camp Nurses

Mail this form to the address below by _____ (date)

Dates will attend camp: from _____ to _____
Month/Day/Year Month/Day/Year

Camper Name: _____
First Middle Last

☐ Male ☐ Female Birth Date _____ Age on arrival at camp: _____
Month/Day/Year

To Parent(s)/Guardian(s): Please follow the instructions below. Attach additional information if needed.

- 1) Complete pages 1, 2 and 3 of this form (FORM 1) and make a copy.
- 2) Send the original, signed FORM 1 to camp by the requested date.
- 3) Complete the top of FORM 2 (CAMPER HEALTH-CARE RECOMMENDATIONS) and provide the copy of FORM 1 with FORM 2 to your child's health-care provider for review and completion.
- 4) After it has been completed and signed by your child's health-care provider, return FORM 2 to camp by the requested date.

Camper Home Address: _____
Street Address City State Zip Code

Parent/guardian with legal custody to be contacted in case of illness or injury:

Name: _____ Relationship to Camper: _____ Preferred Phones: () _____ () _____
Email: _____

Home Address: _____
(if different from above) Street Address City State Zip Code

Second parent/guardian or other emergency contact:

Name: _____ Relationship to Camper: _____ Preferred Phones: () _____ () _____
Email: _____

Additional contact in event parent(s)/guardian(s) can not be reached:

Name(s): _____ Relationship to Camper: _____ Preferred Phones: () _____

Allergies: ☐ No known allergies. ☐ This camper is allergic to: ☐ Food ☐ Medicine ☐ The environment (insect stings, etc.)
(Please describe below what the camper is allergic to and any special needs.)

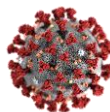
Diet/Nutrition: ☐ This camper eats a regular diet. ☐ This camper eats a regular vegetarian diet.
☐ This camper has special food needs. (Please describe below.)

Camper Name
 First
 Middle
 Last

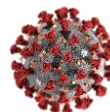


Health History Form Questions

- What questions should I ask?



- What about mental health questions?



- CDC Household Pulse Survey

www.cdc.gov/nchs/covid19/pulse/mental-health.htm

- How Right Now

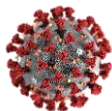
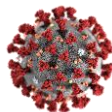
www.howrightnow.org

- What should I do with this information once I have it?
- Who can I share health history information with?



Medication Questions

- What is the definition of “medication” — does it include both prescription medication and over-the-counter drugs?
- What laws and regulations regarding medication management apply to my organization?
- How should I store medications?
- What about staff medications?



Immunization Questions

Manual Entry

Scan and Upload

Tetanus Booster (dT or TdaP)
Dose 1

Mar

2

2019

☐ Not received

COVID-19
Dose 1

Mar

7

2021

☐ Not received
Dose 2

Month

Day

Year

☐ Not received

Seasonal Influenza
Dose 1

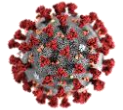
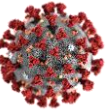
Nov

6

2020

☐ Not received

- What laws and regulations regarding immunizations apply to my program?
- What immunization requirements do my travel destinations have for those visiting?
- What is the bare minimum information I should collect?
- How should I handle travelers who are underimmunized or unimmunized? What about non-medical exemptions?



Before the Trip

- **Planning**
 - Communicable Disease Plan (CDP)
 - Supplies and PPE
 - Local Resources
- **Communication**
 - Goals and Expectations
 - Screening Process
- **Health History**
 - Staff and Travelers
 - Immunizations
- **Pre-Screening**



Prevention During the Trip

- **Drop-Off and Pick-Up**
- **Health Screening**
- **Training**
- **Review Illness Data Daily**
- **Communicable Disease Control Practices**



