

## Oncologic Emergencies!

### ❖ True, Perceived Emergencies

#### ➤ Well Rehearsed Team Approach

–Patient: ABCD's

–Client: Compassionate  
Emotional Support, Education,  
Communication



## 12 Year Old DSH: Epistaxis

### History:

- Epistaxis, 2 Months
- Dyspnea, tachypnea

### Physical Exam:

- Pale Membranes
- Cyanotic
- Mouth Breathing



**Diagnostics? Treatment?**

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## 12 Year Old DSH: Epistaxis



### -Oxygen Essential

- Minimize Stress
- Cats Nasal Breathers!

### -IV Catheter, Obtain Blood, Urine

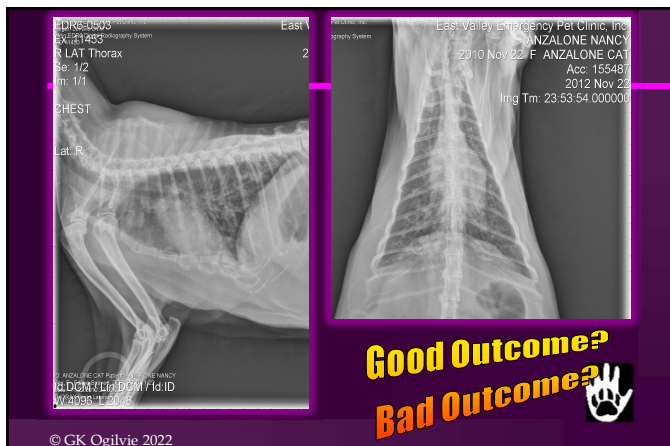
#### ➤ -Minimum Data Base

- Pulse Ox 55%
- Biochem: WNL
- PCV 12% (regenerative)
- APTT, OSPT, Plts, BP: WNL

### -Identify Cause of Nasal, Pulmonary Disease



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## Rules of Feline Transfusions

1. Asymptomatic Patients do Not Need a Transfusion
2. There is No PCV Below Which Requires a Transfusion
3. Prepare to Ignore Rules 1 & 2



## Rules of Feline Transfusions

4. Don't Hang a Blood Product for More than 4 Hours
5. If you Spike it, You have 24 Hours to Use It
6. Always Blood Type Cats.
7. Diphenhydramine, Dexamethasone prn



## Question!

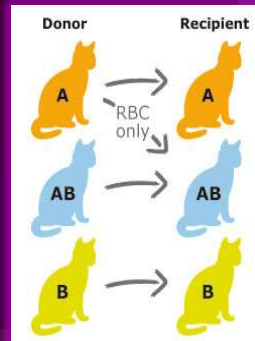
- ❖ There are three blood types: A, AB, and B. Which of the following is correct about blood type?
- 1. A blood can be given to AB cats
  - 2. A blood can be given to B cats
  - 3. AB blood can be given to A cats
  - 4. B blood can be given to A cats

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## Rules of Feline Transfusions

- ❖ Most cat recipients in Denmark are Group A
- Group A is the safest to use for transfusions.
  - Group B blood should be given only to Group B recipients
  - Group AB blood is rare.



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## Rules of Feline Transfusions

- ❖ Amount (ml) to Transfuse
- $[(2.2 \times \text{wt}_{\text{kg}}) \times 30] \times [(\text{PCV}_{\text{desired}} - \text{PCV}_{\text{recipient}}) / \text{PCV}_{\text{donor}}]$
  - 2.2 ml/kg of whole blood or 1 ml/kg of packed RBCs raises PCV 1%
- ❖ Maximum Rate of Transfusion
- 40 ml/30 min, close patient monitoring



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## Rules of Feline Transfusions

8. Warm the Blood Before Giving It.
9. 0.9% NaCL is the ONLY Fluid Given Thru the Same Line



## Blood Component Therapy

|                            |                   |
|----------------------------|-------------------|
| Anemia - hemolytic         | PRBCs             |
| Anemia - blood loss        | Whole blood       |
| Rodenticide poisoning      | FFP +/- PRBCs     |
| DIC                        | FFP               |
| Liver disease/coagulopathy | FFP               |
| Thrombocytopenia           | Fresh whole blood |







## 12 Year Old DSH: Epistaxis

❖ Question: Lung disease-likely:

1. Good Prognosis?
2. Bad Prognosis?

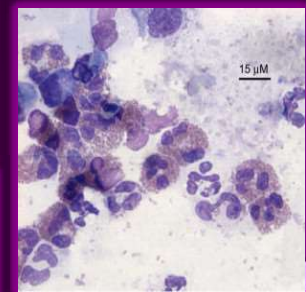
## Question

What do YOU think is the cause of the lung disease?



