

Evaluation of Wing Fractures and Impact on Survival and Re-release

Katherine O'Neill March 11, 2013

History

- Pacific Wildlife Care (PWC)
- Established: 1984
- <u>Mission</u>: To rehabilitate and return to their natural habitat orphaned, pollution-damaged and injured wildlife; to educate our community to value wildlife including the need to represent the environment we share with them.
- Morro Bay Facility opened Spring 2007

Objective

 To analyze data on birds with wing fractures and establish a triage to help PWC make the most cost effective decisions for treating birds admitted to the center.

Goals

1. Learn to train new volunteers and perform everyday operations.

2. Assist Dr. Shannon Riggs with procedures.

3. Look for trends in the relationship between wing fractures and recovery.

Data Collection

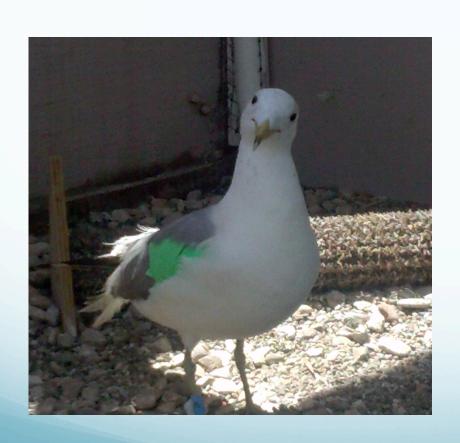
 Collected data using Animal Care Records from 2007 to 2013*

