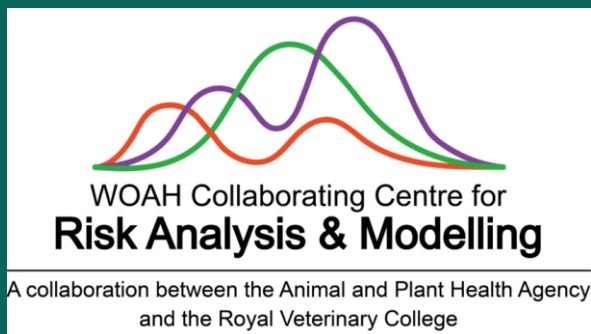


Developing disability weightings to inform canine disease burden assessment in the UK

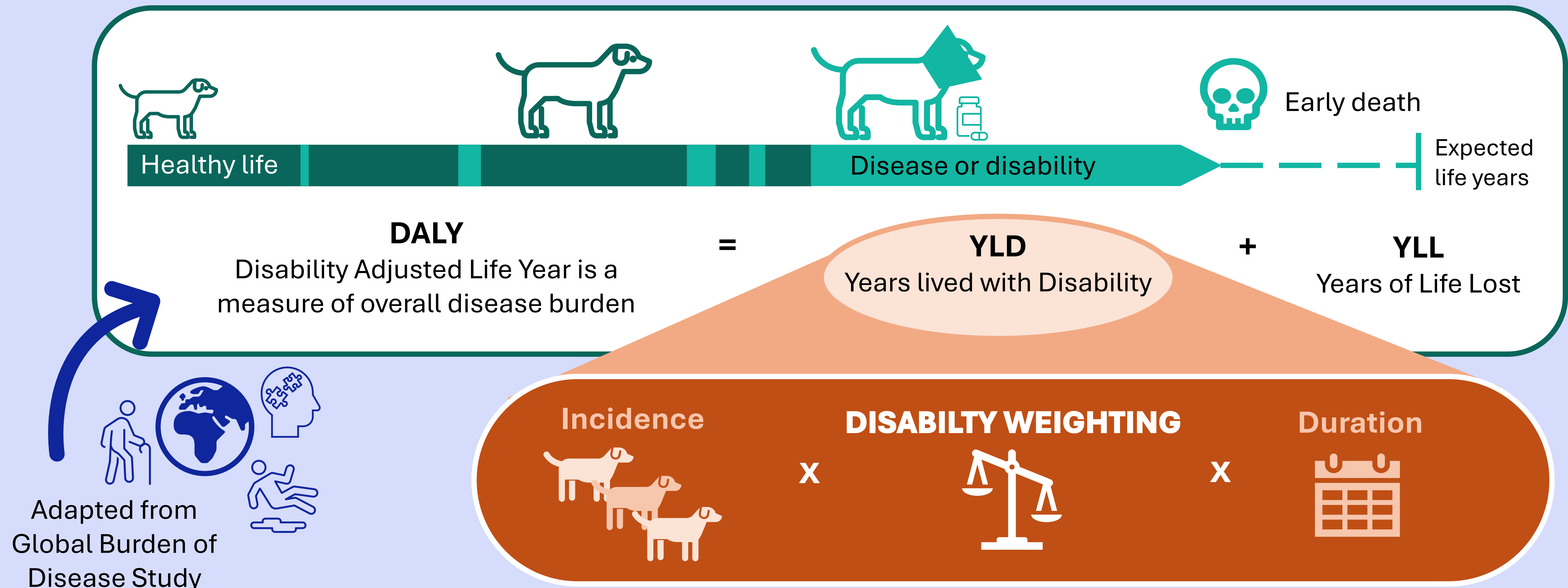


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BACKGROUND and KEY QUESTIONS

