Two types of cluster events in MAVEN for IHEs and Boarding Schools

- **Epi Cluster**: Refers to an epidemiologic cluster associated with an IHE or Boarding School
  - **Cluster Definition**: Two or more confirmed cases from different households with a shared exposure where close contact is known or suspected to have taken place among a group of five or more people
    - In dormitory settings, roommates are considered “household” members
- **Umbrella Cluster**: Refers to an organizational institution and is used to track the number of associated Epi Clusters by Institution; does not represent an actual cluster or outbreak.

Management of Disease Events, Epi Clusters, and Umbrella Clusters

- **LINK** cluster-associated disease events (i.e., individual people events) → Epi Clusters
  - The linked individuals do not have to have a formal association with the IHE/Boarding School (i.e., can be a visitor).
- **LINK** Epi Clusters → Umbrella Clusters
- **DO NOT LINK** disease events for individual people to Umbrella Clusters
  - Cases of COVID in students and staff of IHEs and Boarding Schools who are not found to be part of a cluster will not be linked to a cluster event (but should be linked to the index case who named them as contacts, if applicable).
  - Students/staff without any cluster association should not be linked to the institution’s umbrella cluster.
  - IHE/Boarding School association is assigned to individual disease events by completion of the Education Institution variable in Question Package 5. Risk/Exposure/Control & Prevention
Accessing Umbrella Clusters

On 8/29/2020, Umbrella Clusters were created in MAVEN for each IHE and Boarding School in Massachusetts

- Who has access to umbrella clusters, and how:
  - LBOH users: Access granted through “Affected town(s)” is in the Standard QP
  - IHE Contact Tracers: Access granted through “Education Institution” in the Standard QP
  - List of umbrella clusters located in MAVEN Help in the Higher Education folder

- How to find umbrella clusters:
  - A list is posted to the MAVEN Help section: [Link]
  - Umbrella Clusters were created using the naming convention:
    - SCHLU_[IHE/Boarding School Name]_[TOWN]
  - You can search using any keywords from the school name, or pull up all umbrella clusters you have access to by searching for SCHLU*
  - Remember to change “Type” from “Normal” to “Outbreak” in the first dropdown when searching for cluster events. (“Normal” is the default Type but will only find individual people events.)
Best Practices When Creating IHE and Boarding School Epi Clusters

- General cluster naming convention: SCHL_[School Name]_[Exposure Setting]_[Town]
  - Example: SCHL_BOSTONUNIV_CLUBBASEBALL_BOSTON
    - Note: Standard Epi Clusters associated with schools will not have a “U” in SCHL. The “U” is reserved for Umbrella Clusters only (see above).

- Required fields in the Standard QP:
  - **Education Institution**: Name of IHE or Boarding School
  - **Education Exposure Setting**: Drop-down list of possible Epi Cluster settings within an IHE/Boarding school (Dorm, Classroom, Party, Sports Team, etc.)
    - **Specify**: Detailed description of shared exposure among linked cases
  - **Affected town(s)**: Town of IHE/Boarding School, as well as any town whose LBOH users need access to the event

Don’t Forget about the Individual Cases Linked to Epi Clusters!

- Please complete the Demographic and Risk Question Packages of each cluster-associated disease event (each individual person event) to document the case’s association with the IHE/Boarding School
  - **Question Package 2. Demographic**
    - For students: Document occupation as student
    - For staff: Document employer information and occupation
  - **Question Package 5. Risk/Exposure/Control & Prevention**
    - For all cases, document school association in the question “Employed at, enrolled at, admitted to, or visited a group setting?” and by completing the “Education Institution” variables