

## Pertussis-specific training in Orpheus – Juventila Liko, 9/2/2015

- Creating a case from ELR

Juventila created fake pertussis case Kitty A. Koffer starting with an ELR.

**Kitty A Koffer**    DOB: 05/07/15    OF    Jackson C Pertussis    Onset 9/1/15    SP ID 447273

Basics | Labs 1 | Clinical | Risks | Followup | Epilinks | Contacts 4 | Notes | Vaccine | More

**ELR - Electronic Lab Reports**

Laboratory: Providence Health and Services    Collection Date: 08/15/2015    Specimen Type: NP Swab    Test Type: PCR    Result: Positive

Acc: 000002015112233    OSPHL

List of Results: ABC-State Only    Create Manual Lab

Specimen Date: 08/15/2015    Lag: 5 days  
Specimen Source/Site: Resp

**Test:**  
**Results:**  
Test: Bordetella pertussis PCR Result: Positive

----- Other Details -----  
Patient Name: Koffer, Kitty A  
DOB: 01/07/2014    Sex: F  
Address: 1234 MAIN STREET  
BLACK CITY, OR 97503  
Phone: 541-555-5555

Provider: Cieslak, Paul

Sending Facility: Providence Health and Services Laboratory

Ordering Facility: Providence Health Systems  
Providence Health System 1235 NE 47th Suite 102  
Portland Portland 97213  
Accession: 0000020151122333

ELR Laboratory	Collection Date	SpecimenType	Test Type	Result
Providence	8/15/15	NP Swab	PCR	Positive

Do your best to fill out as much as possible on the basics tab, especially occupation and worksite.

**Case Entry**    Development

**Kitty A Koffer**    DOB: 05/07/15    OF    Jackson C Pertussis    Onset 9/1/15    SP ID 447273

Basics | Labs 1 | Clinical | Risks | Followup | Epilinks | Contacts 4 | Notes | Vaccine | More

**Identifiers** (first, middle, last)    Person

Kitty A Koffer  
1234 Main St  
White City OR 97503  
JACKSON Special Housing  
Type 541-555-5555 9/2/15  
Type Phone Number

Email or alternate contact info

**Demographics**

DOB 5/7/2015    Race  White  Black  Asian  Pacific Is.  AI/AN  Unknown  Refused  Other

Age .27 years 3 months    Sex  F  M

Lang Language    Born Country of Birth  Refugee

Work Worksite / School    Occ Attends daycare

**Pertussis**    Status Confirmed

Onset (Any cough) 9/1/2015  
Interviewed  Yes  No  
Reason  
Who Parent  
Final Interview Date 9/9/2015

MAPS CDC Case Status Confirmed

Doctor Visits    Antibiotic    Tested for Pert.  
# Date Y N U Y N U

Lab Testing Done?  Yes  No  Unk  
Is a laboratory sample available?  
 Yes, isolate  
 Yes, specimen/DNA  
 Yes, isolate and specimen/DNA  
 No

Vaccinated?  Yes  No  Unk  
Number of Vax. doses  
Number of contacts AB rec.  
Number of people in HH  
Pregnancy Status

