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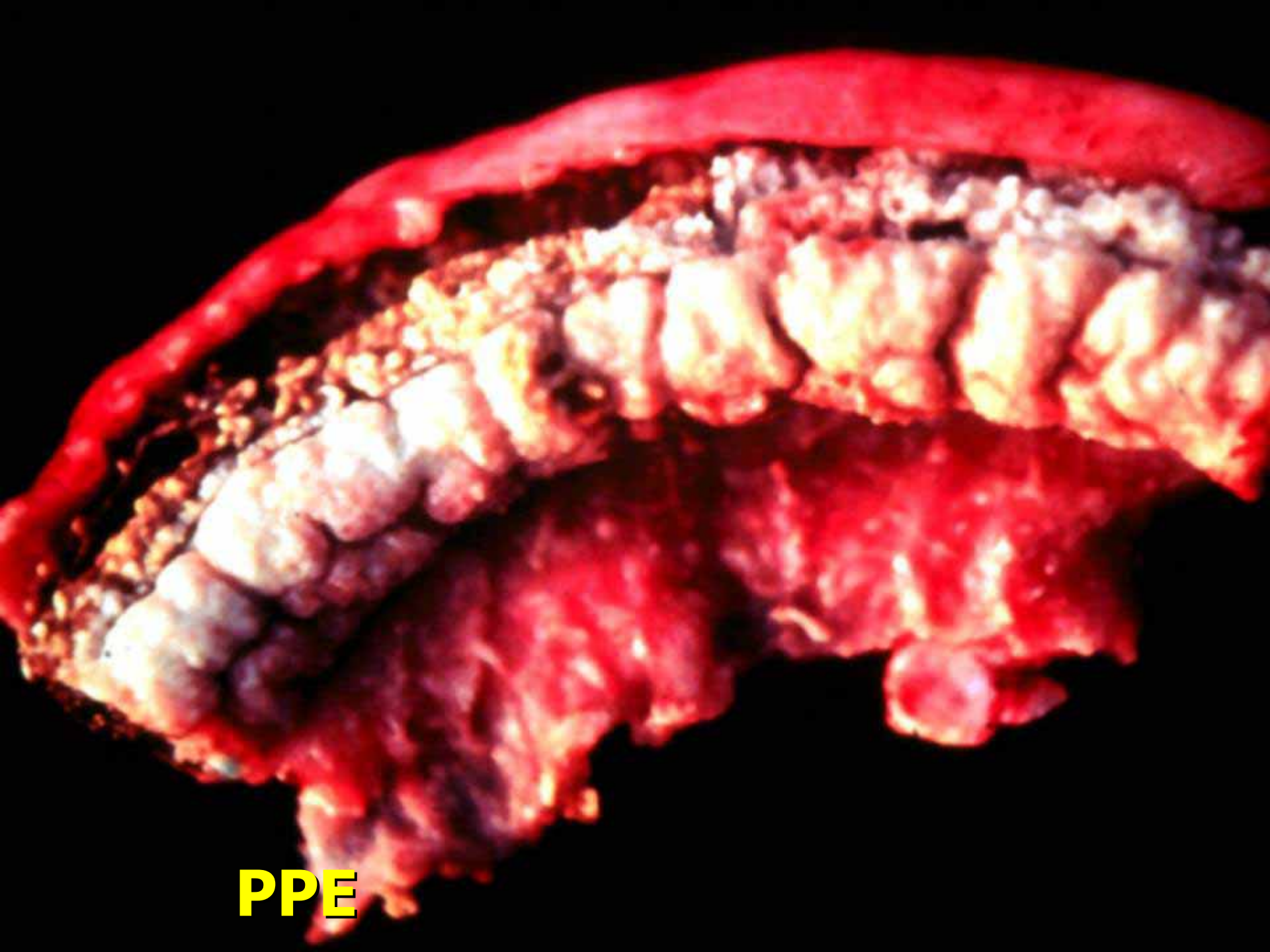
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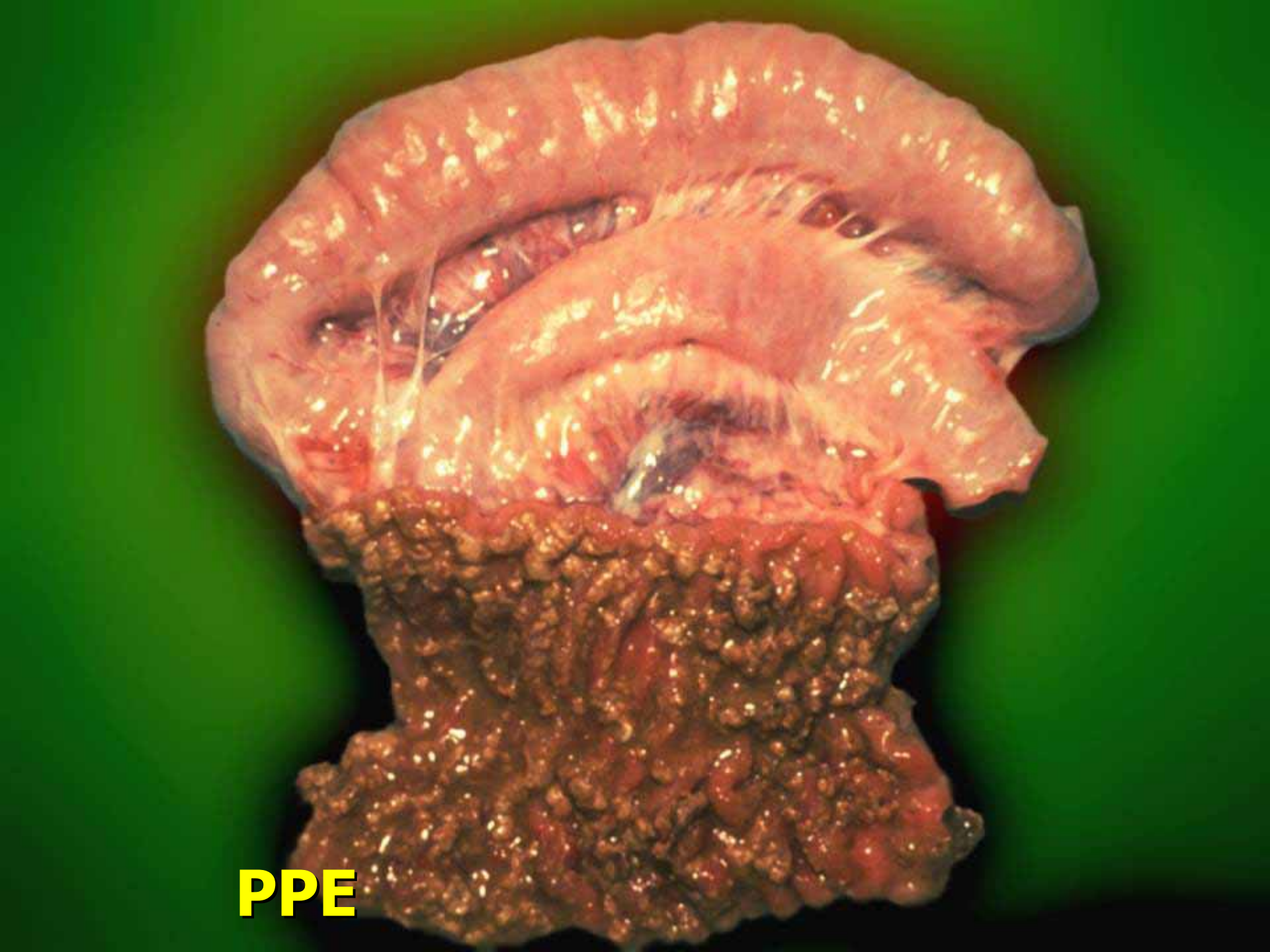