An Outbreak on the Trip

- Identify
- Activate
- Communicate
- Improve



COVID-19

Screening, Testing, and NPIs



CDC Guidance



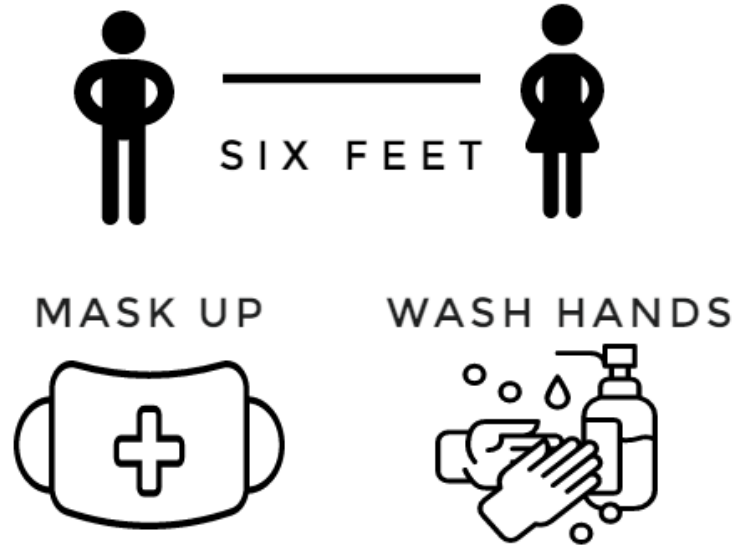
Fully vaccinated people can:

- Resume activities without wearing masks or physically distancing, except where required by federal, state, local, tribal, or territorial laws, rules and regulations, including local business and workplace guidance
- Resume domestic travel and refrain from testing before or after travel or self-quarantine after travel
- Refrain from testing before leaving the United States for international travel (unless required by the destination) and refrain from self-quarantine after arriving back in the United States
- Refrain from testing following a known exposure, if asymptomatic, with some exceptions for specific settings
- Refrain from quarantine following a known exposure if asymptomatic




What worked?

- Prearrival Quarantine
- Pre-Arrival Testing
- Post-Arrival Testing
- Symptom Screening
- Cohorts
- Face Coverings
- Physical Distancing
- Enhanced Hygiene Measures
- Cleaning and Disinfecting
- Outdoor Programming



When It Goes Wrong

AP Summer camps hit with COVID outbreaks — are schools next?



The U.S. has seen a string of COVID-19 outbreaks tied to summer camps in recent weeks in places such as Texas, Illinois, Florida, Missouri and Kansas, in what some fear could be a preview of the upcoming school year.

In some cases the outbreaks have spread from the camp to the broader community.

The clusters have come as the number of newly confirmed cases of the coronavirus in the U.S. has reversed course, surging more than 60% over the past two weeks from an average of about 12,000 a day to around 19,500, according to data from Johns Hopkins University.

The rise in many places has been blamed on too many unvaccinated people and the highly contagious delta variant.