**Providers, Facilities & Labs**    Provider

Reporter  Cieslak, Paul Raymond ELR  Providence Health and Services Lab-ELR

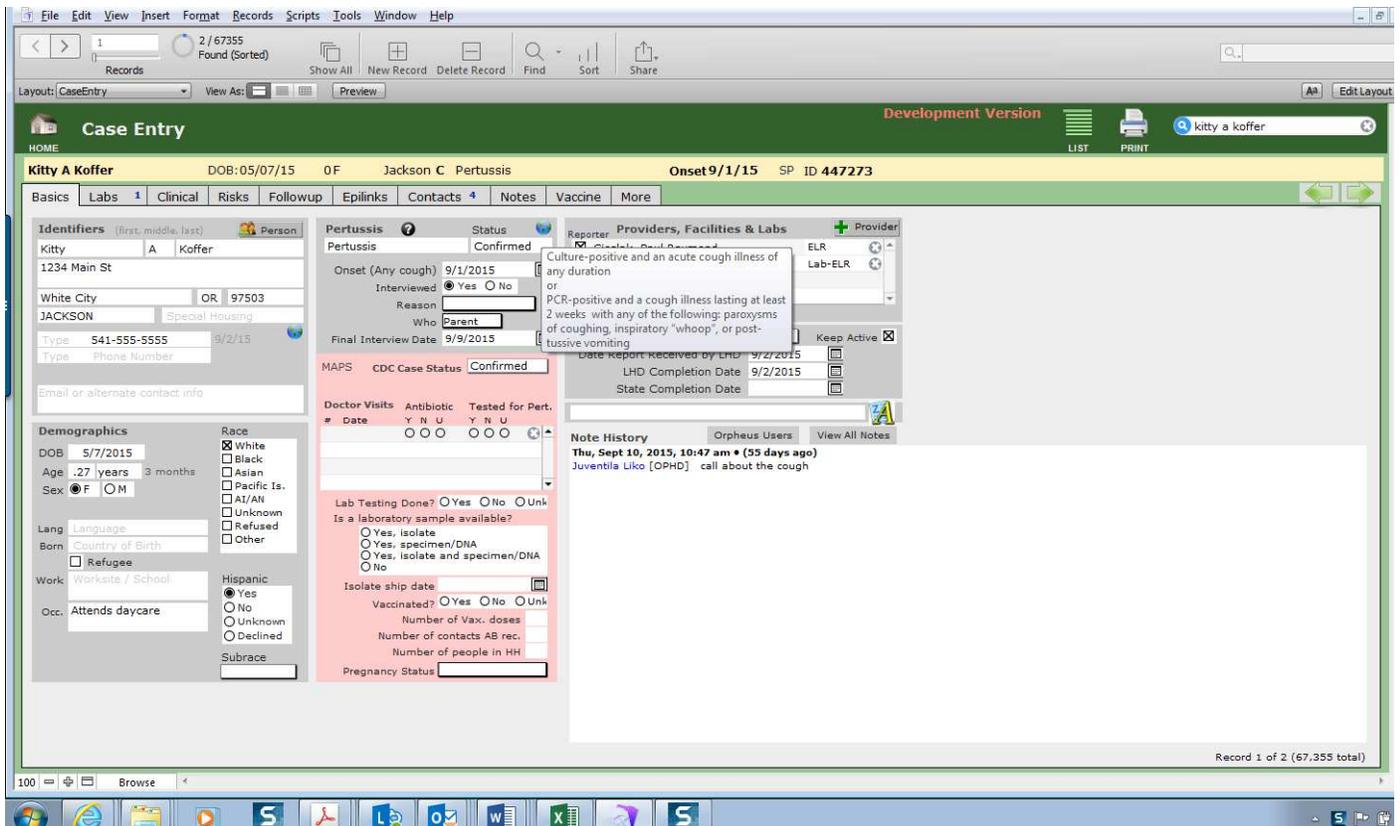
OK to contact Patient

Local Epi Juventila Liko    Keep Active

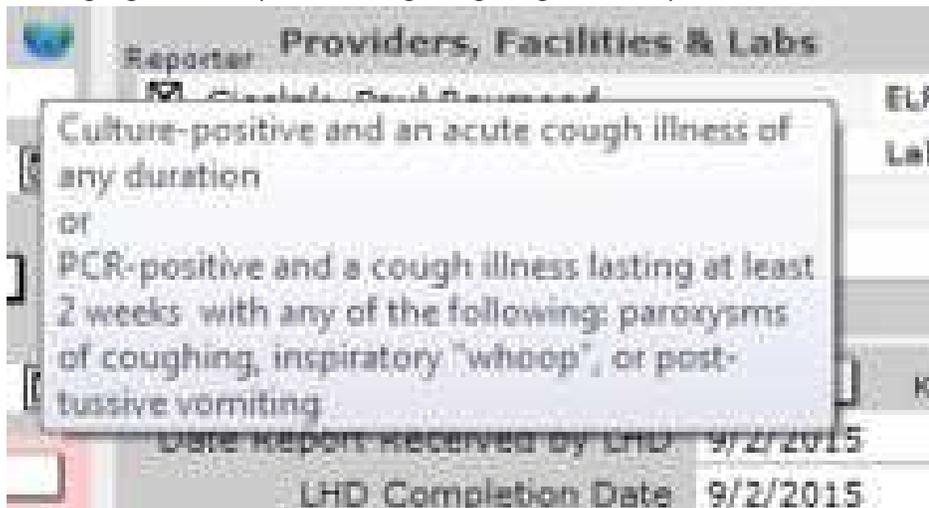
Date Report Received by LHD 9/2/2015  
LHD Completion Date 9/2/2015  
State Completion Date

**Note History**    Orpheus Users    View All Notes

Thu, Sept 10, 2015, 10:47 am • (5 days ago)  
Juventila Liko [OPHD] call about the cough



- Review case definitions -- We understand the ease with which you should want to make a PCR-positive case with 12 days of cough a confirmed case, but we are using CDC's case definition and **for PCR-positives, the confirmed case must have a cough illness lasting at least 2 weeks with any of the following: Paroxysms of coughing, inspiratory "whoop", or post-tussive vomiting.**
- This highlights the importance of getting cough follow up data.



- Do your best to fill out collection date, Specimen Type, Test Type, and Result because we transmit these fields to CDC.

**+ Specimen**

**ELR - Electronic Lab Reports**

Laboratory: Providence Health and Services Lab

Collection Date: 08/15/2015  Species:

Result Date:

Specimen Type: NP Swab  In Range

Test Type: PCR

Result: **Positive**

Acc. 000002015112233 OSPHL

List of Results: ABC-State Only

Specimen Date: 08/15/2015 Lag: 5 days  
Specimen Source/Site: Resp

**Test:**

- Do your best to fill out the clinical symptoms and treatment data

Development

**Case Entry**

HOME

