

How well does an oral examination detect periodontal disease?



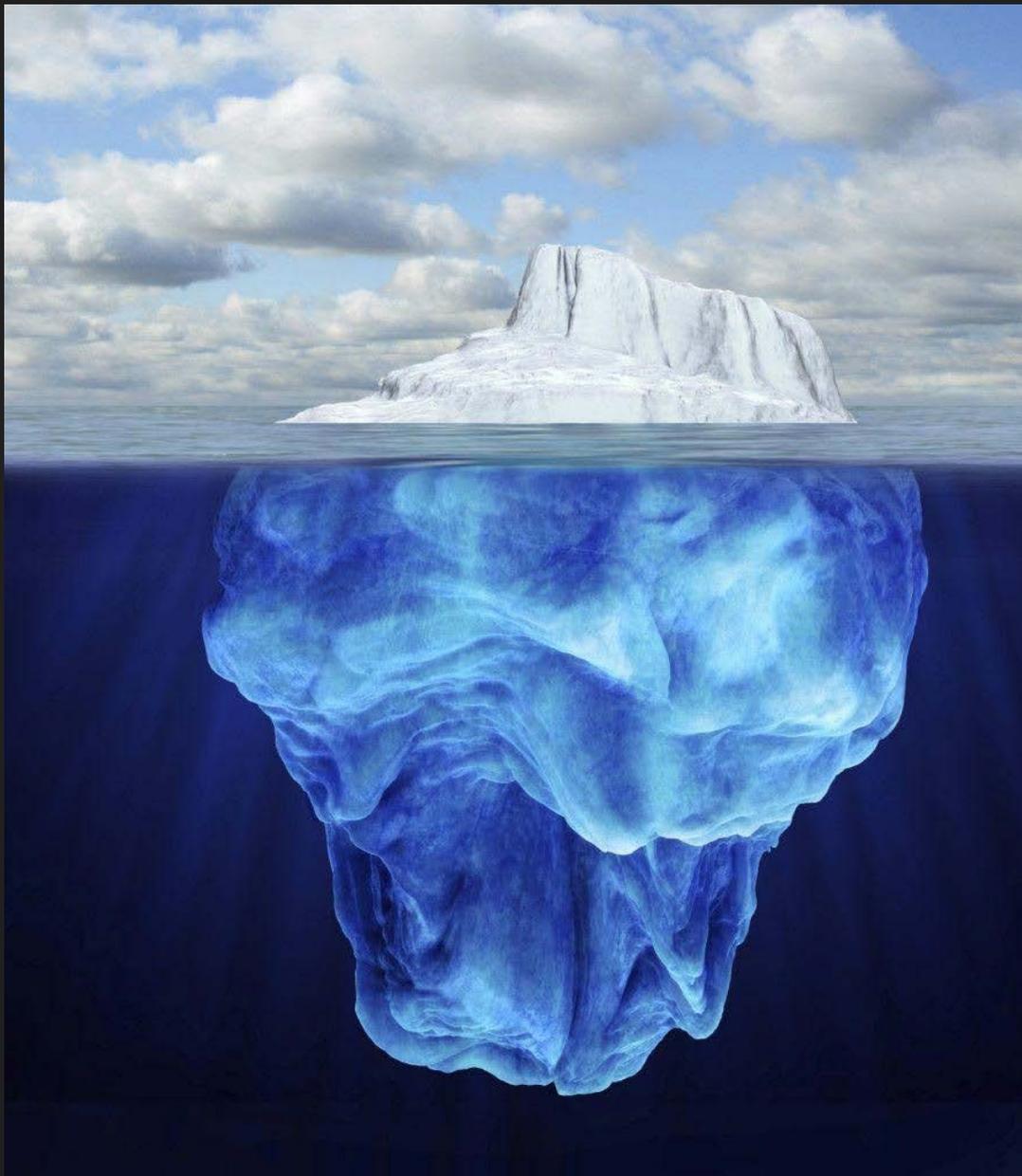
Oyvid Tangin <http://scienceboom.com/301/amazing-stripped-iceburg-photographs.htm>

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February is National Pet Dental Health Month



MOST DENTAL DISEASE OCCURS BELOW THE GUM LINE, WHERE IT'S HARD TO SEE.

