

# **Importing Vectorborne Labs into WEDSS**



**Kristin Hardy**  
**Wisconsin Division of Public Health**



# Staging Area

**STAGING AREA**

Disease Incident
  Outbreak

Date Received
  Date of Message

**Imported Results**

| Case ID                | Date Received | Patient | DOB | City | Resulted Test    | Value                                   | Diagnosis  | Jurisdiction     | Laboratory                           |
|------------------------|---------------|---------|-----|------|------------------|---|--|------------------|--------------------------------------|
| <a href="#">419889</a> | 8/25/2010     |         |     |      | IgM WESTERN BLOT | Positive                                | <a href="#">LYME DISEASE</a>                               | Waupaca County   | *Riverside Medical Center Laboratory |
| <a href="#">419888</a> | 8/25/2010     |         |     |      | IgG WESTERN BLOT | Positive                                | <a href="#">LYME DISEASE</a>                               | Waupaca County   | *Riverside Medical Center Laboratory |
| <a href="#">419881</a> | 8/25/2010     |         |     |      | Culture Result   | Gram-positive cocci in chains           | <a href="#">UNKNOWN DISEASE</a>                            | Brown County     | *St. Vincent Hospital                |
| <a href="#">419880</a> | 8/25/2010     |         |     |      | Culture Result   | Streptococcus pneumoniae                | <a href="#">STREPTOCOCCUS PNEUMONIAE, INVASIVE DISEASE</a> | Brown County     | *St. Vincent Hospital                |
| <a href="#">419876</a> | 8/25/2010     |         |     |      |                  |   | <a href="#">LYME DISEASE</a>                               | Grant County     |                                      |
| <a href="#">419859</a> | 8/25/2010     |         |     |      | INTERPRETATION   | SEE COMMENT FOR RESULTS                 | <a href="#">LYME DISEASE</a>                               | La Crosse County | *Mayo Clinic                         |
| <a href="#">419858</a> | 8/25/2010     |         |     |      | IGM BAND(S)      | NO BANDS DETECTED                       | <a href="#">LYME DISEASE</a>                               | La Crosse County | *Mayo Clinic                         |
| <a href="#">419857</a> | 8/25/2010     |         |     |      | IGM WESTERN BLOT | NEGATIVE                                | <a href="#">LYME DISEASE</a>                               | La Crosse County | *Mayo Clinic                         |
| <a href="#">419856</a> | 8/25/2010     |         |     |      | IGG BAND(S)      | P93,P66,P58,P45,P41,P39,P30,P28,P23,P18 | <a href="#">LYME DISEASE</a>                               | La Crosse County | *Mayo Clinic                         |
| <a href="#">419855</a> | 8/25/2010     |         |     |      | IGG WESTERN BLOT |   | <a href="#">LYME DISEASE</a>                               | La Crosse County | *Mayo Clinic                         |

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**Patients**

| Match By                            | Date      | Patient | DOB | Address | Disease      | Status | Resolution Status | Last Update Date     |
|-------------------------------------|-----------|---------|-----|---------|--------------|--------|-------------------|----------------------|
| <input checked="" type="checkbox"/> | 8/24/2010 |         |     |         | LYME DISEASE | New    | Suspect           | 8/24/2010 1:11:48 PM |

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Matched by Person Name
  Matched by Future Client No./MRN
  User Selected
  Matched by Disease Incident
  Demographics Do Not Match
  Ready For Import

**Import Options**

Only Attach Web Report
  Attach Species Result
  Attach Serogroup / O Group Result
  Attach Serotype Result

Create New Disease Incident
  Create a New Person and Disease Incident Record
  Update Demographics

# What the Lab Report Looks Like

- Each band tested is listed as a separate test on the lab report.
- Each test is listed as a separate line in the staging area.
  - Each test could potentially create a new person
  - Each test could populate a new widget
- One lab image in the filing cabinet

|                         |                        |                          |            |  |
|-------------------------|------------------------|--------------------------|------------|--|
| PATIENT ADDRESS         |                        | FRANCISCAN SKEMP-MHS     |            |  |
| SPECIMEN COLLECTED DATE | SPECIMEN RECEIVED DATE | 700 WEST AVENUE SOUTH    |            |  |
| 06/28/2010 08:40        | 06/28/2010 20:15       | LA CROSSE, WI 54601-9968 |            |  |
| SPECIMEN SOURCE         | RESULT                 | 8003625454               |            |  |
| BLD                     |                        | REPORTED                 | RESULTED   |  |
| SPECIMEN NOTES          |                        | 06/30/2010               | 06/29/2010 |  |

