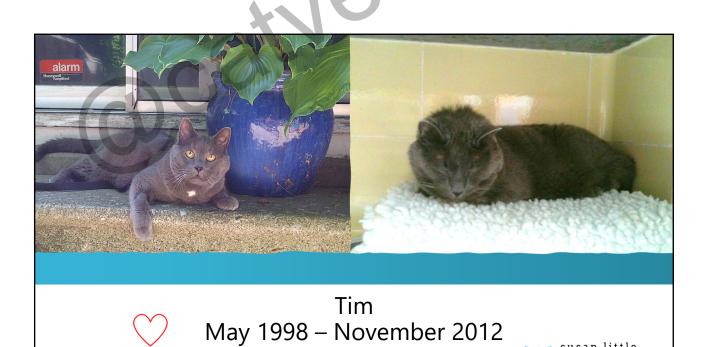
# Assessment of acute pain in cats using scoring systems

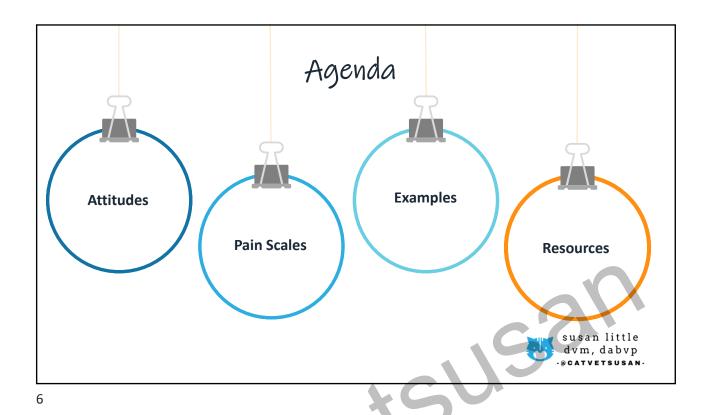
Susan Little, DVM, DABVP (Feline)

Bytown Cat Hospital, Ottawa, ON, Canada
@catvetsusan
catvet@vin.com



1





Pain is under recognized and under treated in cats

LATS ARE NOT DOGS
Indicators may be subtle

Pain looks different in cats

Pain looks different in cats

We need more safe, effective analgesics for cats

Susan little dvm, dabvp.ecatvetsusan.

# Attitudes about pain in cats



8

### Surveys of veterinarians

#### BRAZIL

 Cats are less painful than dogs after common surgeries.

#### NEW ZEALAND

Analgesics often used while the animal is in the hospital, but not after discharge.

#### 5

- Spay & castration are more painful for dogs than cats.
- Lower rates of analgesics prescribed for cats.
- Some pain helps reduce activity after surgery.

### FRANCE

- Don't involve vet technicians in assessment of pain.
- Misconceptions about analgesics, especially opioids.

susan little dvm, dabvp -@CATVETSUSAN-

Lorena S et al, Vet Anaesth Analg, 2014 Hunt JR et al, Vet Rec, 2013 Coleman DL et al, Vet Rec, 2007 Farmworth et al, N Z Vet, 2014 Hugonnard M et al, Vet Anaesth Analg, 2004

# What do owners think?

- · Pain affects quality of life
- Analgesia is important
- All necessary analgesic drugs/techniques should be used
- Cat owners believe analgesics are necessary more often than dog-only owners

Simon BT, et al. Vet Surg. 2018;47(2):277-284. Steagall PV, et al. J Small Anim Pract. 2017;58(7):380-388.



10

### Pain assessment is the 4th vital sign

#### Observational

Posture, attitude, body position, facial expression



### Interactive Reaction to t

Reaction to touch/palpation of wound or painful area



dvm, dabvp

Courtesy Dr. Sheilah Robertson







# Pain scales for verbal patients

- Numeric
  - Rate pain from 1 to 10
- Visual analog
  - Rate pain from none to the worst you've ever felt



14

### Pain scales for nonverbal patients

- Orbital tightening
- Nose bulge
- Cheek bulge
- Ear & whisker position





- Crying, irritability, behaviour
  - Facial expression
  - Extremities tone
    - Vital signs



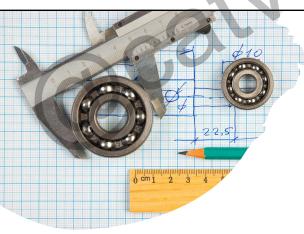


## Acute pain scoring tools with NO validity testing in cats

- 01 University of Melbourne Pain Scale
- 02 Colorado Feline Pain Scale
- 03 Visual analog and numerical rating scales



16



# What is validation? Why does it matter?

- Does it measure what it claims? Or is it measuring something else?
- Are results consistent with different people?
   Or the same person at different times?
- Does the result help me with my patients?

