

ACADEMIE INTERNATIONALE DE PATHOLOGIE
DIVISION FRANÇAISE

*Cancers gastriques (sporadic and familial)
et états précancéreux*

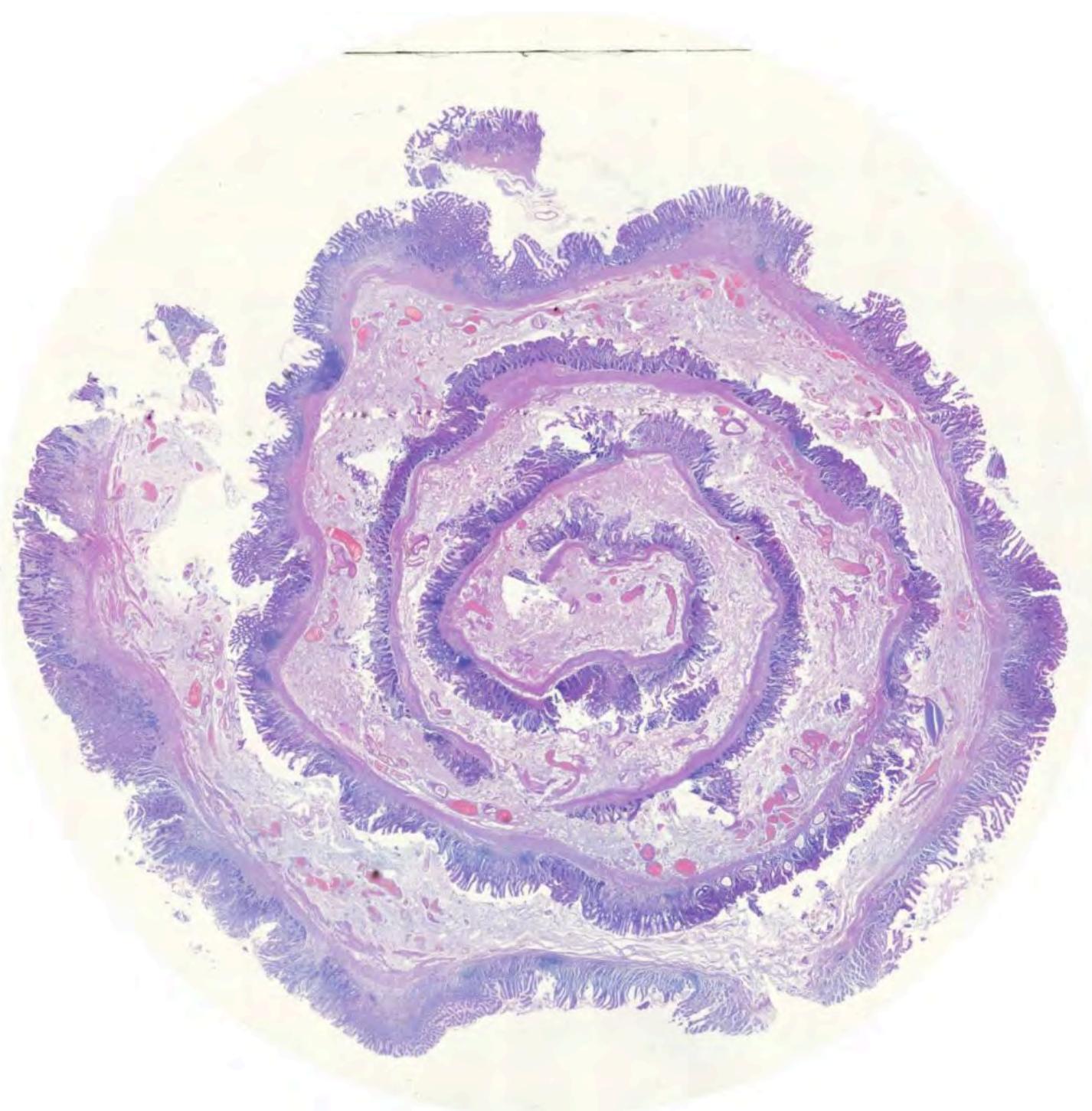
Cas 1

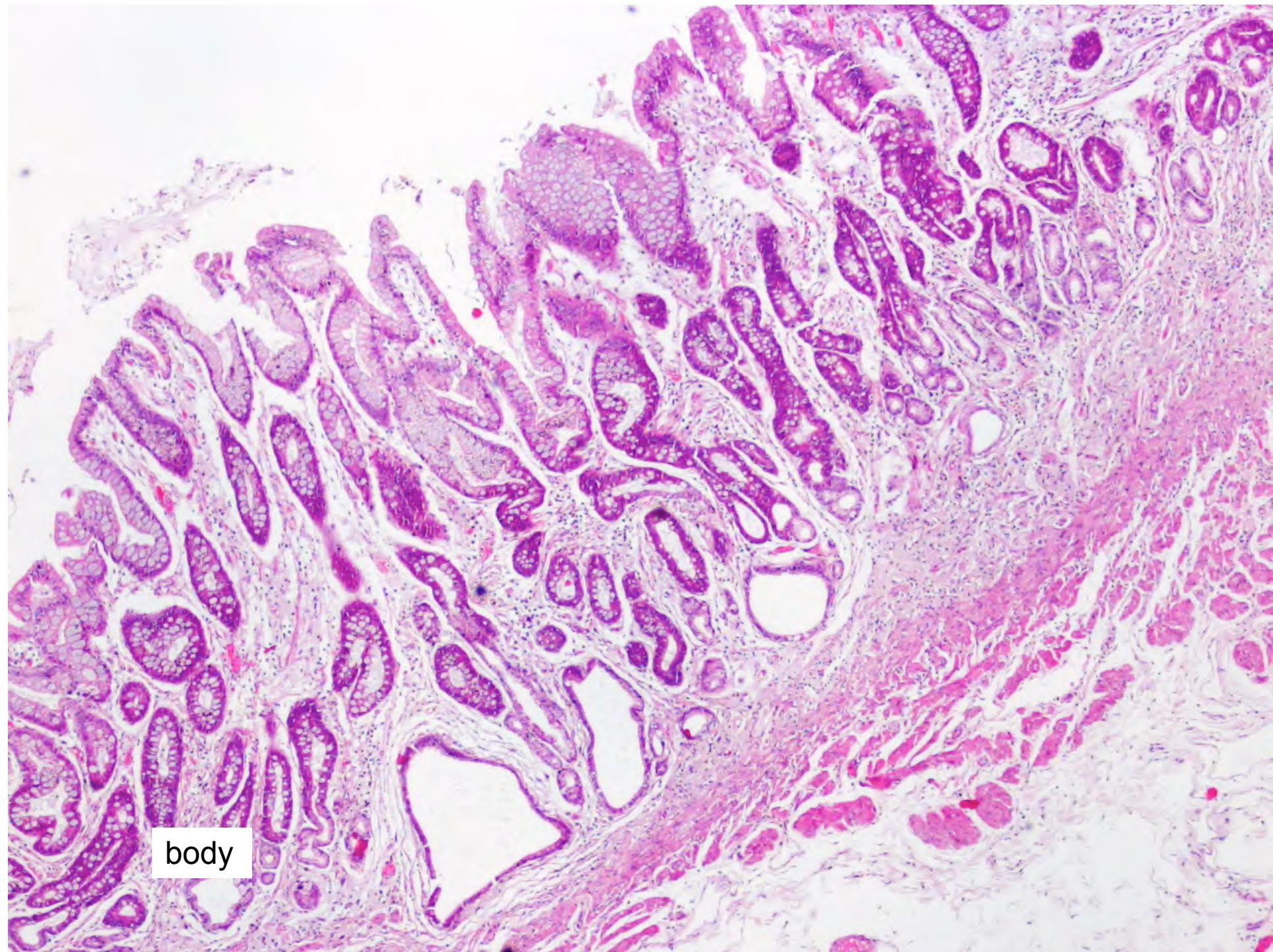


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