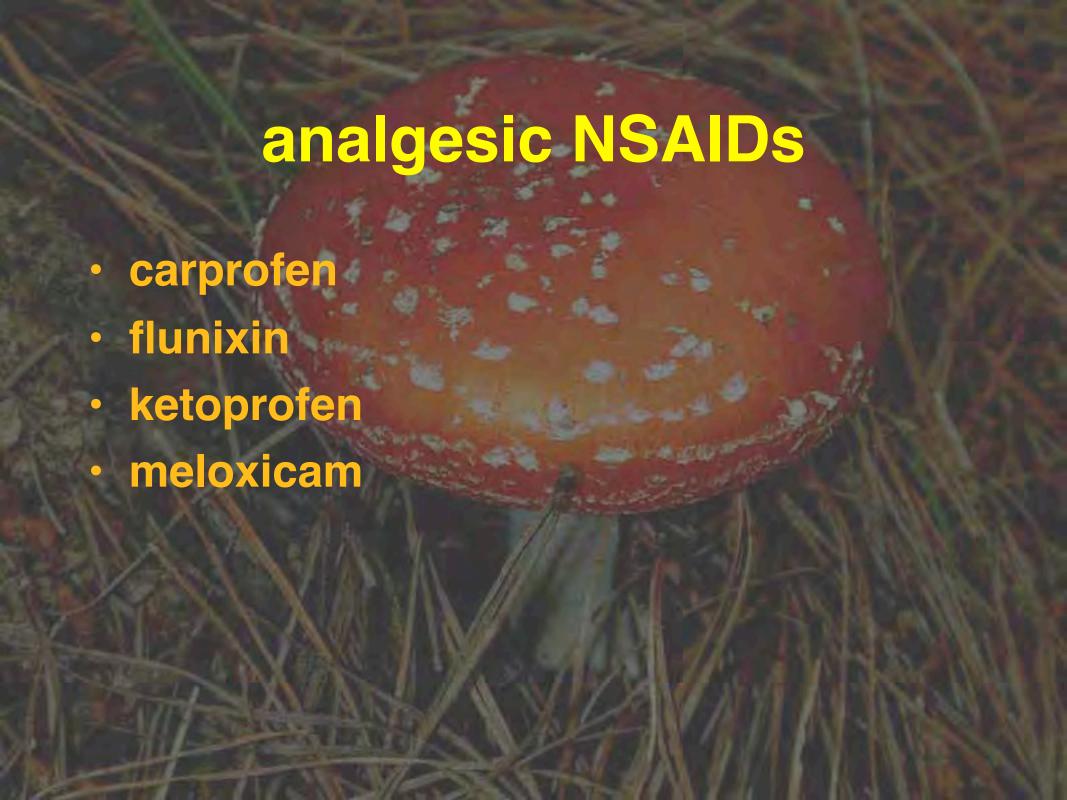
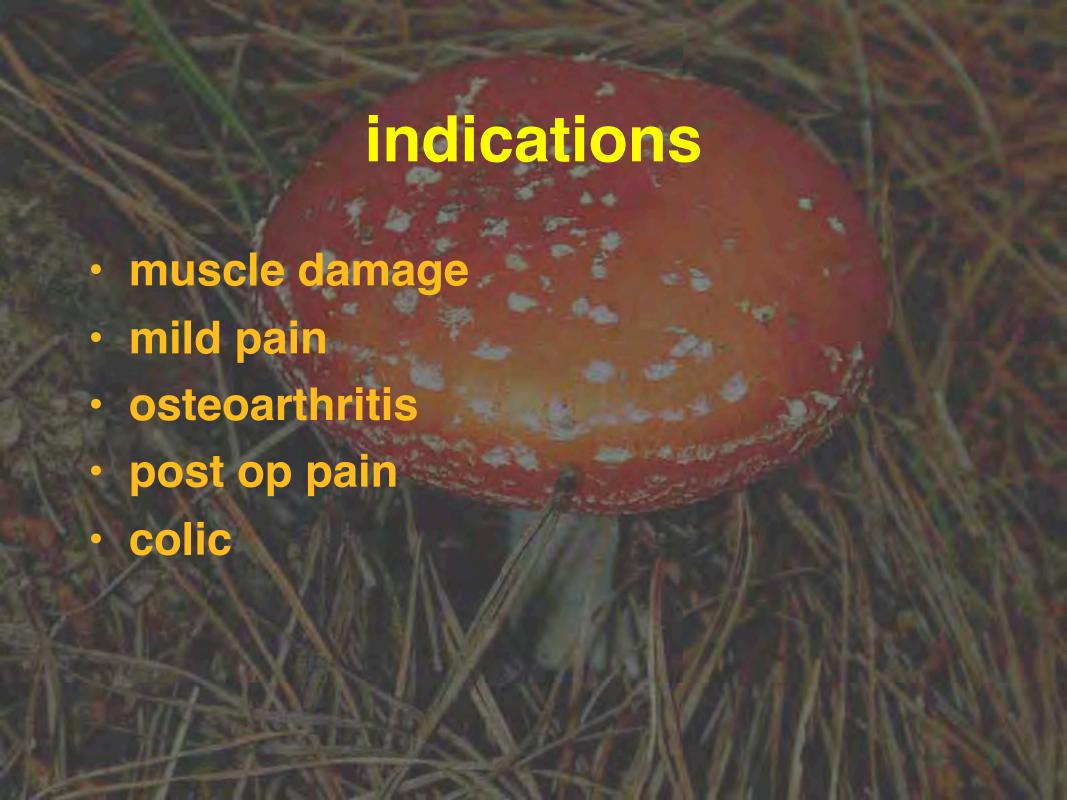