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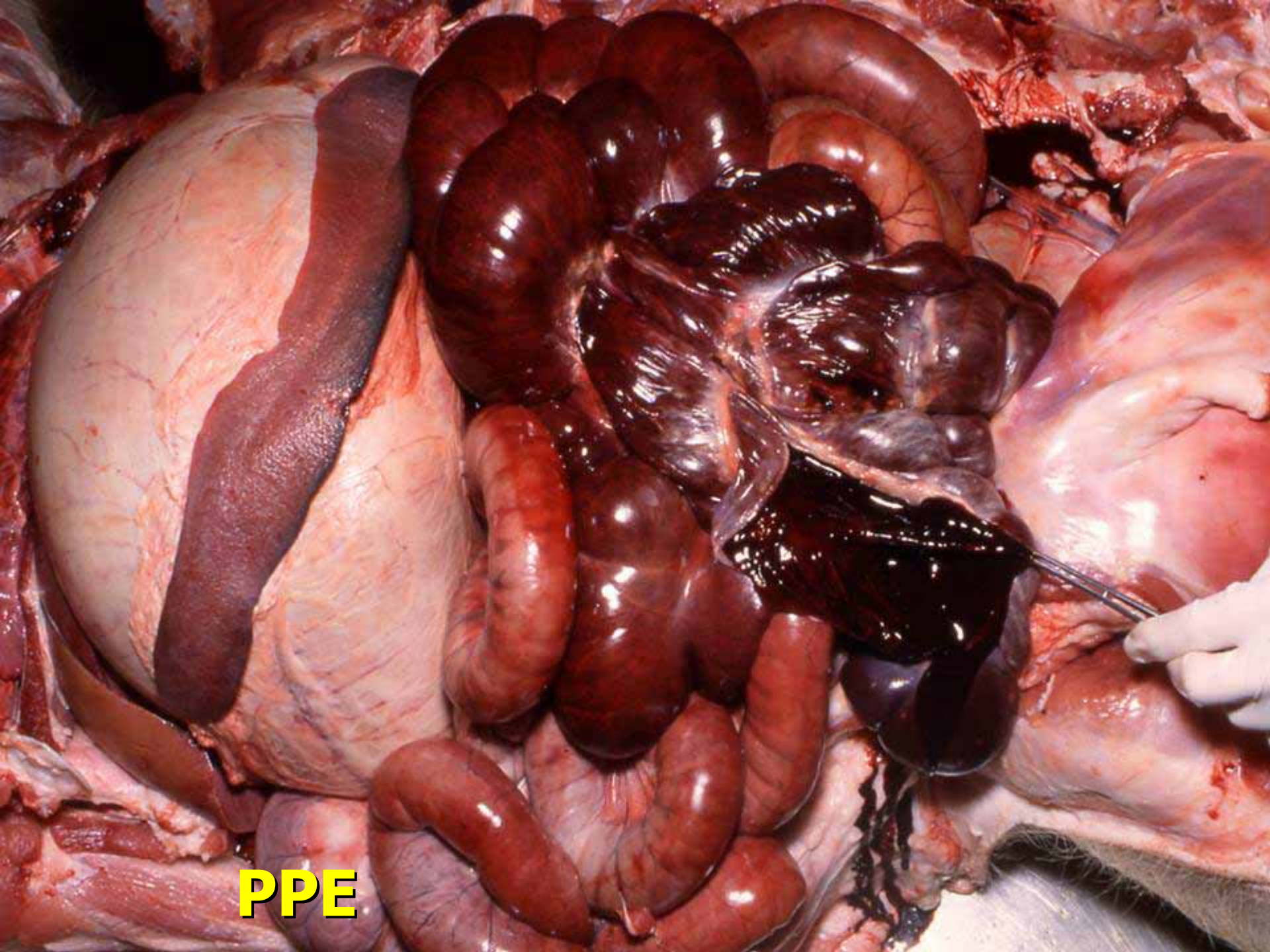
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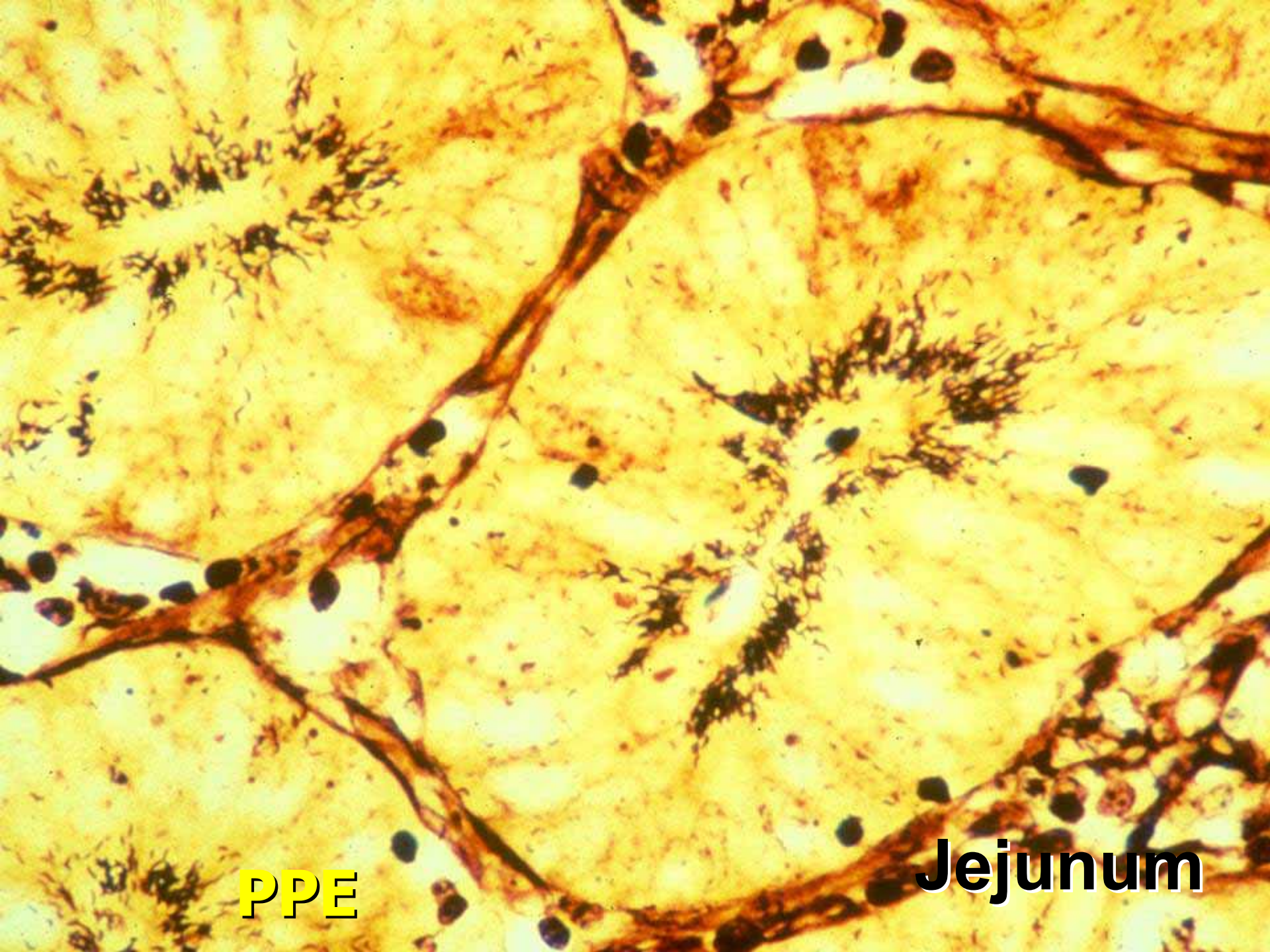
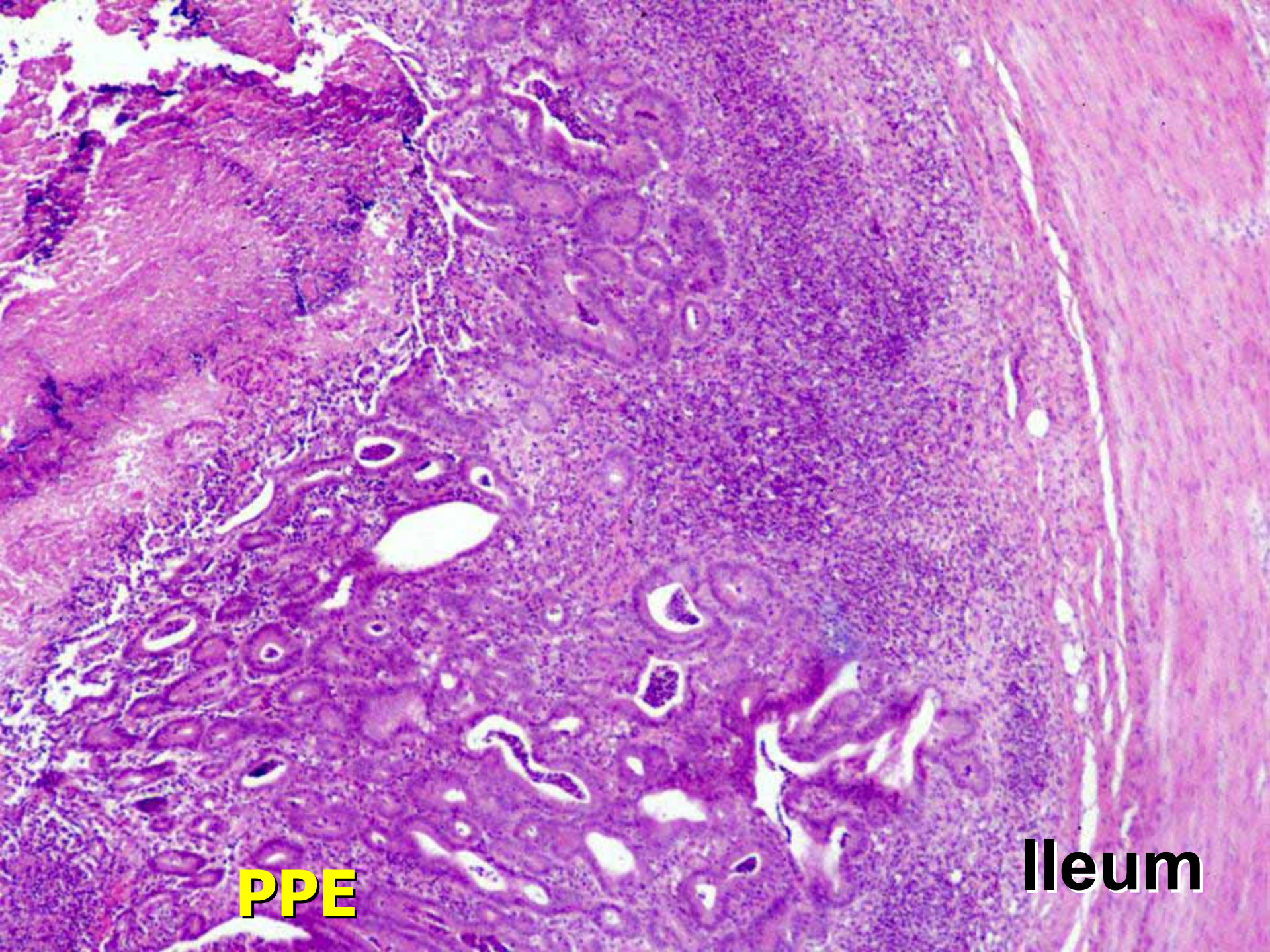
Jejunum