**Kitty A Koffer** DOB: 05/07/15 0F Jackson C Pertussis Onset 9/1/15 SP ID 447273

Basics Labs **1** Clinical Risks Followup Epilinks Contacts 4 Notes Vaccine More

Ask about exposures from Wednesday, 8/12/2015 through Tuesday, 8/25/2015

Onset Indeterminate  Earliest cough: 9/1/2015

Symptomatic?  Yes  No  R  ?

paroxysmal  Date

Diagnosis Date:

Notes

Symptom	Answer
Any cough	Yes
Paroxysmal/spasmodic	No
Whoop	No
Apnea	Yes
Cyanosis	Yes
Cold-like symptoms	
Post-tussive vomiting	
Cough at last interview	
Cough Duration (#days) at	7
CXR for pneumonia	
Seizures	
Acute encephalopathy	

Deceased  Yes  No Date

Hospitalized?  Yes  No  Unknown

Hospital Admissions Dates ICU Status

Add a Quick Note

**Note History**

Thu, Sept 10, 2015, 10:47 am • (55 days ago)

Juventila Liko [OPHD] call about the cough

**Treatment**

Drug Name / Comments	Size / Dose / Frequency	Dates
Azithromycin	To enter dosage, select "Other..."	9/1/2015
Comments	Course	5 9/5/2015

We want to be sure the baby was coughing for at least 14 days. It's very important to call the mom back in order to ascertain whether the baby was coughing for at least 14 days. For example, say the baby had been coughing for 5 days at the time of the interview.

If the baby had been coughing for 14 days, document it and you are done; there is no need to call them back.

You won't get dinged by the state's county review process for not calling back if the baby has been coughing for 14 days.

After you enter the data, and you are not planning on calling the family back, you can complete the case, being sure to enter the final interview date.