WRMD

Entered all relevant data into Excel

Case ID: 359

Western Gull: Closed fx at radius





Case ID: 556

Scrub Jay: Closed fx mid-diaphyseal R ulna





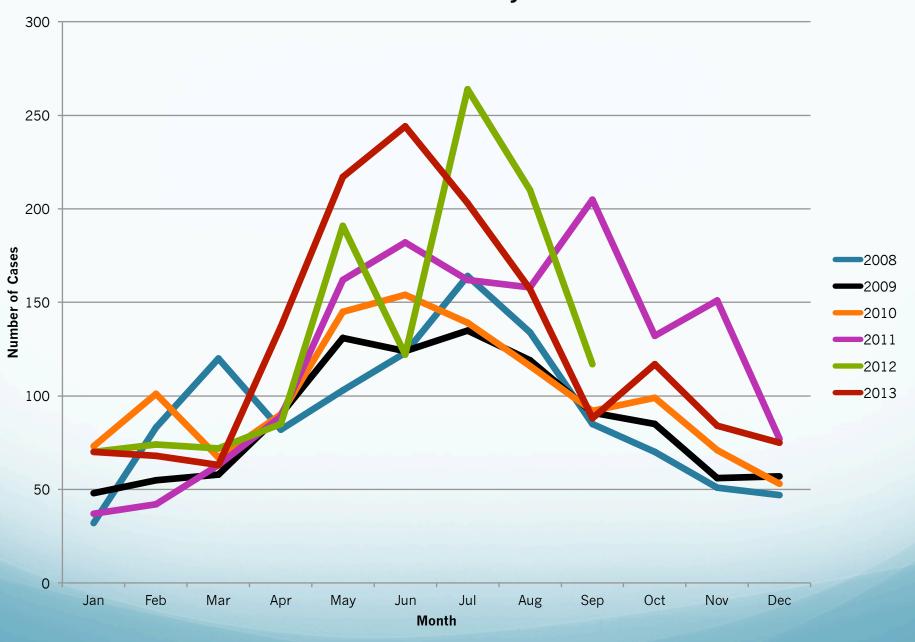


Data

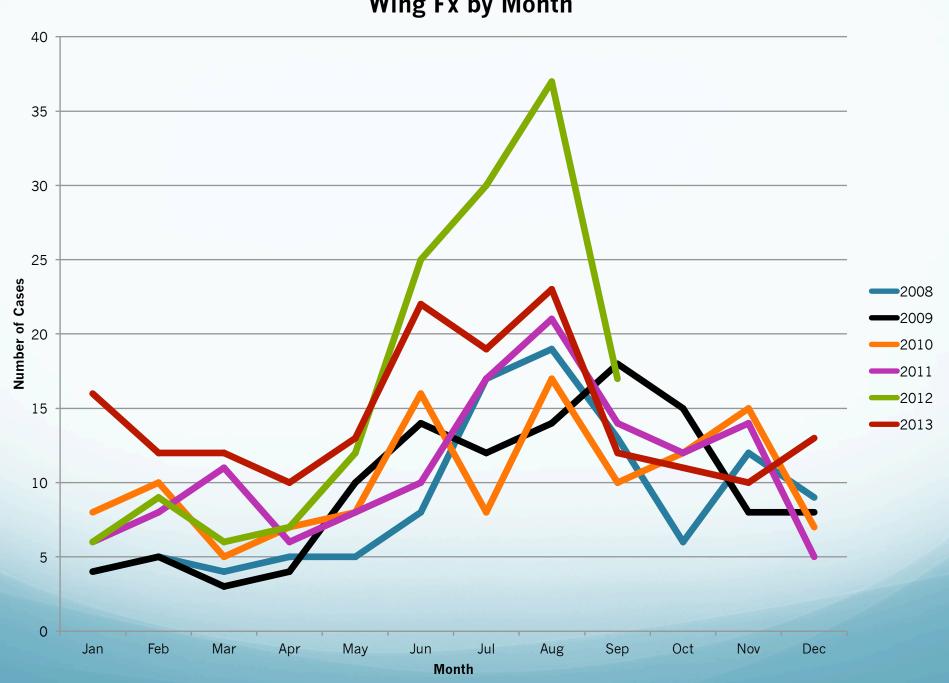
- On average :
 - 80% of cases are birds
 - 11% of bird cases are wing fractures

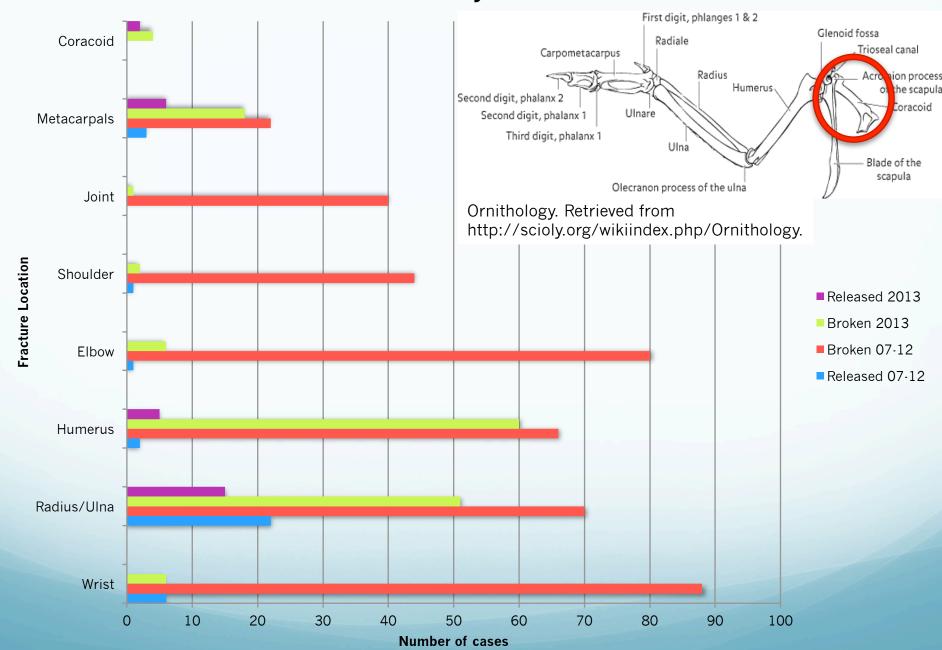
Year	Total Cases	Total Bird Cases	Total Non Bird Cases	Wing Fx	% Wing Fx	% Survival	% Bird Cases
2007	719	601	118	70	11.65	10.00	83.59
2008	1432	1094	338	107	9.78	5.61	76.40
2009	1336	1049	287	115	10.96	10.43	78.52
2010	1476	1200	276	123	10.25	5.69	81.30
2011	1735	1460	275	132	9.04	2.27	84.15
2012	1540	1210	330	152	12.56	5.26	78.57
					10.71	6.54	80.42
2013	2018	1523	495	173	11.36	16.76	75.47
					11.36	16.76	75.47