Most dental disease occurs below the gumline, where you can't see it. Start a discussion with your veterinarian today about your pet's oral health.

avma.org/petdental



Stage 0

No plaque or calculus
Normal gums



No bone loss

Stage I

**Mild amount of plaque
Gums are mildly red**



**No bone loss
Reversible**

Stage II

**Moderate amount of plaque
Redness and swelling of the
gums**



**Bone loss
of 0-25%
Irreversible**

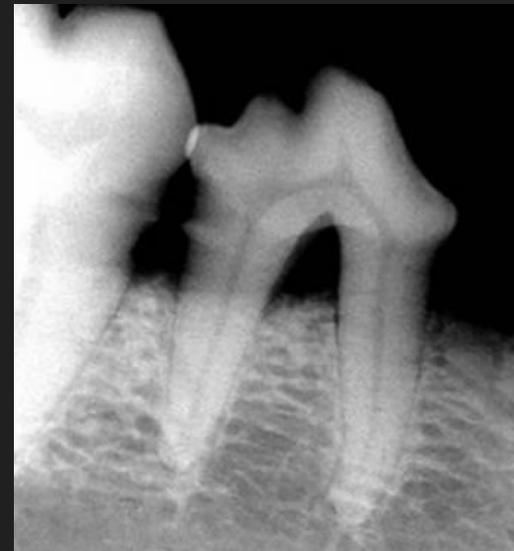
Stage III



Tartar is present
Gums are pulling back
from the teeth (receding)
or enlarging (hyperplastic)