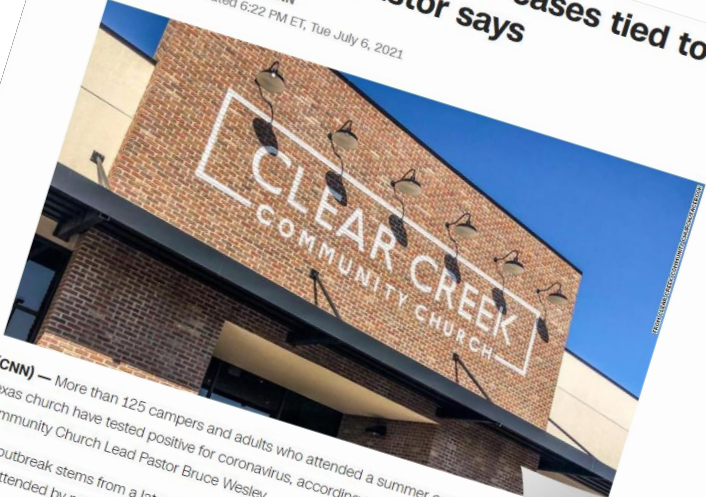
RELATED TOPICS

- Kansas
- Health
- Religion
- Texas
- Florida

CNN health Life, But Better Fitness Food Sleep Mindfulness Relationships

More than 125 Covid-19 cases tied to South Texas church camp, pastor says

By **Keith Allen, CNN**
Updated 6:22 PM ET, Tue July 6, 2021



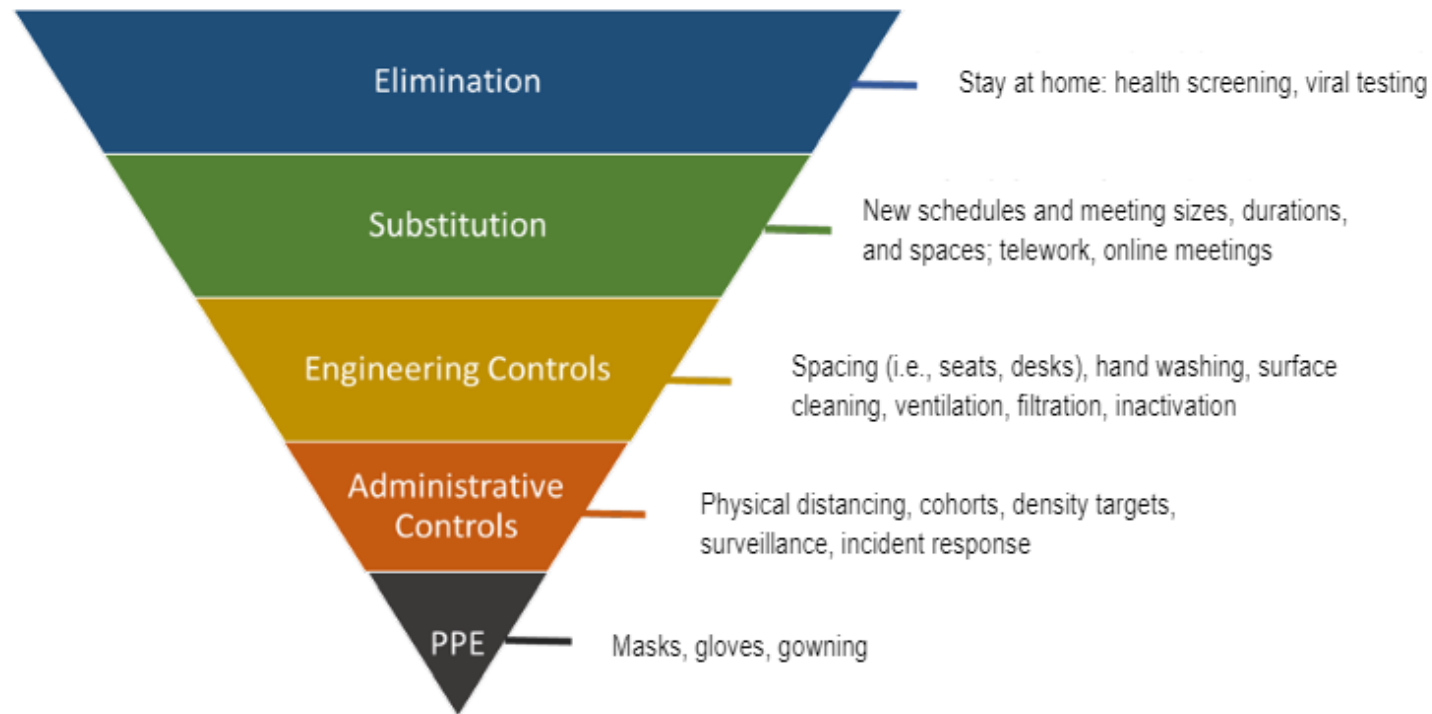
(CNN) — More than 125 campers and adults who attended a summer camp run by a Texas church have tested positive for coronavirus, according to a statement from Clear Creek Community Church Lead Pastor Bruce Wesley.

The outbreak stems from a late June Student Ministry Camp for sixth through 12th grade was attended by more than 450 people, county health officials said.