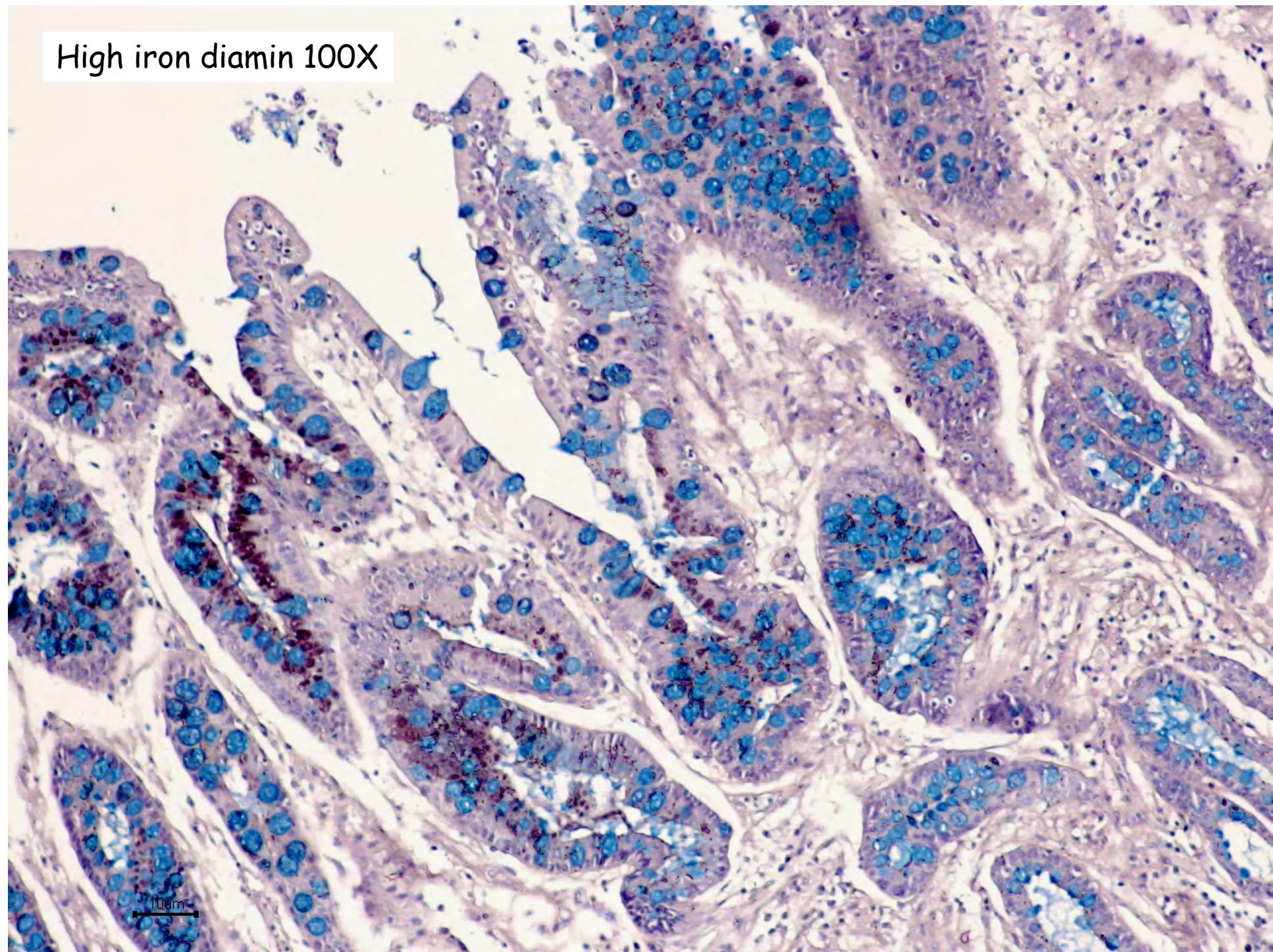
Case 1 - H04/6023 - Male, 65 y, rugosity of antral gastric mucosa

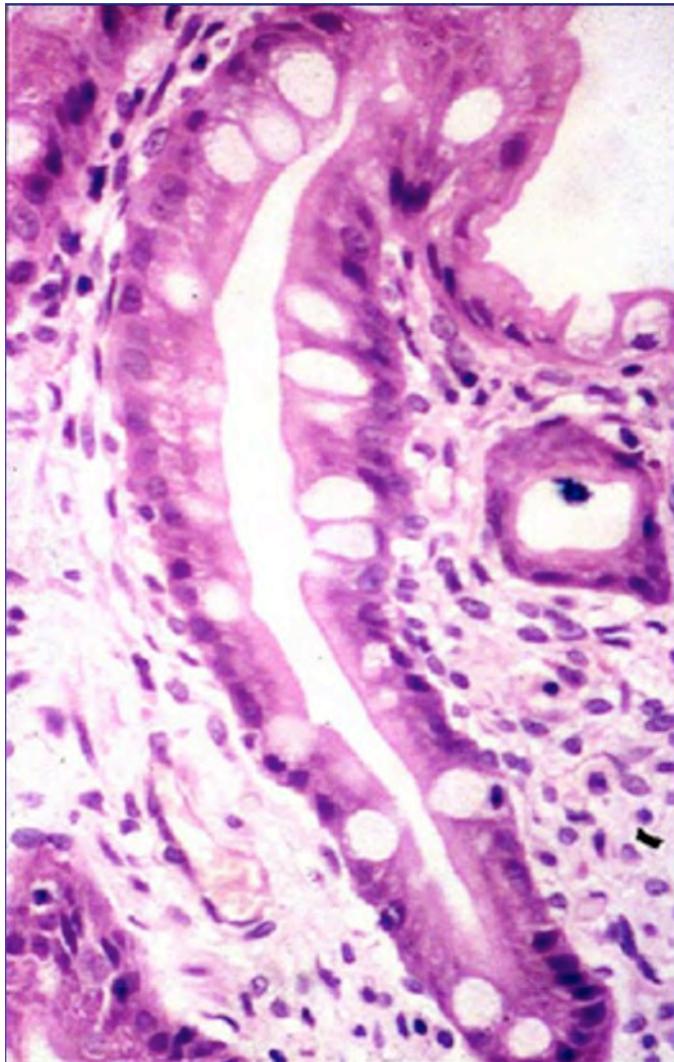




body

High iron diamin 100X



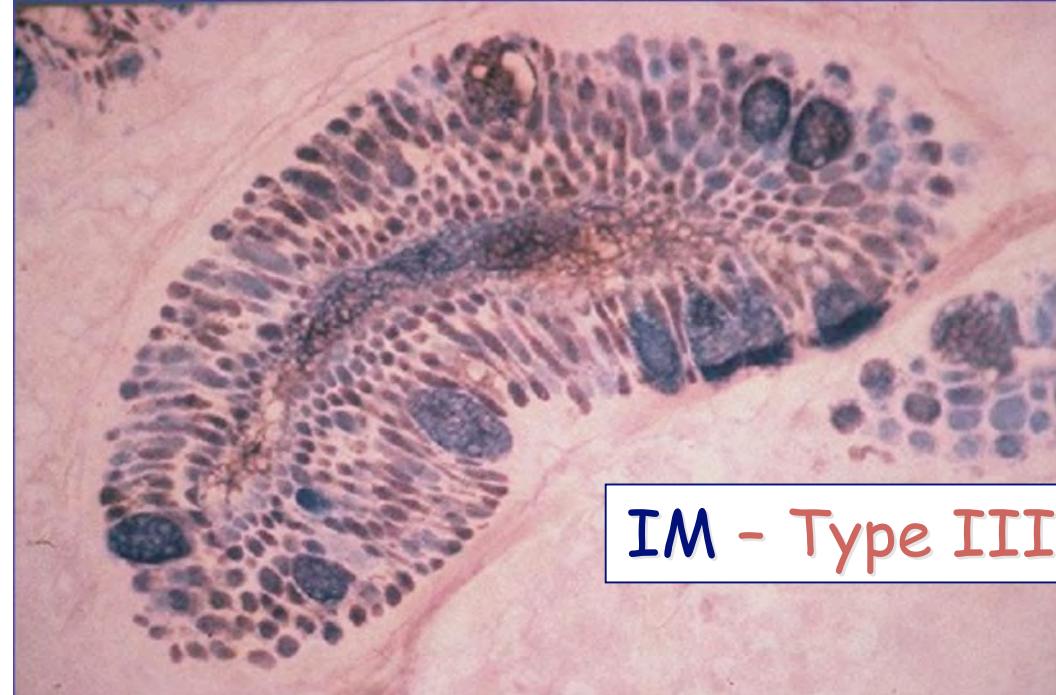


Intestinal metaplasia (IM)