PPE
Jejunum


PPE
Cecum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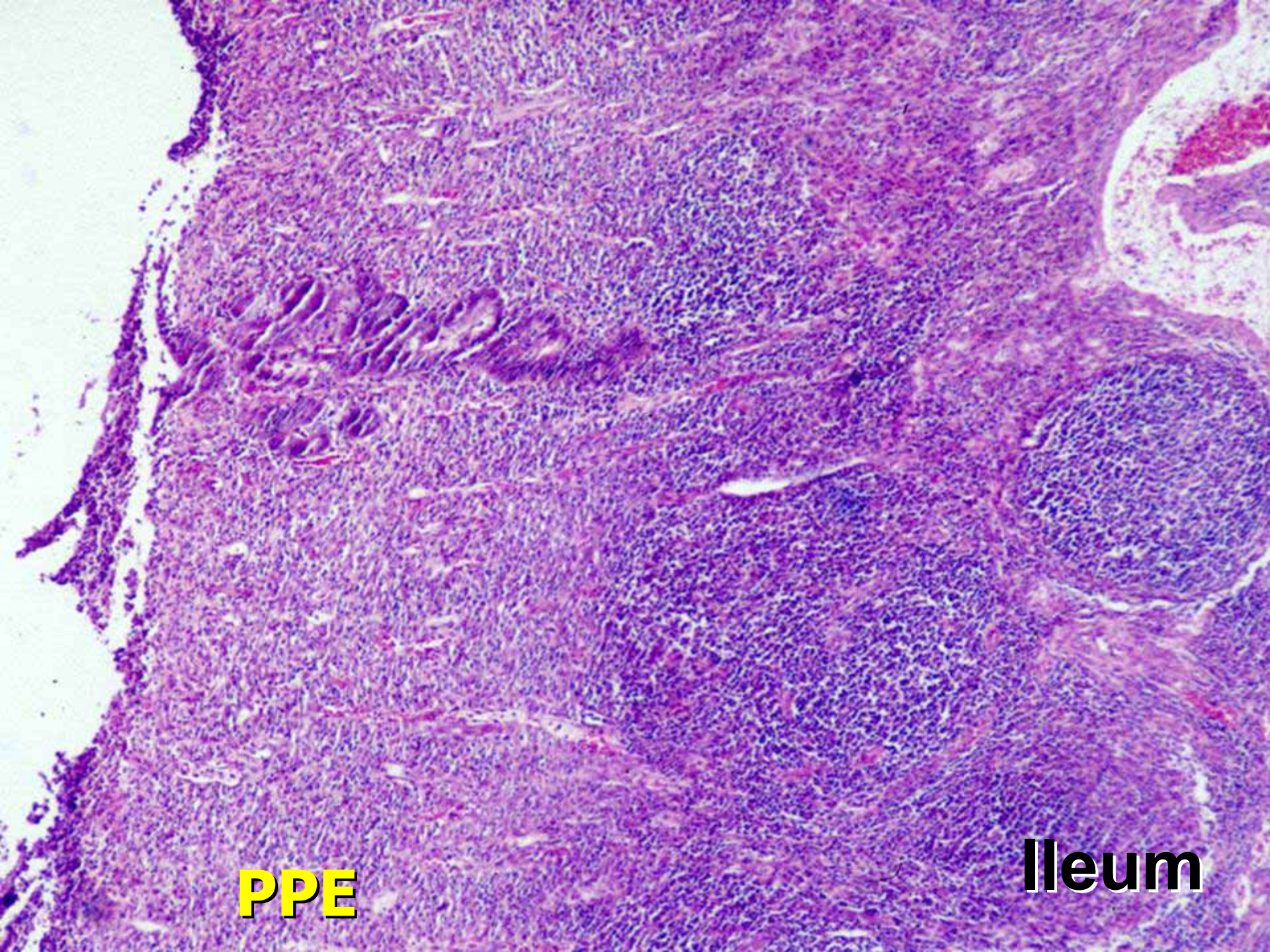
Ileum


PPE
Ileum

"I'm changing the mission. Instead of guarding the house, we're going after the cat."