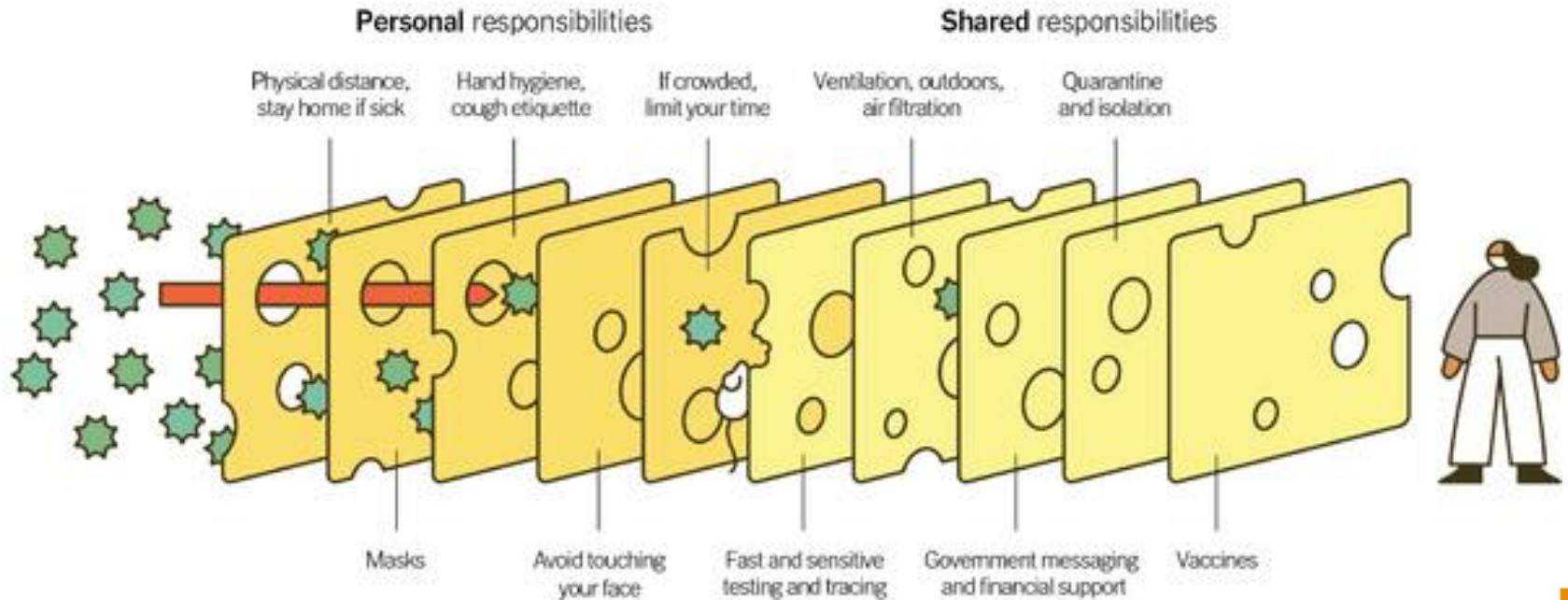
"Unfortunately, upon return from camp, 125+ campers and adults reported to us that they were positive for COVID-19. Additionally, hundreds more were exposed to COVID-19 at camp."



Hierarchy of Controls



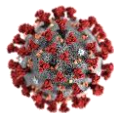
Swiss Cheese Defense



Source: Adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason. Illustration by Rose Wong



Pre-Screening



CampDoc Prescreening Form
Camp Maple

Rupert Abbott
Registration
Prescreening
Health Profile
Account
Protection Plan
CampGrams
Emergency Plan
Custom Labels
Trusted Contracts

+ NEW PARTICIPANT

Prescreening

Please complete all questions below before arriving at a job site. For the safety of your colleagues and the company, you must do so every day. Thank you for the help!

* Temperature

* Temperature Unit

* Have you experienced any COVID symptoms in the last 24 hours? **?**

Yes

No

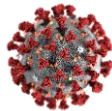
* Please select all COVID-19 symptoms you're experiencing at this time. **?**

RETURN HOME

SUBMIT



Screening



CampDoc New Health Log Entry
Camp Maple

Profiles

Groups

Medical Supplies

Health Log

View

New

Triage

Tracking Board

Statistics

Templates

eMAR

Attendance

* Patient

* Logged

@

* Chief Complaint

* History

* Temperature

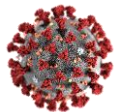
* Temperature Unit

RETURN HOME

SUBMIT



Tools



CampDoc Prescreening Reporting
Camp Maple

- Profiles
- Groups
- Finances
- Protection Plan
- Medical Supplies
- Health Log
- Prescreening**
- Reporting
- Template
- eMAR
- CampGrams
- Attendance