**TEST ORDERED: LYME DISEASE AB, WESTERN BLOT, S**

| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
|------------------|-------------------------|------------------|----------|---------------|
| IGG WESTERN BLOT | NEGATIVE                | NEGATIVE         |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| IGG BAND(S)      | P41                     | KDA              |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| IGM WESTERN BLOT | POSITIVE                | NEGATIVE         |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| IGM BAND(S)      | P41,P23                 | KDA              |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| INTERPRETATION   | SEE COMMENT FOR RESULTS |                  |          | Final         |

# Recommendations for Handling Multiple Lab Reports from Same Specimen for Same Disease

- Document on the HAN, under WEDSS User Guides.
- “The WEDSS advisory group suggests importing one lab result (making sure that all the tests are on the lab report image and the accession number of the others are the same) and delete the rest.”

# Lyme Disease Lab Report

Only need to import the most “important” result(s)

**STAGING AREA**

**Disease Incident** **Outbreak**

Date Received  Date of Message

**Imported Results**

| Case ID                | Date Received | Patient | DOB | City | Resulted Test             | Value                                 | Diagnosis   | Jurisdiction     | Laboratory                         |
|------------------------|---------------|---------|-----|------|---------------------------|---------------------------------------|---|------------------|------------------------------------|
| <a href="#">397139</a> | 7/9/2010      |         |     |      | Culture Result            | Beta-hemolytic Streptococcus, group B | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP B</a>      | unknown          | *St. Mary's Hospital               |
| <a href="#">397138</a> | 7/9/2010      |         |     |      | BLOOD CULTURE REPORT      | Streptococcus pyogenes                | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP A</a>      | Appleton         | *St. Elizabeth Hospital Laboratory |
| <a href="#">397132</a> | 7/9/2010      |         |     |      | CULTURE                   | Streptococcus agalactiae              | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP B</a>      | Racine           | *ACL Laboratories                  |
| <a href="#">397110</a> | 7/9/2010      |         |     |      | ANAPLASMA PHAGOCYTOPHILUM | POSITIVE                              | <a href="#">EHRlichiosis/ANAPLASMOSIS, A. phagocytophilum</a> | Polk County      | *Mayo Clinic                       |
| <a href="#">397109</a> | 7/9/2010      |         |     |      | INTERPRETATION            | SEE COMMENT FOR RESULTS               | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |
| <a href="#">397108</a> | 7/9/2010      |         |     |      | IGM BAND(S)               | P41,P39,P23                           | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |
| <a href="#">397107</a> | 7/9/2010      |         |     |      | IGM WESTERN BLOT          |                                       | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |
| <a href="#">397106</a> | 7/9/2010      |         |     |      | IGG BAND(S)               | P58,P41,P39,P23                       | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |
| <a href="#">397105</a> | 7/9/2010      |         |     |      | IGG WESTERN BLOT          | NEGATIVE                              | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |
| <a href="#">397104</a> | 7/9/2010      |         |     |      | INTERPRETATION            | SEE COMMENT FOR RESULTS               | <a href="#">LYME DISEASE</a>                                  | La Crosse County | *Mayo Clinic                       |

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# What to Import

**STAGING AREA**

Disease Incident Outbreak

Date Received  Date of Message

**Imported Results**

| Case ID | Date Received | Patient | DOB | City | Resulted Test             | Value                                 | Diagnosis   |
|---------|---------------|---------|-----|------|---------------------------|---------------------------------------|---|
|         |               |         |     |      | Culture Result            | Beta-hemolytic Streptococcus, group B | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP B</a>      |
|         |               |         |     |      | BLOOD CULTURE REPORT      | Streptococcus pyogenes                | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP A</a>      |
|         |               |         |     |      | CULTURE                   | Streptococcus agalactiae              | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP B</a>      |
|         |               |         |     |      | ANAPLASMA PHAGOCYTOPHILUM | POSITIVE                              | <a href="#">EHRLICHIOSIS/ANAPLASMOSIS, A. phagocytophilum</a> |
|         |               |         |     |      | INTERPRETATION            | SEE COMMENT FOR RESULTS               | <a href="#">LYME DISEASE</a>                                  |
|         |               |         |     |      | IGM BAND(S)               | P41,P39,P23                           | <a href="#">LYME DISEASE</a>                                  |
|         |               |         |     |      | IGM WESTERN BLOT          |                                       | <a href="#">LYME DISEASE</a>                                  |
|         |               |         |     |      | IGG BAND(S)               | P58,P41,P39,P23                       | <a href="#">LYME DISEASE</a>                                  |
|         |               |         |     |      | IGG WESTERN BLOT          | NEGATIVE                              | <a href="#">LYME DISEASE</a>                                  |
|         |               |         |     |      | INTERPRETATION            | SEE COMMENT FOR RESULTS               | <a href="#">LYME DISEASE</a>                                  |