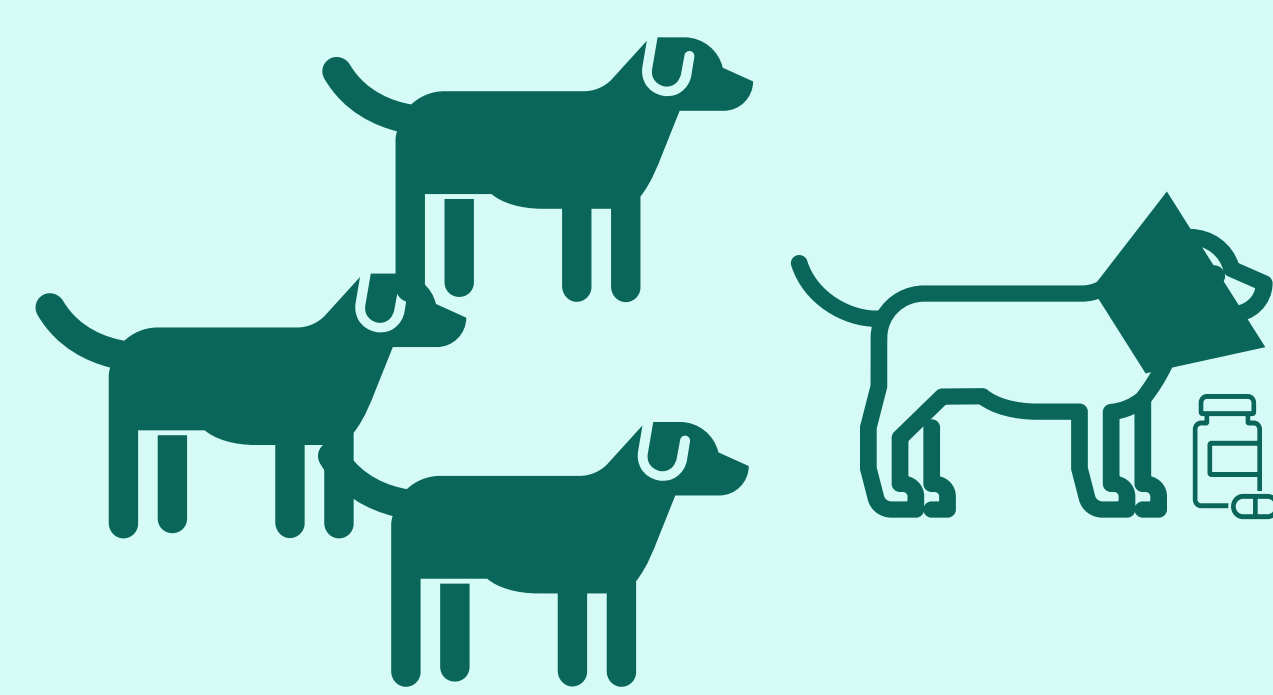


What disability weighting methods have been used previously?

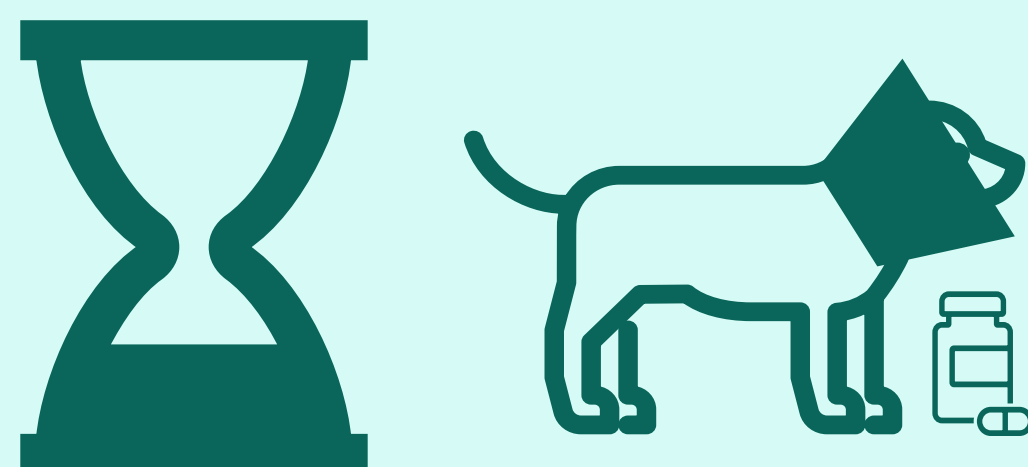
How can these methods be used for canine diseases?

What are the key ethical, bias, and interpretation challenges?

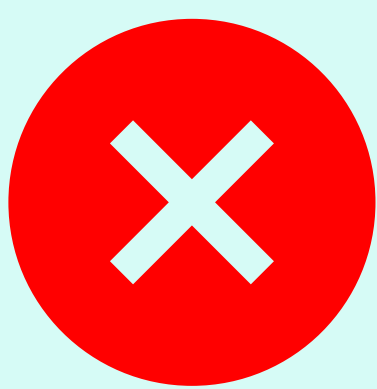
DOG or TIME TRADE-OFF



Dog Trade-off: Participants decide how many dogs with one disease should be helped vs. a different disease
Time Trade-off: Participants choose between dogs living X years with a disease or a shorter time in perfect health.



Prioritises valued health interventions
Reflects **population preferences**
Directly measures **disability weighting**
Captures **preference strength**



Oversimplifies complex health decisions
Raises **ethical concerns**
Hard to compare diverse diseases
Challenging for survey participants

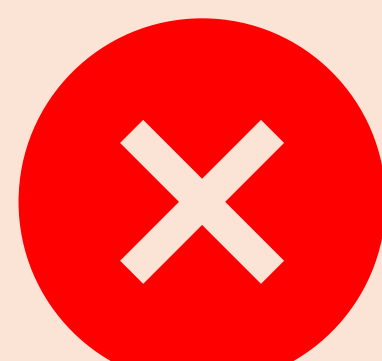
VISUAL ANALOGUE SCALE



Participants mark a point on a scale (usually 0 to 100) to rate the severity of a disease, with 0 = unassisted death and 100 = perfect health.



Simple and efficient
Gives **absolute severity ratings**
Subjective and open to interpretation
Easy to apply and repeat
Provides **continuous data** for better stats



Subjectivity **increases variation**
Marker accuracy is **uncertain**
Presentation can bias responses
Categorisation may add bias



METHODS FOR ASSIGNING DISABILITY WEIGHTINGS



survey

and / or



panel

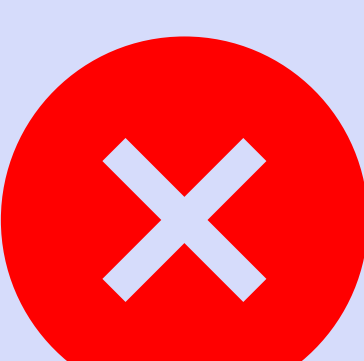
PAIRED COMPARISON



Participants compare two diseases and choose which is worse. Statistical models rank the conditions.



Simple and intuitive
Binary choices **enhance consistency**
Repeated comparisons **strengthen ranking**
Network approach enables indirect ranking



Requires **many** comparisons
Bias from unfamiliarity or pairings
Needs **post-hoc anchoring**
Doesn't measure **severity difference**



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ACKNOWLEDGEMENTS

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