Type I - complete

Type II - incomplete

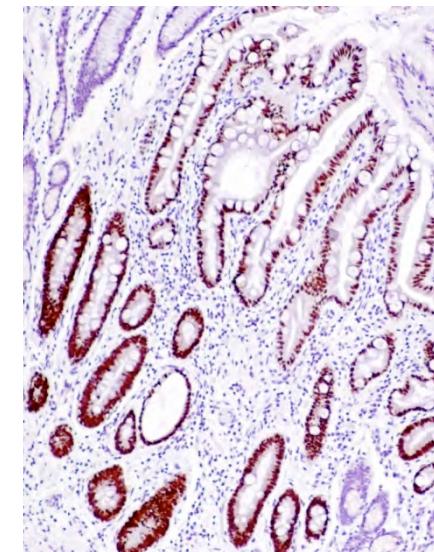
Type III - incomplete



Jass JR & Filipe MI
Histochem J 13: 931, 1981

MUCIN EXPRESSION PATTERN IN INTESTINAL METAPLASIA

TYPE I (Pure intestinal)
~~MUC5AC, MUC6, MUC2~~



TYPES II/III (Mixed gastric/intestinal)
MUC1, MUC5AC, MUC6 + MUC2

Reis C et al
Cancer Res 59: 1003, 1999

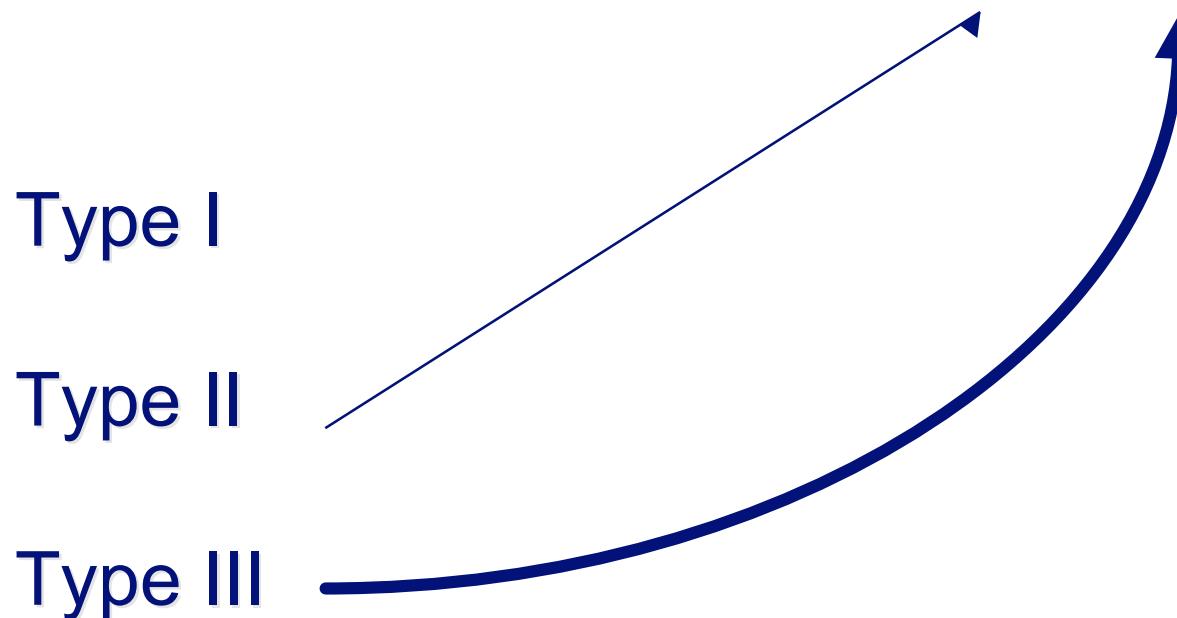
Normal
mucosa

TYPE I
(Pure intestinal)

TYPES II and III
(Mixed gastric and intestinal)

Reis C *et al*
Cancer Res 59: 1003, 1999

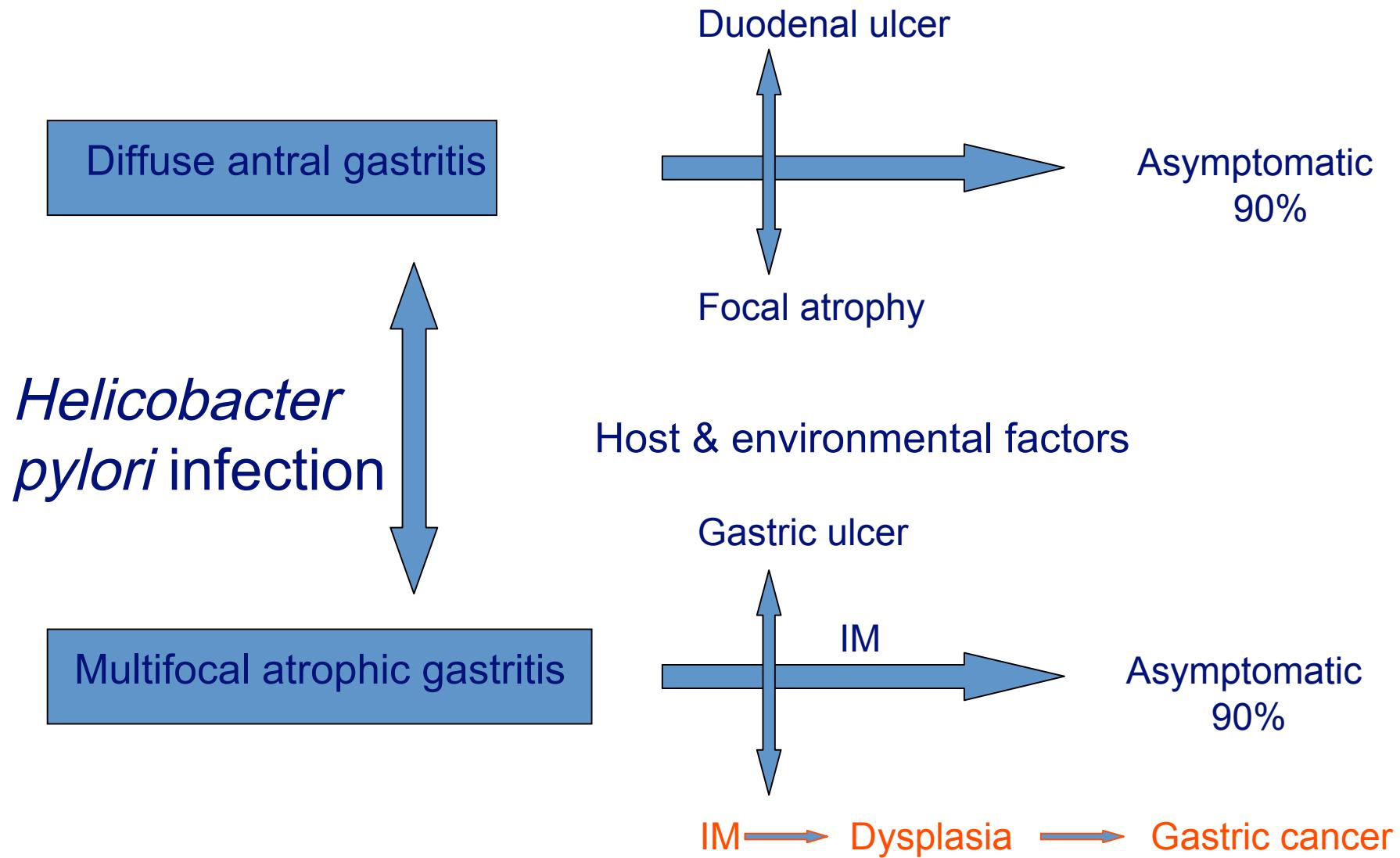
INTESTINAL METAPLASIA ↔ GASTRIC CARCINOMA

