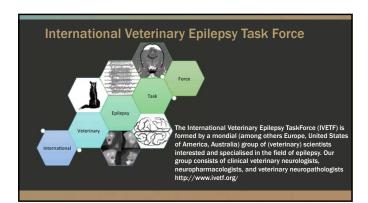
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Berendt et al. BMC Veterinary Research (2015) 11:182
International veterinary epilepsy task force consensus report on epilepsy definition, classification and terminology in companion animals

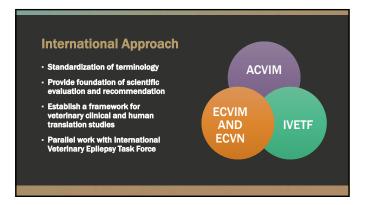
Hükmeyer et al. BMC Veterinary Research (2015) 11:175
International Veterinary Epilepsy Task Force's current understanding of idiopathic epilepsy of genetic or suspected genetic origin in purebred dogs

Rusbridge et al. BMC Veterinary Research (2015) 11:194
International Veterinary Epilepsy Task Force recommendations for a veterinary epilepsy-specific MRI protocol

De Risio et al. BMC Veterinary Research (2015) 11:148
International veterinary epilepsy task force consensus proposal: diagnostic approach to epilepsy in dogs

Bhatti et al. BMC Veterinary Research (2015) 11:176
International Veterinary Epilepsy Task Force consensus proposal: medical treatment of canine epilepsy in Europe

Potschka et al. BMC Veterinary Research (2015) 11:177
International veterinary epilepsy task force consensus proposal: outcome of therapeutic interventions in canine and feline epilepsy



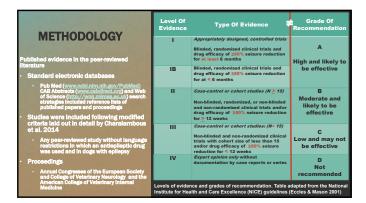
CON-SEN-SUS Latin from consentire (to allow) General agreement: unanimity The judgment arrived at by most of those concerned Group solidarity in sentiment and belief

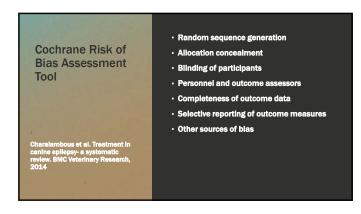
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Our Approach Problems - Epilepsy is a heterogeneous disease process - Incomplete diagnostic capabilities - Unpredictable clinical outcome - Wide-variability in treatment approaches - Small database of strong evidence-based clinical studies - Use of antiepileptic drugs (AED) - Stabilized fars sealed. - Les of antiepileptic drugs (AED) - Stabilized fars sealed. - Discovered in the conference of th

Guidelines for the Diagnosis and Treatment of Canine Epilepsy - Seizure identification and diagnosis (not included in this paper) - Decision making treatment strategies 1. When should treatment be started? 2. Which drug should be used first? 3. How should AED monitoring be performed? 4. What are the risks of treatment? 5. What is drug-resistance? 6. When and which second AED should be started? - Complimentary and alternative treatment strategies - Guidelines to enhance patient response and quality of life

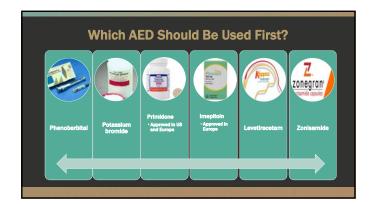
· Emergency treatment strategies (not included in this paper)

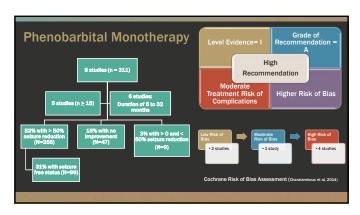


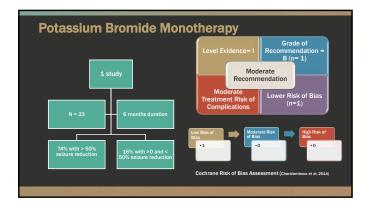


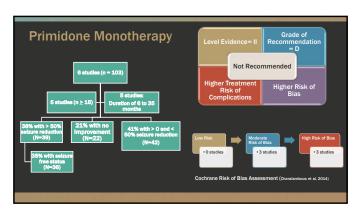
When Should Treatment Be Started? Decision to treat is a reflection of the treatment goals: - Guidelines for people to start AED: Diagnosis of current or previous defined cerebral lesions or trauma · Reduce or eliminate epileptic events Presence of Inter-Ictal EEG epileptic discharges (up to 90 % recurrence rate) · Reduce seizure severity · Avoid adverse effects · History of marked post-ictal adverse effects · Reduce seizure-related mortality and morbidity · First unprovoked, seizure for adult onset? Risk factors for seizure recurrence are not · Individual risk and quality of life assessment well-established for dogs Recurrence risk 21-45% within first 2 years Immediate treatment improves seizure free prediction by 50% Seizure density is considered a strong risk factor for seizure recurrence Packer et al. Clinical risk factors associate responsiveness in canine epilepsy, 2014 http://lournals.plos.org/plosone/ American Academy of Neurology, Summary of Evidence – Based Guidelines, 2015