Prescreening

Browse Submissions

Created Date on 8 29 2020 x

ADD CONDITION EXPORT



Testing

Table 13.1 Adapted from U.S. Food and Drug Administration Coronavirus Testing Basics Fact Sheet			
	Molecular Test	Antigen Test	Antibody Test
Synonyms	PCR, RT-PCR diagnostic test, viral test, NAAT, LAMP	Rapid diagnostic test	Serological test, blood test, serology test
Sample collection	<ul style="list-style-type: none"> Nasal or throat swab Saliva 	Nasal or throat swab	Finger stick or blood draw
Time for results	Same day (some locations) or up to a week	One hour or less	Same day (many locations) or 1-3 days
Follow-up testing	Not usually	Without symptoms: <ul style="list-style-type: none"> Positive requires PCR Negative – none With symptoms: <ul style="list-style-type: none"> Positive – varies by state may require PCR Negative – requires PCR 	<ul style="list-style-type: none"> Most states require positive antibody tests be followed up with PCR to rule out current infection. Sometimes a second antibody test is needed for accurate results.
Test results	<ul style="list-style-type: none"> Active coronavirus infection. Past infection as much as 3 months ago. 	Active coronavirus infection.	Infected by SARS-CoV-2 in the past.
Test does NOT do	Show past SARS-CoV-2 infection.	Detect low viral loads which may occur during early stages of infection.	<ul style="list-style-type: none"> Diagnose active SARS-CoV-2 infection Cannot confirm that you did or did not have SARS-CoV-2
Note	Tests can remain positive weeks after infection due to continued shedding of viral RNA.	<ul style="list-style-type: none"> Tests approved by FDA generally are for use on symptomatic people, who likely have high viral loads. Use on asymptomatic people as a screening tool is essentially "off-label" application of the test. 	Does not diagnose infection.
Examples of tests	<ul style="list-style-type: none"> Lab Corp Quest Diagnostics Abbott IDNow Broad Institute 	<ul style="list-style-type: none"> Quidel Sofia 2 BD Veritor 	<ul style="list-style-type: none"> Thermo Fisher OmniPATH COVID-19 Total Antibody ELISA Test

- **Prescreening Testing**
Molecular
- **On-Site Screening**
Molecular/Antigen
- **Mitigation Testing**



Improving Health and Safety With Technology



Privacy and Security

- Tracking the receipt and reviewing paper records can be dangerous and even cause life threatening mistakes (e.g. illegible handwriting can lead to medication errors).
- Caring for travelers with a variety of medical and psychological issues seen in schools and cared for by general pediatricians (e.g. ADHD, asthma, diabetes).
- Children spend time with multiple caregivers and may be subject to frequent transitions during a trip, increasing the risks for dangerous errors.



Allergies

Sarah Abbott / Health Profile

Camp Arbor

Michael Ambrose

?

Allergies

* Does Sarah have food allergies?

☒ Yes

☐ No

New Food Allergy

* Allergic to...

Nuts, Peanuts

* Reactions

Wheezing Respiratory Difficulty Hives

* Risk for Anaphylaxis?

☒ Yes

☐ No

* Will Sarah be bringing an Epi-Pen to Camp Arbor?

☒ Yes

☐ No

CANCEL

SAVE ALLERGY

Sarah Abbott

Feb 6, 2005

Camper Information

Diet & Activity

Allergies

Medications

OTC Medications

Immunization Upload

Health History

Insurance

Healthcare Providers

Physician Form

Authorization

DATES

Due:

November 22, 2017

Lockout:

September 8, 2017

CONTACT

Susie Anderson

734-555-1000

susieanderson@email.com

PRINT

Medications

Sarah Abbott / Health Profile
Camp Arbor

Michael Ambrose

Sarah Abbott
Feb 6, 2005

- Camper Information
- Diet & Activity
- Allergies
- Medications
- OTC Medications
- Immunization Upload
- Health History
- Insurance
- Healthcare Providers
- Physician Form
- Authorization

Does Sarah take medications?

☒ Yes ☐ No

* Medication Name ?

Loratadine

* Strength ?

10 mg tablet

* Dose Quantity ?

1

* Dose Form ?

Tablet(s)

* Frequency ?

Daily

Times Given ?

☒ Breakfast ☐ Lunch ☐ Dinner ☐ Bedtime

☐ As Needed

* Dates to Give ?

Continuously

* Why does Sarah take this medication? ?