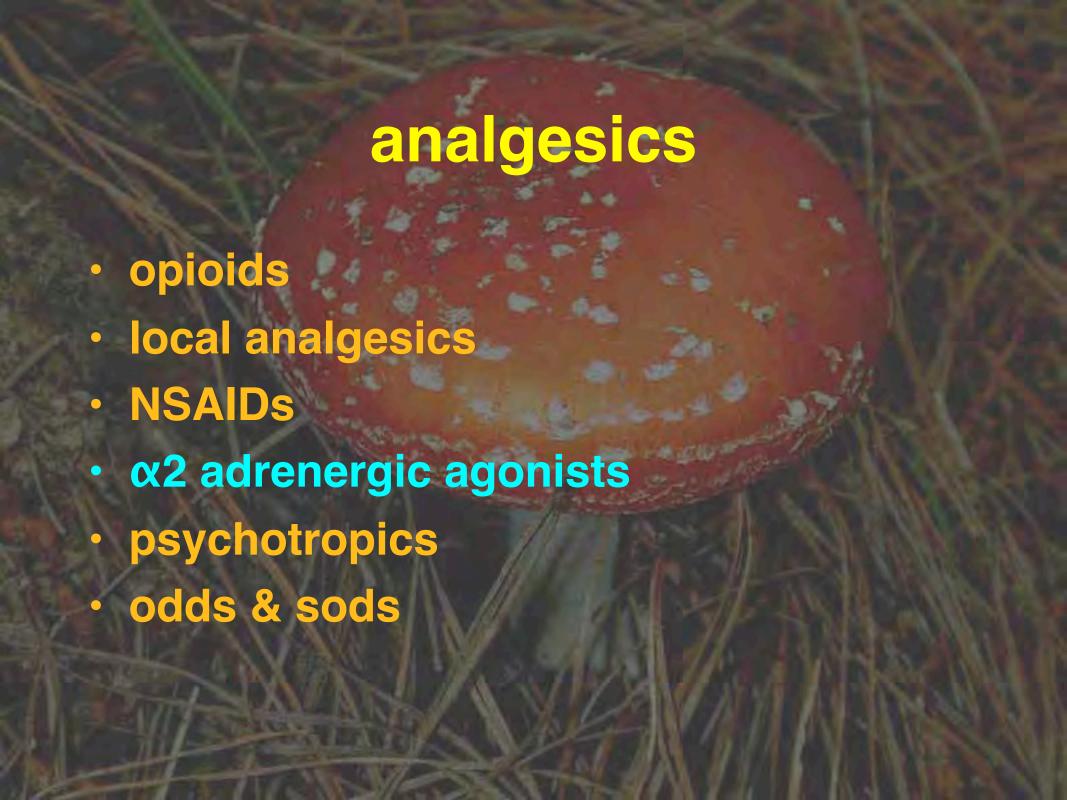
- gastric ulceration
 - common not usually serious
 - limits use to about 5 days
- kidney failure
 - rare often fatal
 - occurs when blood pressure drops
- lots of minor side effects