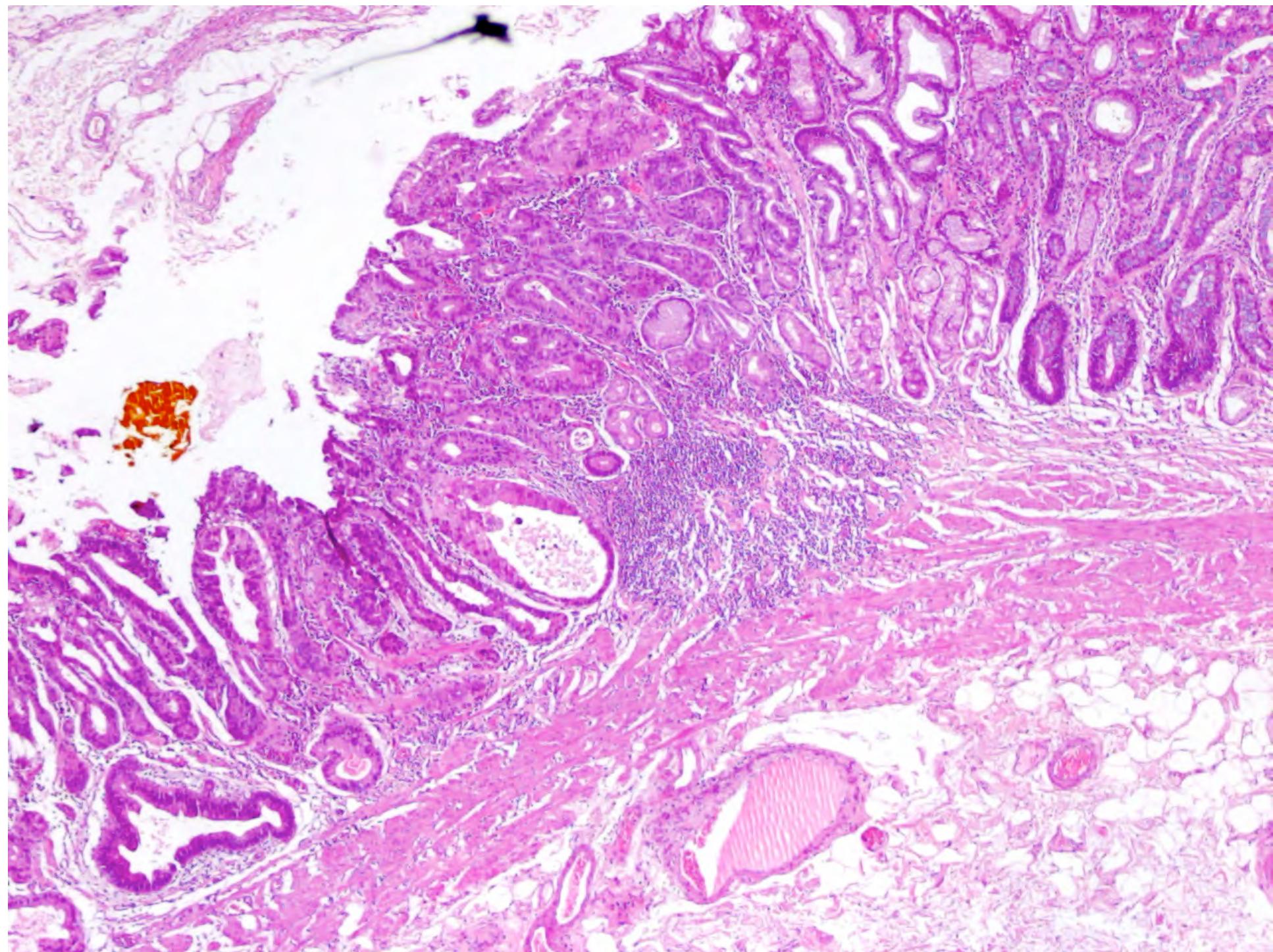


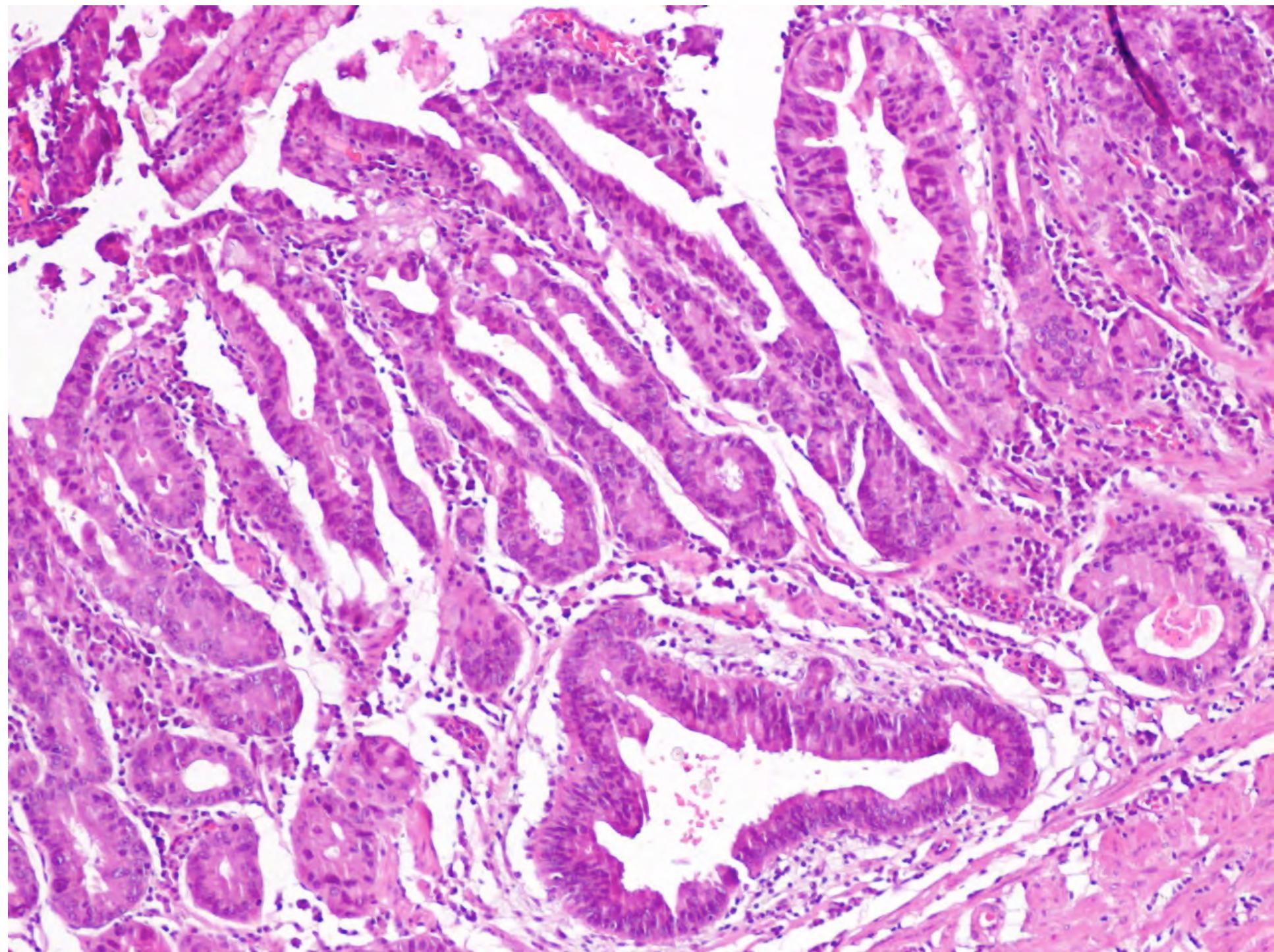
Filipe F *et al.* Int J Cancer 57: 324, 1994
Reis C *et al.* Cancer Res 59: 1003, 1999

