

Anti-inflammatory Drugs

What should I give it?



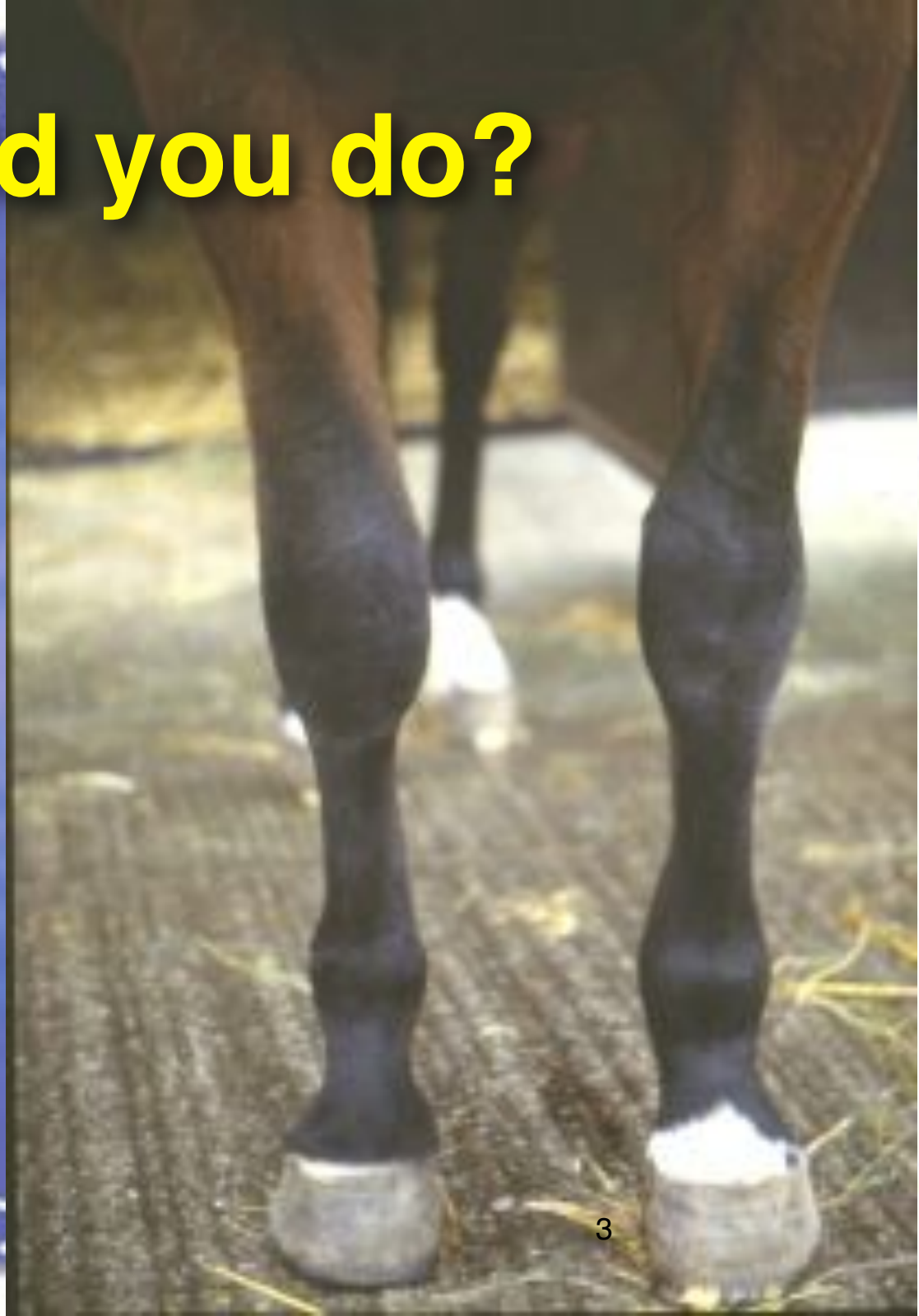
anti-inflammatory drugs

- steroids
- NSAIDs
- anti-arthritic drugs
- odds & ends
- immunomodulators
- anti-cancer drugs



What would you do?