**TEST ORDERED: LYME DISEASE AB, WESTERN BLOT, S**

| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
|------------------|-------------------------|------------------|----------|---------------|
| IGG WESTERN BLOT | NEGATIVE                | NEGATIVE         |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| IGG BAND(S)      | P58,P41,P39,P23         | KDA              |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| IGM WESTERN BLOT | POSITIVE                | NEGATIVE         |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| IGM BAND(S)      | P41,P39,P23             | KDA              |          | Final         |
| RESULT           | VALUE                   | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
| INTERPRETATION   | SEE COMMENT FOR RESULTS |                  |          | Final         |

REPORTABLE DISEASE  
 CONSISTENT WITH EARLY INFECTION WITH BORRELIA BURGDORFERI.  
 A NEW SERUM SPECIMEN SHOULD BE SUBMITTED IN 14-21 DAYS TO DEMONSTRATE SEROCONVERSION OF IGG.  
 IGM BLOT CRITERIA IS OF DIAGNOSTIC UTILITY ONLY DURING THE FIRST 4 WEEKS OF EARLY LYME DISEASE.  
 CDC CRITERIA REQUIRE  $\geq 5$  BANDS FOR IGG OR  $\geq 2$  BANDS FOR IGM FOR THE WESTERN BLOT TO BE CONSIDERED POSITIVE. BANDS (E.G.,P41) MAY BE DETECTED IN PATIENTS WITHOUT LYME DISEASE, AND PATTERNS NOT MEETING THE CDC CRITERIA SHOULD BE INTERPRETED WITH CAUTION.  
 WESTERN BLOT SHOULD BE ORDERED ONLY ON SPECIMENS THAT ARE POSITIVE OR EQUIVOCAL BY A FDA-LICENSED LYME DISEASE ANTIBODY SCREENING TEST (E.G., EIA).

# Another Lyme Example

| STAGING AREA   |               |            |            |            |                                |                  |                              |              |  |
|--|---------------|------------|------------|------------|--------------------------------|------------------|------------------------------|--------------|--|
| <input checked="" type="radio"/> Disease Incident <input type="radio"/> Outbreak     |               |            |            |            |                                |                  |                              |              |  |
| <input checked="" type="radio"/> Date Received <input type="radio"/> Date of Message |               |            |            |            |                                |                  |                              |              |  |
| Imported Results   |               |            |            |            |                                |                  |                              |              |  |
| Case ID  | Date Received | Patient    | DOB        | City       | Resulted Test                  | Value            | Diagnosis                    | Jurisdiction | Laboratory                             |
| <a href="#">397203</a>   | 7/9/2010      | [REDACTED] | [REDACTED] | [REDACTED] | LYME DISEASE WESTERN BLOT IgG: | 39 PRESENT       | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397202</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 34 absent        | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397201</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 31 absent        | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397200</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 30 absent        | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397199</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 28 absent        | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397198</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 23(OspC) PRESENT | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397197</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 18 PRESENT       | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397196</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | POSITIVE         | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397195</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 93 absent        | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |
| <a href="#">397194</a>   | 7/9/2010      |            |            |            | LYME DISEASE WESTERN BLOT IgG: | 66 absent        | <a href="#">LYME DISEASE</a> | unknown      | *Wisconsin State Laboratory of Hygiene |