You don't need to complete this section unless you are in the Portland Tri-County area:

MAPS    CDC Case Status

Doctor Visits		Antibiotic			Tested for Pert.		
#	Date	Y	N	U	Y	N	U
		<input type="radio"/>					

Lab Testing Done?  Yes  No  Unk

Is a laboratory sample available?

- Yes, isolate
- Yes, specimen/DNA
- Yes, isolate and specimen/DNA
- No

Isolate ship date

Vaccinated?  Yes  No  Unk

Number of Vax. doses

Number of contacts AB rec.

Number of people in HH

Pregnancy Status

**Risk questions:** Fill out as much information as possible on all risk questions. If the case had a travel exposure, be sure to fill out the travel info to the best of your knowledge, and be aware of pertussis hot spots and whether the person had a plausible exposure to such an area, e.g., Clark County, Washington.

**Case Entry**  
HOME  
Kitty A Koffer DOB:05/07/15 0F Jackson C Pertussis Onset 9/1/15 SP ID 447273

Basics Labs 1 Clinical Risks Followup Eplinks Contacts 4 Notes Vaccine More

Ask about exposures from Wednesday, 8/12/2015 through Tuesday, 8/25/2015 Interviewed  Yes  No Date [ ]

Reason [ ]  
Who Parent by [ ] **Provide information about the contacts**

Risk  
 Contact of possible case  
 Place where exposed  
 Day care  
 Travel outside home area  
 Yes  
 No  
 Other risk

**Provide information about the exposure place**

**Another screen will pop up if you say yes to travel (see below). Fill out as much as possible**

**Travel outside home area**  
 Q. Any history of travel during include travel within Oregon countries.  
 A.  Yes  No

Regions Visited  
 Oregon  
 USA  
 Canada  
 Mexico  
 Latin America  
 Caribbean  
 Europe  
 Asia  
 Middle East  
 Africa  
 Oceania  
 unspecified foreign

Summary Oregon USA Canada Mexico Latin America Caribbean Europe Africa Middle East Asia Oceania

Travel Notes

Purpose(s)  
 business  
 vacation  
 see family  
 military  
 missionary  
 volunteer  
 Peace Corps  
 education  
 adoption  
 Immigrant/refugee  
 migrant labor  
 other  
 unknown

Travel Mode(s)  
 auto  
 plane  
 train  
 bus  
 cruise ship  
 other vessel  
 bike  
 other  
 unknown

Companion(s)  
 solo  
 same HH  
 multiple HHS  
 organized group  
 military  
 other  
 unknown

Travel Summary  
 Travel Foreign  
 Travel Domestic

**Follow up:** These are important data, not only for the case investigation, but also for our submissions to CDC. Our pertussis investigative guideline focuses on protecting high risk individuals – infants women in their 3<sup>rd</sup> trimester.

**Case Entry**  
HOME  
Kitty A Koffer DOB:05/07/15 0F Jackson C Pertussis Onset 9/1/15 SP ID 447273

Basics Labs 1 Clinical Risks Followup Eplinks Contacts 4 Notes Vaccine More

Question Answer Combined Notes Ask Followup Questions

Contact with infants Yes  
 Contact pregnant in 3rd trimester Yes  
 HH contacts where infant or pregnant woman: Yes  
 Daycare contacts where infant or pregnant woman: N/A  
 Other contacts: N/A  
 Which settings the case might have exposed other people?: N/A  
 Case Education: N/A

Further spread of disease  
 Case Education  
 MAPS USE ONLY: Infants <1 year: N/A  
 MAPS USE ONLY: Previous Infection: N/A  
 MAPS USE: Fever: N/A  
 MAPS USE: Fever: N/A  
 MAPS USE: Fever: N/A  
 MAPS USE: Gestational Age or Week of Pregnancy: N/A  
 MAPS USE: Due Date: N/A  
 MAPS USE: Hospitalized infants: N/A