- 7 year old mare
- went lame after heavy work
- now reluctant to use right fore



problems?



problems?

- pain



problems?

- pain
- minor cartilage damage



problems?

- pain
- minor cartilage damage
- minor inflammation



objectives?



objectives?

- relieve pain



drugs?



drugs?

- NSAIDs



drugs?

- NSAIDs
 - ketoprofen



drugs?

- **NSAIDs**
 - ketoprofen
 - flunixin



drugs?

- **NSAIDs**

- ketoprofen
- flunixin
- phenylbutazone?



definitive treatment



definitive treatment

- rest then



definitive treatment

- rest then
- gentle exercise



What would you do?

- calved 10 days ago
- *Staph. aureus*
- on imamm cloxacillin



problems?



problems?

- infection



problems?

- infection
- pain



problems?

- infection
- pain
- inflammation



problems?

- infection
- pain
- inflammation
 - high cell count



treatment objective?



treatment?

- antibiotics
- NSAIDs?
- steroids???



remember

- withholding times!!!



What would you do?

- 8 yr old mongrel
- gradual hair loss
- thin legs and fat belly
- no scratching



diagnosis?



diagnosis?

- Cushing's syndrome



treatment objective?



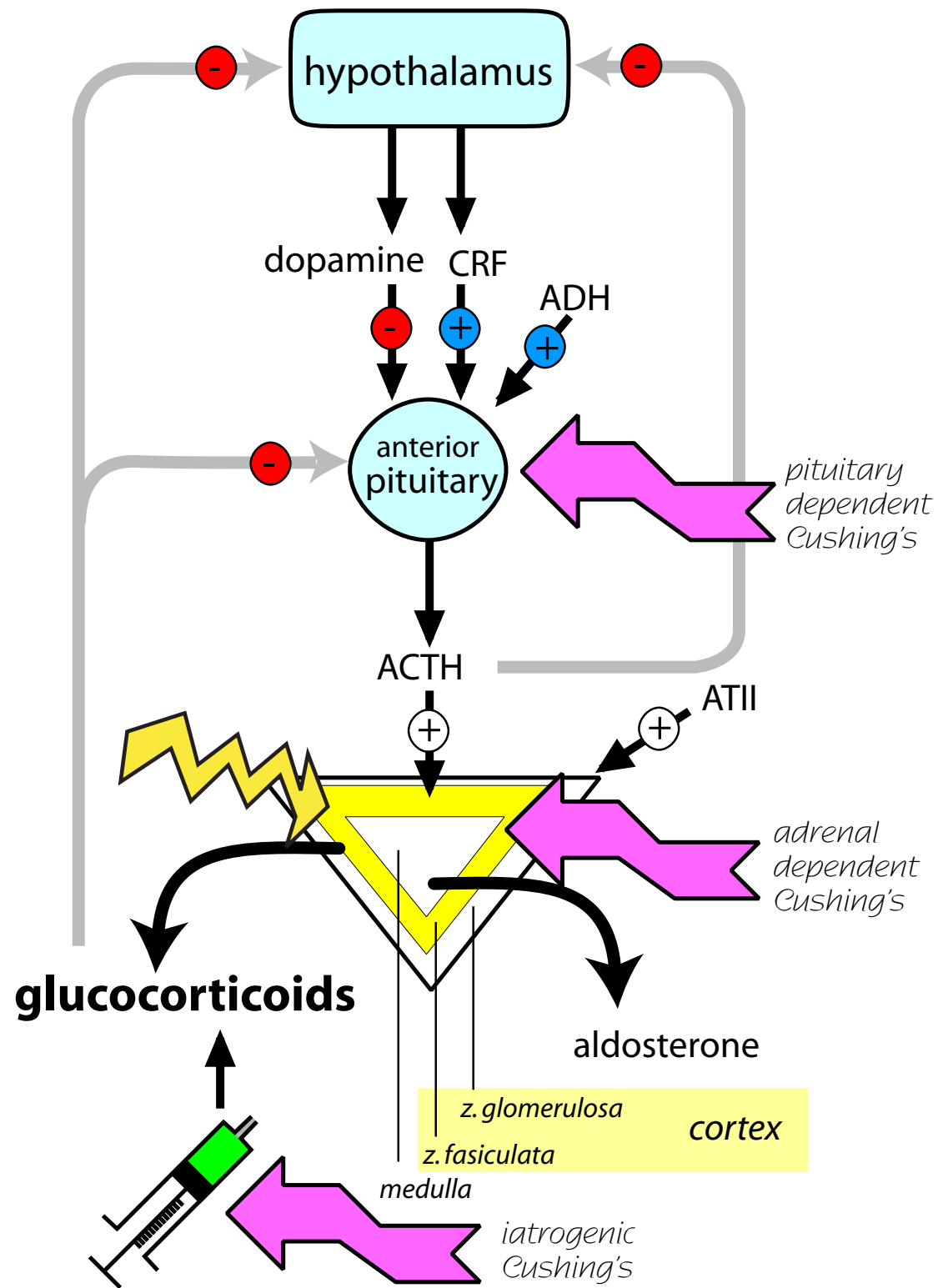
treatment objective?