Review > Am J Med. 2006 Feb;119(2):166.e7-16. doi: 10.1016/j.amjmed.2005.10.036.

Current concepts in validity and reliability for psychometric instruments: theory and application

David A Cook 1, Thomas J Beckman





## Acute pain scoring tools WITH validity testing in cats

- 01 Glasgow Composite Measure Pain Scale: Feline
- 02 UNESP-Botucatu multidimensional composite pain scale
- 03 Feline Grimace Scale



18

### 

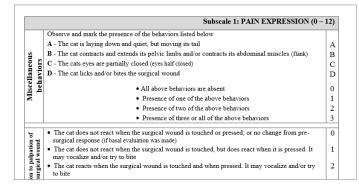
b) Look at the shape of the muzzle in the following caricatures. Circle the drawing which appears most like that of the cat?

Glasgow Composite Measure Pain Scale -Feline

- Behavioural assessment,
   7 questions
- Intervene at >5/20



#### UNESP-Botucatu Multidimensional Composite Pain Scale for assessing postoperative pain in cats

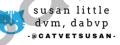


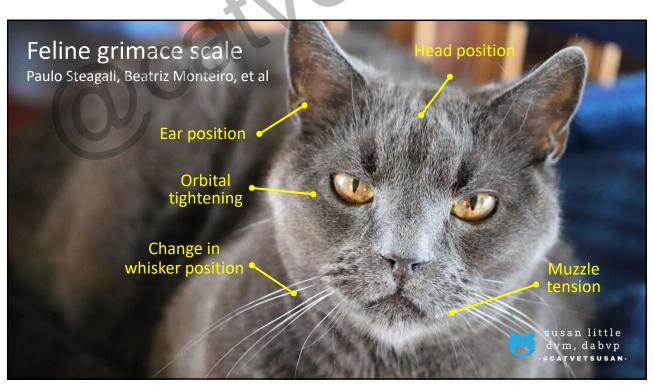
- Reaction to wound palpation
- Behaviour assessments
- Appetite
- Blood pressure