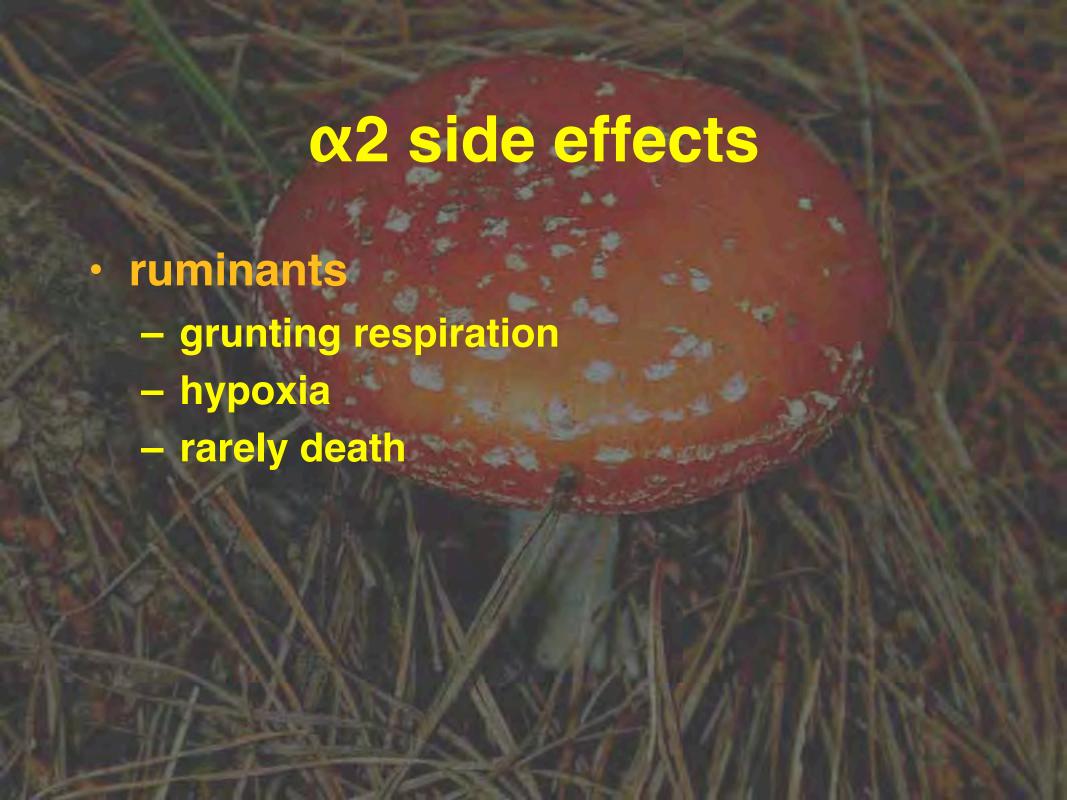
α2 effects

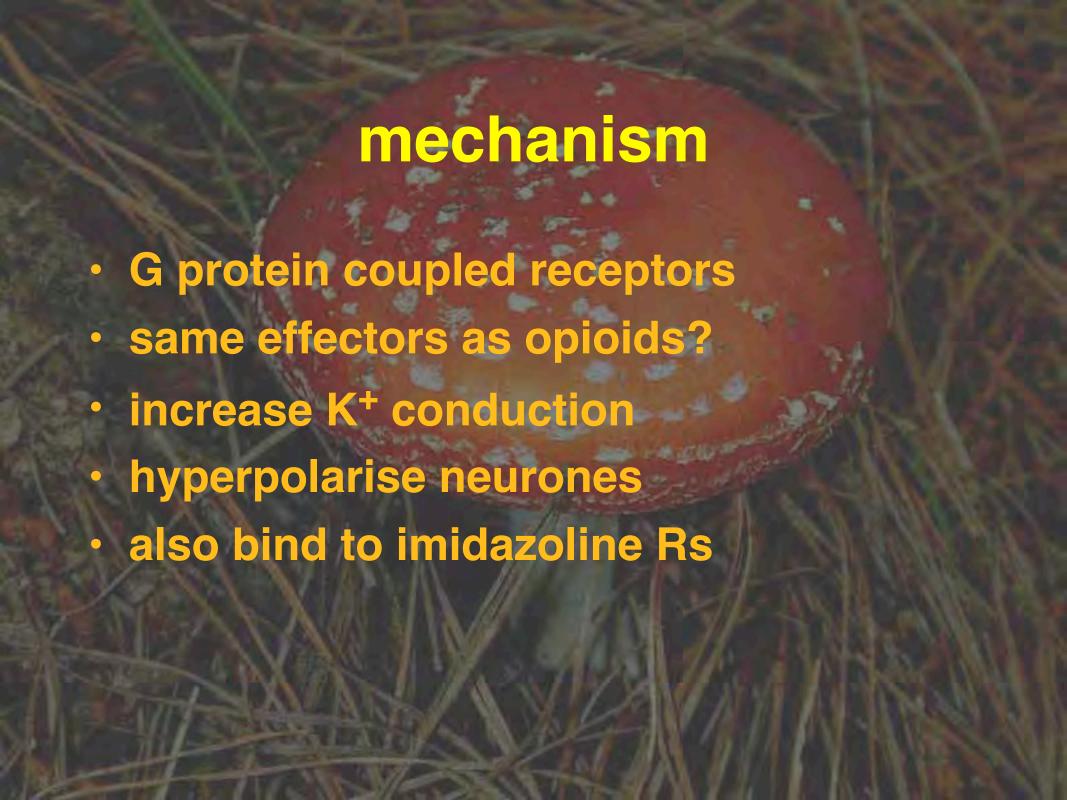
- analgesia
- sedation
- bradycardia
- spasm then relaxation of smooth muscle
- skeletal muscle relaxation
- vomiting