**THE PRIMARY FOCUS OF THE INVESTIGATION IS TO PROTECT HIGH RISK INDIVIDUALS.  
 BE SURE TO FOLLOW UP.**

**Kitty A Koffer**      0 F      Jackson C Pertussis      9/1/15      SP      4472

Treatment began on 9/1/2015. Ask about communicability from Tuesday, 1 September 2015 through Sunday, 6 September

Previous: Contact pregnant in 3rd trimester  
Next: Daycare contacts where infant or pregnant woman

**Q. HH contacts where infant or pregnant woman**  
All household contacts of a case if there is an infant or a pregnant woman in the 3rd trimester

**A.**       Yes       No       Refused       Unknown        
Please provide more detail

**Notes** Baby sitter in her 3rd trimester

**Jump to Question**

- Contact with infants
- Contact pregnant in 3rd trimester
- HH contacts where infant or
- Daycare contacts where infant or
- Other contacts
- Which settings the case might have
- Case Education
- MAPS USE: Infants <1 year
- MAPS USE: Previous Infection
- MAPS USE: Fever
- MAPS USE: Gestational Age or Week
- MAPS USE: Due Date
- MAPS USE: Hospitalized infants

NB. Other HH contacts are important to investigate, e.g., babysitter in her 3<sup>rd</sup> trimester, as you might have to decide about prophylaxis.

**Epi Links:** In this scenario, this is a sporadic case with not HH contacts or Epi Links with similar illness, but be sure to enter an Outbreak Number, e.g., 2015-1234, into the Outbreak ID field on the EpiLinks tab. This assures that you will be able to see all the outbreak-related cases on your home screen.

**Case Entry**

**Kitty A Koffer**      DOB: 05/07/15      0 F      Jackson C Pertussis      Onset 9/1/15      SP      ID 447273

Basics    Labs 1    Clinical    Risks    Followup    EpiLinks    Contacts 4    Notes    Vaccine    More

Associated with a known outbreak?   
Case a close contact of another case?   
Nature:   
Has above case been reported?

Exposure Type:       Exp. Date:

Epi Linkage Notes

**Outbreak Info**  
Generation:  1     2  
Outbreak ID:

**BE SURE TO ENTER THE OUTBREAK # IF THE CASE IS ASSOCIATED WITH AN OUTBREAK**

Lot:   
Onset:       County:

**Working with contacts:** According to the investigative guidelines, contacts are people that are in the same household that share the same room (pretty much), or lots of hours together, or sharing a space of <6 feet for >1 hour. Our new guidelines say that you should enter infants' moms as contacts, and complete the vaccination history for the mother.

A couple of years ago, ACIP recommended Tdap for pregnant women, and we want to track this information in our database to get a sense for how helpful this has been.

So we enter data on the mom, which is the only contact for whom we were asking for detailed follow up.

**Kitty A Koffer**      DOB:05/07/15    0F    Jackson C Pertussis      Onset 9/1/15    SP ID 447273

Basics   Labs 1   Clinical   Risks   Followup   Epilinks   **Contacts 4**   Notes   Vaccine   More

Details for Pertussis Contact:  
Treatment began on 9/1/2015. Ask about communicability from Tuesday, 1 September 2015 through Sunday, 6 September

**Mom, Test**

DOB:      Age 34    High Risk     [Show Person](#)  
Sex:  F  M    Pregnant     Due Date:    [+ Case](#)

Relation to case: **Mother**    Contact has compatible signs/symptoms   
Occupation: Attends daycare    Sick     Onset:    [+ Case](#)

Date Identified: 9/2/2015

Prophylaxis Recommended:  Yes  No  Already on antibiotics    Date:    [+ Case](#)

Education Provided:  Yes  by Proxy  No    Date:    [+ Case](#)

None Elicited     [Contact List](#)    [Summary](#)    [+ Contact](#)

Name	Age	Sex	Ref	Links	Completion	Done
Mom, Test	34	F	Mother3			<input type="checkbox"/>
Little, Fozman	15	M	2			<input type="checkbox"/>
Mom, Test	34	F	3			<input type="checkbox"/>
Test, Patient	15	M	2			<input type="checkbox"/>