Additional Diagnostics?

## Bronchoalveolar Lavage



## Allergic Airway Disease



Asthma!

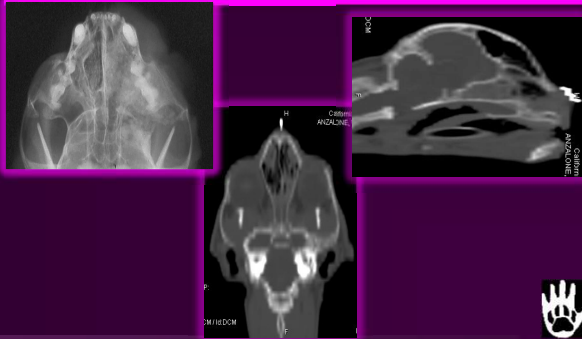
## 12 Year Old DSH: Epistaxis



Dropping Hct!  
Diagnostics?



## 12 Year Old DSH: Epistaxis



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## 12 Year Old DSH: Epistaxis

❖ Question: Nasal disease-likely:

1. Good Prognosis?
2. Bad Prognosis?

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## Question

What do YOU think is the MOST LIKELY cause of the nasal disease?



Additional Diagnostics?

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Golden Rules



## Three Golden Rules of Oncology

**Biopsy!**

**Biopsy!**

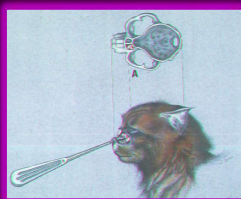
**Biopsy!**

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## Seven Year Old CM DSH

- ❖ Intranasal Lymphoma
  - Curette 'Scoop'
  - Medial Canthus!



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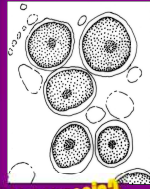
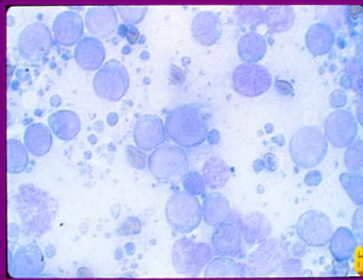
## Nasal Biopsy



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## Lymphoma



Good Prognosis?  
Bad Prognosis?



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## Feline Nasal Lymphoma

❖ J Vet Intern Med 2009;23(2):28

➤ Median Survival 536 days

➤ Negative Prognostic Variable:  
Anemia ( $P < .001$ )



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## Vet Radiol Ultrasound. 2007;48(4):388-93.

❖ Response of cats with nasal lymphoma to radiation therapy and chemotherapy.

➤ Stage I nasal lymphoma

– 42 Gy + 6 months of chemo

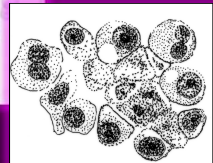
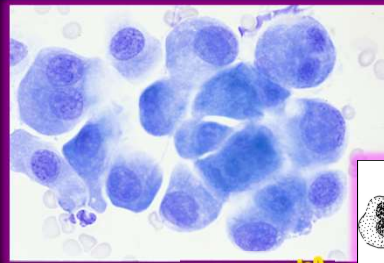
➤ Median progression-free interval: 945 days (31 months).

➤ Median survival time: 955 days (31.4 months)



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## Carcinoma



Good Prognosis?  
Bad Prognosis?

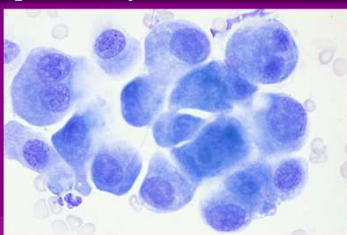
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## J Feline Med Surg 2002;4(2):77.

❖ Feline Nasal Adenocarcinoma

➤ 4-6 fractions of 4-8 Gys

➤ 63% doing well at 1 year



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## 11 yr old CM DSH

■ History of hematuria, stranguria unresponsive to antibiotics: 4 months duration

➤ CBC, Biochem, UA, FeLV, Chest Rads: WNL.

➤ UA: Pyuria, culture negative

Differentials? Diagnostics? 