- hypothermia



α2 side effects

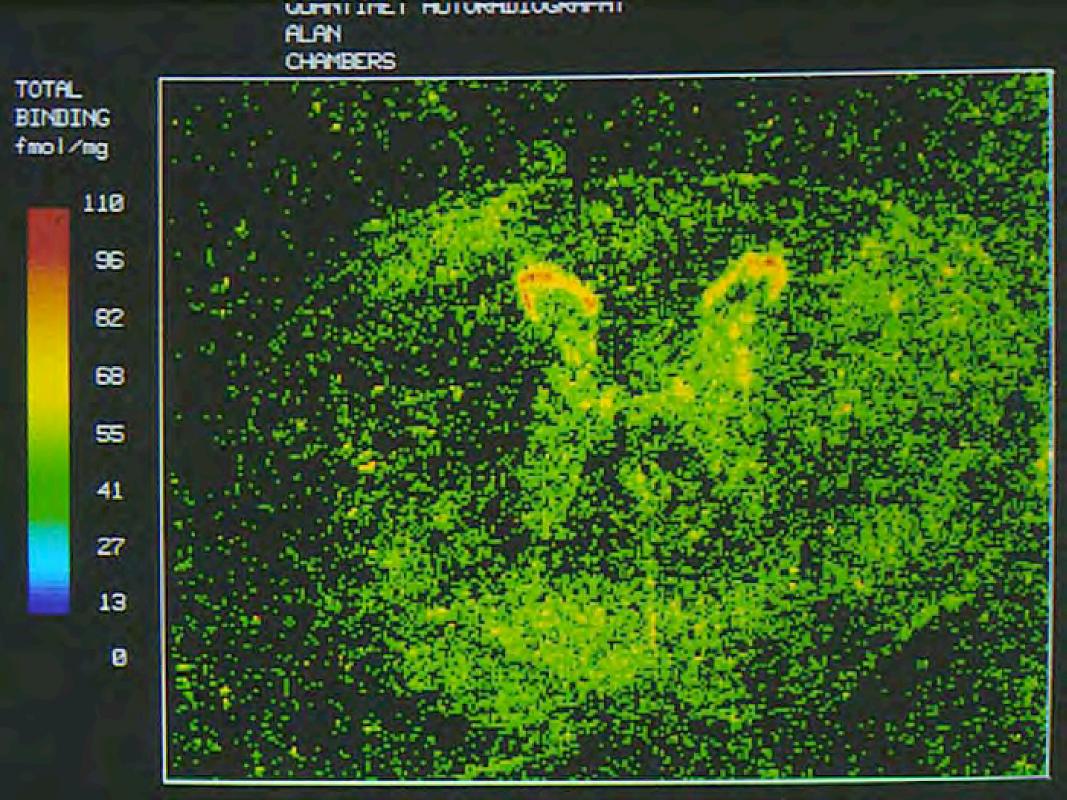
- bradycardia
- spasm then relaxation of smooth muscle
 - blood vessels
 - gut
 - uterus
- skeletal muscle relaxation
- vomiting
- hypothermia