# What to Import

**STAGING AREA**

Disease Incident  Outbreak

Date Received  Date of Message

Imported Results

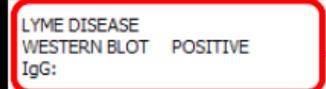
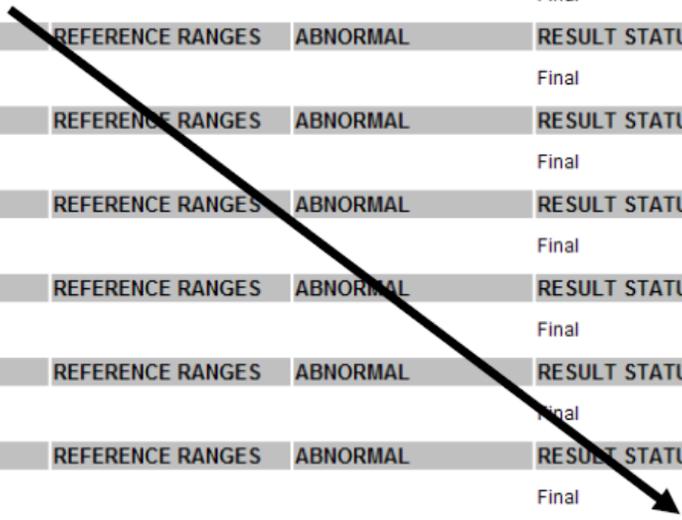
| Case ID | Date Received | Patient | DOB | City | Resulted Test | Value | Diagnosis | Jurisdiction |
|---------|---------------|---------|-----|------|---------------|-------|-----------|--------------|
|---------|---------------|---------|-----|------|---------------|-------|-----------|--------------|

**TEST ORDERED: LYME DISEASE WESTERN BLOT IgG:**

| RESULT                         | VALUE                 | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
|--------------------------------|-----------------------|------------------|----------|---------------|
| LYME DISEASE WESTERN BLOT IgG: | POSITIVE              |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 18 PRESENT            |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 23(OspC) PRESENT      |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 28 absent             |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 30 absent             |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 31 absent             |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 34 absent             |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 39 PRESENT            |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 41(Flagellin) PRESENT |                  |          | Final         |
| LYME DISEASE WESTERN BLOT IgG: | 45 PRESENT            |                  |          | Final         |

|                                |                  |                              |         |
|--------------------------------|------------------|------------------------------|---------|
| LYME DISEASE WESTERN BLOT IgG: | 39 PRESENT       | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 34 absent        | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 31 absent        | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 30 absent        | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 28 absent        | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 23(OspC) PRESENT | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 18 PRESENT       | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | POSITIVE         | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 93 absent        | <a href="#">LYME DISEASE</a> | unknown |
| LYME DISEASE WESTERN BLOT IgG: | 66 absent        | <a href="#">LYME DISEASE</a> | unknown |

Lab Report



# Another Lyme Example

**STAGING AREA**

**Disease Incident** | **Outbreak**

Date Received |  Date of Message

**Imported Results**

| Case ID | Date Received | Patient | DOB | City | Resulted Test       | Value    | Diagnosis                    | Jurisdiction  | Laboratory               |
|---------|---------------|---------|-----|------|---------------------|----------|------------------------------|---------------|--------------------------|
| 419712  |               |         |     |      | Band-28             | ABSENT   | <a href="#">LYME DISEASE</a> | Vernon County | *Marshfield Laboratories |
| 419711  |               |         |     |      | Band-23             | PRESENT  | <a href="#">LYME DISEASE</a> | Vernon County | *Marshfield Laboratories |
| 419710  |               |         |     |      | Band-18             | PRESENT  | <a href="#">LYME DISEASE</a> | Vernon County | *Marshfield Laboratories |
| 419709  |               |         |     |      | EIA- Interpretation | REACTIVE | <a href="#">LYME DISEASE</a> | Vernon County | *Marshfield Laboratories |
| 419706  |               |         |     |      | Lyme WB Biot, IgM   | POSITIVE | <a href="#">LYME DISEASE</a> | Sawyer County | *Marshfield Laboratories |
| 419705  |               |         |     |      | Band-41             | PRESENT  | <a href="#">LYME DISEASE</a> | Sawyer County | *Marshfield Laboratories |
| 419704  |               |         |     |      | Band-39             | ABSENT   | <a href="#">LYME DISEASE</a> | Sawyer County | *Marshfield Laboratories |
| 419703  |               |         |     |      | Band-23             | PRESENT  | <a href="#">LYME DISEASE</a> | Sawyer County | *Marshfield Laboratories |
| 419694  |               |         |     |      | Band-39             | PRESENT  | <a href="#">LYME DISEASE</a> | Sauk County   | *Marshfield Laboratories |
| 419693  |               |         |     |      | Band-23             | PRESENT  | <a href="#">LYME DISEASE</a> | Sauk County   | *Marshfield Laboratories |

**LabReport -- Webpage Dialog**

Marshfield, WI 54449 (800) 222-5835

PATIENT ADDRESS

SPECIMEN COLLECTED DATE: 08/20/2010 | SPECIMEN RECEIVED DATE: 08/23/2010 23:59

SPECIMEN SOURCE: BLDV | RESULT

SPECIMEN NOTES: BLOOD

PATIENT PHONE #: U | WORK PHONE #: U

REFERRING PHYSICIAN: HIRSCH CLINIC | PHYSICIAN'S PHONE #: 6086373174

PHYSICIANS LOCATION: HIRSCH CLINIC, 407 S. Main St Ste 400, Viroqua, WI 54665, 6086373174

