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Case 31 (October 14 2010): [N Engl J Med. 363\(16\):1560-1568](#)

Demographic: Female, 29 yrs, North America

Clinical features extracted from the case and entered into the query box:

cat bite
fever
hand pain, swelling and erythema
myalgia
chills
neck pain
axillary lymphadenopathy
non pitting edema
headache
arthralgias

Synonyms used by Isabel for the above query:

cat bite
fever
hand pain
myalgia
chills
neck pain
non pitting edema
headache
arthralgias

STOP !

Before you read further you might want to construct your own:

- Complete differential diagnosis
- Final diagnosis

In the following section you will find:

- The differential diagnosis constructed by the MGH panel
- The final diagnosis of the case
- Which of the MGH panel differential diagnoses did Isabel contain
- Did Isabel suggest the final diagnosis

Differential Diagnoses considered by the MGH panel:

- Leptospirosis
- Toxoplasmosis
- Bartonella
- Ehrlichia

Final Diagnosis of the case according to NEJM:

Tularemia infection

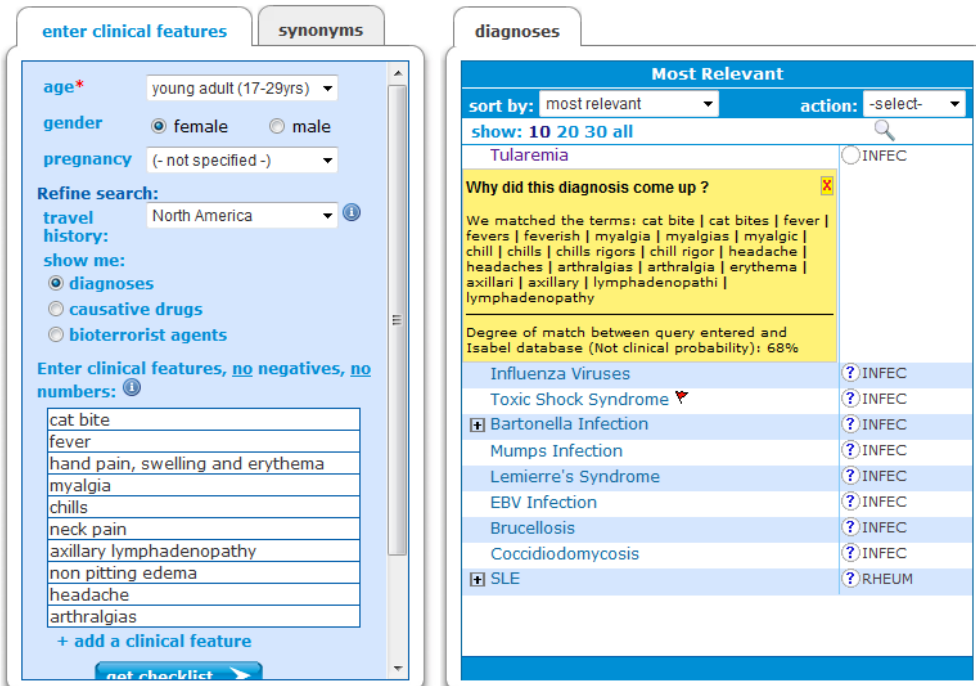
Differential Diagnoses of the case as given by Isabel:

- Leptospirosis in Infectious
- Toxoplasmosis in Infectious
- Bartonella in Infectious
- Ehrlichia in Infectious

Was the final diagnosis given by Isabel:

Yes, Tularemia in Infectious

Isabel Differential:



The screenshot shows the Isabel Differential tool interface. On the left, the 'enter clinical features' tab is active, showing fields for age (young adult), gender (female), pregnancy (- not specified -), travel history (North America), and a list of clinical features: cat bite, fever, hand pain, swelling and erythema, myalgia, chills, neck pain, axillary lymphadenopathy, non pitting edema, headache, and arthralgias. On the right, the 'diagnoses' tab is active, displaying a list of 'Most Relevant' diagnoses. The top diagnosis is Tularemia (INFEC) with a 68% match degree. Other diagnoses include Influenza Viruses, Toxic Shock Syndrome, Bartonella Infection, Mumps Infection, Lemierre's Syndrome, EBV Infection, Brucellosis, Coccidiomycosis, and SLE (RHEUM).

| Most Relevant | |
|---|------------------|
| sort by: most relevant | action: -select- |
| show: 10 20 30 all | |
| Tularemia | INFEC |
| Why did this diagnosis come up ? | |
| We matched the terms: cat bite cat bites fever fevers feverish myalgia myalgias myalgic chill chills chills rigors chill rigor headache headaches arthralgias arthralgia erythema axillari axillary lymphadenopathi lymphadenopathy | |
| Degree of match between query entered and Isabel database (Not clinical probability): 68% | |
| Influenza Viruses | INFEC |
| Toxic Shock Syndrome | INFEC |
| Bartonella Infection | INFEC |
| Mumps Infection | INFEC |
| Lemierre's Syndrome | INFEC |
| EBV Infection | INFEC |
| Brucellosis | INFEC |
| Coccidiomycosis | INFEC |
| SLE | RHEUM |