Preneoplastic lesions and pH: correlation

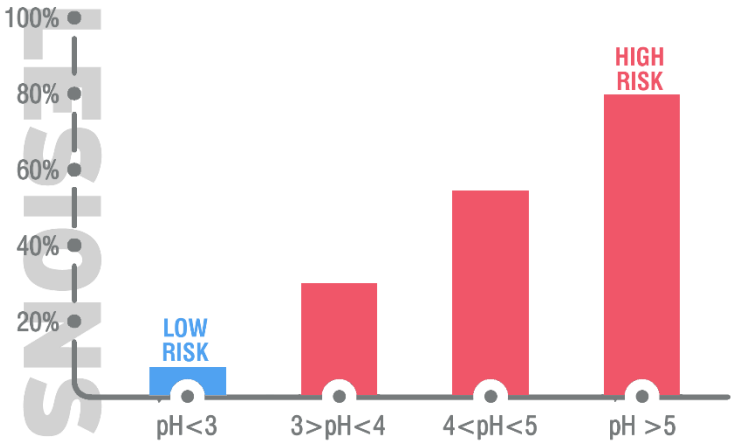
endofaster
real time gastric juice analysis

Gastric juice pH shows high correlation with neoplastic risk conditions:
Atrophic Gastritis , Intestinal Metaplasia, Hypergastrinemia, Endocrine Cells Hyperplasia

92% NPV

85% patients

reduce or avoid histologies



74% PPV

15% patients

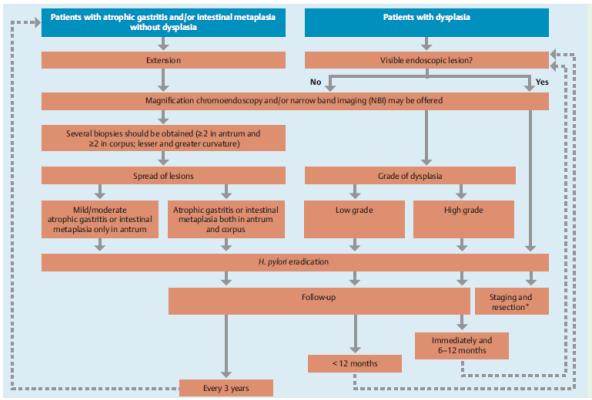
complete histological mapping

Endofaster, is an innovative device that analyses gastric juice in real time during a gastroscopy.
Endofaster is integrated into the endoscope by connecting it to the suction system.

The real-time gastric juice analysis will **alert** you of **neoplastic risk factors in real time** by running an instant pH test:
elevated gastric pH levels are closely associated with the presence of preneoplastic lesions and, subsequently, with higher OLGA and OLGIM stages.

Knowing the pH value in barely 15 seconds from the start of the procedure will enable you to perform an in-depth examination in **high-risk** patients by a complete mapping of targeted and appropriate biopsies, thus improving diagnostic accuracy.
However, when endofaster indicates **low-risk** patients with a high negative predictive value, you can **save both time and resources**.

pH analysis in real-time is useful to focus on patients at-risk and plan follow-up as recommended by MAPS guidelines



MAPS Guidelines from ESGE – EHSG – ESP – SPED Dinis-Ribeiro et al. 2012

Real-time gastric juice analysis may help individuation of higher stage lesions according to OLGA and OLGIM systems

The OLGA staging system

ATROPHY SCORE: Score 0= no atrophy in any of the specimens obtained from the same compartment; Score 1= atrophy involving 1–30% of the specimens obtained from the same compartment; Score 2= atrophy involving 31–69% of the specimens obtained from the same compartment; Score 3= atrophy involving >60% of the specimens obtained from the same compartment		CORPUS BIOPSY SPECIMENS Overall score of atrophy as assessed in 2 biopsy samples obtained from oxyntic mucosa			
		Score 0	Score 1	Score 2	Score 3
ANTRUM BIOPSY SPECIMENS Overall score of atrophy as assessed in the 3 biopsy samples obtained from the antrum and from the angularis incisura	Score 0	Stage 0	Stage I	Stage II	Stage II
	Score 1	Stage I	Stage I	Stage II	Stage III
	Score 2	Stage II	Stage II	Stage III	Stage IV
	Score 3	Stage III	Stage III	Stage IV	Stage IV

The OLGIM staging system

		CORPUS BIOPSY SPECIMENS Intestinal Metaplasia (IM)			
		IM absent score 0	IM mild score 1	IM moderate score 2	IM severe score 3
ANTRUM BIOPSY SPECIMENS Overall score of Intestinal Metaplasia (IM) as assessed in the 3 biopsy samples obtained from the antrum and angularis incisura	IM absent score 0	Stage 0	Stage I	Stage II	Stage II
	IM mild score 1	Stage I	Stage I	Stage II	Stage III
	IM moderate score 2	Stage II	Stage II	Stage III	Stage IV
	IM severe score 3	Stage III	Stage III	Stage IV	Stage IV