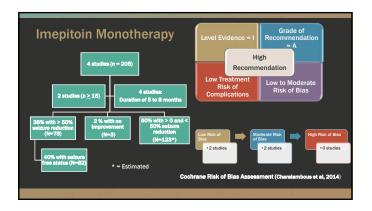
ACVIM Panel Recommendations: The Reasons to Start AED Therapy Identifiable structural lesion present or prior history of brain disease or injury Acute repetitive seizures / status epilepticus has occurred I catal event ≥5 minutes or 3 or more generalized seizures occur within a 24 hour period or 2 or more seizures without completely regaining consciousness between seizures Two or more seizure events occur within a 6 month period Prolonged, severe, or unusual post-ictal periods occur IVETF: "The epileptic seizure frequency and/or duration is increasing and/or seizure severity is deteriorating over 3 inter-ictal periods"

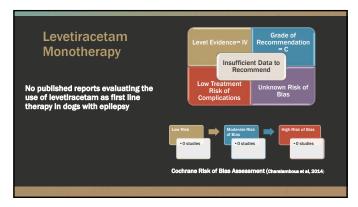


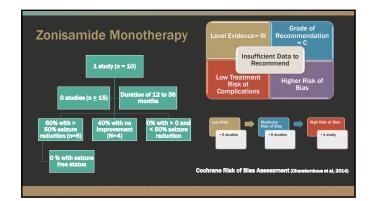


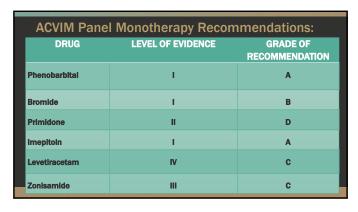


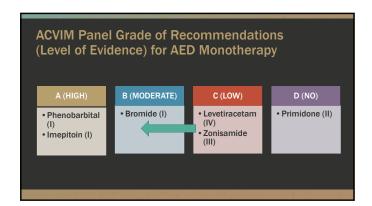


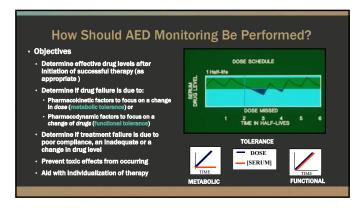


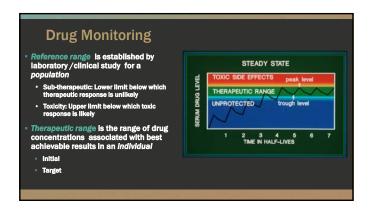


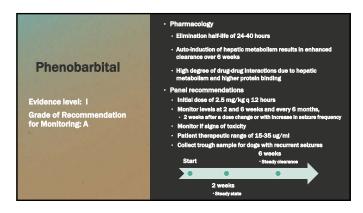


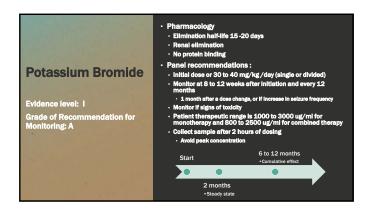


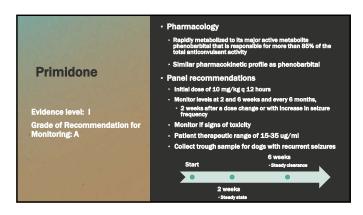












Pharmacology

Elimination haif-life of approximately 2 hours

No known therapeutic concentration

Low inter-individual metabolism variability

No indication of drug-drug interaction

Panel recommendation:

Initial dose of 10-30 mg/kg q 12 hours

Drug monitoring is not recommended except in rare cases of concern for owner compilance

Levetiracetam

Levetiracetam

Evidence level: I
Grade of Recommendation for Monitoring: C

Honottoring: A B hours

- With phenobaritial = 2-4 hours

- Low hepatic metabolism

- Low drug-drug interaction

- Panel recommendations:

- Initial dose of 20 mg/kg q 8 hours

- Monitoring is not routine yecommended

- Monitoring may be indicated with concomitant phenobaritial treatment if satisfactory seizure control is not achieved.

- Trough and Peak levels are most heipful

Pharmacology

Conisamide

I Elimination half-life of 15-20 hours

Hepatic metabolism but without hepatic autoinduction

Increased clearance with concomitant phenobarbital use

Weak carbonic anilydrase inhibitor

Panel recommendations with the following criteria:

Initial dose

Monotherapy: 5 mg/kg q 12 hours

With phenobarbital: 10 mg/kg q 12 hours

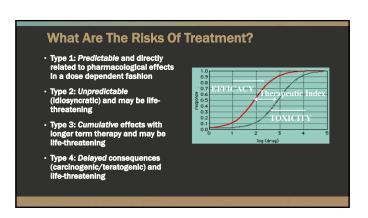
With phenobarbital: 10 mg/kg q 12 hours

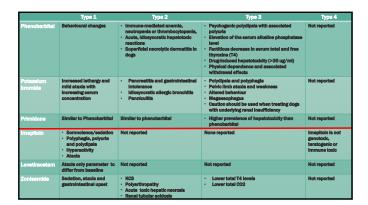
Monitor levels at 2 weeks and then every 6 months,