DATES

Due: November 22, 2017

Lockout: September 8, 2017

CONTACT

Susie Anderson
734-555-1000
susieanderson@gmail.com

PRINT

Medication Summary

Camp Maple

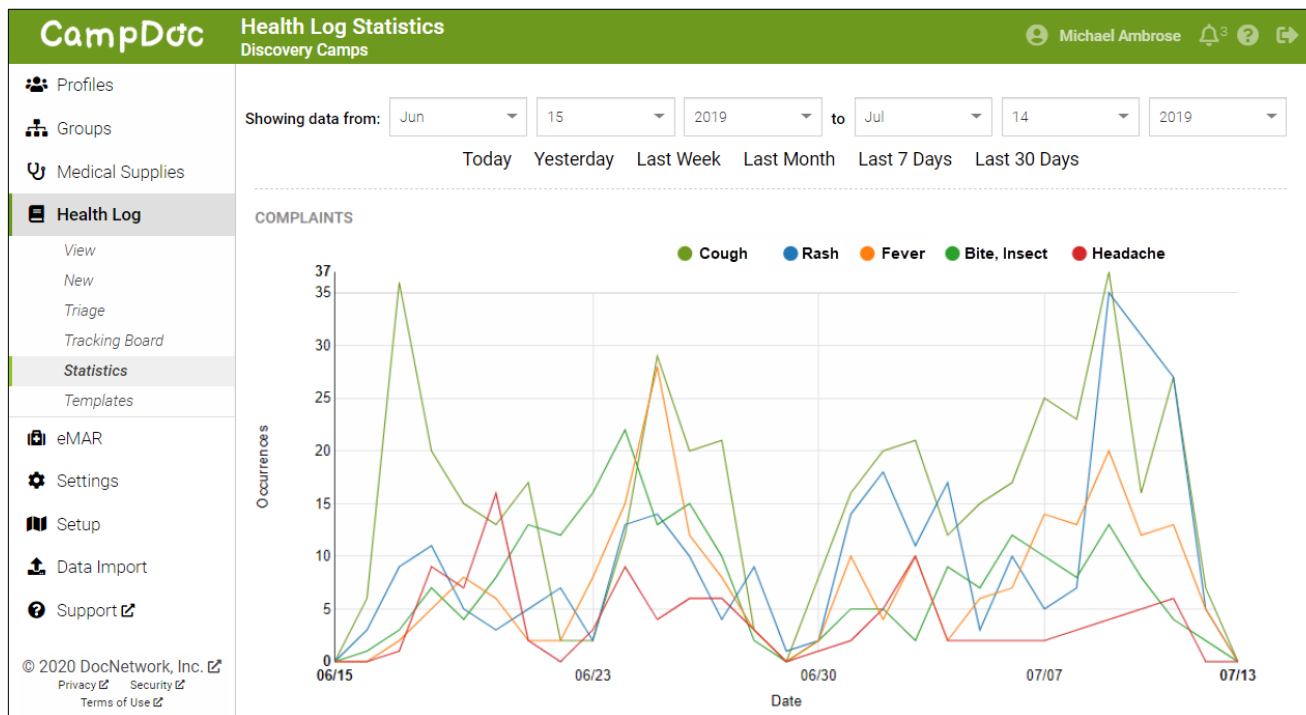
Filters Applied: Registration Type is Participant, Profile Status isn't Past, Medications has Medications

Requested By: Michael Ambrose

Created: Feb 13, 2020 at 8:58am (EST)

Overnight	
<ul style="list-style-type: none"> Aleman, Alan May 22, 1998 	<ul style="list-style-type: none"> Anders, John Jul 29, 2003
Breakfast	
<ul style="list-style-type: none"> Adam, Lisa Mar 28, 1993 Adams, Mary Jul 10, 2005 Aleman, Alan May 22, 1998 Allen, Christina Jan 19, 2005 Anchondo, Marvin Dec 23, 1993 Arnett, Richard Sep 28, 1999 Balsamo, Darren Feb 15, 2002 Bateman, James Mar 23, 2005 Bryant, Arthur Dec 7, 2004 Christmas, Jeffery Nov 24, 2007 Enright, Patricia Feb 23, 2004 Goodwin, Vivian Apr 7, 1996 Meyer, Alice Jul 17, 2003 Smith, Suzanne Aug 28, 1998 Zimmer, Bert Oct 29, 2001 	<ul style="list-style-type: none"> Adams, Eric Jun 17, 1988 Aguilar, Chase Mar 10, 2005 Allen, Adele Jan 19, 1997 Amar, Joel Nov 1, 2007 Anders, John Jul 29, 2003 Ashley, Rebekah May 23, 1998 Barco, Matthew Dec 11, 1998 Bluth, George Apr 5, 2006 Bryant, Kimberly Aug 21, 1997 Dunn, Matthew Nov 9, 2002 Feist, Johnathan Nov 1, 2000 Hudson, Decker Oct 28, 2013 Rhodes, Cynthia Stowd, L
Late Morning	
<ul style="list-style-type: none"> Anders, John Jul 29, 2003 	<ul style="list-style-type: none"> Baker, Elizabeth
Lunch	
<ul style="list-style-type: none"> Allard, Allyson Jul 27, 1993 Ang, Steve Nov 15, 2005 Balsamo, Darren Feb 15, 2002 	<ul style="list-style-type: none"> Anderson, E Ashley, Rel Goran, Al

Incident Reporting



THANKS!



Questions?

michael@docnetwork.org
734-619-8302

