Release of Immunoglobulins in different mucosal linings

Macanes Tae*

Department of Medicine, The Immunology Institute, Mount Sinai School of Medicine, Iraq

e mucosal immune system is presently in automatically and physiologically diverse tissues, including the gastrointestinal tract, nasopharynx, oral cavity, lung, eye and urogenital tract. Although these compartments share many features the mucosal immune systems of the tissues also directly distinct characteristics, probably re ecting the anatomical and functional requirements at diverse mucosal sitese muc mo1 producing cells. e proportion of IgA1-producing cells relative to IgA2-producing cells corresponds to the proportion of IgA1 to IgA2 in tears. Approximately 10% of the Ig-secreting cells produce IgD of unknown functional importance. Importantly lacrimal gland acini and ducts express the polymeric Ig receptor, a key element in the formation of SIgA and its transportation into tears. Induction of antigens in ocular mucosa induces antigen speci c SIgA responses in the ocular and nasal cavities, as well as systemic Immunoglobulin G antibody responses [2].

e tear duct associated lymphoid tissues in the conjunctival sac are connected via the tear duct to nasal cavity.

Oral cavity association with mucosal systems and its immunoglobulins

Saliva consists of uids derived from large salivary glands, small salivary glands and crevicular uid. e variable contribution of these tissues and crevicular uid to the immunoglobulin pool in saliva depends on the periodontal health of the oral cavity. SIgA is dominant in secretions of all salivary glands, with a composition of about 60% IgA1 and 40% IgA2. IgG and IgM are present in small quantities [3]. In contrast, the crevicular uid contains mainly plasma derived proteins and IgG isotype. In the oral cavity the mucosal and systemic Ig contributions depend on the stage of oral health. In advanced periodontal disease, the proportion of plasma derived IgC antibodies in tpaSIgGg con

***Corresponding author:** Macanes Tae, Department of Medicine, The Immunology Institute, Mount Sinai School of Medicine, Iraq, E-mail: macanestae@gmail.com

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