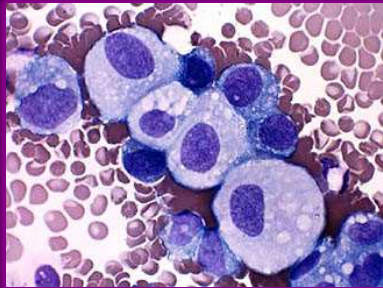
## Best Diagnostics: Bladder Tumors?



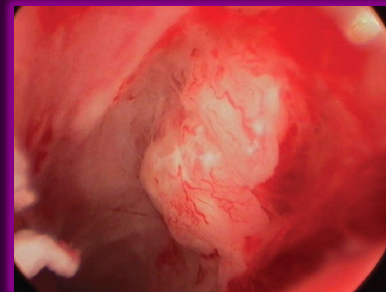
Differentials? Diagnostics? 

Good News? Bad News?

## Cytology and TCC



## Kitty Bladder Cystoscopy?



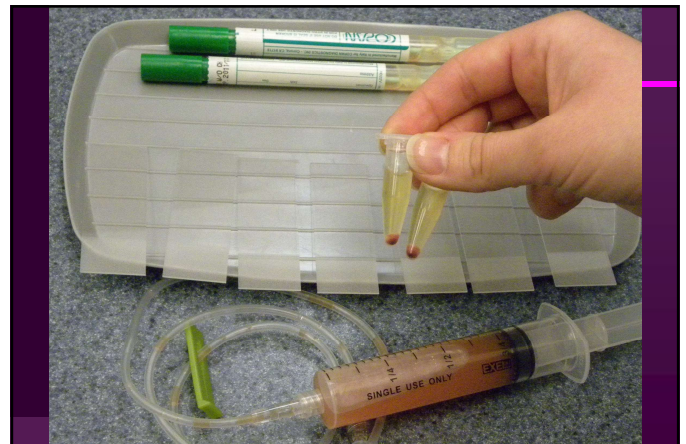
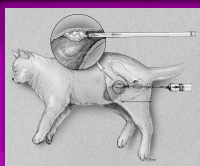
## Traumatic Catheterization



- Ultrasound Guided
- Red Rubber Catheter in Urethra to Tumor
- Suction with "In and Out" Movement

➤ Cytology

➤ Histopathology





## Transitional Cell Carcinoma

- Presumed Non Responsive UTI
- Often Away from Trigone
  - Median Survival Time:
    - Piroxicam: 265-311 days



J Feline Med Surg. 2012 Aug;14(8):527-33



## 5 yr Old SF DSH

- ❖ 2 Wks: Dyspnea, Hemoptysis
  - Pale
  - Cyanotic
  - Bloody Salivation
  - Dysphagia

**Emergency!**



## 5 yr Old SF DSH

- ❖ 2 Wks: Dyspnea, Hemoptysis
  - Questions?
  - Problem List/Differentials?
  - Tests/Procedures?
  - Initial Therapy?

**Emergency!**



**PCV 9%  
PaO2 45%  
Commandments...**

## 5 yr Old SF DSH



## Emergencies



**Bulla Involvement?**

## Secrets of Kitty Cancer

**Polyp: Bulla  
Involvement  
Prognostic!**



## 12 yr Old SF DSH

- ❖ 3 Week History
  - Circling (Rt)
  - Anorexia

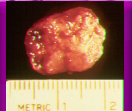
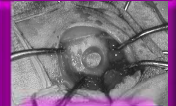


**Seizure!**

Additional Diagnostics?