Bone loss of 25-50%

Irreversible



Stage IV



Heavy tartar

Severe inflammation of the gums

Evidence of infection or tooth loss

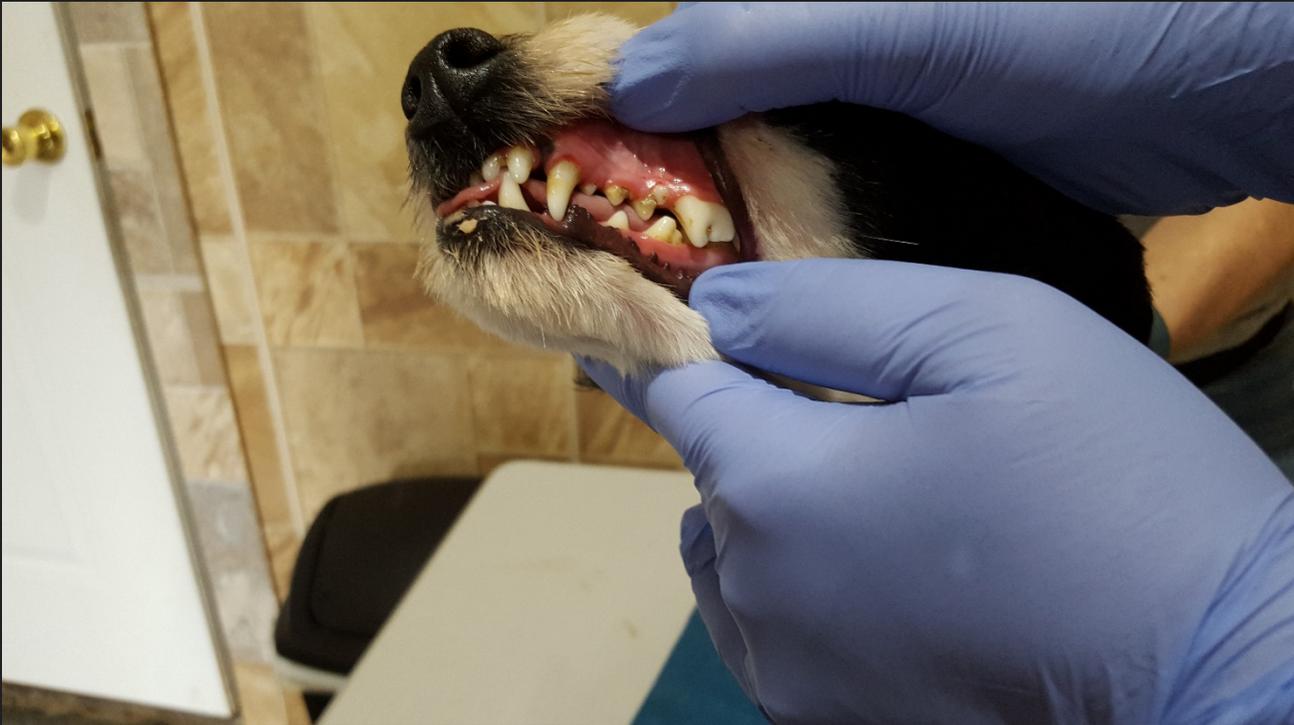
**Greater than
50% bone loss**

Irreversible



http://www.dentalvet.com/vets/basicdentistry/whywhenhow_radiology.htm

How well do



radiographs under ane



<http://avdc.org/AFD/what-is-a-professional-veterinary-dental-cleaning/>