REPORTED: 08/25/2010 | RESULTED: 08/24/2010

**TEST ORDERED: Lyme EIA-Blood**

| RESULT             | VALUE    | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
|--------------------|----------|------------------|----------|---------------|
| EIA-Interpretation | REACTIVE |                  | Abnormal | Final         |

According to CDC recommendations for the serological diagnosis of Lyme Disease, all Positive and Equivocal results from this test should be confirmed by Western blot (WB) analysis. Confirmation by IgM and IgG WB should be performed within the first four weeks of disease onset, while IgG WB should be performed on sera drawn after the first month of onset. IgM WB should never be performed alone.

Lyme Disease IgG (test code LYBL-G) and IgM (LYBL-M) WB may be performed on this specimen by ordering on-line through the electronic U-Have system or by calling Marshfield Labs. Sera are held for five days after results have been reported.

Lyme Disease is reportable in Wisconsin. If history and clinical data confirm this diagnosis, please complete DOH Form 4151 and forward it to the county health department in which the patient resides.

Information contained on this form or report which would permit identification of any individual has been collected with a guarantee that it will be held in strict confidence, will be used only for surveillance purposes, and will not be disclosed or released without the consent of the individual in accordance with Section 308(d) of the Public Health Service Act (42 U.S.C. 242m).