## 12 yr Old SF DSH



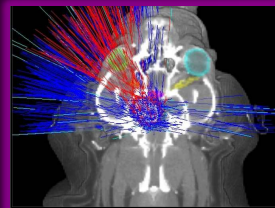
## Secrets of Kitty Cancer

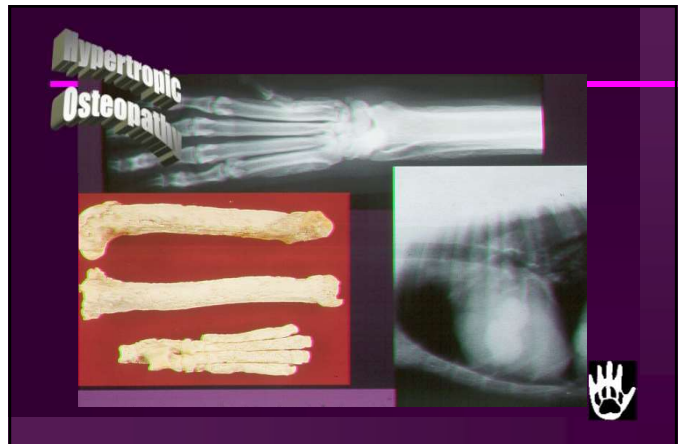
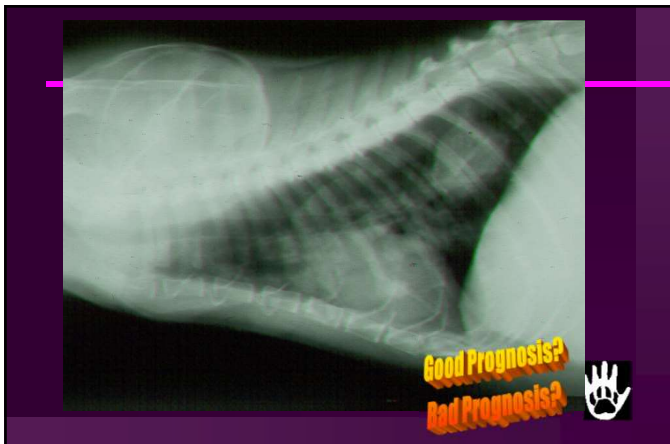
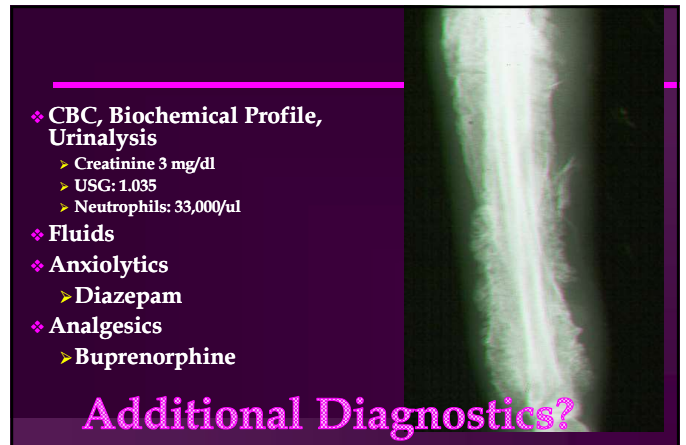
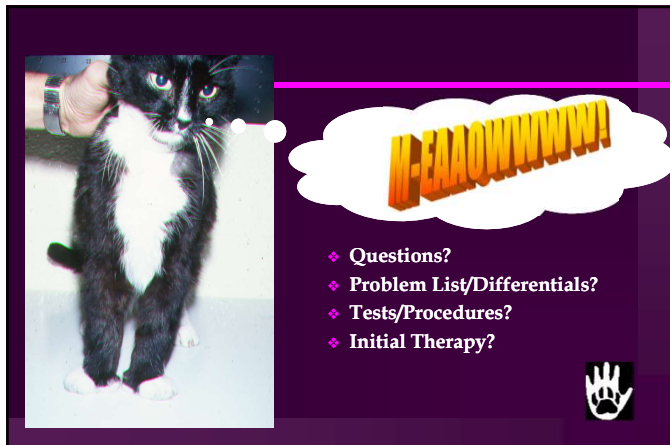
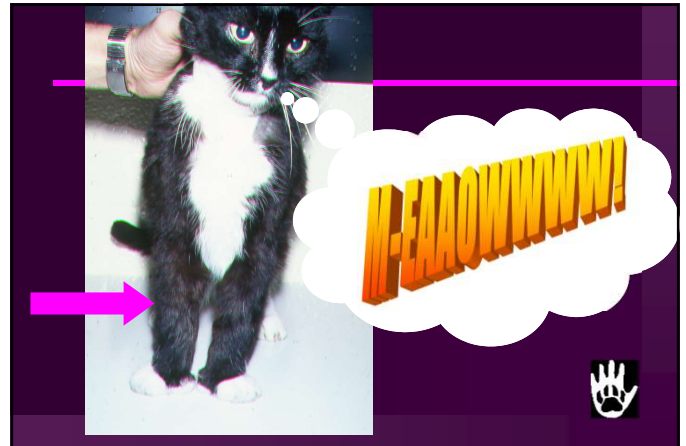
**RT/Surgery  
Best for  
Meningioma!  
Median: 2 Years**



## 12 yr Old SF DSH

- ❖ Cyberknife









## Secrets of Kitty Cancer

**Primary  
Lung Tumors  
24 Months!**