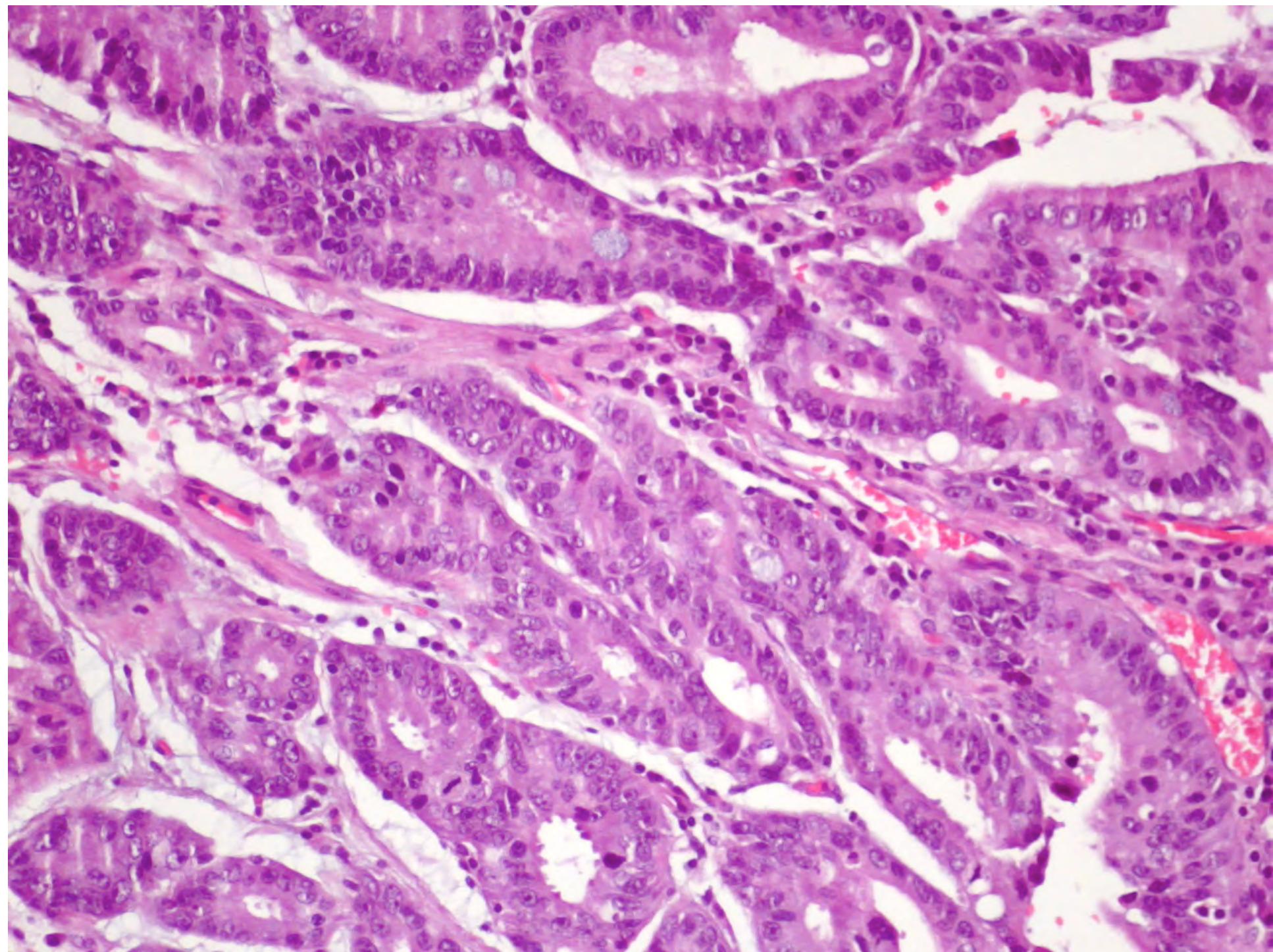
Effects of *Helicobacter pylori* eradication on reversal of gastric atrophy or intestinal metaplasia

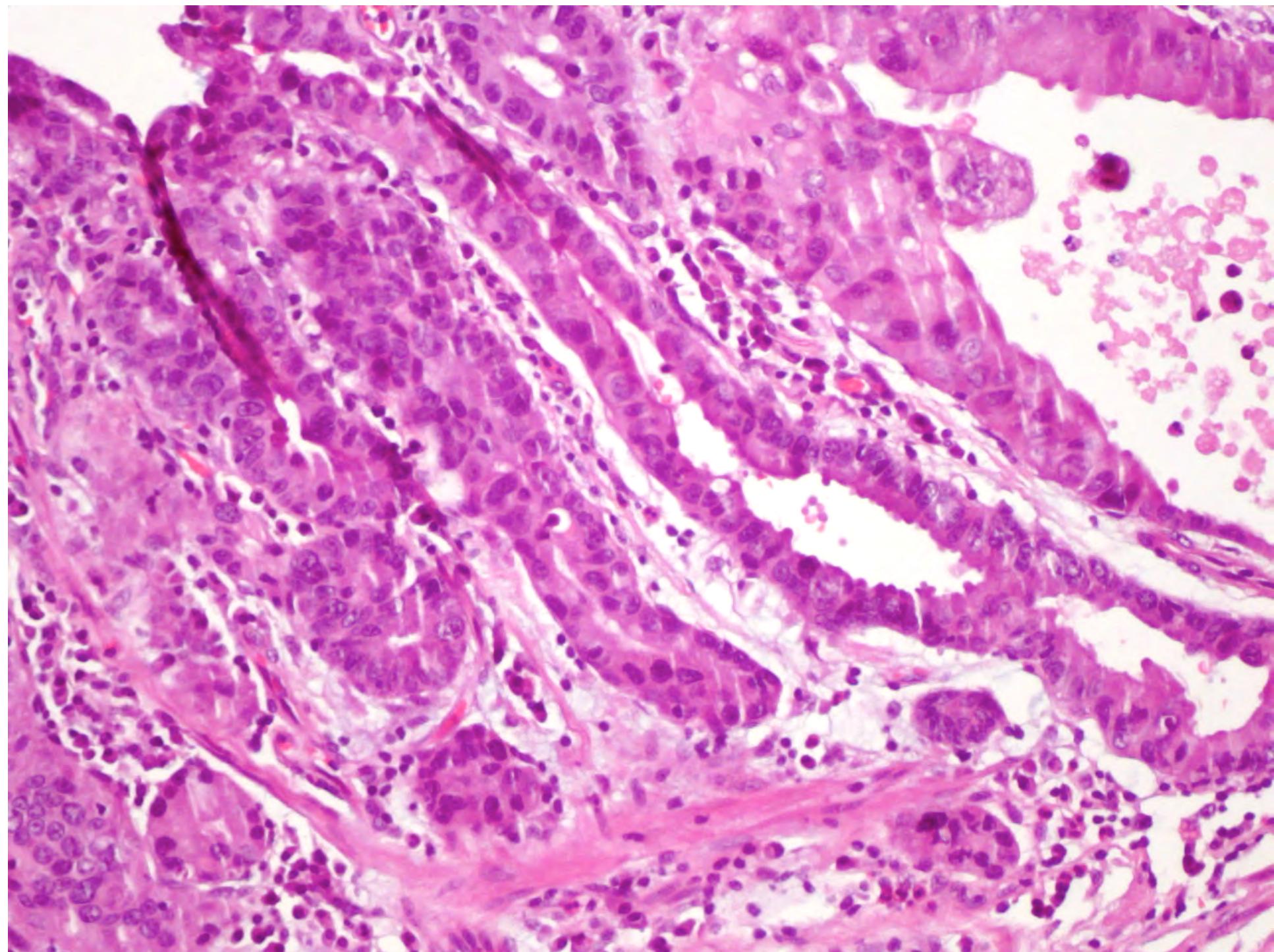
Reference	Design/no of pts	Follow-up	Outcome	Country
Wong BCY <i>et al</i> , 2002	Prospective, randomized/1628	60-84	Slowing of progression of CAG and IM	China
Ito M <i>et al</i> , 2002	Prospective/22 pts	60	Regression of CAG/IM	Japan
Correa P <i>et al</i> , 2000	Prospective randomized intervention trial/controlled	72	Regression of IM in treated (15%) pts	Colombia
El-Omar EM <i>et al</i> , 2000	Prospective, controlled/200	12	No change in IM, regression of CAG	UK
Uemura N <i>et al</i> , 1997	Prospective non- randomized gastric cancer pts/132	24/36	Decreased severity of IM	Japan
Van der Hulst RW <i>et al</i> , 1997	Prospective, controlled/155	12	No change in IM, regardless of cagA status	Netherlands

