

Invasive Meningococcal Disease (IMD) Update

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2016-17 SoCal Outbreak

- Largest known IMD outbreak among MSM in US
- 31 outbreak-associated cases
- Multiple local health jurisdictions
 - City of Long Beach
 - Los Angeles County
 - Orange County
 - Ventura County







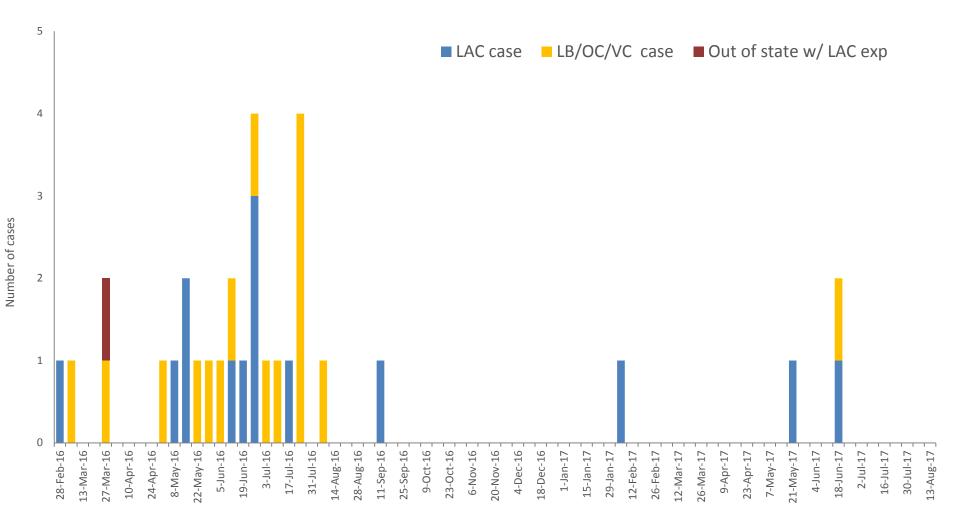
IMD Case Description (n=31)

Characteristic	Number (%)
Male	28 (90%)
MSM (% of males)	23 (82%)
Median age (range)	32 (17-76)
Hospitalized	30 (97%)
Known HIV infection	5/29 (17%)
Deaths	4 (13%)





Epidemic Curve







Symptoms and Hospital Stay of LAC cases (n= 14)

	2016-17 n (%)
Nausea or vomiting	10 (71)
Triad (fever, stiff neck, altered sensorium)	7 (50)
Length of hospital stay (days)	8 (6 – 95)





Clinical Presentation of Outbreak Cases

	Cases (n=27)
Meningococcemia	63%
Meningitis	37%





LAC Vaccine Recommendations

- All HIV-infected persons should receive:
 - 2 doses of the conjugate meningococcal (MenACWY)
 vaccine at least 8 weeks apart and a booster 5 years
 later* and every 5 years thereafter throughout life.
- All MSM who are not HIV-infected should receive:
 - single MenACWY vaccine dose (Menveo® or Menactra®)
 or a booster if the most recent dose was given ≥5 years
 ago.

Note: MenACWY vaccine is included on the AIDS Drug Assistance Program (ADAP) formulary.

^{*}If the most recent dose was received before age 7 years, the first booster dose should be administered 3 years after the initial dose and then every 5 years thereafter throughout life.



Provider Guidance

- Implement evidence-based practices to ensure completion of the 2-dose vaccination schedule for all HIV-infected persons.
 - Examples include reminder-recall or co-scheduling
 - Track completion rates
- Ensure MSM clinic staff are completely vaccinated
- Refer MSM for free MenACWY vaccine if vaccination is not feasible at their primary care provider



Vaccination Information

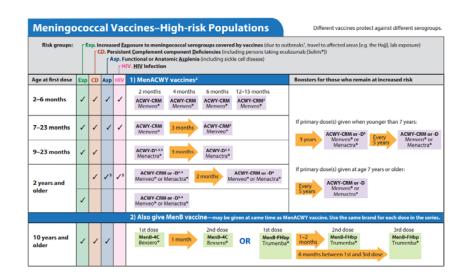
Meningococcal Vaccine Dosing and Schedule- updated CDPH chart describing timing of doses for high-risk populations

http://eziz.org/assets/docs/IMM-

1218.pdf

Free Meningococcal Vaccine for all uninsured/underinsured MSM in LAC. Find a location here:

http://www.publichealth.lacounty.gov/ip/Docs/meningitisclinics.pdf







Eculizumab CDC Health Advisory

- Eculizumab (Soliris®) commonly prescribed for treatment of
 - atypical hemolytic uremic syndrome (aHUS)
 - paroxysmal nocturnal hemoglobinuria (PNH)
- Patients receiving Eculizumab have 1,000-2,000 fold greater risk of IMD compared to general population
- ACIP recommends meningococcal vaccination for all patients receiving eculizumab
- Meningococcal conjugate (MenACWY) vaccine targets serogroups
 A, C, W, and Y, but provides no protection against nongroupable N. meningitidis
- Consider antimicrobial prophylaxis for duration of eculizumab therapy





Reporting

- Report <u>suspect cases</u> (positive Gram stain, don't wait until culture is positive) <u>immediately</u> to ACDC by phone:
 - (213) 240-7941 8am-5pm
 - (213) 974-1234 after hours
- Forms to complete and fax after the cal found here:
 - http://publichealth.lacounty.gov/acd/Diseases/EpiForms/MeningococcalDisRep.pdf