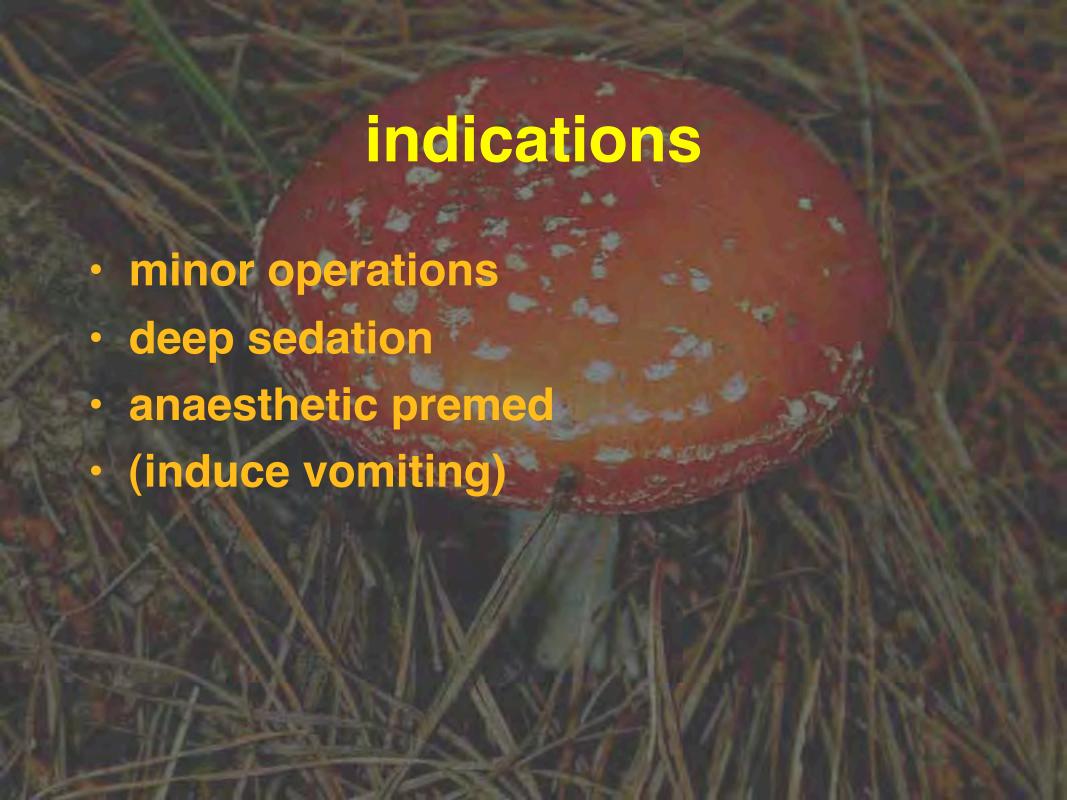






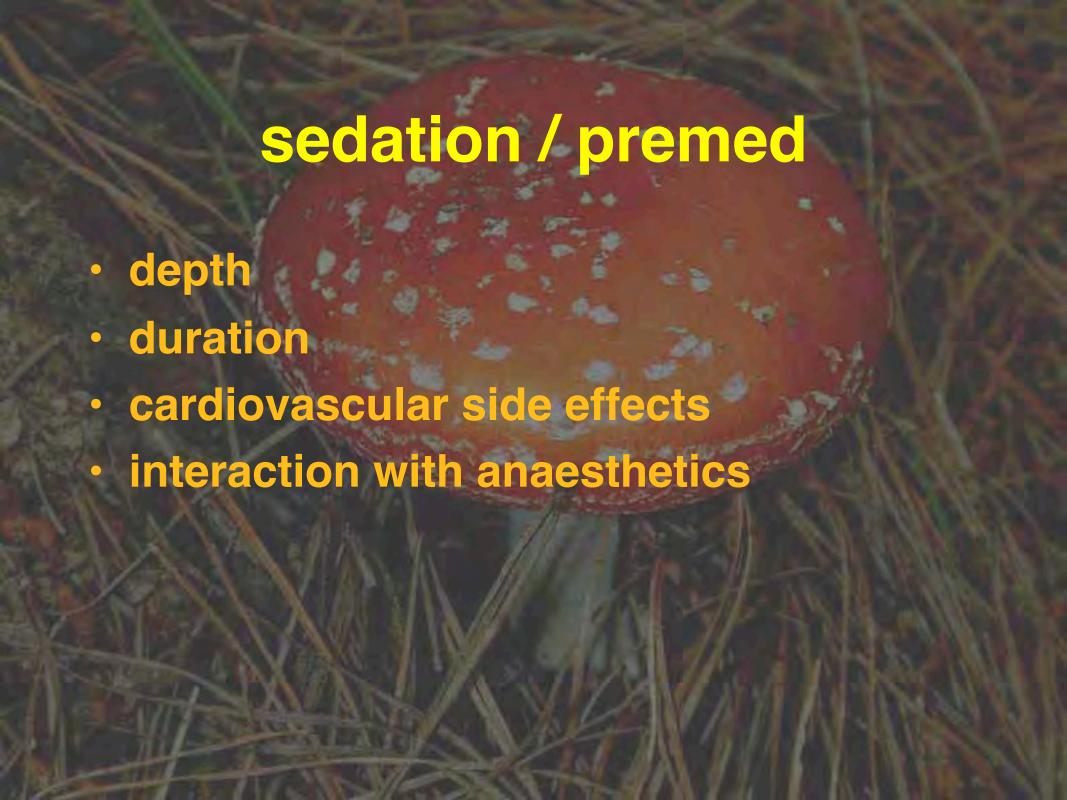




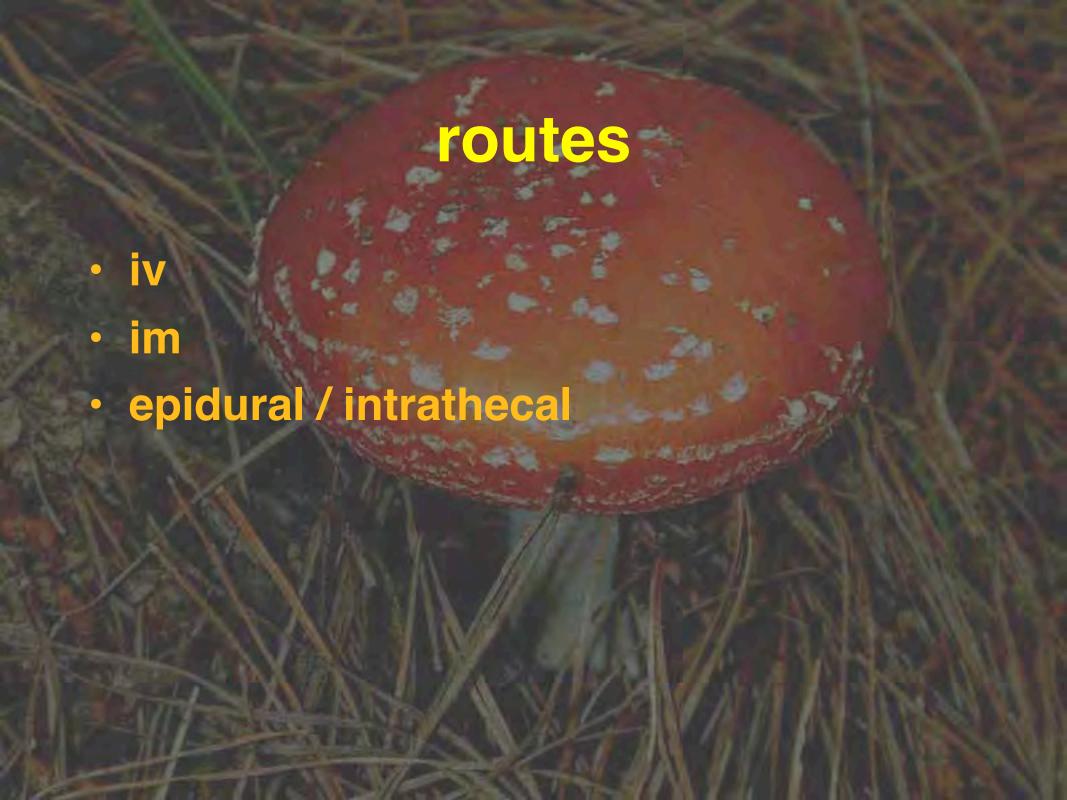


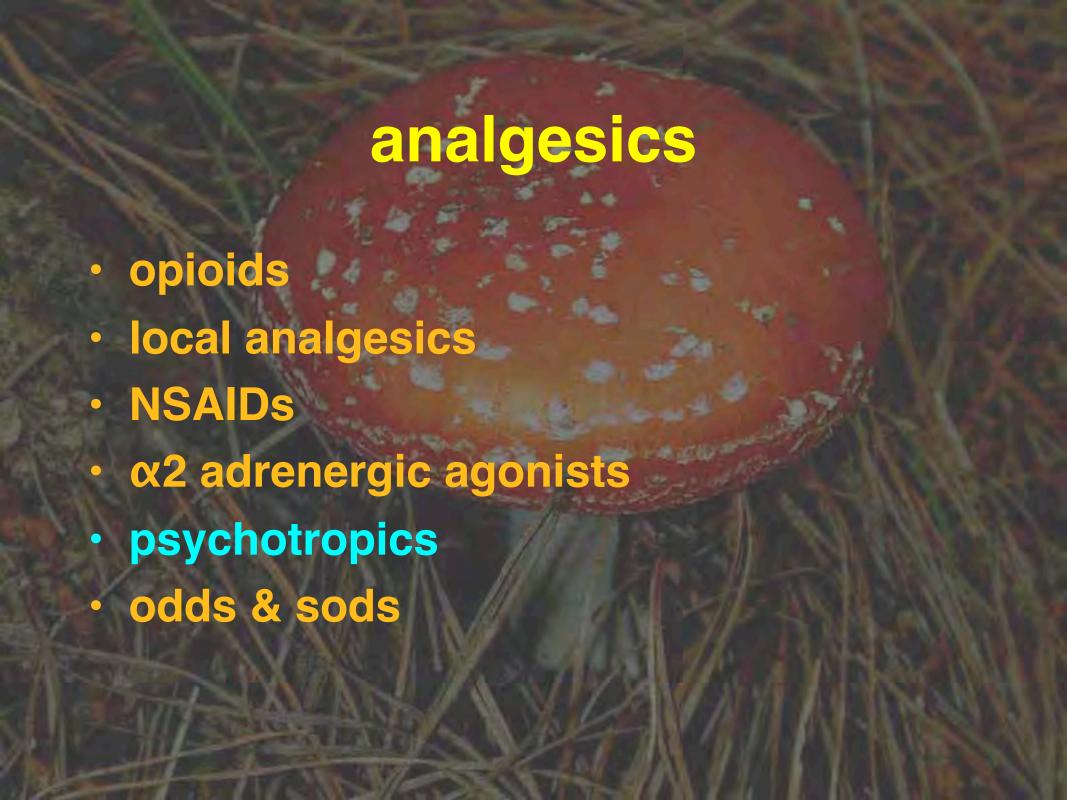
minor ops

- mainly large animals
- ± local anaesthetic
- better analgesia at front end??
- ruminants sensitive to xylazine