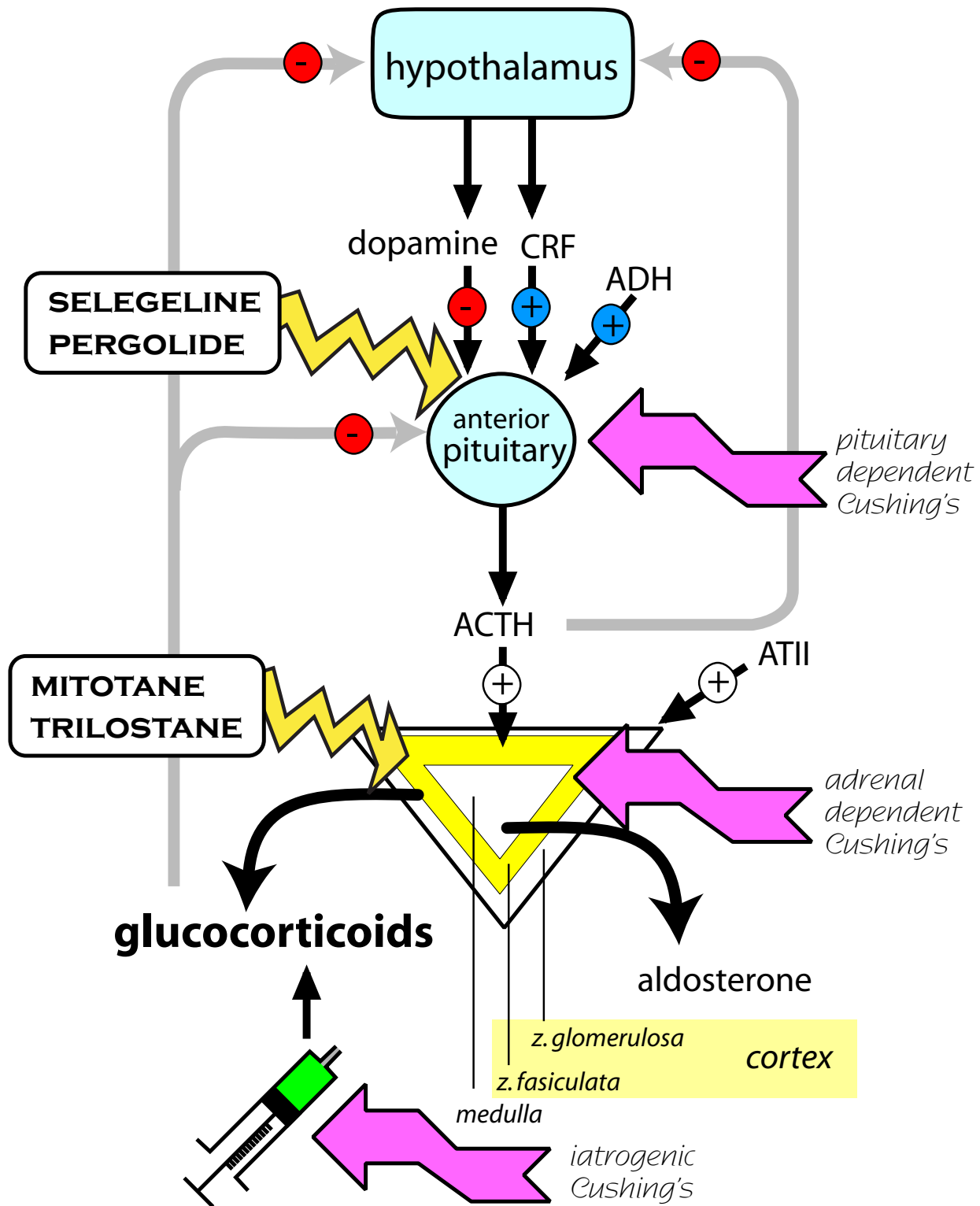
- reduce corticosteroids



treatment?







drugs

- **pergolide**
 - D2 agonist
- **selegiline**
 - MAO inhibitor
- **mitotane**
 - nasty, toxic drug
- **trilostane**
 - inhibits steroid synthesis



What would you do?

- respiratory distress
- inhaled FB removed
- larynx inflamed
- recovering from anaesthesia



problems?



problems?

- airway mucosal damage



problems?

- airway mucosal damage
- airway narrowing



problems?

- airway mucosal damage
- airway narrowing
- respiratory obstruction?



treatment objectives?



treatment objectives?

- ensure clear airway quickly



treatment?



treatment?

- anti-inflammatories?



treatment?

- anti-inflammatories?
- tracheostomy?



treatment?

- anti-inflammatories?
- tracheostomy?
- keep endotracheal tube in?



anti-inflammatory drugs

- **need to be:**
 - potent
 - fast acting
 - long acting?



drugs?

- **corticosteroids**
 - hydrocortisone iv
 - ± dexamethasone (sodium phosphate)???



What would you do?

- 3 wk old calf
- nose inflamed with blisters



diagnosis?



diagnosis?

- foot and mouth???



diagnosis?

- foot and mouth???
- sunburn



treatment?



treatment?

- put somewhere shady for a few days



2 days later...



What would you do?

- 15 year old dog
- been on meloxicam for hip arthritis
- now off food



problems?



problems?

- pain?



problems?

