

Goals:

Discuss the why & how of hands-free radiology, and give interested parties a head start

Start with the "why" and move to the "how"



Hands Free Radiology Defined

Taking radiographs without using human hands/bodies to restrain the patient.

Ideal - humans are 6+ ft from the radiology table, helpful – humans hands off & as far away as possible

A patient and team centric approach to the radiographic process

Hands Free Radiology Rationale

The goal: to improve safety for our associates, improve care for our patients, and provide diagnostic images for our DVM team

-

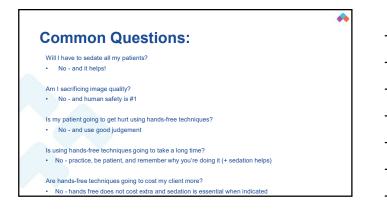
Ionizing radiation is hazardous and lowering exposure is critical

Human healthcare professionals are not expected to be close to the radiology exposure

Successfully implemented in other parts of the world in veterinary medicine

Low compliance on PPE





Radiation Risks & Requirements

6

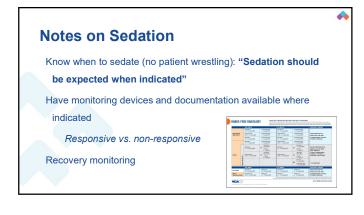
No known "safe" level of radiation Exposure is accumulative and should be limited

- Radiologic workers studies
- 3 ft leakage from x-ray tube (watch your head)
- PPE requirements: lead apron, lead thyroid shield, lead gloves, +/- eyewear (+ dosimeter badge) > Gloves must be enclosed > Gloves must be enclosed ≻

> ALARA: As low as reasonably achievable

- AA
- Time, shielding, distance Property of inverse square law: If you double your distance from the exposure, your absorbed radiation dose is reduced by 75%





3

Hands Free Thoracic Radiographs



Hands Free Thoracic Radiographs



Hands Free Abdominal Radiographs





Hands Free Abdominal Radiographs







Hands Free Abdominal Radiographs





Hands Free Abdominal Radiographs





Hands Free Orthopedic Radiographs







Hands Free Orthopedic Radiographs





Hands Free Orthopedic Radiographs



Hands Free Orthopedic Radiographs



Hands Free Orthopedic Radiographs



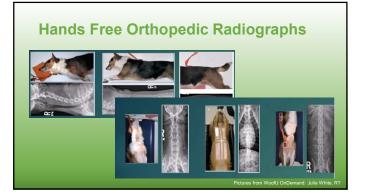
Hands Free Orthopedic Radiographs





Hands Free Orthopedic Radiographs











Let's Go!

How do we start?

- Supplies
- Staff commitment
- Build skills
- Tips:
 4 minute timer?
 - Chest & abdomen films Ortho films are sedated
- Reporting in Woofware
- Hands-light if needed



<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header>





Pictures Continued



Pictures Continued









Pictures Continued







<section-header><section-header>