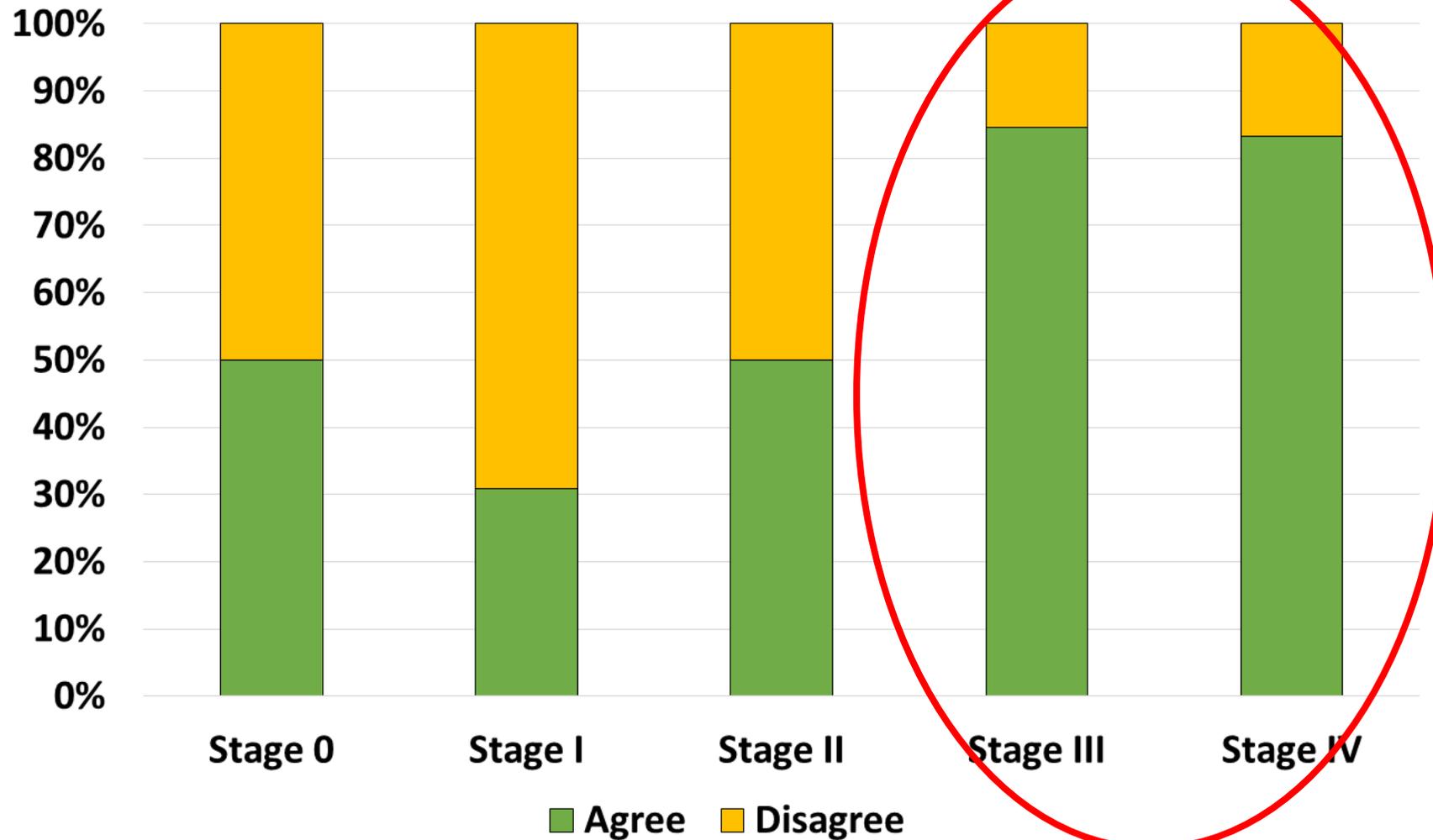
http://www.oralatp.com/?p=53#pd_2

Materials and Methods

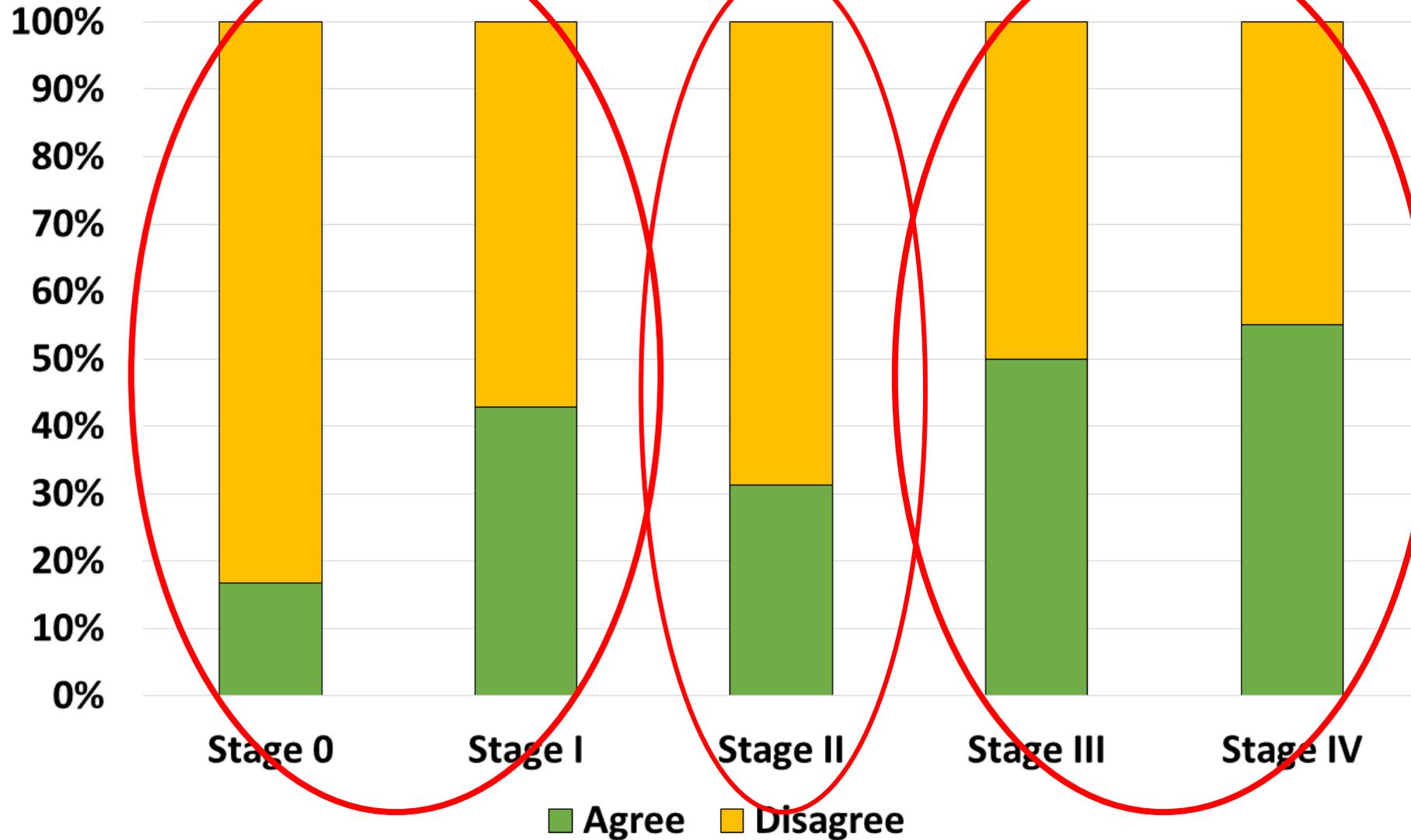
- ◆ 2 raters with clinical experience
- ◆ 89 client owned dogs from 3 veterinary facilities
 - ◆ Evaluated by the rater(s) prior to anesthesia
 - ◆ Categorized by the attending veterinarian after anesthetic examination and radiographs

