

## Quantitative electron microscopy of endocrine cells in oxyntic mucosa of normal human stomach

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**Summary.** An ultrastructural morphometric study of the endocrine cells of the oxyntic mucosa of the stomach in gastric biopsies collected from five male and five female healthy volunteers aged 19–31 was performed. No sex-related differences were disclosed. Endocrine cells accounted for  $1.2 \pm 0.4\%$  of the epithelial volume and  $0.9 \pm 0.4\%$  of the mucosal volume, i.e., including the lamina propria. After classification of the specific endocrine cell types according to the ultrastructural morphology of secretory granules, the volume densities of EC1-, P and D cells ( $30 \pm 9\%$ ,  $24 \pm 7\%$ , and  $22 \pm 4\%$  of the entire endocrine cell mass, respectively) were higher than those of other endocrine cell types. In particular, EC cells contributed less than 10% and X cells represented a very low proportion of the total cells. Non-granulated profiles of cells which in all other respects appeared to be endocrine were also found with a volume density of  $8 \pm 4\%$ . D cells were distinguished by the high fraction of cytoplasm occupied by secretory granules ( $51 \pm 5\%$ ). Subdivision of the whole mucosa into four horizontal segments revealed the endocrine cells to be mostly distributed in the three lower, with virtually no endocrine cells in the superficial segment. The quantitative ultrastructural analysis of the endocrine cell population of the normal human oxyntic mucosa provided by this study may allow a better evaluation of physiological and pharmacological variations of the endocrine cell population.

**Key words:** Stomach · Endocrine cells · Electron microscopy · Morphometry · Man

The oxyntic mucosa of the stomach contains a heterogeneous population of endocrine cells scattered among the parietal and chief cells which secrete gastric juice. Although several ultrastructural types of endocrine cells had been identified (Solcia et al. 1975), the function of most remains unknown (Bordin et al. 1983).

The interest in the endocrine cell population of the oxyntic mucosa has been stimulated by the pathological changes found in clinical and experimental conditions associated with elevated circulating levels of gastrin. Endocrine cell hyperplasia and carcinoid tumors of the oxyntic mucosa

have been described in patients with hypergastrinemia either of antral origin as in cases of atrophic gastritis of the oxyntic mucosa, or due to extragastric tumors as in the Zollinger-Ellison syndrome (Solcia et al. 1975, 1986; Bordin et al. 1975, 1983, 1988). Moreover, the same lesions develop in animals undergoing long term toxicological studies with inhibitors of gastric acid secretion (Ekman et al. 1985; Poyner et al. 1985, 1986), a condition inducing increased gastrin release (Larsson et al. 1986). These observations suggest that a hormone (gastrin)-related mechanism is involved in the genesis of carcinoid tumors of the oxyntic mucosa (Bordin et al. 1988).

The evaluation of the initial stages of these lesions requires adequate quantitative morphological data on the endocrine cell population of the human oxyntic mucosa in normal conditions as well as on the frequency and distribution of the specific cell types. Such information is not available in the literature. In this regard electron microscopy is the only suitable procedure for cell identification because immunocytochemistry is prevented by the lack of specific antisera against the still undefined secretory products of most cell types.

Therefore, this study has been designed with the aim of providing a quantitative ultrastructural analysis of the endocrine cells in the normal human oxyntic mucosa.

### Materials and methods

**Subjects.** Five male and five female healthy volunteers, aged 19–31 (mean age 26.6) were included in the study. Informed, written consent in accordance with the current legal requirements in Italy was obtained in each case. The subjects were fasted overnight, and the following morning a gastroscopy was performed with the use of a fiberoptic Olympus GIF-XQ gastroscope. Thirty minutes before the examination diazepam (Valium, 5 mg) and hyoscine-n-butyl-bromide (Buscopan, 10 mg) were given by intramuscular injection and simeticone (Mylicon, 80 mg) was administered by mouth. Immediately before the gastroscopy a blood sample was taken for determination of gastrin and the pharynx was anesthetized with Xylocain spray. In all subjects the mucosa was of normal colour and configuration and no pathological findings were present in the stomach or in the duodenum. Four mucosal biopsies, two with Pb 24k and two with Pb 25k forceps, were taken from the median area of the posterior wall of the gastric body. In addition,

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