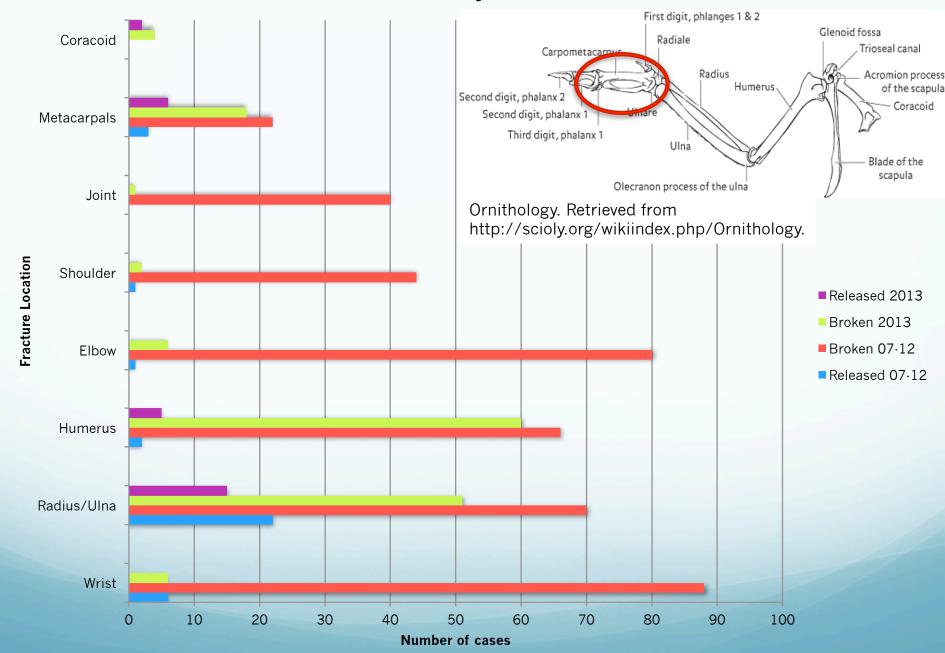
Total Bird Cases by Month

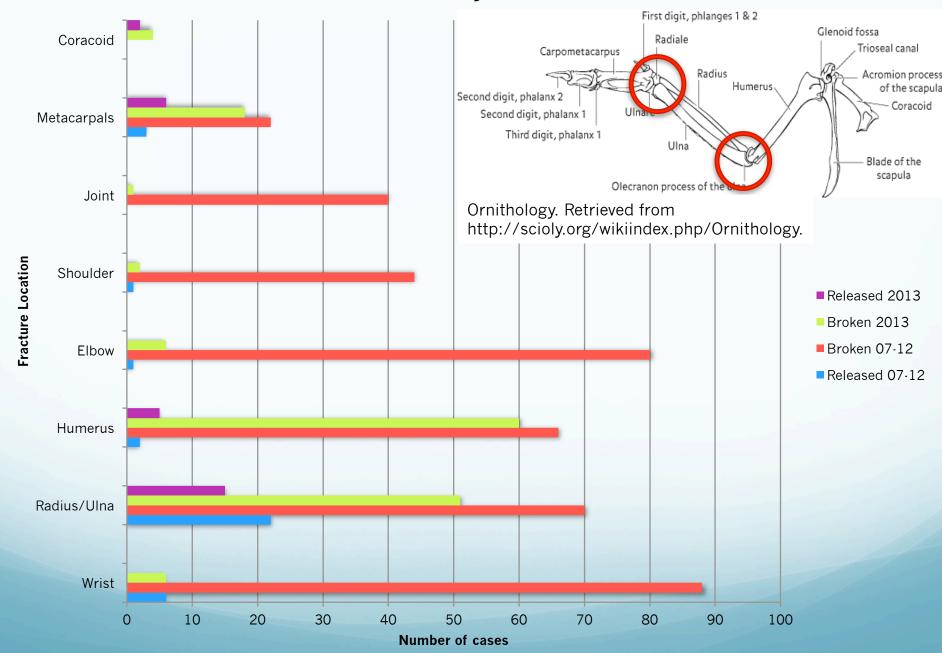


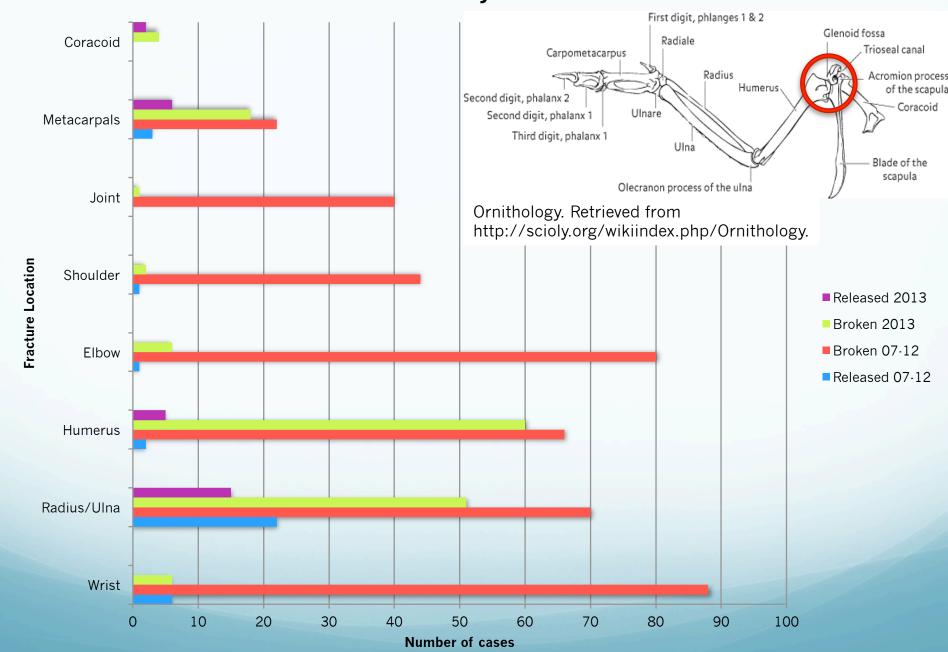
Wing Fx by Month

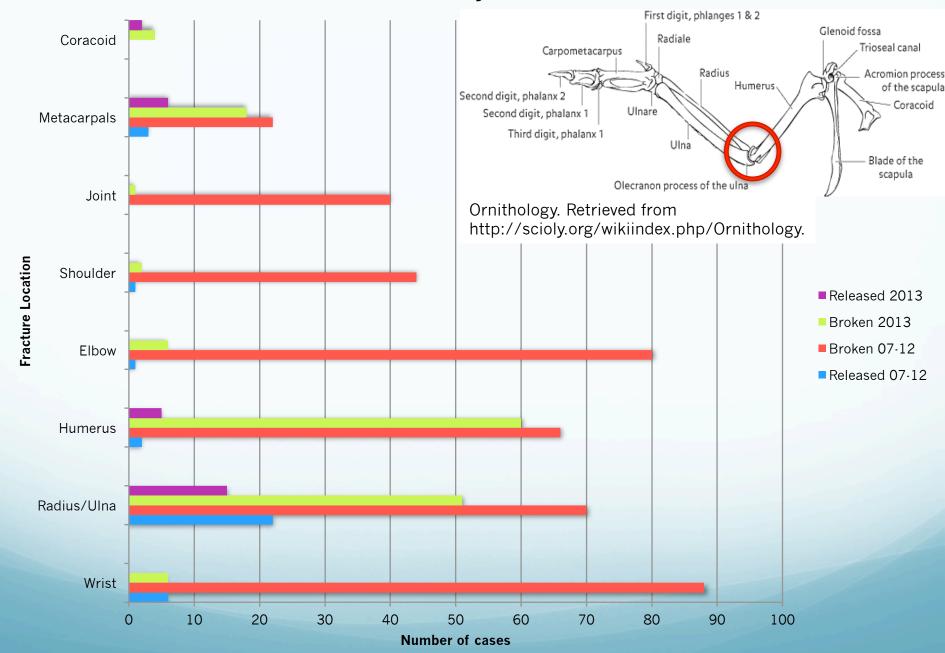


