## Occipitoatlantoaxial Malformation

A neurologic condition caused by inherited bone deformities in the spinal column in Arabian Horses

## The Phenotype

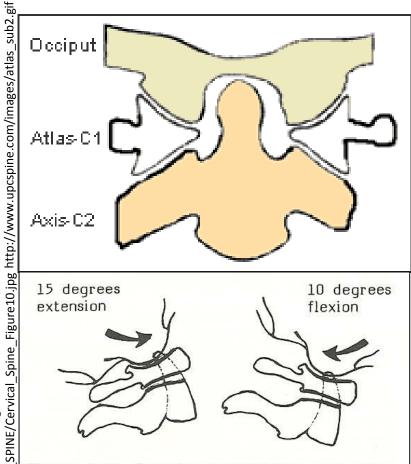
- Ataxia or tetraparesis
- Abnormal Head Position
- Progressive ataxia
- Extended neck posture
- Clicking noise during flexion and extension
- Still born



http://horsebreedslist.com/Content/hors e-images/97/big/arabian-picture-1.jpg



## Occipitoatlantoaxial malformation (OAAM)



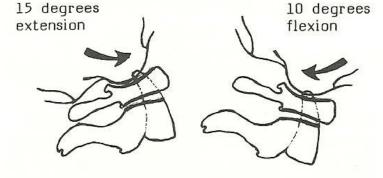


Figure 3.10. Occipitoatlantal flexion and extension (Courtesy ACAP).

X-Ray: Lateral View, OAAM Affect Horse



nttp://www.chiro.org/ACAPress/GRAPHICS/THE CERVICAL

## **Data Creation**

- Whole Genome sequencing
  - 13 X coverage
  - 2 affected foals
- Variant Analysis
- Sanger sequencing of additional individuals