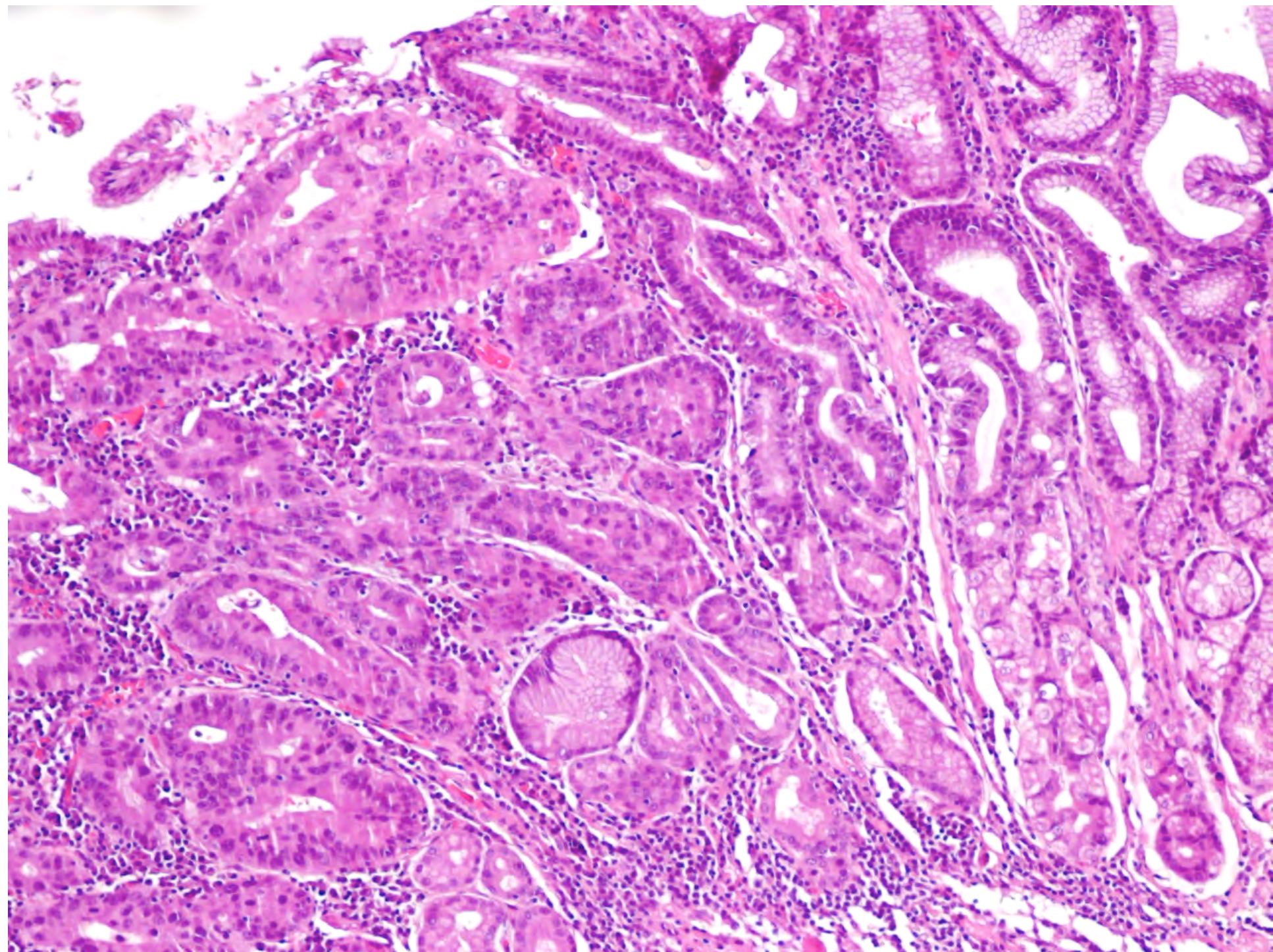


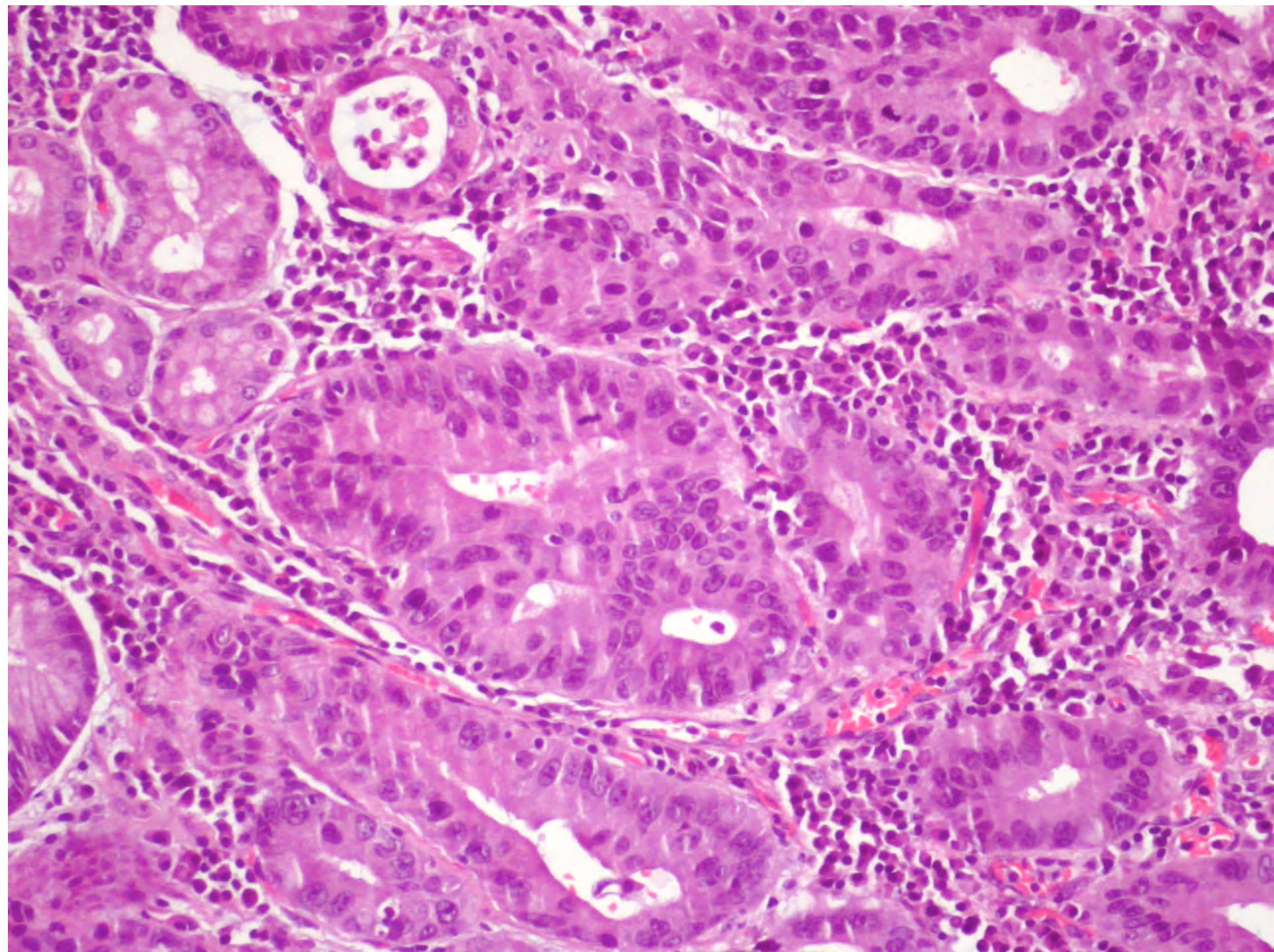


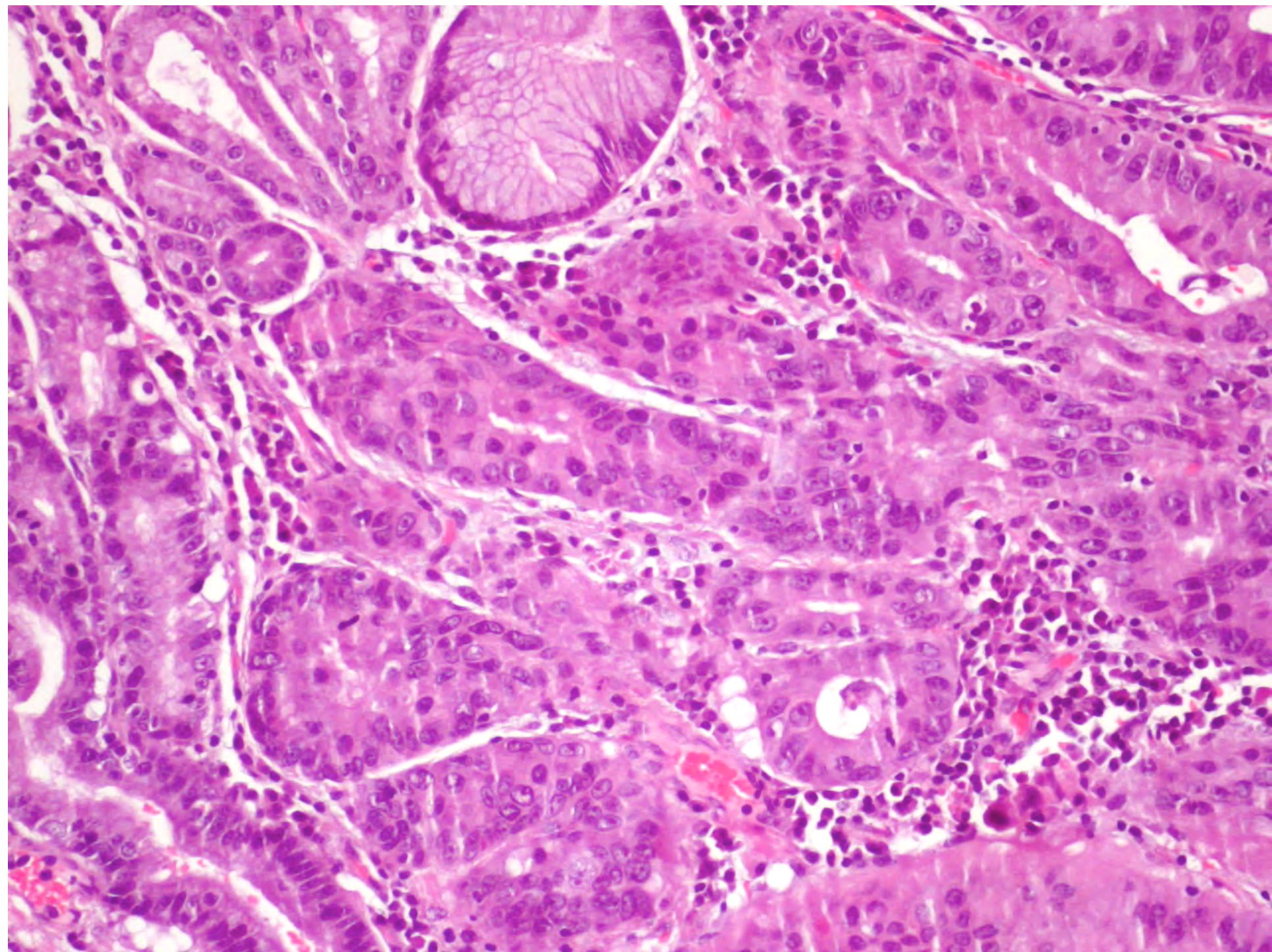


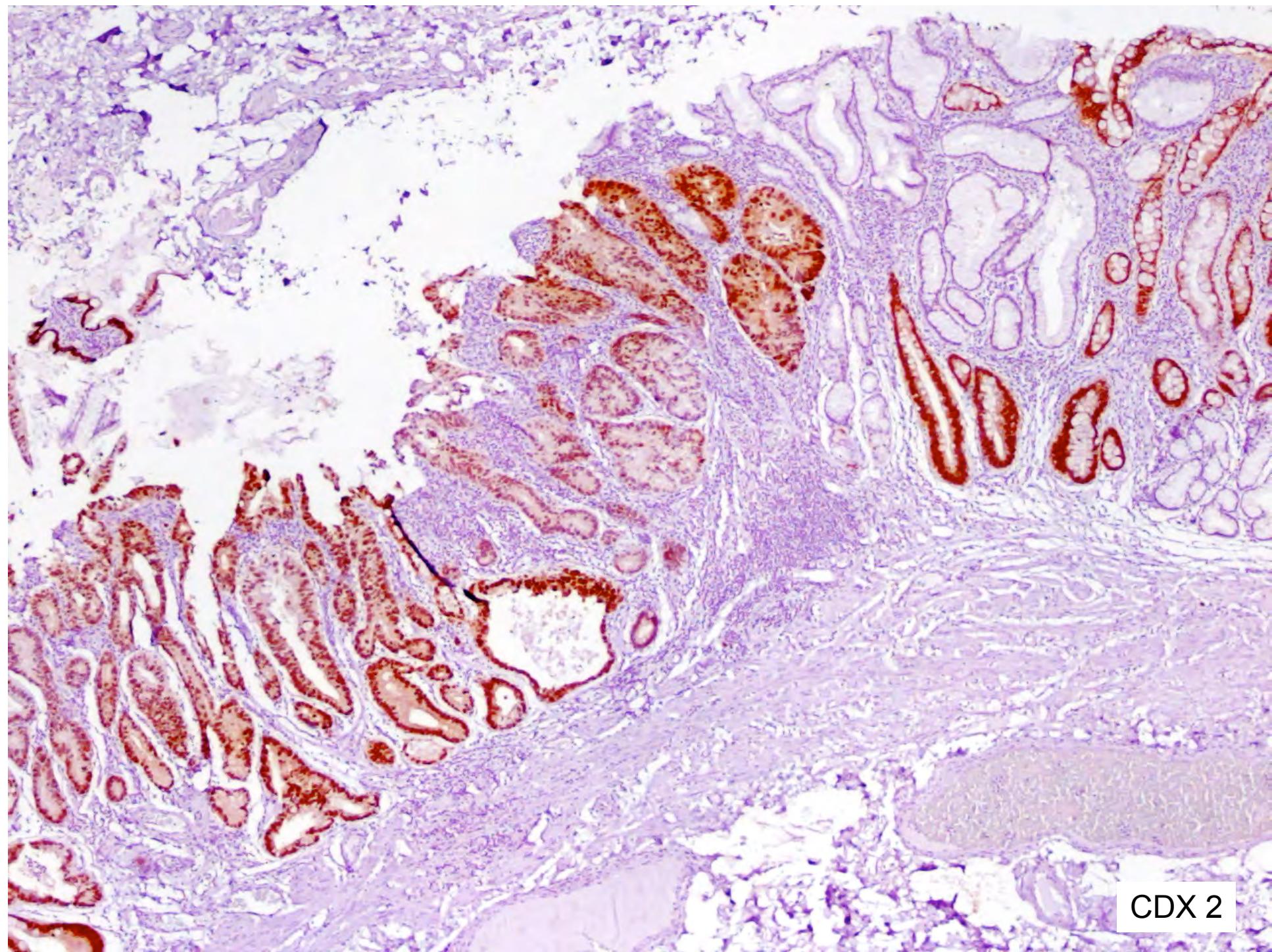




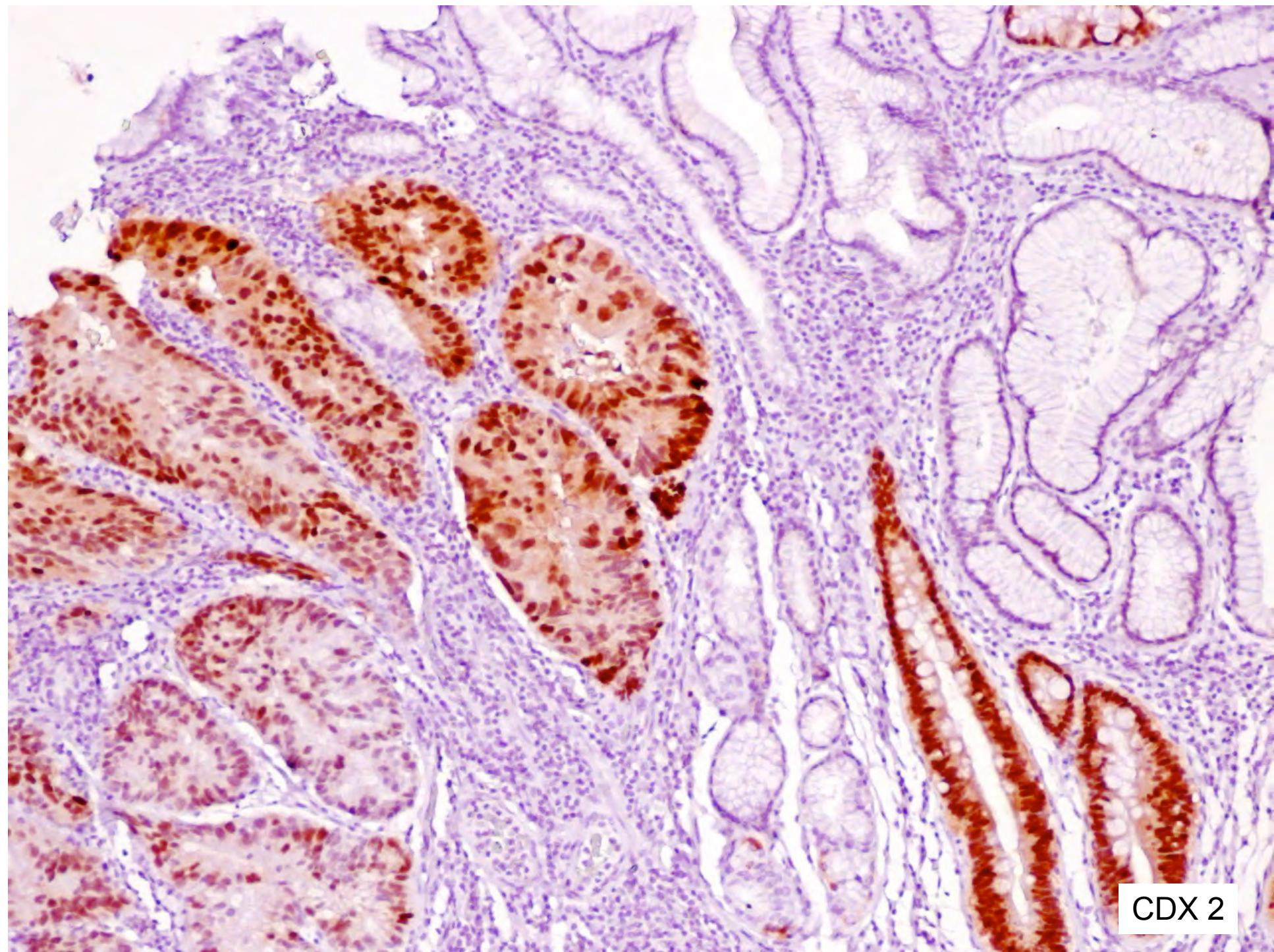








CDX 2



CDX 2

Vienna classification of gastrointestinal epithelial neoplasia

- 1 Negative for neoplasia/dysplasia
- 2 Indefinite for neoplasia/dysplasia
- 3 Non-invasive low grade neoplasia
(low grade adenoma/dysplasia)
- 4 Non-invasive high grade neoplasia
 - 4.1 High grade adenoma/dysplasia
 - 4.2 Non-invasive carcinoma (*in situ*)
 - 4.3 Suspicion of invasive carcinoma
- 5 Invasive neoplasia
 - 5.1 Intramucosal carcinoma
 - 5.2 Submucosal carcinoma or beyond

The new Vienna classification

- 4 Non-invasive high grade neoplasia
 - 4.1 High grade adenoma/dysplasia
 - 4.2 Non-invasive carcinoma (*in situ*)
 - 4.3 Suspicion of invasive carcinoma
 - 4.4 Intramucosal carcinoma
 - 5 Invasive neoplasia (Submucosal carcinoma or beyond)

Schlemper RJ *et al*: The Vienna classification of gastrointestinal epithelial neoplasia. Gut 47: 251, 2000