Immunizations    Valid    [Show all vaccines](#)    [Query ALERT](#)

Date	Age	Vax	Vaccine Name	Data Source	<a href="#">+ Vaccine</a>
12/11/2014	115	Tdap			<input type="checkbox"/>

Be sure to enter Tdap information above. You don't need to enter other vaccines. [Ask Questions](#)

Mom's Vaccinations questions    Answer

Mom received Tdap	Yes
Tdap during last pregnancy	Yes
Trimester of pregnancy when Tdap received	
Tdap Not Received	

It's pretty unlikely that the mom will know her vaccination data off the top of her head. If she can get a summary from her doctor, then let her obtain that and call her back.

If you don't have any documentation for her Tdap (since Tdap was licensed in 2005), then go to the Alert Immunization Registry. If you can't find anything in Alert, then ask the provider. It's important to get the information.

If the mom says she's sure she got it, but there's nothing in Alert, and there's no information from the provider, but that she remembers that she got it at Rite-Aid, for example, then call the pharmacy.

Be sure to enter the Tdap information.

Be sure to enter Tdap information above.  
You don't need to enter other vaccines.

Mom's Vaccinations questions	Answer
Mom received Tdap	Yes
Tdap during last pregnancy	Yes
Trimester of pregnancy when Tdap received	
Tdap Not Received	

Ask Questions

**The Vaccine Tab:** These are really important data, and the state will be contacting you if they're not filled out. 😊 If you don't have any information from a trustworthy source, e.g., Alert, provider, yellow card, etc., then mark it unknown.

Development Version

HOME **Case Entry** LIST PRINT

Kitty A Koffer DOB:05/07/15 0F Jackson C Pertussis Onset 9/1/15 SP ID 447273

Basics Labs 1 Clinical Risks Followup Epilinks Contacts 4 Notes Vaccine More

Immunizations ALERT Dev

Up to date for Pertussis  Yes  No  Unknown Received Tdap  Yes  No  Unknown

Why Not?

Req Date	Status	Query Result	Creator
9/2/15 10:46	Error	There was an error connecting to ALERT - query not performed	or0153280

Immunization History (filtered for Pertussis) [Show all vaccines](#)

Date	Age	Valid Vax	Any Vax	Vaccine Name (exported)	Record Source	Lot Number	Mfg	Dose and Series
07/22/15	0.2		20	DTaP	<input type="checkbox"/> ALERT <input type="checkbox"/> Provider <input type="checkbox"/> Verbal (shot card) <input checked="" type="checkbox"/> More Sources <input type="checkbox"/> ALERT <input checked="" type="checkbox"/> Provider <input type="checkbox"/> Verbal (shot card) <input checked="" type="checkbox"/> More Sources			

this baby is 3m old and considered vaccinated with 1 DTaP

At this point we're pretty much done with this case, but be sure to put in a note to remind yourself to call about the cough if you don't know whether the baby has been coughing for 14 days.

Basics Labs 1 Clinical Risks Followup Epilinks Contacts 4 Notes Vaccine More

Case Note History Users Print All Notes

Done Date	Type	Assigned To	Created by	Note
<input type="checkbox"/> 11/24/15 1:39 PM		Juventila Liko OPHD	Stephen OPHD	Changed 'Epi Known Outbreak' from Yes to No
<input type="checkbox"/> 11/24/15 1:35 PM		Juventila Liko OPHD	Stephen OPHD	Changed 'Epi Known Outbreak' from No to Yes
<input type="checkbox"/> 09/10/15 10:47 AM	Note	Juventila Liko OPHD	Juventila Liko OPHD	call about the cough

After calling back about the cough, enter the final interview date here:

0F Jackson C Pertussis

wup Epilinks Contacts 4 Notes Vaccine

Pertussis Status Confirmed

Onset (Any cough) 9/1/2015

Interviewed  Yes  No

Reason

Who Parent

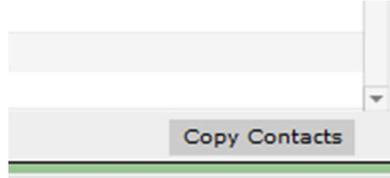
Final Interview Date 9/9/2015

MAPS CDC Case Status Confirmed

**Scenario – We discover that the sibling has symptoms – contact dupe demonstration:** In the course of the investigation, we hear that the sibling has pertussis-like symptoms.

