

**Table e1: COMMON CLASSIFICATION SCHEMES FOR THYROID EYE DISEASE**

NO SPECS <sup>a, 30, 31</sup>	VISA <sup>32</sup>	CAS <sup>b, c 24, 32</sup>	EUGOGO <sup>34</sup>
Class 0: <b>No</b> physical signs or symptoms	<u>Vision</u> Score: • Yes • No	<u>Pain</u> : • Painful, oppressive feeling on or behind globe during the last 4 weeks • Pain on attempted up, side or down gaze during the past 4 weeks.	<u>Mild</u> : • <2 mm eyelid retraction • Mild soft tissue involvement • >3 mm exophthalmos (above normal for race and gender) • Transient or no diplopia • Corneal exposure responsive to lubrication
Class 1: <b>Only</b> signs (eyelid retraction or eyelid lag)			
Class 2: <b>Soft</b> tissue involvement (0:absent, a: minimal, b:moderate, c: marked)	<u>Inflammation</u> Score: • Orbital pain (none, with gaze, at rest): 0-2 • Chemosis: 0-2 • Eyelid edema: 0-2 • Conjunctival injection: 0-2 • Eyelid injection: 0-1 Total: 0-8	<u>Redness</u> : • Redness of the eyelid(s) • Diffuse redness of the conjunctiva, covering at least one quadrant	<u>Moderate-to-severe</u> : • ≥2 mm eyelid retraction • Moderate or severe soft tissue involvement • ≥3 mm exophthalmos (above normal for race and gender) • Inconstant or constant diplopia
Class 3: <b>Proptosis</b> (0:absent, a: minimal, b: moderate, c: marked)		<u>Swelling</u> : • Swelling of the eyelid(s) • Chemosis • Swollen caruncle • Increase by 2 mm or more in proptosis during period of 1-3 months	<u>Sight-threatening (or very severe)</u> : • Dysthroid optic neuropathy • Corneal breakdown
Class 4: <b>Extraocular</b> muscle signs (0: absent, a: limitation in extreme gazes, b: evident restriction, c: fixation of globe(s))	<u>Strabismus</u> Score: • Strabismus: 0-3 • Restriction: 0-2	<u>Impaired function</u> : • Decrease in eye movements in any direction of >5° during a period of 1-3 months • Decrease in visual acuity (>1 lines on Snellen chart, using pinhole) during a period of 1-3 months	
Class 5: <b>Corneal</b> involvement (0: absent, a: stippling, b: ulceration, c: clouding, necrosis, perforation)	<u>Appearance</u> Score: • Mild • Moderate • Severe		
Class 6: <b>Sight</b> loss (0: absent, a: vision 0.63-0.5, b: vision 0.4-0.1, c: vision >0.1-no light perception)			

#### **ABBREVIATIONS**

CAS: clinical activity score.

EUGOGO: European Group on Graves' Orbitopathy

VISA: Vision, Inflammation, Strabismus, Appearance

#### **NOTES:**

- The VISA and CAS were designed to determine the clinical activity. In comparison, the NO SPECS and EUGOGO classification assess the clinical severity.
- The CAS system was based on the four classic signs of inflammation: dolor, rubor, tumor and function laesa.
- <sup>a</sup> The ophthalmology index is based NO SPECS
- <sup>b</sup> A score of 1 is given for each feature present

- <sup>c</sup> The modified 1992 CAS criteria: spontaneous retrobulbar pain, pain on eye movements, eyelid erythema, conjunctival injection, chemosis, caruncle swelling and eyelid edema and fullness.