Results

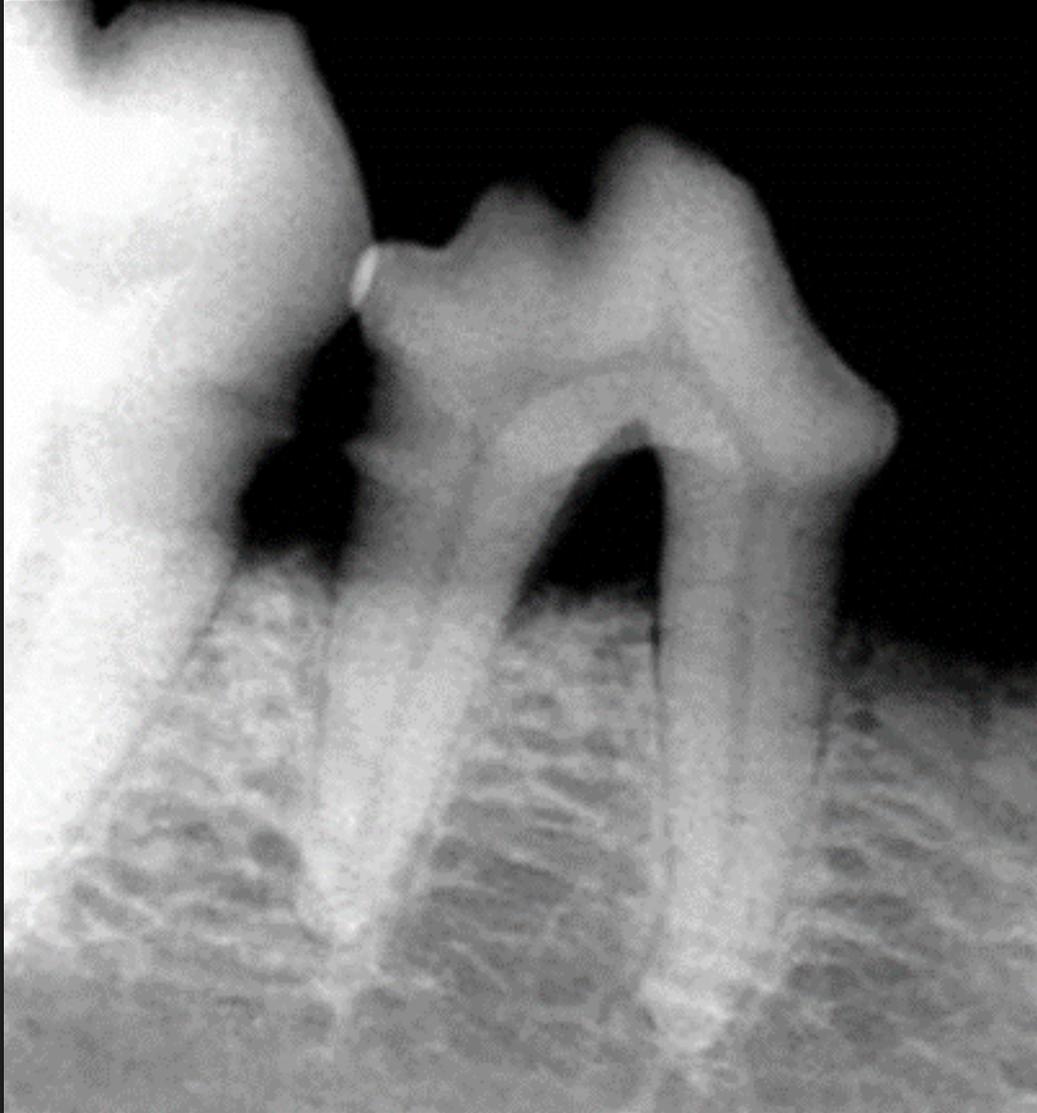
Agreement between raters by periodontal disease stage