The Contact Duper works as follows:

1. Copy contacts



2. Find the case, select it, and click on the Duplicate Contacts button

**Duplicate Contacts** Copy contacts from one case to another, like magic.

Patient Info for: **Koffer, Kitty A** Case ID: 447273  
 Status: **CONFIRMED** County: JACKSON  
 Disease: 50 PERTUSSIS  
 Address: 1234 Main St, White City OR 97503  
 Onset: 9/1/2015 LHD Completion: 9/2/2015  
 LHD Report Date: 9/2/2015 State Completion:

**Duplicate Contacts** (highlighted with a red box and a yellow arrow pointing to it)  
 Cancel  
 Dupe Contacts Beta

Cases for Contacts: Comorbid cases | Any Case

Select Case(s) to copy these contacts TO

Case	Disease	Name	Status	Onset	County	# Contacts	Select
447271	Pertussis	Patient Test	Confirmed	8/25/2015	Clackamas	3	<input checked="" type="checkbox"/>

List of contacts currently associated with case 447273, which will be copied to cases selected above

Name	Age	Sex	Ix Date	Relation	Disp	Done	First Exp	County	Place
Mom, Test	34	F	9/2/2015	Mother	<input type="checkbox"/>			Jackson	
Little, Fozman	15	M			<input type="checkbox"/>			Benton	
Mom, Test	34	F			<input type="checkbox"/>			Benton	
Test, Patient	15	M			<input type="checkbox"/>			Benton	

Note: Because the case was also a contact, you'll have to remove it from the duplicated contact list.

**Case Entry** Development Version 447271

Patient Test DOB: 01/01/00 15M Clackamas C Pertussis Onset ~ 8/25/15 SP ID 447271

Basics | Labs | Clinical | Risks | Followup | Epilinks | **Contacts 3** | Notes | Vaccine | More

None Elicited  Contact List Summary + Contact

Name	Age	Sex	Ref	Links	Completion	Done
Little, Fozman	15	M		2		<input type="checkbox"/>
Mom, Test	34	F	Co-wor	3		<input type="checkbox"/>
<b>Koffer, Kitty A</b>	0.3	F		2		<input type="checkbox"/>

Notice how the red font indicates a case

**Case Entry** (Development Version) | 447271

**Patient Test** | DOB: 01/01/00 | 15M | Clackamas C | Pertussis | Onset ~ 8/25/15 | SP ID 447271

Basics | Labs | Clinical | Risks | Followup | Epilinks | Contacts 3 | Notes | Vaccine | More

**Details for Pertussis Contact:**  
 The onset date is only estimated. Ask about communicability from Tuesday, 25 August 2015 through Tuesday, 15 September

**Little, Fozman** | Show Person | + Case

DOB: 1/7/2000 | Age: 15 | High Risk:

Sex:  F  M

Relation to case:  | Contact has compatible signs/symptoms:  Sick:  Onset:

Occupation:

Date Identified:

Prophy Recommended:  Yes  No  Already on antibiotics | Date:

Education Provided:  Yes  by Proxy  No | Date:

Contact Followup: Labs | Links | Demographics | Comments

**Immunizations** | Valid: [Show all vaccines](#) | Query ALERT

Date	Age	Vax	Vaccine Name	Data Source
11/28/2012	12	20	DTaP	ALERT

Up To Date:  Yes  No  Unknown

**Contact List** | Summary | + Contact

Name	Age	Sex	Ref	Links	Completion	Done
Little, Fozman	15	M		2		<input type="checkbox"/>
Mom, Test	34	F	Co-wor	3		<input type="checkbox"/>
Kof...				2		<input type="checkbox"/>

feature request: include occupation, prophy, and education in the contact duper to minimize re-typing of data

Contact duper is a tool that crosses all diseases. It makes sense to duplicate occupation, but because a same person can be a contact of several different cases with several different exposure dates, we decided not to duplicate prophy and education information.

