

Supplementary Figure 2: Surgical outcomes in TED (Courtesy P Dolman)

a, b. Congestive orbitopathy: a: This patient had persistent periocular inflammatory signs with congestion and edema that was non-responsive to IVGC. She had no progression in any of her severity parameters for over 6 months. Although her CAS scores were very high, she had inactive disease (false positive CAS). b. 2 Weeks

following orbital decompression, her soft tissue inflammatory signs had markedly improved (CAS reduced to zero) from reduction in venous congestion rather than disease inactivation.

- **c:** Right asymmetric proptosis from fat expansion with lid retraction.
- **d.** Improved symmetry following right orbital decompression for disfiguring proptosis along with upper eyelid lowering and lower eyelid elevation.
- **e, f:** Quiescent orbitopathy with misaligned eyes, strabismus, and retracted eyelids, before and after ocular alignment and upper eyelid lowering surgery.
- **g, h:** Isolated right upper eyelid retraction before and after levator recession surgery from a posterior approach
- **i, j:** Bilateral upper lid retraction and upper lid and sub-brow fat expansion before and after upper lid lowering from an anterior approach along with fat sculpting blepharoplasty.

Abbreviations: CAS: clinical activity score; IVGC: intravenous glucocorticoids; TED: thyroid eye disease