- pain?
 - progression of disease



problems?

- **pain?**
 - progression of disease
- **ulcers?**



problems?

- **pain?**
 - progression of disease
- **ulcers?**
- **something unrelated?**



arthritis

- **treat cause if possible**
- **relieve discomfort**
 - rest
 - diet
 - drugs
 - (joint replacement)
 - arthrodesis / excision arthroplasty
 - euthanasia



drugs in arthritis



drugs in arthritis

- NSAIDs



drugs in arthritis

- NSAIDs
- PSGAGs



drugs in arthritis

- NSAIDs
- PSGAGs
- corticosteroids



drugs in arthritis



drugs in arthritis

- NSAIDs



drugs in arthritis

- **NSAIDs**

- carprofen, meloxicam, etc, etc



drugs in arthritis

- **NSAIDs**
 - carprofen, meloxicam, etc, etc
- **PSGAGs**



drugs in arthritis

- **NSAIDs**
 - carprofen, meloxicam, etc, etc
- **PSGAGs**
 - pentosan



drugs in arthritis

- **NSAIDs**
 - carprofen, meloxicam, etc, etc
- **PSGAGs**
 - pentosan
- **corticosteroids**



drugs in arthritis

- **NSAIDs**
 - carprofen, meloxicam, etc, etc
- **PSGAGs**
 - pentosan
- **corticosteroids**
 - prednisolone



anti-inflammatory drugs

- steroids are the most potent anti-inflammatory drugs
- NSAIDs are useful for both acute and chronic inflammation, but gastric ulceration limits duration of use
- mucopolysaccharides are sometimes used for arthritis in horses and dogs
- many drugs have some anti-inflammatory effect