Stolte M: The new Vienna classification of epithelial neoplasia of the gastrointestinal tract: advantages and disadvantages. Virchows Archiv 442: 99, 2003

(New) WHO classification	"Old" nomenclature	Padova classification	Vienna classification	Updated Vienna classification
No intra-epithelial neoplasia	Negative for dysplasia	Negative for non-invasive neoplasia (Category 1)	Negative for neoplasia/dysplasia (Category 1)	No neoplasia (Category 1)
Indefinite for intra-epithelial neoplasia	Indefinite for dysplasia	Indefinite for non-invasive neoplasia (Category 2)	Indefinite for neoplasia/dysplasia (Category 2)	Indefinite for neoplasia (Category 2)
Low grade intra-epithelial neoplasia (syn. low grade adenoma; low grade dysplasia)	Low grade dysplasia	Low-grade non-invasive neoplasia (Category 3)	Non-invasive low grade neoplasia (low grade adenoma/dysplasia) (Category 3)	Low-grade adenoma/dysplasia (Category 3)
High grade intra-epithelial neoplasia (syn. high grade adenoma; high grade dysplasia, non-invasive <u>intramucosal</u> carcinoma)	High grade dysplasia	High-grade non-invasive neoplasia (Category 3)	High grade adenoma/dysplasia (Category 4.1) & Non-invasive carcinoma (carcinoma <i>in situ</i>) (Category 4.2)	High-grade adenoma/dysplasia (Category 4.1) & Non-invasive carcinoma (carcinoma <i>in situ</i>) (Category 4.2)
<u>Intramucosal</u> invasive neoplasia (syn. <u>intramucosal</u> carcinoma)	High grade dysplasia	(Suspicious for) <u>intramucosal</u> invasive carcinoma (Category 4)	Suspicion of invasive carcinoma (Category 4.3) & <u>Intramucosal</u> carcinoma (Category 5.1)	Suspicion for invasive carcinoma (Category 4.3) & <u>Intramucosal</u> carcinoma (Category 4.4)
Invasive neoplasia (syn. invasive carcinoma)	Carcinoma	Carcinoma (Category 5)	<u>Submucosal</u> carcinoma or beyond (Category 5.2)	<u>Submucosal</u> invasive carcinoma or beyond (Category 5)

Intramucosal carcinoma in the background of chronic atrophic gastritis with intestinal metaplasia (incomplete type)