



Introduction/Background:

- Chlamydia psittaci is a gram negative, obligate intracellular bacteria typically transmitted from birds to humans.
- The first noted outbreak of psittacosis was documented in 1897 by Swiss physician Dr. J Ritter. Many more global outbreaks happened before the discovery of the bacteria in 1965 with the advent of electron microscopy.¹
- Historically from exotic birds (parrots, parakeets). Psittacosis infections also found with poultry, pigeons, and geese.²
- Transmitted through aerosolized dried bird feces, urine, or through respiratory droplets from the bird.
- Typical incubation period 5-14 days.
- Common symptoms include fevers, chills, headache, myalgia, cough.
- Atypical symptoms uveitis, reactive arthritis, Horder spots, erythema nodosum/multiforme/marginatum.³
- Diagnosis clinical or via serology, PCR, or rarely culture.

Case Report:

- 52 y/o male with history of atrial flutter s/p ablation in 2015 presents to the family medicine clinic w/ CC of whole body rash.
- Nine days prior to appointment had subjective fevers, myalgias, headaches, night sweats, and palpable R groin lymph node which resolved prior to visit.
- Two days prior to presentation he developed red blotches all over his body, sparing the face. The rash was non-irritating.
- No recent contact with animals, insects, or new chemicals.
- Week prior to onset, ran in the park stopping under a canopy due to downpour of rain. Did sit-ups and push-ups to pass time however noted canopy extremely dirty with bird droppings.
- Vitals: T 37C, HR 78 bpm, BP 128/68, RR 18, O2 sat 98%.
- Physical exam revealed light pink, salmon colored macular patches, oval in shape, and 0.5-1cm in diameter across patient's anterior and posterior trunk, upper extremities and lower extremities – sparring the face.
- Clinical diagnosis of Chlamydia psittaci made given exposure to aerosolized bird feces and course of disease, and patient was prescribed a course of Doxycycline 100mg twice a day for 10 days with good resolution of rash and no residual symptoms after first few days of antibiotics.

Psitt-ups in the Park: A Bird's Eye View of Exercise Exposure to Psittacosis Kamron Salavitabar, D.O. Penn State Health; State College, PA



Figures 1-2

figure 2 shows patient's posterior torso. Both picture depict light pink, salmon colored non raised rash.

Figure 3

Image taken on the day of presentation. Figure showing anterior torso as above as well as anterior surface of upper extremities with light pink, salmon colored non raised rash.



Images taken on day of presentation. Figure 1 shows the patient's anterior torso,



Discussion:

- Differential for this presentation could include tick borne diseases such as rickettsia or Lyme, streptococcal infection, cytomegalovirus, or contact dermatitis.
- Dermatologic manifestations of Chlamydia psittaci are rare with few case reports in the literature.
- Importance is given to history-taking with initial exposure to the vector.
- Chlamydia psittaci is a relatively uncommon disease to encounter in everyday practice. Psittacosis pandemics have not been reported in the 21st century, most cases are small and localized.
- Recognition is especially important in pregnant individuals some studies have shown 82.6% fetal mortality and 8.7% maternal mortality from gestational psittacosis.⁴
- In pregnant individuals, a course of erythromycin is recommended in the stead of doxycycline.

Work Cited:

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- 2. Hogerwerf, Lenny, et al. "Animal Sources for Zoonotic Transmission of Psittacosis: A Systematic Review." BMC
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- https://doi.org/10.1186/s12879-020-4918-y.
- 3. Macheta, M.P., et al. "Psittacosis, Panniculitis and Clofazimine." Journal of Infection, vol. 28, no. 1, 1994, pp. 69–71.,
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