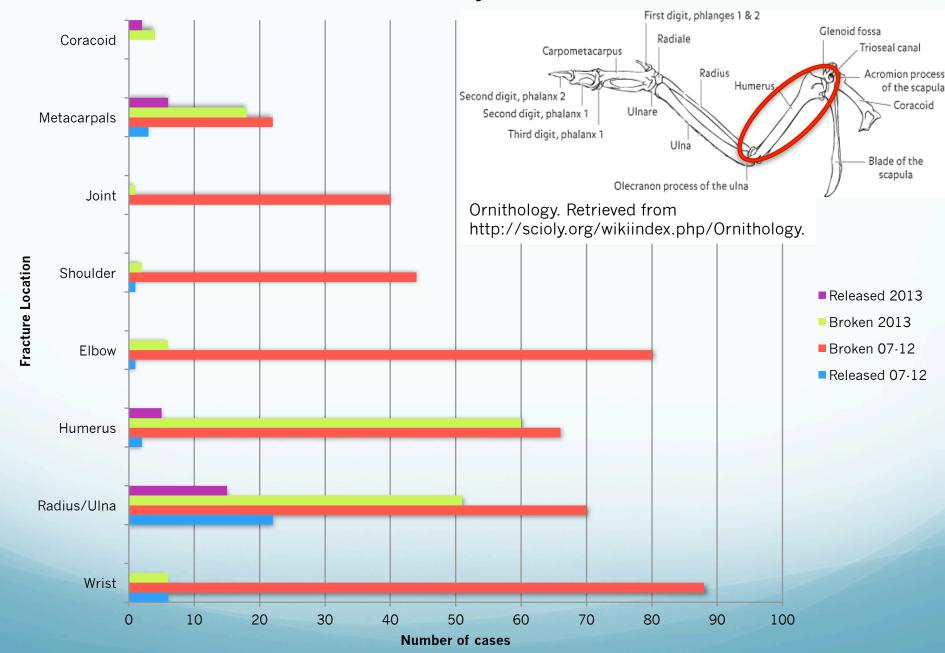


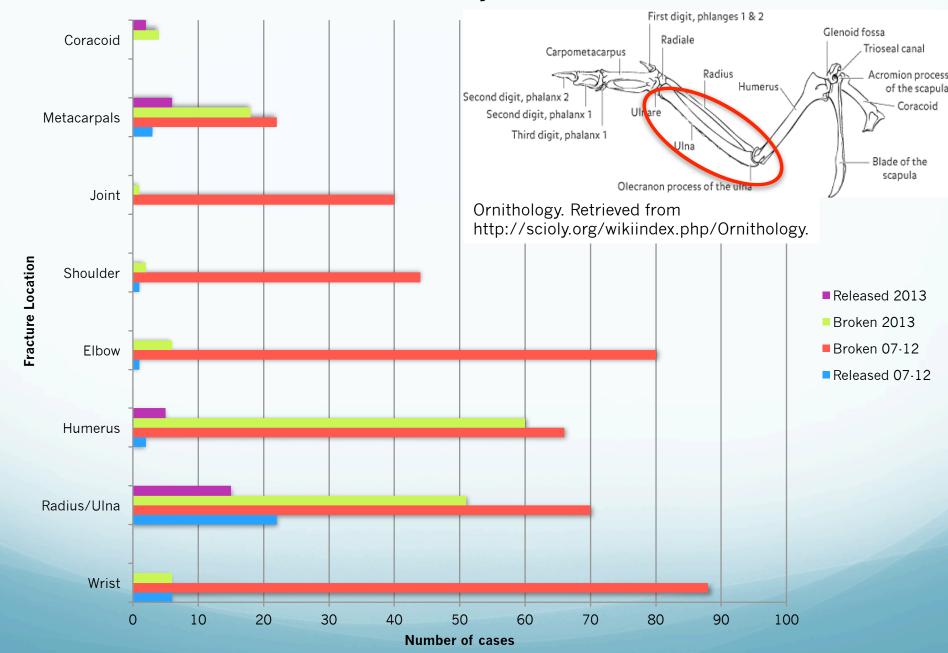


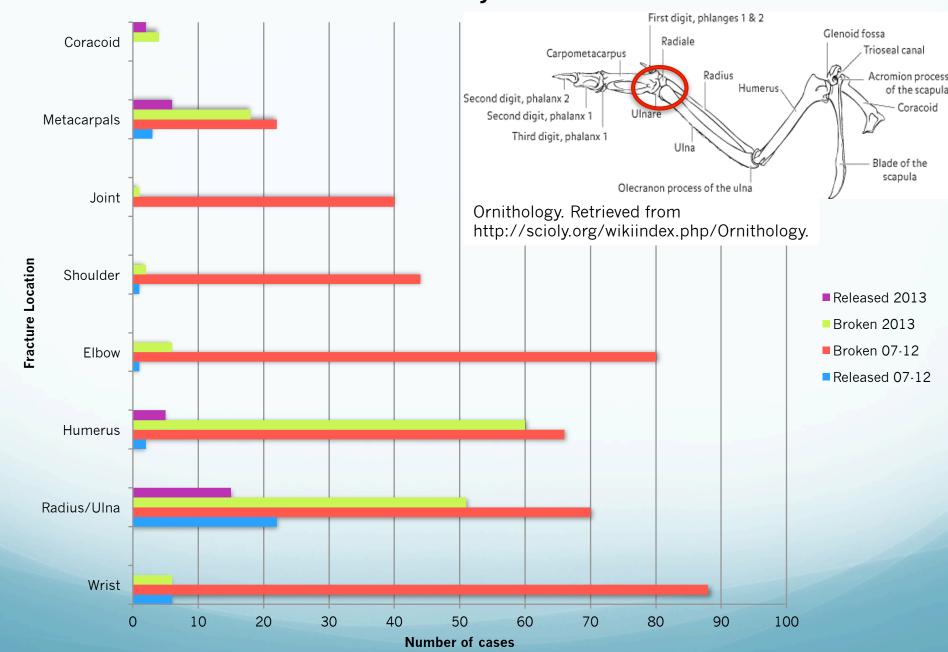




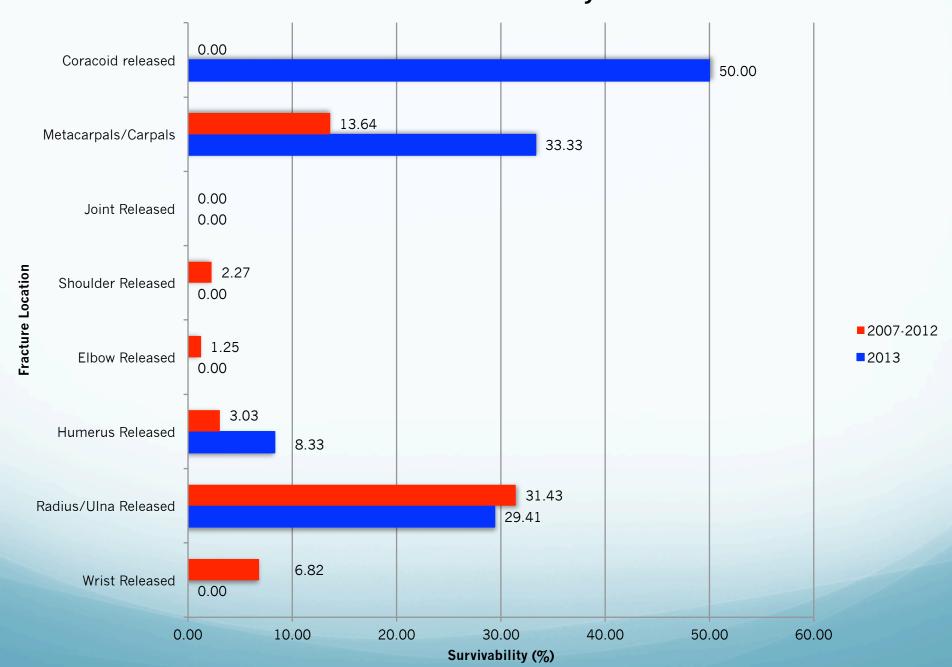