**Resolution Status** | **Last Update Date**

Demographics Do Not Match |  Ready For Import

Merge Incidents

# Anaplasma Lab Report

**STAGING AREA**

Disease Incident
 Outbreak

Date Received
  Date of Message

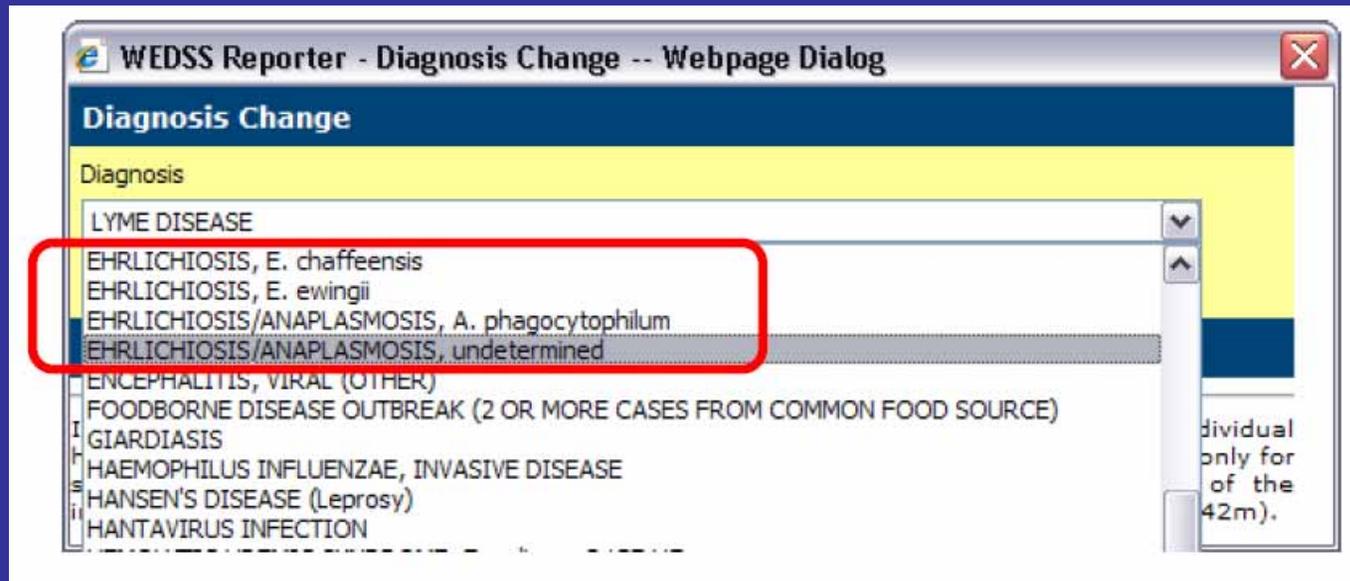
**Imported Results**

| Case ID   | Date Received                | Patient          | DOB          | City | Resulted Test             | Value   | Diagnosis        | Jurisdiction                       | Laboratory    |                           |          |          |  |       |                                       |  |         |                      |
|---|------------------------------|------------------|--------------|------|---------------------------|---|------------------|------------------------------------|---------------|---------------------------|----------|----------|--|-------|---------------------------------------|--|---------|----------------------|
| <div style="border: 2px solid black; padding: 5px;"> <p>LAB ADDRESS<br/>*Mayo Clinic (24D0404292)<br/>200 1st St SW<br/>Rochester, MN 55905-0002<br/>(800) 533-1710 ext 87260</p> <p>PATIENT ADDRESS</p> <p>SPECIMEN COLLECTED DATE: 07/07/2010 09:13<br/>SPECIMEN RECEIVED DATE: 07/08/2010 11:15</p> <p>SPECIMEN SOURCE: BLD<br/>RESULT:</p> <p>SPECIMEN NOTES</p> <p><b>TEST ORDERED: EHRlichia/ANAPLASMA PCR, B</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>RESULT</th> <th>VALUE</th> <th>REFERENCE RANGES</th> <th>ABNORMAL</th> <th>RESULT STATUS</th> </tr> </thead> <tbody> <tr> <td>ANAPLASMA PHAGOCYTOPHILUM</td> <td>POSITIVE</td> <td>NEGATIVE</td> <td></td> <td>Final</td> </tr> </tbody> </table> <p>SEMI-URGENT RESULT<br/>REPORTABLE DISEASE<br/>THIS TEST WAS DEVELOPED AND ITS PERFORMANCE CHARACTERISTICS DETERMINED BY LABORATORY MEDICINE AND PATHOLOGY, MAYO CLINIC, ROCHESTER MN. IT HAS NOT BEEN CLEARED OR APPROVED BY THE U.S. FOOD AND DRUG ADMINISTRATION.</p> </div> |                              |                  |              |      | RESULT                    | VALUE   | REFERENCE RANGES | ABNORMAL                           | RESULT STATUS | ANAPLASMA PHAGOCYTOPHILUM | POSITIVE | NEGATIVE |  | Final | Beta-hemolytic Streptococcus, group B | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP B</a> | unknown | *St. Mary's Hospital |
|   |                              |                  |              |      | RESULT                    | VALUE   | REFERENCE RANGES | ABNORMAL                           | RESULT STATUS |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      | ANAPLASMA PHAGOCYTOPHILUM | POSITIVE  | NEGATIVE         |                                    | Final         |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      | Streptococcus pyogenes    | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP A</a>      | Appleton         | *St. Elizabeth Hospital Laboratory |               |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      | Streptococcus agalactiae  | <a href="#">STREPTOCOCCAL DISEASE, INVASIVE, GROUP B</a>      | Racine           | *ACL Laboratories                  |               |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      | POSITIVE                  | <a href="#">EHRlichiosis/ANAPLASMOSIS, A. phagocytophilum</a> | Folk County      | *Mayo Clinic                       |               |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      | SEE COMMENT FOR RESULTS   | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |               |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      | P41,P39,P23               | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |               |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      |                           | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |               |                           |          |          |  |       |                                       |  |         |                      |
|   |                              |                  |              |      | P58,P41,P39,P23           | <a href="#">LYME DISEASE</a>                                  | Dane County      | *Mayo Clinic                       |               |                           |          |          |  |       |                                       |  |         |                      |
| NEGATIVE  | <a href="#">LYME DISEASE</a> | Dane County      | *Mayo Clinic |      |                           |   |                  |                                    |               |                           |          |          |  |       |                                       |  |         |                      |
| SEE COMMENT FOR RESULTS   | <a href="#">LYME DISEASE</a> | La Crosse County | *Mayo Clinic |      |                           |   |                  |                                    |               |                           |          |          |  |       |                                       |  |         |                      |

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# Changing the Diagnosis

- Could have multiple positive agents that make it seem like different diseases, still create one incident.
- Change the diagnosis by clicking on the disease name in the Diagnosis column and selecting from the drop down box.
- If unsure how to classify, can bring in as 'EHRlichiosis/ANAPLASMOSIS, undetermined'
- DPH staff will review and change the disease assignment if necessary.