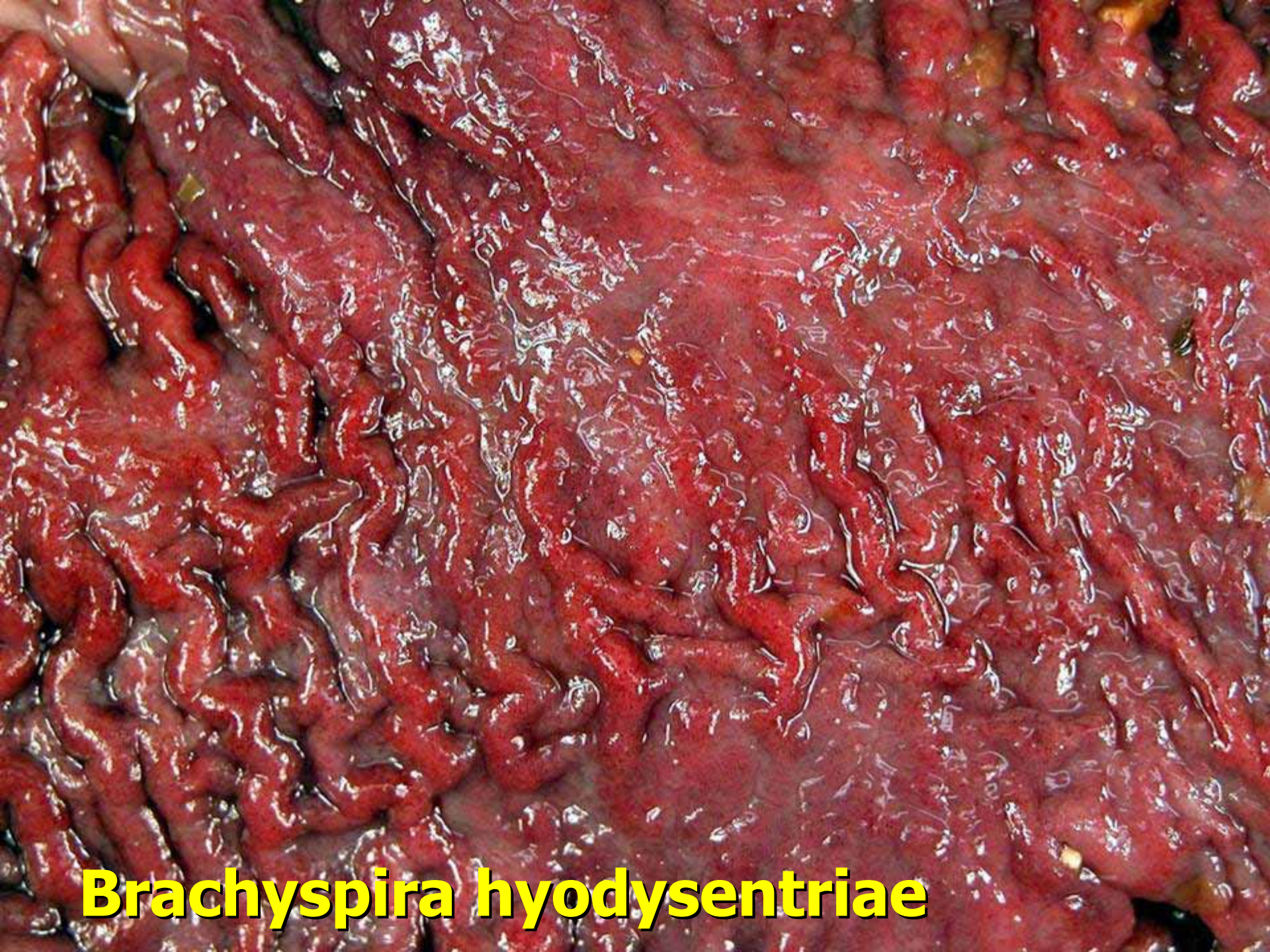
Brachyspira sp. in Swine

Organism	ß Hem.	# A.F.	Disease
B. hyodysenteriae	S	7-14	Swine Dysentery
B. intermedia	W	7-14	Nonpathogenic
B. innocens	W	7-14	Nonpathogenic
B. murdochii	W	7-14	Nonpathogenic
B. pilosicoli	W	4-6	Intestinal Spirochetosis

Brachyspira hyodysenteriae

- morphologically identical to Treponema pallidum (syphillus)
- “Swine Dysentery” is a well-defined clinical disease with well-defined lesions
- seroprevalence is greater than rate of disease
- can be in a herd without clinical disease
- mild disease can resemble spirochetosis
  - clinical signs
  - gross lesions
  - microscopic lesions