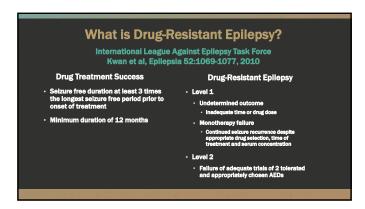
2 weeks after a dose change or with increase in seizure frequency

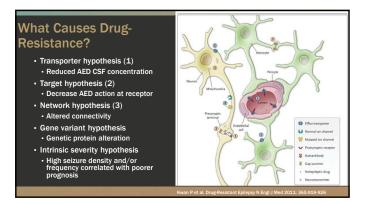
Collect trough time if used as monotherapy

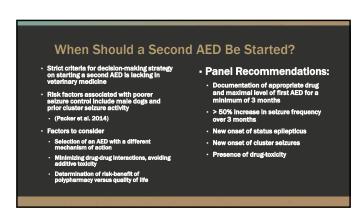
Collect trough time if used as monothe

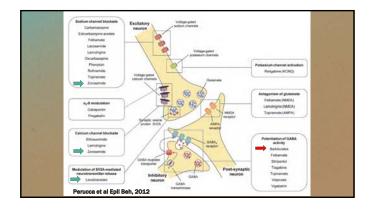


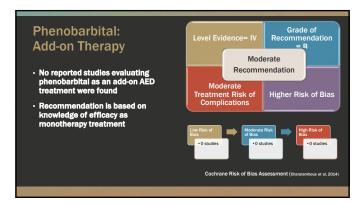


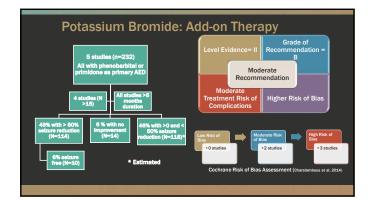


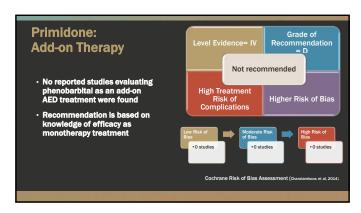


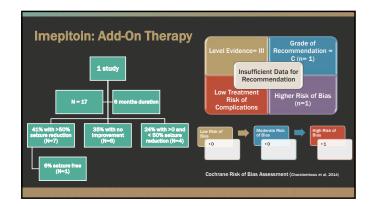


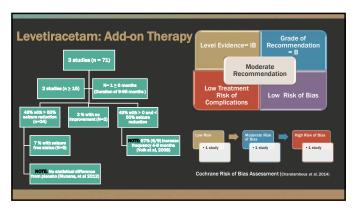


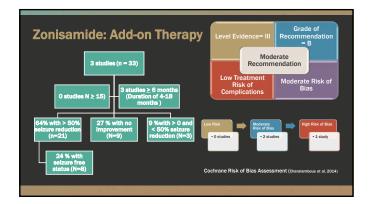




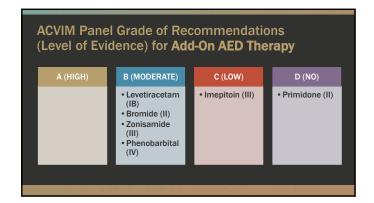


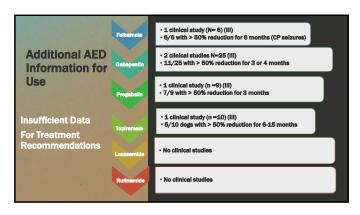


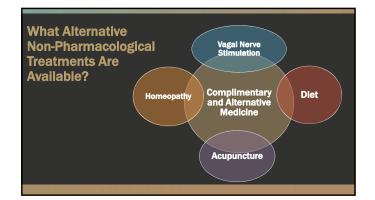


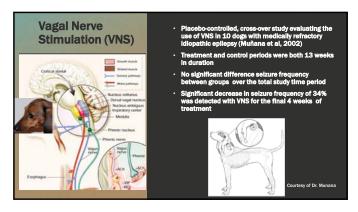


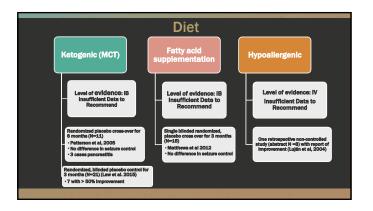
DRUG	LEVEL OF EVIDENCE	GRADE OF RECOMMENDATION
Phenobarbital	IV	В
Bromide	П	В
Primidone	II.	D
Imepitoin	III	С
Levetiracetam	IB	В
Zonisamide	III	В

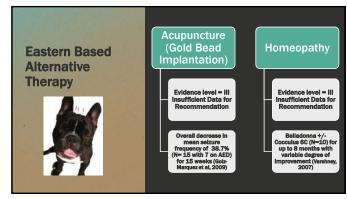












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