

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Treatments for Otitis Externa

Jason Pieper, DVM, MS, DACVD



illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Anatomy CANINE EAR

Normal View



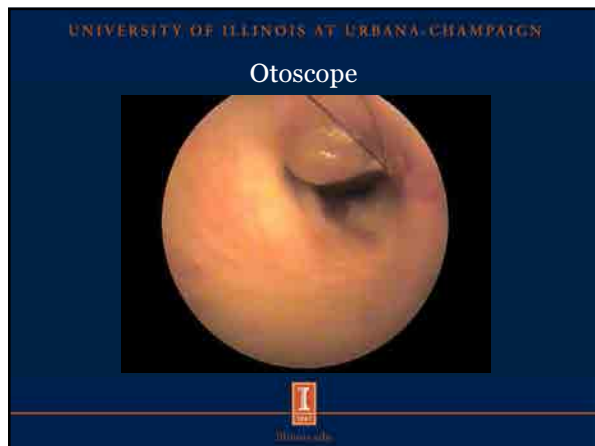
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Otoscopic Examination

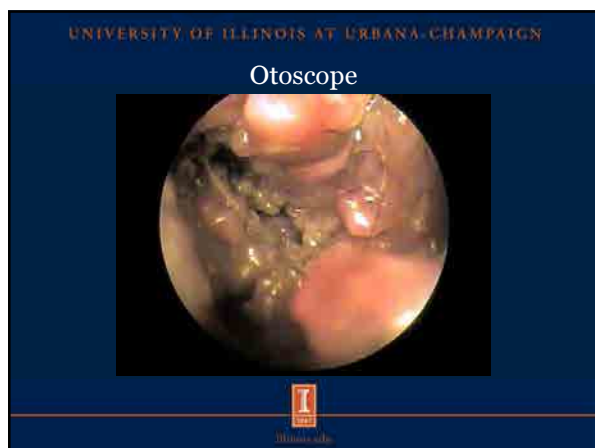
- Absolutely necessary
- Indications for treatment options
- Potentially identify underlying cause



illinois.edu

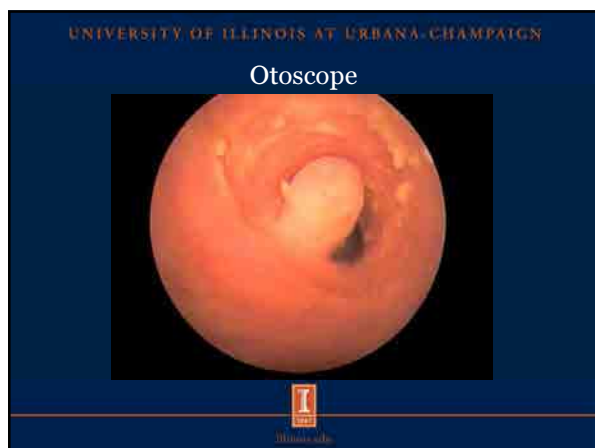






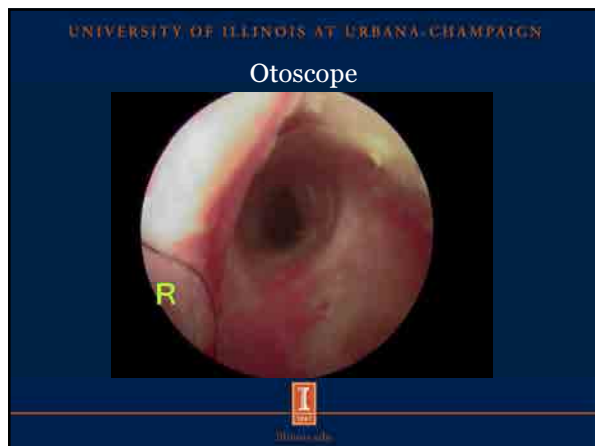








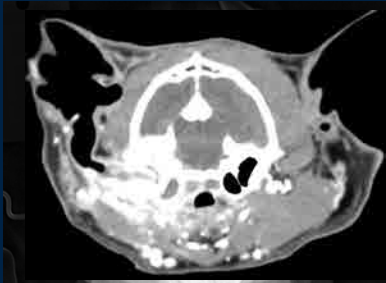




UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Imaging

- Radiographs
- CT
- MRI

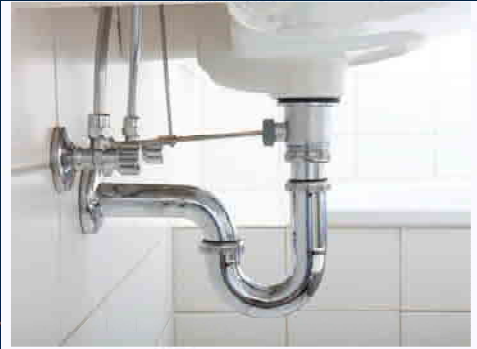


copyright ©2012 Vet Surgery Central Inc.

Illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Cytology Sampling



UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Cytology is VITAL!

- Smell is inaccurate
- Discharge is inaccurate
- May be sterile!



Illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Aerobic Culture and Sensitivity

- Debatable topic
- MIC's are based on serum levels
 - Usually 100-1000 times higher achievable level with topicals
- Extremely resistant cases



illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Treatment Plan

- Cleaning
- Appropriate medications
 - Topical vs Systemic
- Identify primary cause



illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Ear Flushing

- Cleaner only
- Cleaner with cotton ball
- Auriflush
- Bulb syringe
- Red rubber catheter
- Video otoscopy with pump for flushing



illinois.edu

Cleaners

- Not all are created equal!
- Active ingredients
 - TrizEDTA – bacteriostatic only
 - Potentiates aminoglycosides and fluoroquinolones
- Ceruminolytic agent
- Tympanic membrane intact?



Illinois.edu

Auriflush



Illinois.edu

Bulb syringe

- Sedated
- NOT a complete seal!
 - Rupture TM



Illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Red Rubber Catheter

- Controlled force
- Focus pulsing on specific location
- Tough to pass into horizontal ear canal




 Illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Diversity of Ears

- Variety of treatment volumes



≠



 Illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Anesthesia with Deep Ear Flush with VO

- Different video otoscopes available
- Allow direct visualization while flushing
- Change flushing pressure
- Pass equipment through working channels



 Illinois.edu

Ointments

- Semi-solid preparations of hydrocarbons (petroleum, mineral oil, paraffins)
- Depends on ear canal
- Examples: Mometamax, Tri-otic, . . .



Illinois.edu

Oil or Water Consistency

- Easily measurable
- Mobile fluid to reach tympanic membrane
- Examples: Tresaderm, Compounded Enrofloxacin, Amikacin, . . .



Illinois.edu

Wax packs

- BNT (enrofloxacin, ketoconazole, triamcinolone)
- Overpack possible
- Hearing loss



Illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Long acting products

- Easotic® - Virbac
- Osumnia® - Elanco
- Claro® - Bayer
- KC Oto-Pack™ - DermaZoo



illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Systemic Treatments

- Not recommended for normal otitis externa
- Recommended for otitis media
- May be beneficial for severe stenosis or severe ulcerations



illinois.edu

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

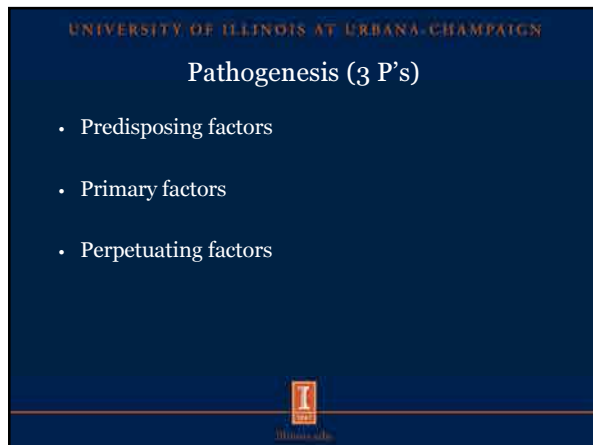
Stenosis

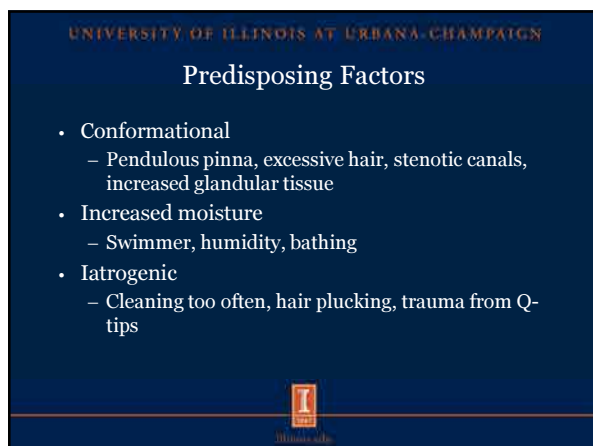
- Systemic corticosteroids
- Triamcinolone injections
- Laser ablation
- TECA-BO




illinois.edu







Primary Factors

- Parasites
- Food hypersensitivity
- Atopy
- Contact dermatitis
- Auto-immune or Immune-mediated
- Keratinization disorders
- Endocrine disease
- Polyps/tumors
- Foreign bodies



Illinois.edu

Perpetuating Factors

- Bacteria
- Malassezia
- Progressive inflammatory changes
- Otitis media
- Loss of epithelial migration



Illinois.edu