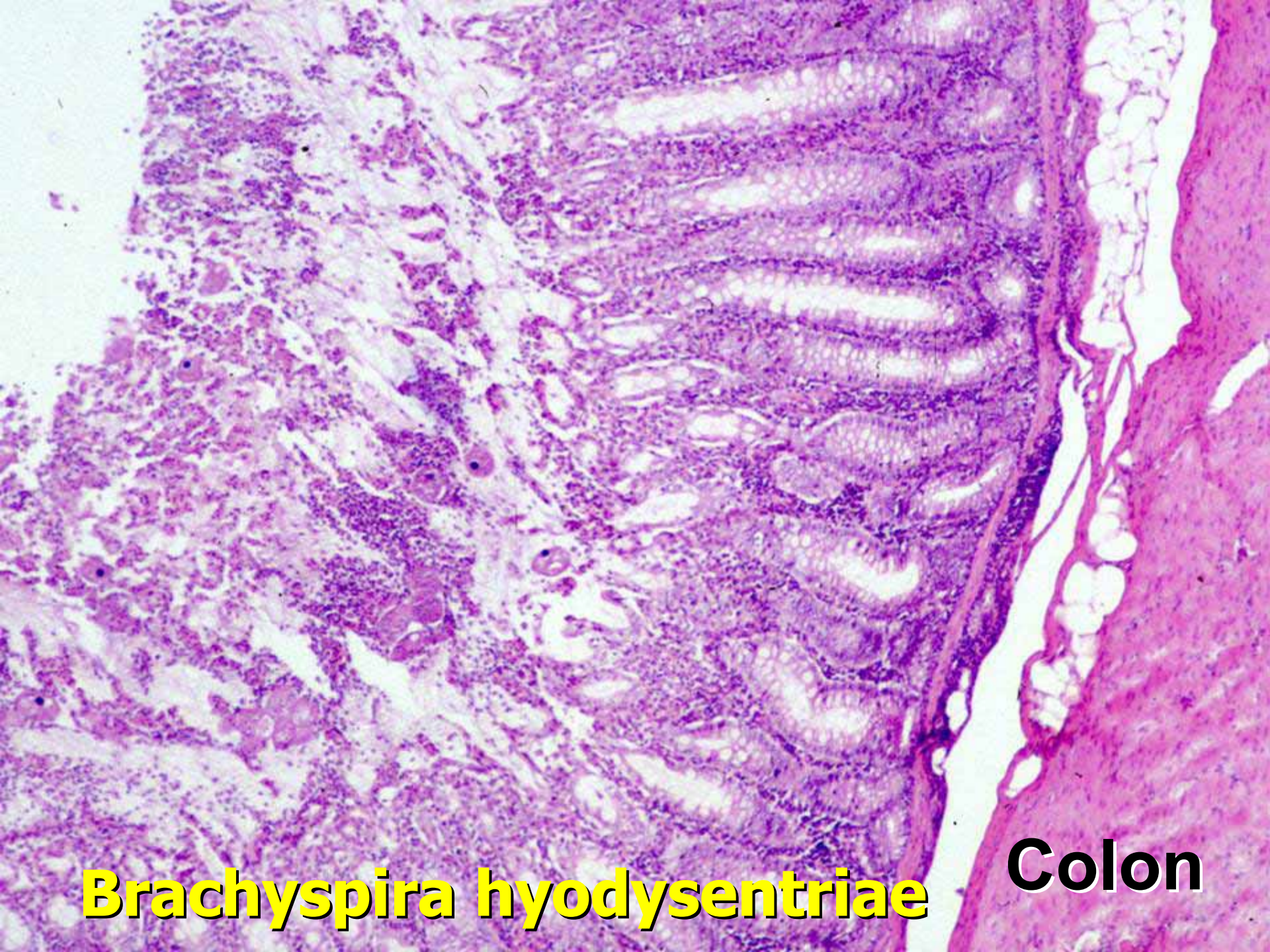

Brachyspira hyodysentriae

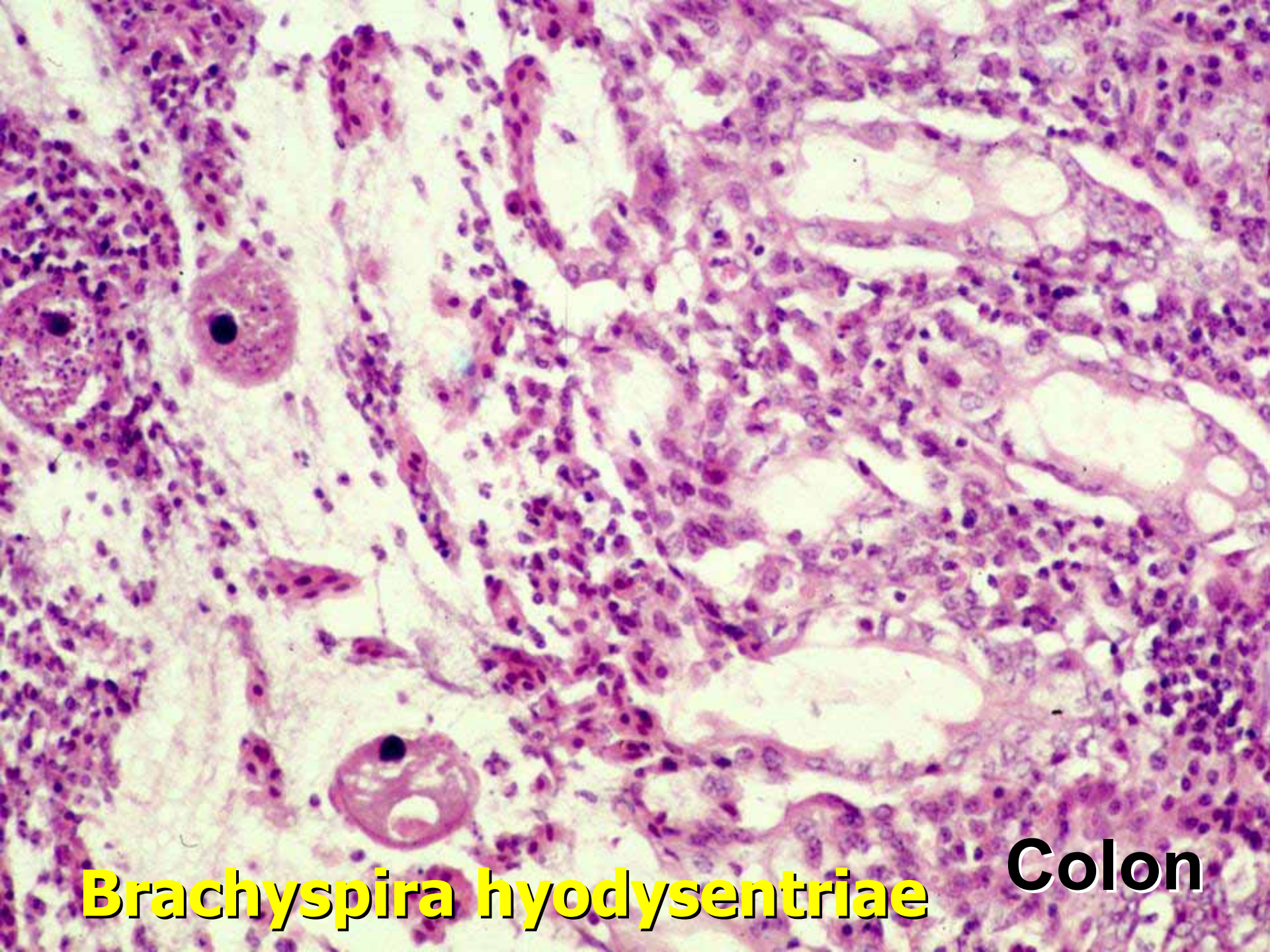

Brachyspira hyodysentriae


Brachyspira hyodysentriae


Brachyspira hyodysentriae


Brachyspira hyodysentriae


Brachyspira hyodysentriae
Colon


Brachyspira hyodysentriae
Colon


Brachyspira hyodysentriae
Colon

Colonic Spirochetosis

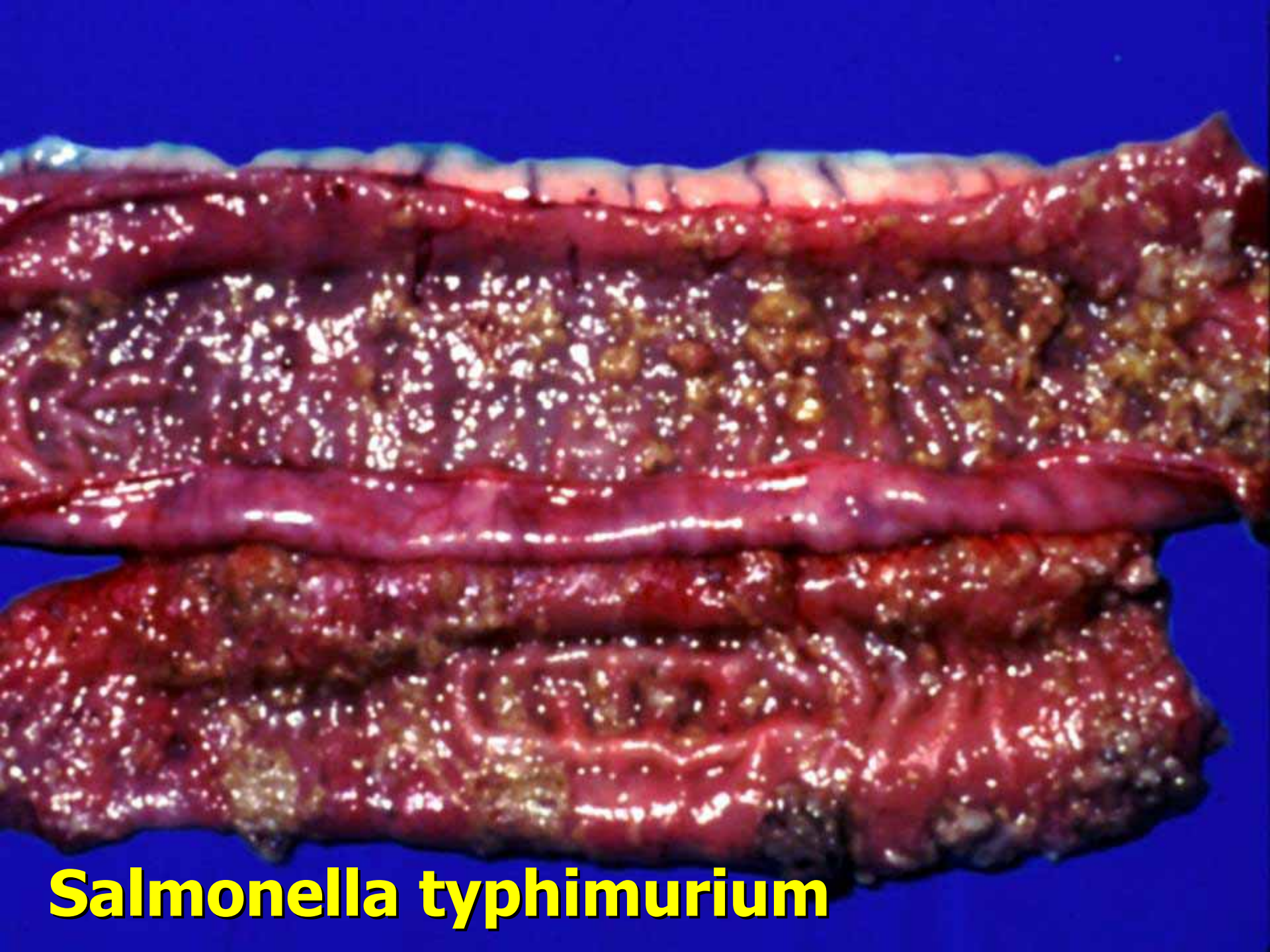
- weaned to adult pigs
- affects humans (potentially zoonotic), non-human primates, pigs, dogs, guinea pigs, opossums, wild and domesticated fowl
- *Serpulina pilosicoli (Anguillina coli)*
- genetically distinct from *S. hyodysenteriae* and *S. innocens*
- weak beta hemolysis, indole negative; hydrolyze hippurate
- 4-6 axial fibrils (vs. 7-14)
- mild fibrinous colitis
- colonize surface of mature colonic epithelium
  - heavy perpendicular growth "brush border"