- hypersensitivity in some deer to xylazine
 - respiratory prolems
 - death in extreme cases













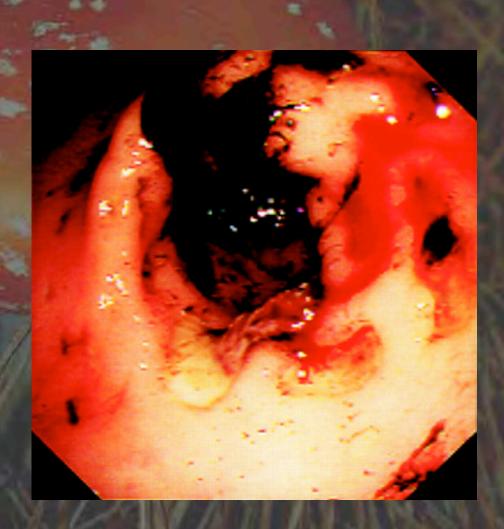








- 9 year old Lab with arthritis
- off food
- "looking miserable"
- initially improved on ketoprofen



other analgesics

- NSAIDs and α2 agonists most commonly used
- NSAID side effects
 - gastric ulceration
 - kidney failure
- α2 side effects
 - cardiovascular depression
 - vomiting
- combinations, usually with opioids, produce best analgesia with fewest side effects
- remember local anaesthesia!