Agreement between raters and anesthetic examination results



Discussion



deal
on
de
on
eat



Recommendations

Flip the lip



Think beneath the surface

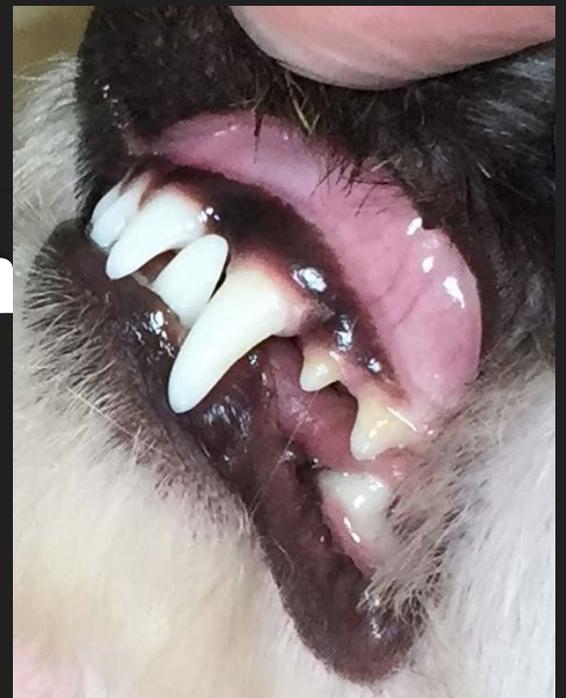


<http://www.scubadiving.com/explore-best-kept-secret-dive-spots-around-globe>

Recommendations

Stage 0 or I monitor for progression

◆ Focus on preventive care



Stage II needs veterinary evaluation

◆ Bone loss is not reversible, but further bone loss can be prevented



Stage III or IV need veterinary care as soon as possible

◆ **Pain management**

◆ **Disease in other parts
of the body**

Glickman, et al., 2011; Lemmons, 2009

◆ **Reproductive consequences**

Xiong, et al., 2006





 Kolibree

www.kolibree.com

Acknowledgements:

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Participating veterinary facilities:

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Wea Animal Hospital

Croney Lab members:

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Andrew Pietraniec

Mikayla Small

Lynda Mugenda

Lindsay Fisher

The families of all participating dogs

Purdue University Clinical Trials

Becky Bierman

Dr. Gert Breur

WPA

PFI