Brachyspira pilosicoli


Brachyspira pilosicoli

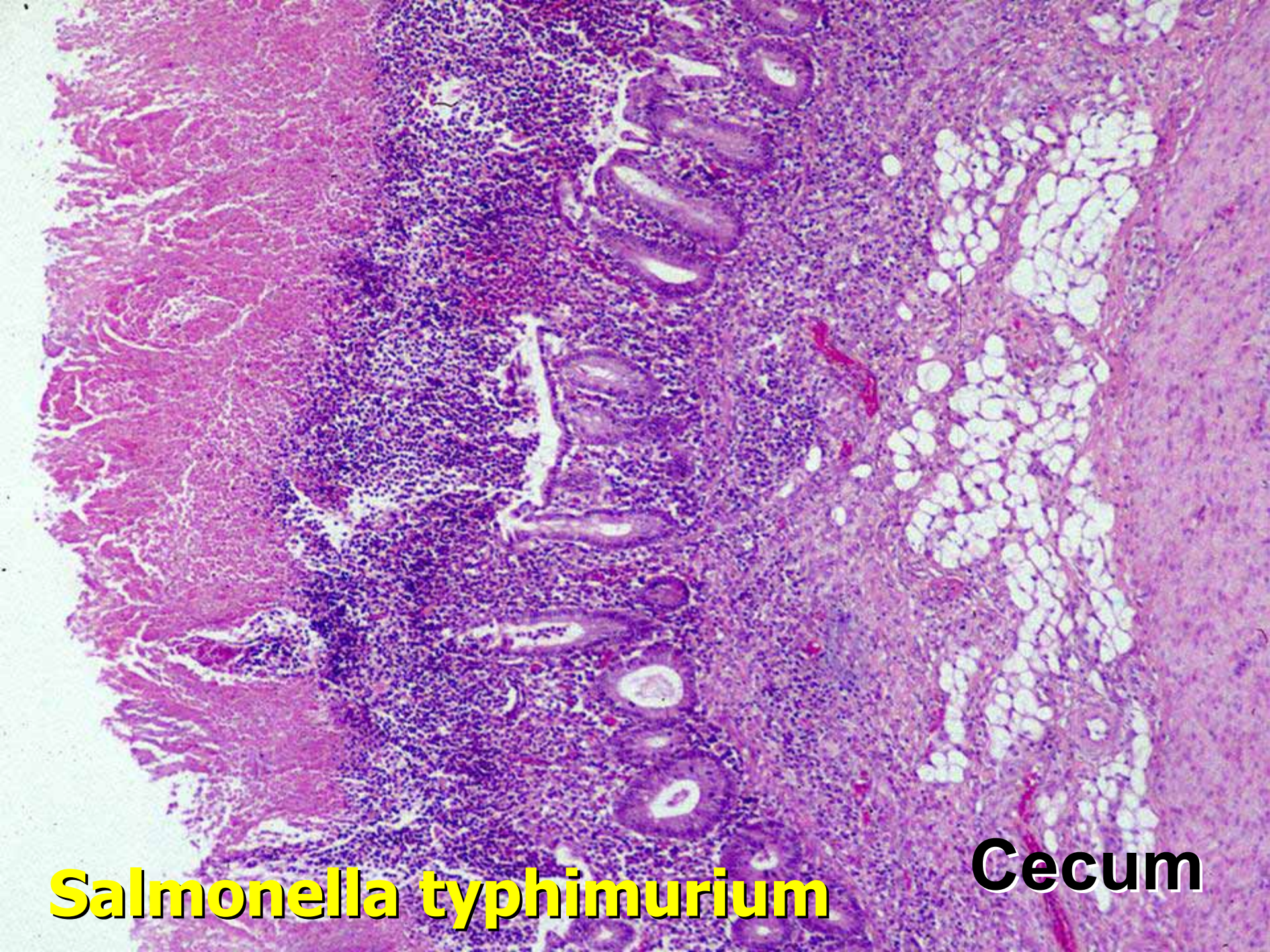

Colitis cystica

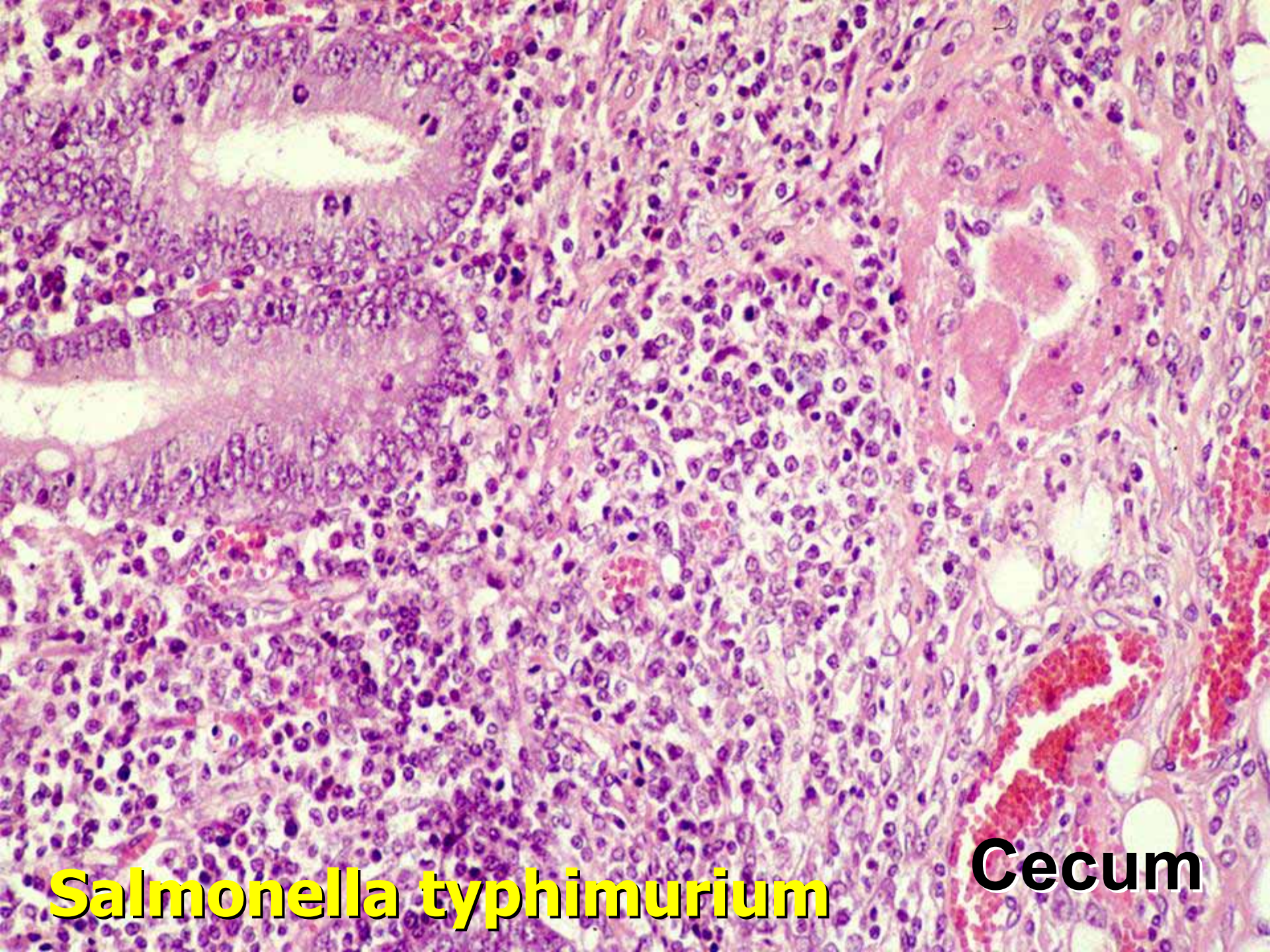

Salmonella
DAIRY MILK
Cadbury


Salmonella typhimurium

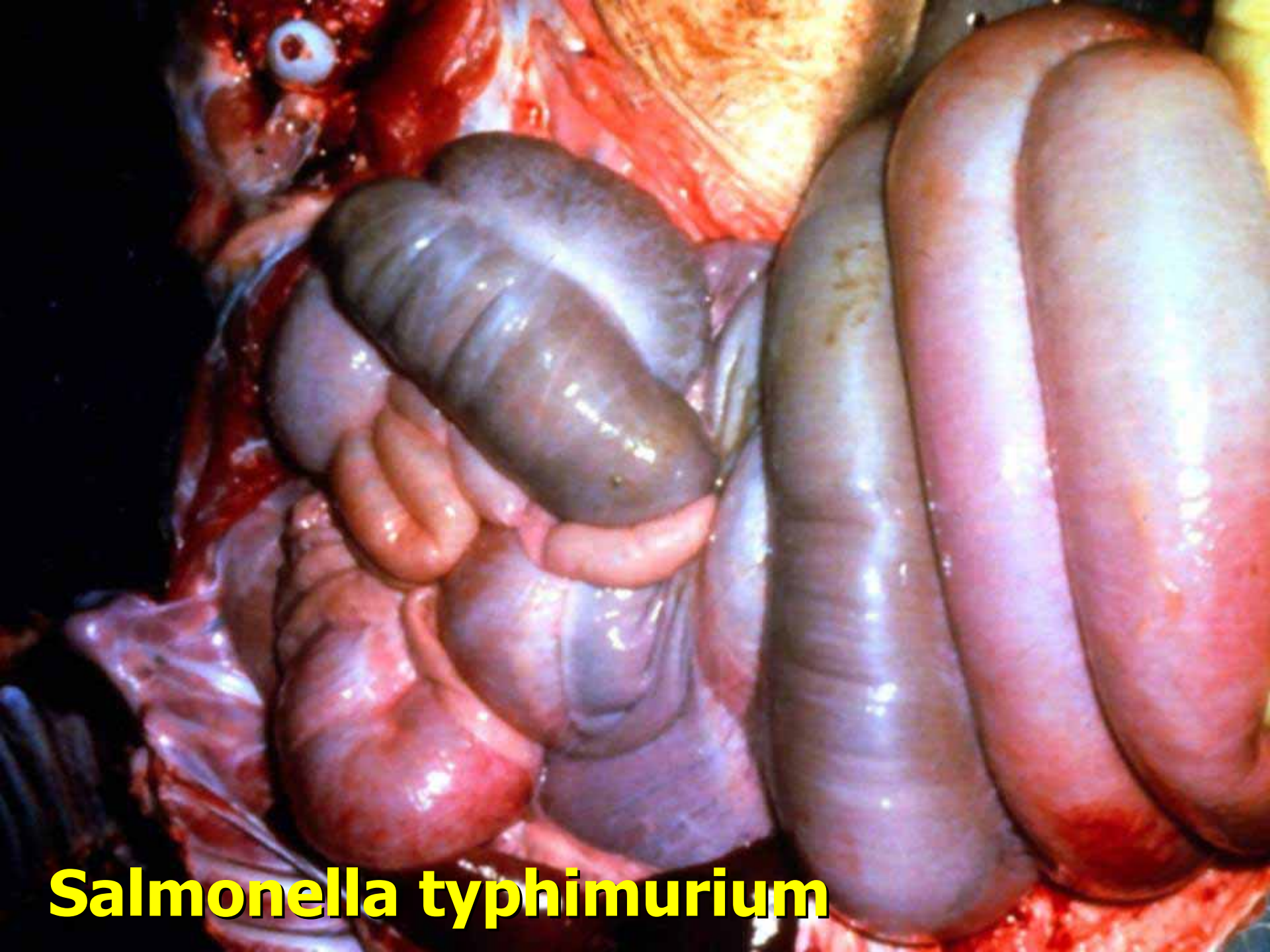

Salmonella typhimurium

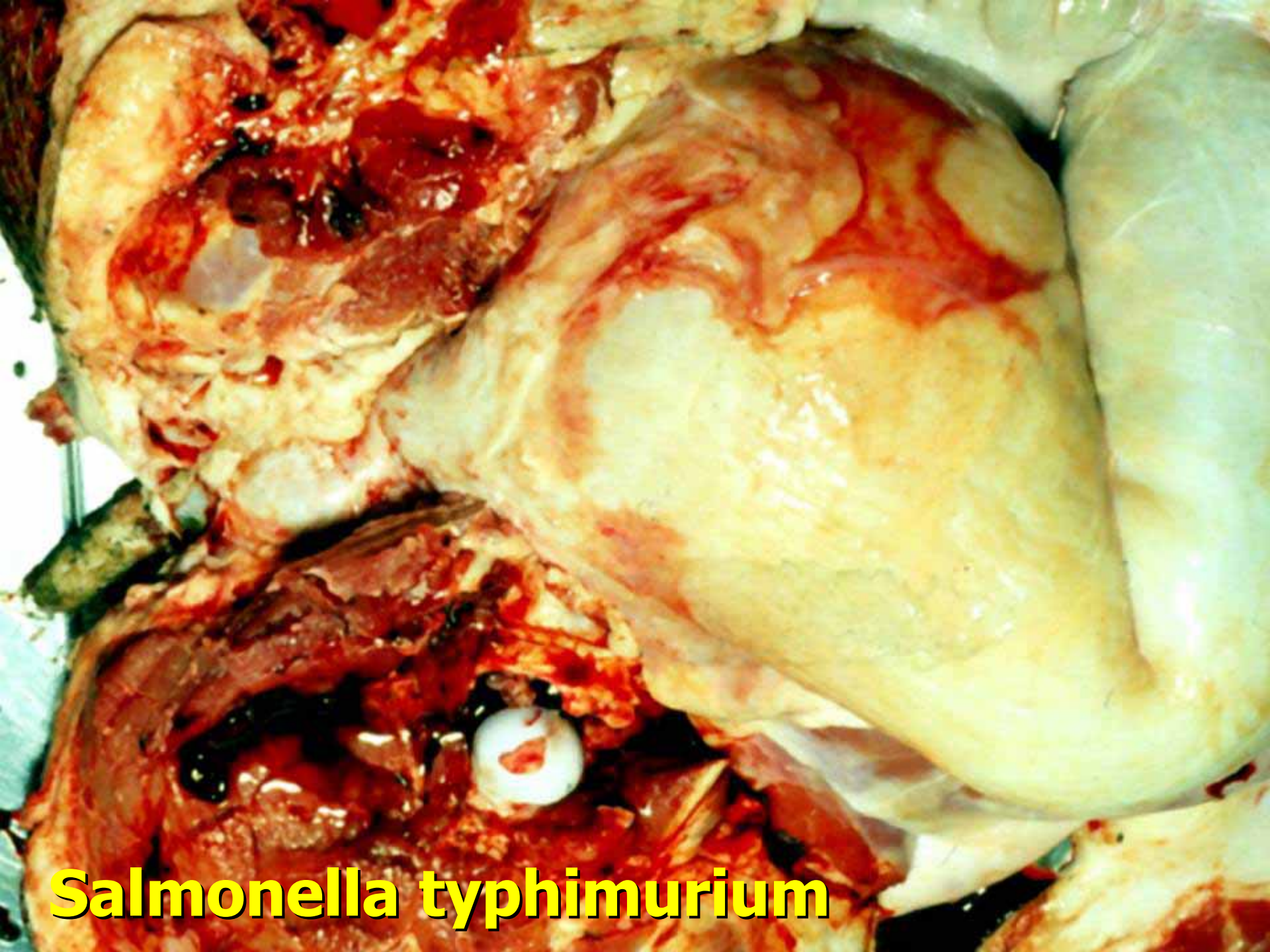

