Extended Wear Use of Bandage Contact Lenses in Dogs

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Review of Acrivet Lenses

- November, 2008- December, 2011
- 238 Total Lenses Placed
  - D1- 10 (9.7%)
  - D2- 124 (52%)
  - D3- 14 (6%)
  - D4- 23 (9.7%)
  - D5- 2 (0.8%)
  - C1- 30 (12.6%)
  - C2- 1 (0.4%)
  - C4- 16 (6.7%)
  - C5- 18 (7.6%)
Review of Acrivet Lenses

- 9 Extended wear use cases identified
- Average Age= 12 years
- Breeds:
  - Labrador Retriever
  - Japanese Chin
  - Cockapoo
  - Standard Poodle
  - Golden Retriever
  - Miniature Poodle
  - Westie
  - Husky Mix
  - Bichon Frise
- Neutered Males= 5 ; Spayed Females= 4
- All presented for chronic: corneal degeneration or endothelial dystrophy.
- Non-responsive to various: EDTA, Art. Tears, Optimmune…
Results

Case #1- Bilateral endothelial dystrophy/erosions

- OS- Trial short term placements over 3 months
- OD- placed with OS at 3 month time point.
- OU- left in place and comfortable 25 months with rechecks every 3-4 months.
- Euthanized at 27 months
Results

• Case #2- OU Corneal Degeneration
  - OD placed first; OS placed 10 months later
  - OD stable 16 months
  - OS stable 7 months
  - Rechecks every 2-3 months
  - Recheck in the Spring

• Case #3- OS Corneal Degeneration
  - OS lens placed
  - OS lost at 7 month mark
  - Euthanized soon after.
Results

• Case #4- OS Corneal Degeneration
  - First lens placed for 1 month then lost
  - Second lens placed for 3 months then lost
  - Third lens placed for 6 months then lost
  - Fourth lens placed for 8 months then euthanized.

• Case #5- Corneal Degeneration
  - OS Lens placed first
  - OD Lens placed 8 months later
  - OS lens stable 9 months
  - OD lens stable 1 month
  - Patient died one month after last recheck
Results

• **Case #6- OS Corneal Degeneration**
  - Lens Placed
  - Currently in place for 2 months

• **Case #7- OU Endothelial Dystrophy**
  - Lenses Placed OU
  - Stable at 1 month, 5 months
  - Recheck due in Spring
Results

• **Case #8- OS Corneal Degeneration**
  - Lens placed OS but out at 3 week point
  - Replaced and stable 1 month
  - Trial without lens

• **Case #9- OD Corneal Degeneration**
  - Lens placed
  - Lens stable at 2 months
  - Lost to follow-up.

• **Note:** Placed medium term lenses in 2 cats- tolerated.
Conclusions

• Acrivet soft contact lenses have high retention rate.
• Lenses greatly improve comfort in chronic corneal disease.
• Lenses remain stable, clean, and non-infected for several months.
• Lenses adhere to even stromal defected corneas.
Suggestion to Acrivet...