**Other Bordatella species– ELR with B. parapertussis positive, but pertussis negative:**

### 3.5 Non-pertussis Bordetella species

Reports of *parapertussis*, *holmesii* and *bronchiseptica* infection should not be investigated further. However, if one of these species shows up in the Orpheus ELR queue, create a pertussis case, make it “No Case” and enter the species in the lab section. This will allow us to learn the frequency with which infection by these species is reported.

If, through culture or PCR testing, it is determined that a case-patient is infected with both B. pertussis and another Bordetella species (e.g., B. parapertussis, B. holmesii, B. bronchiseptica), assign status of the pertussis case based on the investigative guideline case definition, and enter the name of the non-pertussis species in the lab section for each Bordetella lab report.

**Record Entry** | blueface

**Ima R Blueface** | DOB: 06/01/85 | 30F | Josephine X | Pertussis | Onset ~ 8/13/15 | SP ID 447275

Basics | Labs 1 | Clinical | Risks | Followup | Epilinks | Contacts | Notes | Vaccine | More

**ELR - Electronic Lab Reports**

Laboratory: MAYO CLINIC DEPT. OF LAB MED AND

Collection Date: 08/15/2015 | Species: parapertussis

Result Date:  | In Range:

Specimen Type: Nasopharyngeal | Test Type: PCR

Result: Positive

Acc. 998877666 | OSPHL

List of Results: **ABC-State Only** | Create Manual Lab

Specimen Date: 08/15/2015 | Lag: 5 days

Specimen Source/Site: Unknown

**Test: BORDETELLA PCR**

**Results:**  
 Test: BORDETELLA PERTUSSIS DNA Result: NEGATIVE  
 Test: BORDETELLA PARAPERTUSSIS DNA Result: POSITIVE

----- Other Details -----  
 Patient Name: Blueface, Ima R  
 DOB: 06/01/1985 | Sex: F  
 Address: PO BOX 999  
 GRANTS PASS, OR 97527

**30F Josephine X Pertussis** | Status: No Case

Pertussis:  Pertussis | Status:  No Case

Onset (Any cough):  Date:

Interviewed:  Yes  No

Reason:

Who:

Interview Date:

Enter non-pertussis species here

## Exporting data:

The screenshot shows the 'Exports' application with the 'Pertussis MAPS' tab active. A red box highlights the configuration area for the export, including date ranges and selection options. Below the configuration is a table of case data.

Case ID	Subtype	Name	Age	Sex	County	Occupation	DOB	Status	EIP ID	Preg	Dead	Hosp	Old ID	Onset	Onset 1	Spec 1	LHD	Sent HD	Interview	MMWR	Wk Year	Created	Modified	
1518		Goslin, Vesta	13	F	Washington	Attends school	11/23/94	P			<input type="checkbox"/>	<input type="checkbox"/>		01/18/14	01/18/14		01/29/14	01/29/14	01/30/14	01/18/14	3	2014	01/29/14 09:22a	01/15/15 11:2

## To Dos State:

- Include occupation in the Contact Duper.
- Juventila to ask Michelle to import lot numbers from Alert
- Add Worksite information as a new column in a different export layout.

The screenshot shows a demographic form with various input fields. The 'Work' field is highlighted with a red box and contains the text 'other pertinent work site info'. Other fields include 'DOB', 'Age', 'Sex', 'Preg', 'Lang', 'Born', 'Race', and 'Hispanic'.

## To Dos Counties:

- Provide feedback with regard to the reports on vaccination status, i.e., whether the case's vaccination is up-to-date; state to include age.