# Arbovirus Lab Report

| Case ID                | Date Received | Patient | DOB | City | Resulted Test           | Value  | Diagnosis   | Jurisdiction    | Laboratory                             |
|------------------------|---------------|---------|-----|------|-------------------------|--|---|-----------------|--|
| <a href="#">391714</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | EEE IgG ELISA: Results uninterpretable due to high background. | <a href="#">UNKNOWN DISEASE</a>                           | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391713</a> | 6/28/2010     |         |     |      | CDC SEROLOGY:           | POW/TBE IgG ELISA: Positive                                    | <a href="#">ARBOVIRAL ILLNESS, POWASSAN</a>               | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391712</a> | 6/28/2010     |         |     |      | CDC SEROLOGY:           | POW/TBE IgM Capture ELISA: Equivocal                           | <a href="#">ARBOVIRAL ILLNESS, POWASSAN</a>               | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391711</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | EEE IgM MIA: Negative  | <a href="#">ARBOVIRAL ILLNESS, POWASSAN</a>               | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391710</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | WN/SLE IgM MIA: Negative                                       | <a href="#">ARBOVIRAL ILLNESS, POWASSAN</a>               | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391709</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | WN IgG ELISA: Positive   | <a href="#">ARBOVIRAL ILLNESS, WEST NILE VIRUS</a>        | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391708</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | LAC IgG ELISA: Negative  | <a href="#">ARBOVIRAL ILLNESS, POWASSAN</a>               | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391707</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | LAC IgM Capture ELISA: Negative                                | <a href="#">ARBOVIRAL ILLNESS, POWASSAN</a>               | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391706</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | SLE IgG ELISA: Positive  | <a href="#">ARBOVIRAL ILLNESS, ST. LOUIS ENCEPHALITIS</a> | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| <a href="#">391705</a> | 6/28/2010     |         |     |      | CDC SEROLOGY, VIROLOGY: | FFF IgG ELISA: Negative  | <a href="#">ARBOVIRAL ILLNESS, POWASSAN</a>               | Chippewa County | *Wisconsin State Laboratory of Hygiene |

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# What to Import

LabReport -- Webpage Dialog

TEST ORDERED: CDC SEROLOGY:

| RESULT        | VALUE                                | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
|---------------|--------------------------------------|------------------|----------|---------------|
| CDC SEROLOGY: | POW/TBE IgM Capture ELISA: Equivocal |                  | Abnormal | Final         |
| CDC SEROLOGY: | POW/TBE IgG ELISA: Positive          |                  | Abnormal | Final         |

See attached CDC Report Form for detailed test interpretation.  
The above testing was performed at CDC in Fort Collins, CO.

TEST ORDERED: CDC SEROLOGY, VIROLOGY:

| RESULT                  | VALUE  | REFERENCE RANGES | ABNORMAL | RESULT STATUS |
|-------------------------|--|------------------|----------|---------------|
| CDC SEROLOGY, VIROLOGY: | EEE IgG ELISA: Results uninterpretable due to high background. |                  |          | Final         |
| CDC SEROLOGY, VIROLOGY: | SLE IgG ELISA: Positive  |                  |          | Final         |
| CDC SEROLOGY, VIROLOGY: | LAC IgM Capture ELISA: Negative                                |                  |          | Final         |
| CDC SEROLOGY, VIROLOGY: | LAC IgG ELISA: Negative  |                  |          | Final         |
| CDC SEROLOGY, VIROLOGY: | WN IgG ELISA: Positive   |                  |          | Final         |
| CDC SEROLOGY, VIROLOGY: | WN/SLE IgM MIA: Negative                                       |                  |          | Final         |

Patients

Matched by

Import Options

- Only Attach
- Create New

Chippewa County \*Wisconsin State Laboratory of Hygiene

Resolution Status Last Update Date

| Resolution Status | Last Update Date      |
|-------------------|-----------------------|
| able              | 6/24/2010 10:54:51 AM |
| A Case            | 4/23/2010 4:36:00 PM  |

Ready For Import

# Changing the Diagnosis

- Multiple positive agents that make it seem like different diseases, still create one incident.
- If unsure how to classify, can bring in as 'ARBOVIRAL ILLNESS, OTHER'
- DPH staff will review and change the disease assignment if necessary.