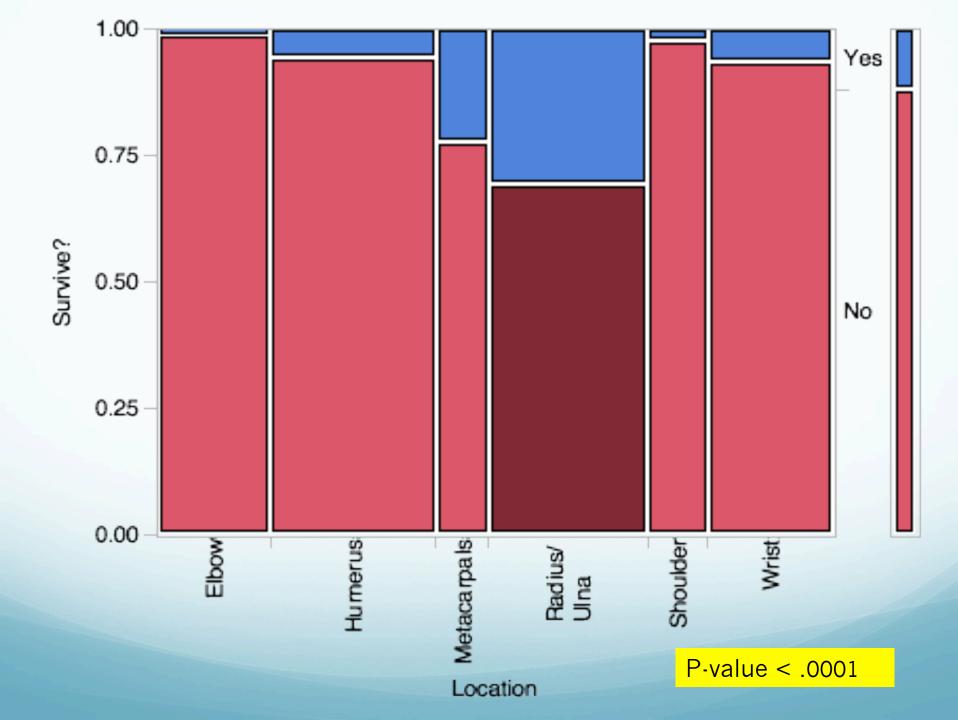






Percent Survivability

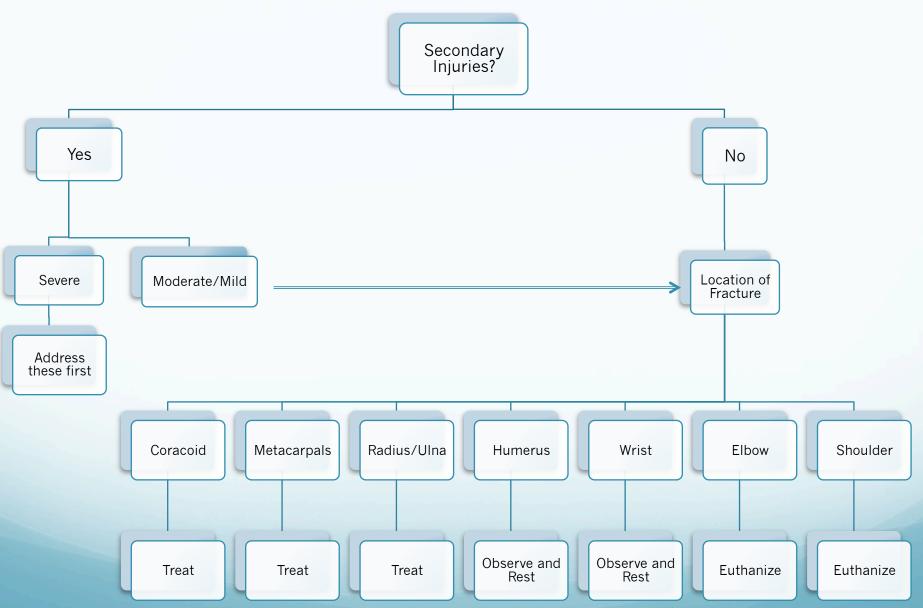




Triage

- Cost to treat- \$250 300.
 - Variable by amount of time spent at the center
 - Additional injuries
 - Medications

Triage



Considerations

- I would like to thank Pacific Wildlife Care
- Dr. Plummer and the Animal Science Department
- Dr. Kevin Ross

Works Consulted

- 1. Ornithology. Retrieved from http://scioly.org/wiki/index.php/Ornithology.
- 2. Fowler, A. "Fractures in Birds." Web 7 Mar. 2014. http://www.ozarkwild.org/fracturebirds.php

Questions?