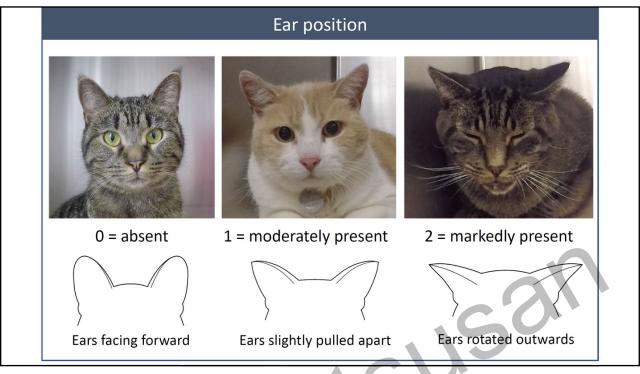
Intervene at ≥7/30

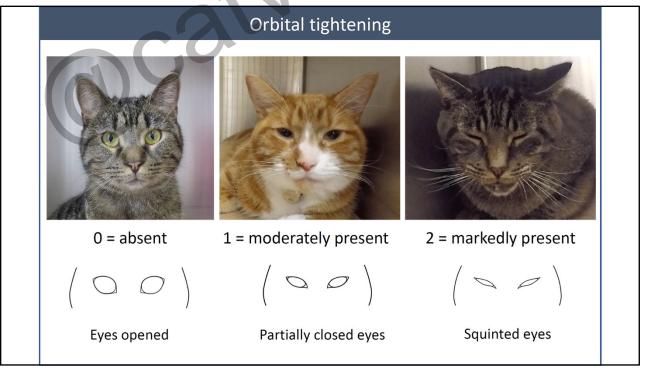
or

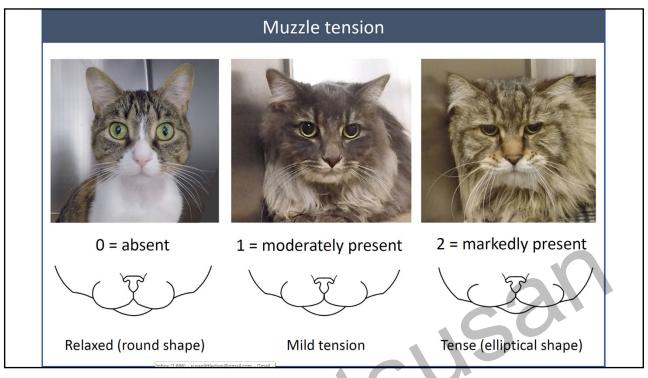
≥6/27 if blood pressure is not assessed

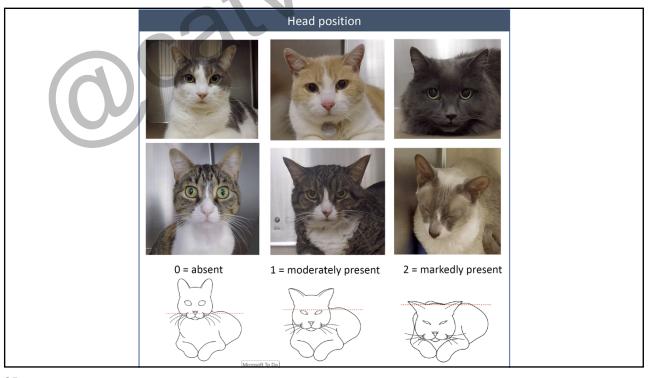




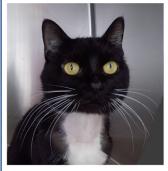








### Whiskers change







1 = moderately present



2 = markedly present



Loose (relaxed) and curved

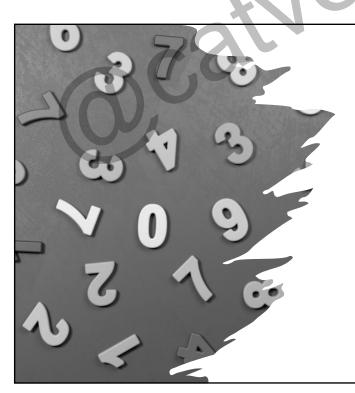


Slightly curved or straight (closer together)



Straight and moving forward (rostrally, away from the face)

26



# Feline grimace scale scoring

#### Total ≥ 4/10:

- Probably needs analgesia.
- Consider the patient's physical status & drugs already given.
- If you're uncertain, score again in 15 minutes.





Ear position 0
Orbital tightening 1
Whisker position 1
Head position 1
Muzzle tension 1

### Comparison of pain scoring tools

#### Glasgow

- Validated for any type of acute pain
- Easy to use
- Observation of behaviour
- Response to palpation
- Facial expression
- 7 questions

#### **UNESP-Botucatu**

- Validated for spay surgery
- Time-consuming, need training
- Observation of behaviour
- Response to palpation
- Appetite, blood pressure
- 10 questions

#### **Feline Grimace Scale**

- Validated for any type of acute pain
- Easy to use
- Facial expression
- 5 questions



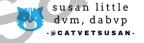
32





# There may be confounding factors...

- Individual cat personality
- Nausea?
- Fear & stress in the hospital
- Effects of some anesthetic drugs
- Effects of some diseases
- Lack of training/experience with scoring tools





Resources

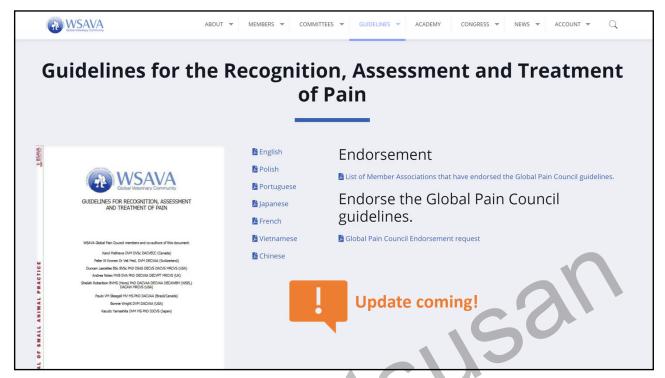














## Journal of Feline Medicine & Surgery journals.sagepub.com/home/jfm







Check out the videos in the supplementary material

42

# Journal of Feline Medicine & Surgery journals.sagepub.com/home/jfm







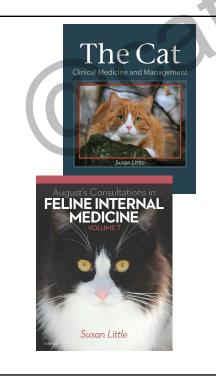


### Final thoughts ...

- No cat should have to prove it is in pain before you provide analgesia.
- If the pain score is good but you think you can do better, trust yourself.
- We now have validated acute pain scoring tools use one!

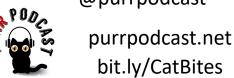


44











drsusanlittle.net