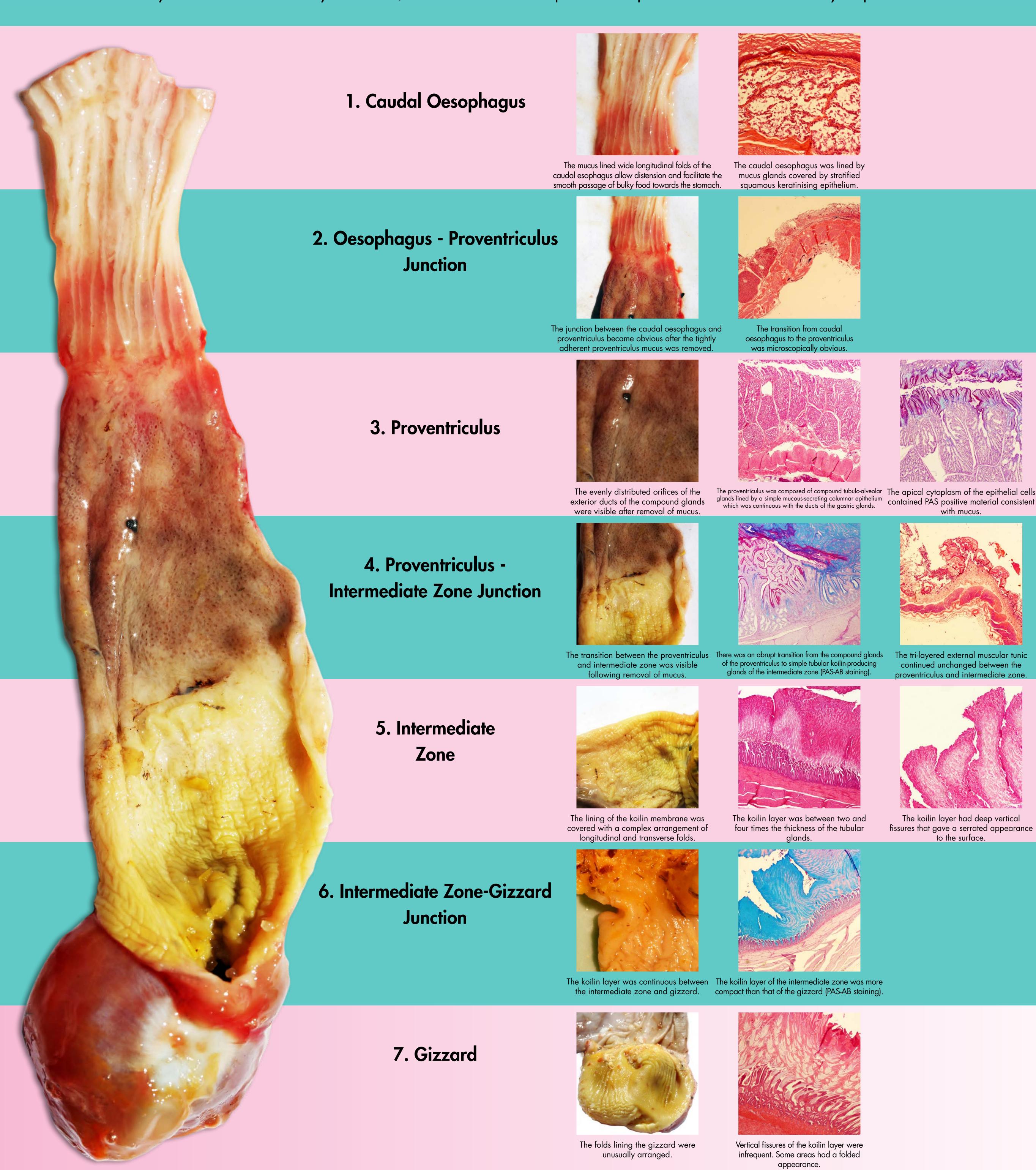
Rob Marshall B.V.Sc., M.A.C.V.Sc (Avian health)*

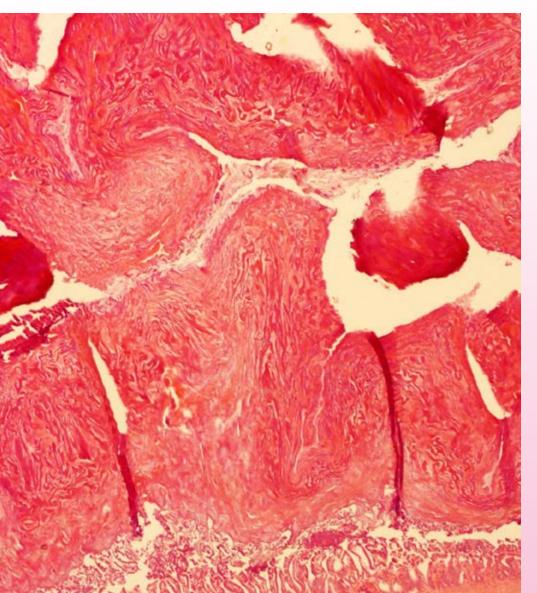
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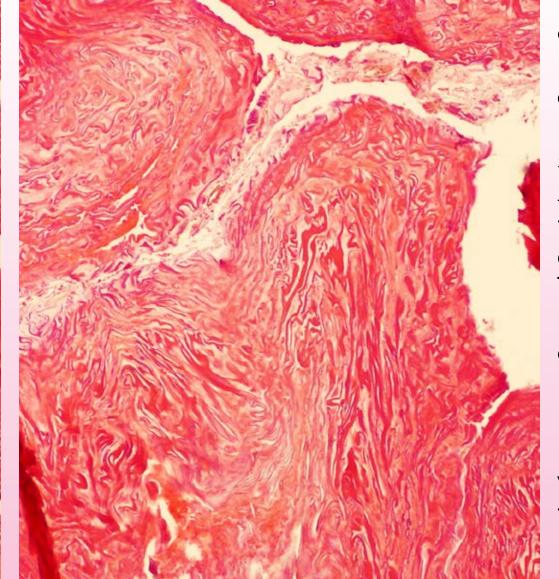
This poster presents an anatomical reference of the stomach of the eclectus parrot for future research into dietary-induced stomach dysfunction, which is an overrepresented problem in this commonly kept bird.



Low Power



High Power



The serrated surfaces of the koilin layer of the intermediate zone were closely opposed. The presence of compact koilin suggests the intermediate zone fulfils a reduction function similar, but different to the gizzard. The serrated membrane is likely to perform a cutting or shredding action. It may fulfil a preliminary reduction function that presents the gizzard with pre-digested pulp thereby reducing the time required for final gizzard processing.

Key Features

Proventriculus

• Cranially displaced. This information is important for diagnostic imaging.

Intermediate Zone

- Elongated and spacious
- Firm structure lined by a complex array of fine tortuous longitudinal and transverse folds Koilin more compact than gizzard koilin

Gizzard

- Large and muscular
- Lined by an unusual arrangement of raised folds at the caudal extremity and near the pylorus

Intermediate Zone Overlooked Psittacine Stomach Part

There are several reasons for this oversight. Unless the structure of the muscular wall is carefully examined, the intermediate zone could easily be misidentified as normal gizzard since the koilin-producing tubular epithelium is very similar to that in the gizzard. In many instances the koilin layer is missing either due to autolysis or proteolytic separation resulting in loss of the layer prior to placing the specimen in formalin. This is another reason why koilin may not have been identified in the intermediate zone.