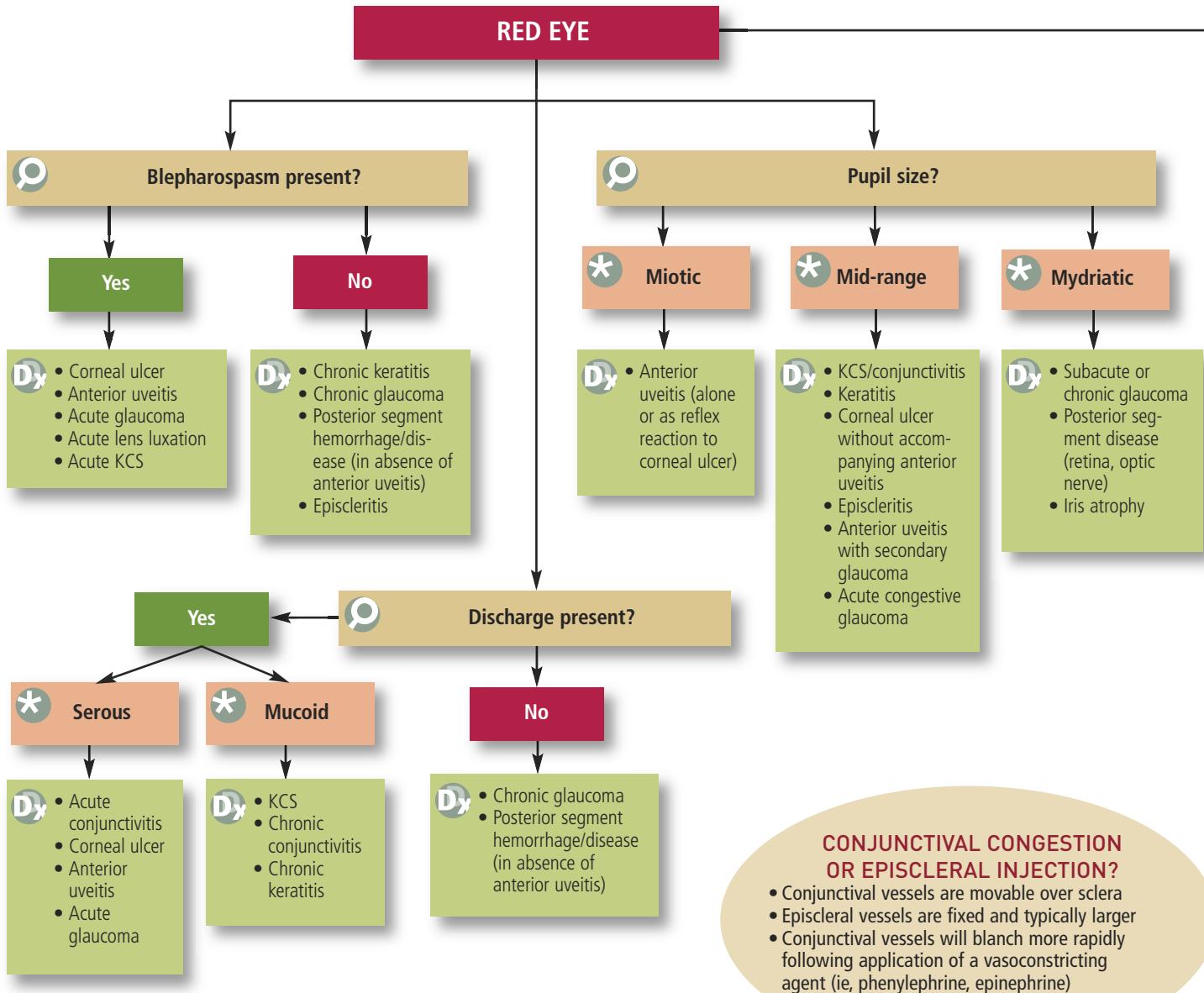


Red Eye

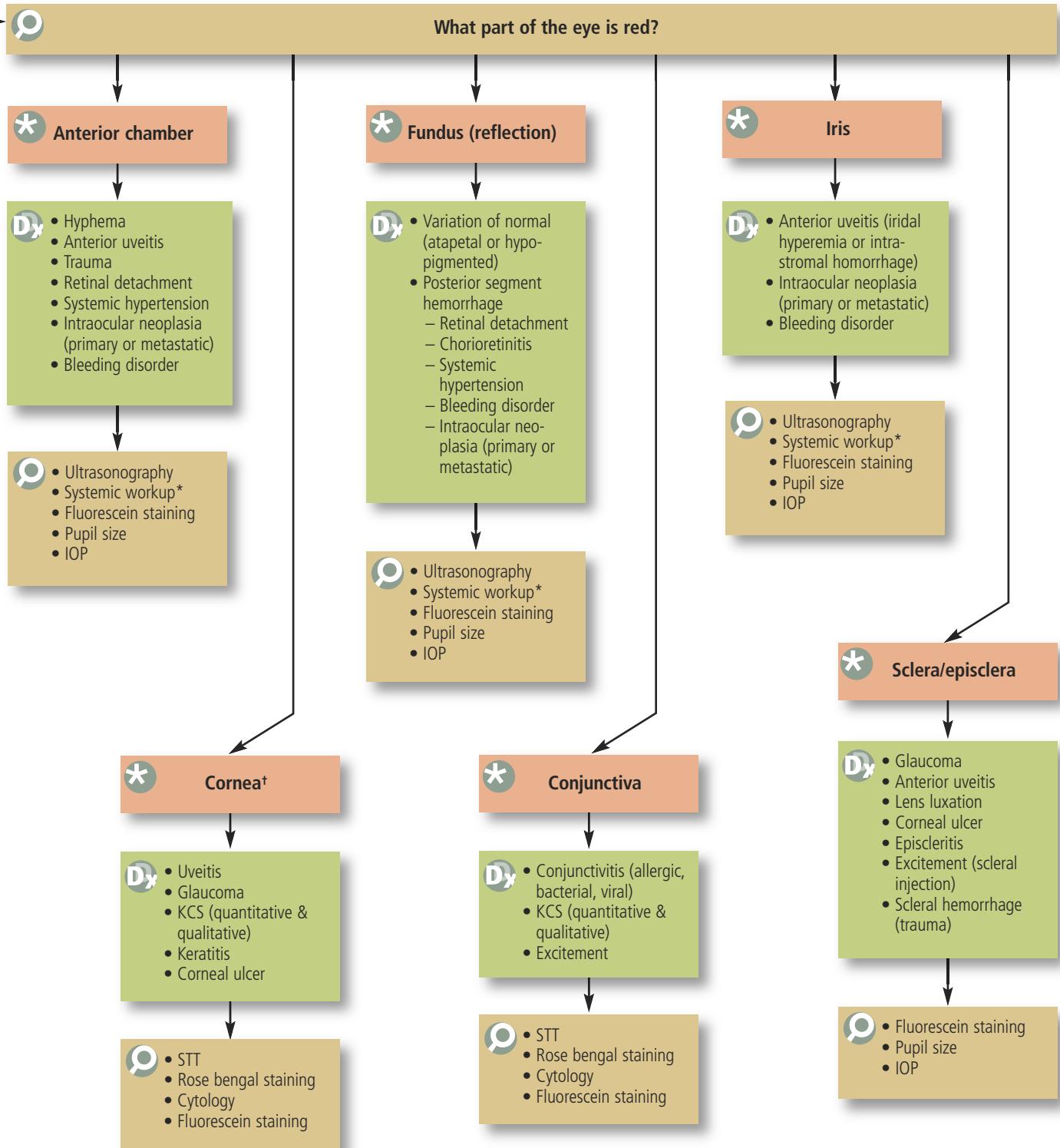
Caryn E. Plummer, DVM, Diplomate ACVO, University of Florida



CHECKLIST: EXAMINING THE RED EYE

- | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Observe eye to determine what part(s) are affected, what appears normal/abnormal, whether eye is painful, and presence of discharge. | <input type="checkbox"/> Develop list of diagnostic differentials based on ocular changes and conduct diagnostic testing. | <input type="checkbox"/> Determine whether eye is visual. | <input type="checkbox"/> Assess pupil size and light reflexes. | <input type="checkbox"/> Perform STT for quantitative assessment of tear production. | <input type="checkbox"/> Perform ocular surface staining:
a) Fluorescein staining to assess corneal epithelium defects, NLD patency, and | <input type="checkbox"/> tear film breakup time and stability | <input type="checkbox"/> Seidel's test to identify leakage of aqueous humor through cornea | <input type="checkbox"/> Rose bengal staining to measure precorneal tear film quality and integrity | <input type="checkbox"/> Perform tonometry to estimate IOP: elevation consistent with glaucoma, decrease consistent with intraocular inflammation. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

IOP = intraocular pressure, KCS = keratoconjunctivitis sicca, NLD = nasolacrimal duct, STT = Schirmer's tear test



* Systemic workup = minimum database, systemic blood pressure, coagulation parameters, infectious disease titers, thoracic/abdominal imaging

† The cornea itself is rarely red unless vascularization is present; blood may also be present within the stroma or behind the cornea, within the anterior chamber, giving the impression of a red cornea

	Investigation		Treatment
	Diagnostic Differentials		Result