The screenshot displays a 'UAT Future WEDSS Reporter - Diagnosis Change -- Webpage Dialog' window. The dialog box is titled 'Diagnosis Change' and shows a list of possible diagnoses. The selected diagnosis is 'ARBOVIRAL ILLNESS, ST. LOUIS ENCEPHALITIS'. The background table shows the following data:

| Case ID | Date      | Diagnosis                                 | Test Result                     | County          | Laboratory                             |
|---------|-----------|---|---------------------------------|-----------------|--|
| 391718  | 6/28/2010 | ARBOVIRAL ILLNESS, ST. LOUIS ENCEPHALITIS | WN IgG ELISA: Positive          | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| 391717  | 6/28/2010 | ARBOVIRAL ILLNESS, ST. LOUIS ENCEPHALITIS | LAC IgG ELISA: Negative         | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| 391716  | 6/28/2010 | ARBOVIRAL ILLNESS, ST. LOUIS ENCEPHALITIS | LAC IgM Capture ELISA: Negative | Chippewa County | *Wisconsin State Laboratory of Hygiene |
| 391715  | 6/28/2010 | ARBOVIRAL ILLNESS, ST. LOUIS ENCEPHALITIS | SLE IgG ELISA: Positive         | Chippewa County | *Wisconsin State Laboratory of Hygiene |

# Attaching Lab Results: New Incident vs Old Incident

- If the new lab has a collection date that is:
  - more than a year from the existing incidents onset, create a new incident.
  - less than a year from the existing incident, attach it to the existing incident.
- General rule, but each case may differ depending on the season and clinical presentation.

# Staging Area

- Note that the staging area only lists the create date
- Resolution Status of 'live' incident

**STAGING AREA**

**Disease Incident** | **Outbreak**

Date Received |  Date of Message

**Imported Results**

| Case ID | Date Received | Patient | DOB | City | Resulted Test    | Value                                       | Diagnosis                                | Jurisdiction     | Laboratory                          |
|---------|---------------|---------|-----|------|------------------|---|--|------------------|-------------------------------------|
| 41889   | 8/25/2010     |         |     |      | IgM WESTERN BLOT | Positive                                    | <a href="#">LYME DISEASE</a>             | Waupesa County   | Riverside Medical Center Laboratory |
| 41890   | 8/25/2010     |         |     |      | IgG WESTERN BLOT | Positive                                    | <a href="#">LYME DISEASE</a>             | Waupesa County   | Riverside Medical Center Laboratory |
| 41891   | 8/25/2010     |         |     |      | Culture Result   | Gram-positive cocci in chains               | <a href="#">STREPTOCOCCUS PNEUMONIAE</a> | Brown County     | St. Vincent Hospital                |
| 41890   | 8/25/2010     |         |     |      | Culture Result   | Streptococcus pneumoniae                    | <a href="#">STREPTOCOCCUS PNEUMONIAE</a> | Brown County     | St. Vincent Hospital                |
| 41876   | 8/25/2010     |         |     |      |                  |   | <a href="#">LYME DISEASE</a>             | Grant County     |                                     |
| 41892   | 8/25/2010     |         |     |      | INTERPRETATION   | SEE COMMENT FOR RESULTS                     | <a href="#">LYME DISEASE</a>             | La Crosse County | Mayo Clinic                         |
| 41893   | 8/25/2010     |         |     |      | 10M BAND(S)      | NO BANDS DETECTED                           | <a href="#">LYME DISEASE</a>             | La Crosse County | Mayo Clinic                         |
| 41897   | 8/25/2010     |         |     |      | IgM WESTERN BLOT | NEGATIVE                                    | <a href="#">LYME DISEASE</a>             | La Crosse County | Mayo Clinic                         |
| 41896   | 8/25/2010     |         |     |      | 10G BAND(S)      | P13,P16,P18,P14 S-P4-L,P10,P10, P18,P23,P18 | <a href="#">LYME DISEASE</a>             | La Crosse County | Mayo Clinic                         |
| 41892   | 8/25/2010     |         |     |      | 10G WESTERN BLOT |   | <a href="#">LYME DISEASE</a>             | La Crosse County | Mayo Clinic                         |

**Patients**

| Match By                            | Date      | Patient | DOB | Address | Disease      | Status | Resolution Status | Last Update Date     |
|-------------------------------------|-----------|---------|-----|---------|--------------|--------|-------------------|----------------------|
| <input checked="" type="checkbox"/> | 8/24/2010 |         |     |         | LYME DISEASE | New    | Suspect           | 8/24/2010 1:11:48 PM |

Matched by Person Name |  Matched by Future Client No./MRN |  User Selected |  Matched by Disease Incident |  Demographics Do Not Match |  Ready For Import

**Import Options**

Only Attach Web Report |  Create a New Person and Disease Incident Record |  Update Demographics |  Attach Species Result |  Attach Serogroup / O Group Result |  Attach Serotype Result

Create New Disease Incident

|  |  |  |  |  |  |

# Summary

- If part of a panel, not all labs need to be imported.
- Create a new incident for labs collected a year or more after the initial incidents onset.

# Questions???

