

# Supplementary Materials: An Evidence-Based Review of Surgical Techniques for Correction of Prolapsed Nictitans Glands in Dogs

Constance White and Marnie L. Brennan \*

Table S1. Search strategies and terms.

Database	Search
<b>CAB Abstracts (1910-present) (Ovid interface)</b>	(canine or canines or canid or canids or canis or canidae or dog or dogs).mp. or exp Dogs/ or exp Canidae/ AND (nictitan or nictitans or third eyelid or third eyelids or cherry eye or cherry eyes or nictitating membrane or nictitating membranes).mp. AND (prolapse or prolapsed or prolapses or replacement or replacements or replaced or replace or surgery or surgical or repair or amputate or amputated).mp. or exp prolapse/ or exp surgery/ (canine or canines or canid or canids or canis or canidae or dog or dogs).mp. or exp Dogs/ or exp Canidae/ AND
<b>Medline (In-Process &amp; Other Non-Indexed Citations and MEDLINE(R) 1946 to Present (Ovid interface)</b>	(nictitan or nictitans or third eyelid or third eyelids or cherry eye or cherry eyes or nictitating membrane or nictitating membranes).mp. or exp Nictitating Membrane/ AND (prolapse or prolapsed or prolapses or replacement or replacements or replaced or replace or surgery or surgical or repair or amputate or amputated).mp. or exp Prolapse/ or exp General surgery/ <u>((((((((((canine) OR canines) OR canis) OR canis) OR canis) OR canidae) OR dog) OR dogs) OR Dogs[MeSH Major Topic]) OR Canidae[MeSH Major Topic])) AND (((((((((nictitans) OR nictitans) OR third eyelid) OR third eyelids) OR cherry eye) OR cherry eyes) OR nictitating membrane) OR nictitating membranes) OR nictitating membrane[MeSH Major Topic])) AND (((((((((((prolapse) OR prolapse) OR prolapses) OR replacement) OR replacements) OR replaced) OR replace) OR surgery) OR surgical) OR repair) OR amputated) OR amputated) OR prolapse[MeSH Major Topic]) OR surgery[MeSH Major Topic]))</u>
<b>PubMed (native interface)</b>	

Table S2. Extraction form.

<b>Publication</b>		
<i>Variable</i>	Reported	Details
<i>dogs/eyes</i>	<b>R</b> all dogs and eyes enumerated <b>PR</b> dogs enumerated or eyes enumerated but not both <b>NR</b> neither dogs nor eyes enumerated	
<i>Procedure</i>		
<i>Reported design</i>	<b>R</b> Authors presented key elements of study design early in the paper <b>NR</b> Authors did not describe study type or present key elements of study design early in the paper	
<i>Study type</i>	<b>R</b> Author indicated type of study design and key elements <b>NR</b> Authors did not indicate study design and key elements	1. Experimental Randomized interventions (parallel or crossover) 2. Observational Population Cohort a. Enrolled as a result of exposure (PNG with more than one <b>intervention group</b> ), incidence or enumeration of outcomes (recurrence and/or lacrimal results) reported 3. Surgical Case Series Cases enrolled as a result of exposure (PNG with <b>single intervention group</b> ) with incidence or enumeration of outcomes (recurrence and/or lacrimal results) reported. (Some authors suggest that this may also be classified as a descriptive cohort study).
<i>Case selection (sampling method)</i>	<b>R</b> Reported source, eligibility criteria and methods of selection of cases <b>PR</b> Reported one or two of the above <b>NR</b> Did not report any of the above	
<i>Follow-up time</i>	<b>R</b> Reported follow-up time for all reported outcomes on all patients <b>PR</b> Reported follow-up time for some but not all outcomes, or some but not all patients <b>NR</b> Did not report follow-up time for any outcome	
<i>Follow-up method</i>		
<i>Loss to follow-up</i>	<b>R</b> Numbers of cases at each stage of study enumerated and/or patient-level follow-up times reported; reasons for non-participation given; explanation of how missing data and/or loss to follow-up was addressed in statistical analysis (if statistical analysis performed) <b>PR</b> Number of cases at each stage of the study enumerated	

	<p><b>Unclear</b> Cohort inclusion may have depended on minimum follow-up period/availability of case records</p>
<i>Prolapse duration</i>	<p><b>R</b> Prolapse duration prior to surgery reported either as summary statistic, range, or patient-level data</p> <p><b>NR</b> No data given on prolapse duration</p>
<i>Patient demographics enrollment</i>	<p><b>R</b> Breeds enumerated for all patients in study. Ages given as summary statistic and/or at patient level</p> <p><b>PR</b> Reporting of the above for part, but not all, of the cohort; or only breed or age but not both given.</p> <p><b>NR</b> No demographics provided for any of cohort</p>
<i>Patient demographics outcomes</i>	<p><b>R</b> Surgical failure or lacrimal outcomes reported and/or analyzed by breed</p> <p><b>PR</b> Outcomes adjusted for or reported for selected breeds but not all breeds in cohort</p> <p><b>NR</b> Surgical failure or lacrimal outcomes not reported for and/or analyzed by breed</p>
<i>Pre-operative steroid</i>	<p><b>R</b> Pre-operative care reported in sufficient detail to know which patients, if any, received pre-operative topical steroid</p> <p><b>PR</b> Pre-operative care reported in insufficient detail to know which patients, if any, received pre-operative topical steroid</p> <p><b>NR</b> Pre-operative care not reported sufficiently to know if any patients received pre-operative steroid</p>
<i>Postop steroid</i>	<p><b>R</b> Post-operative care reported in sufficient detail to know which patients, if any, received post-operative topical steroid</p> <p><b>PR</b> Post-operative care reported in insufficient detail to know which patients, if any, received post-operative topical steroid</p> <p><b>NR</b> Post-operative care not reported sufficiently to know if any patients received post-operative steroid</p>
<i>Recurrence</i>	<p><b>R</b> Reprolapse after surgical correction reported in sufficient detail to present or calculate a surgical failure rate per eye</p> <p><b>PR</b> Reprolapse after surgical correction reported in sufficient detail to present or calculate a surgical failure rate per dog but not per eye</p> <p><b>NA</b> No possibility of recurred prolapse (e.g. excision)</p>
<i>Time to recurrence</i>	<p><b>R</b> reported summary statistic or patient-level data on time to surgical failure</p>

	<b>PR</b> Time to recurrence provided for some but not all cases of surgical failure <b>NR</b> No data on time to surgical failure <b>NA</b> No recurrences possible (excision) or observed
<i>Complications</i>	Post-operative complications aside from recurrence
<i>STT</i>	<b>R</b> Post-operative STT results reported for some or all cases <b>NR</b> No STT data presented for any cases
<i>KCS</i>	<b>R</b> Report incidence or number of post-operative KCS for all included cases <b>PR</b> Reporting of post-operative incidence for subset of cases <b>NR</b> No reporting of post-operative KCS incidence
<i>KCS criteria</i>	<b>R</b> Criteria for diagnosis of KCS defined <b>NR</b> No criteria given for diagnosis of KCS <b>NA</b> KCS not reported



© 2018 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).