HEPATITIS A OUTBREAK
SAN DIEGO COUNTY

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SANDAG

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Image: CDC
All Hepatitis A Cases, San Diego County
1994 - 2017*

Vaccine introduced

Routine vaccination for children in high-incidence states (including California)

Routine vaccination for all U.S. children

*Year to date. Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology & Immunization Services, 9/18/17
## Hepatitis A Outbreaks, United States 1995 - Present

<table>
<thead>
<tr>
<th>YEAR</th>
<th>LOCATION</th>
<th>METHOD OF SPREAD/SOURCE</th>
<th>#CASES</th>
<th>#HOSPITALIZATIONS</th>
<th>#DEATHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>PA &amp; OH</td>
<td>Food (Green Onions)</td>
<td>660</td>
<td>Unknown</td>
<td>3 (0.5%)</td>
</tr>
<tr>
<td>2016-17</td>
<td>SAN DIEGO</td>
<td>Close Person to Person Contact</td>
<td>444</td>
<td>305 (69%)</td>
<td>16 (3.6%)</td>
</tr>
<tr>
<td>2016</td>
<td>HAWAII</td>
<td>Food (Raw Scallops)</td>
<td>292</td>
<td>74 (25%)</td>
<td>0</td>
</tr>
<tr>
<td>2016-17</td>
<td>MICHIGAN</td>
<td>Close Person to Person Contact</td>
<td>190 (last public update)</td>
<td>Unknown (87%)</td>
<td>10 (5.2%)</td>
</tr>
<tr>
<td>2013</td>
<td>10 states</td>
<td>Food (Pomegranate Seeds)</td>
<td>165</td>
<td>71 (43%)</td>
<td>0</td>
</tr>
</tbody>
</table>
HEPATITIS A, SAN DIEGO

- 444 confirmed outbreak cases from 11/22/16 thru 9/14/17
  - 305 (69%) hospitalizations, 16 (3.6%) deaths
  - 306 (69%) male, 138 (31%) female
  - Age range 5-87 (median 43)

- Suspected Exposure Type
  - 152 (34%) homeless and illicit drug use
  - 74 (17%) homeless only
  - 56 (13%) illicit drug use only
  - 105 (24%) neither
  - 57 (13%) unknown
Other Liver Diseases

- 64/340 (18.8%) with hepatitis C
- 18/344 (5.2%) with hepatitis B

Not included in outbreak count – 26 travel-related cases

44 cases under investigation

Epi & viral sequence linked cases in other CA counties, UT, AZ, CO
March 3: Outbreak recognized
MANAGEMENT OF HEPATITIS A OUTBREAK

- Developed an Incident Command System to manage outbreak.
- Conducted case investigations, post-exposure prophylaxis, and surveillance (includes RTFH database).
- Worked closely with DEH on possible food sources and communication to partners. No food sources identified.
- Implemented plan focused on three **strategies:**
  - **Vaccinate, Sanitize, Educate**
- Requested CDC staffing support via CDPH on **May 2**nd. Two CDC epidemiologists stationed for 3 weeks.
- Met with HUD on **April 18**th, more recent meetings in **August** resulted in formal TA request and meeting on **September 14**th.
- Issued Directive to the City of San Diego on **August 31**st.
- Declared a local health emergency on **September 1**st.
28,235 total vaccines administered across the County as of Sept 16

- 12,874 given by County staff through field events (e.g., foot teams, mobile vans, and mass vaccination clinics), jails/detention centers, Tuberculosis Clinic, and the County Psychiatric Hospital.
- 15,159 provided by health care systems, federally qualified health centers, and pharmacists.
- 202 vaccinations provided as post exposure prophylaxis.

Implemented comprehensive strategies such as vaccinating at jail intake, Emergency Departments, substance use disorder treatment programs, homeless service providers, and partnering with Homeless Outreach Teams.
Sanitation of streets being conducted by City of SD

Disinfection guidance for indoor areas

- Food inspectors provided guidance information to operators during more than 6,200 inspections

- 3,657 hygiene kits distributed

- 45 handwashing stations placed

- 96 public restrooms available in City of San Diego
Handwashing station being used in downtown San Diego on 9/2 (Photo: San Diego Union Tribune)
City contractor cleaning a street in downtown San Diego on 9/11 (Photo: San Diego Union Tribune)
- Eight news stories, one press conference 9/19
- Seven CA Health Alert Network (CAHAN) notifications about the outbreak, eighth about Immune Globulin
- Partnership with 211 for general inquiries and resources
- Meeting with city leadership of affected jurisdictions
- Health care provider meeting 9/19
- Over 57 presentations given
- Flyers, FAQs, and more available on webpage: https://tinyurl.com/n8z6mf3
For more information contact:

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