Salmonella typhimurium


Salmonella typhimurium
Cecum


Salmonella typhimurium
Cecum


Salmonella typhimurium


Salmonella typhimurium


Salmonella typhimurium


Salmonella typhimurium


Prolaps


Salmonella typhisuis


Trichuris suis

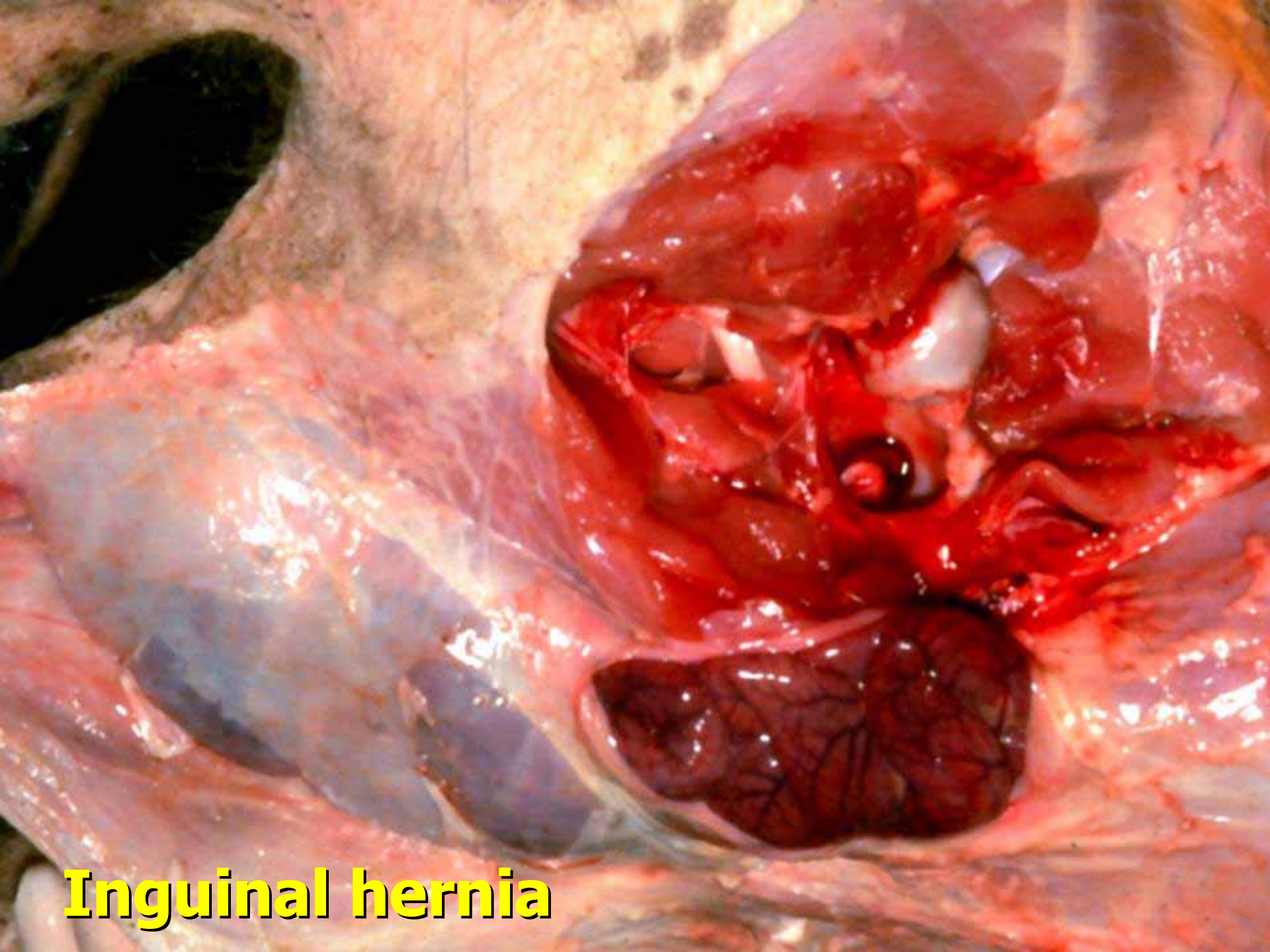

Trichuris suis

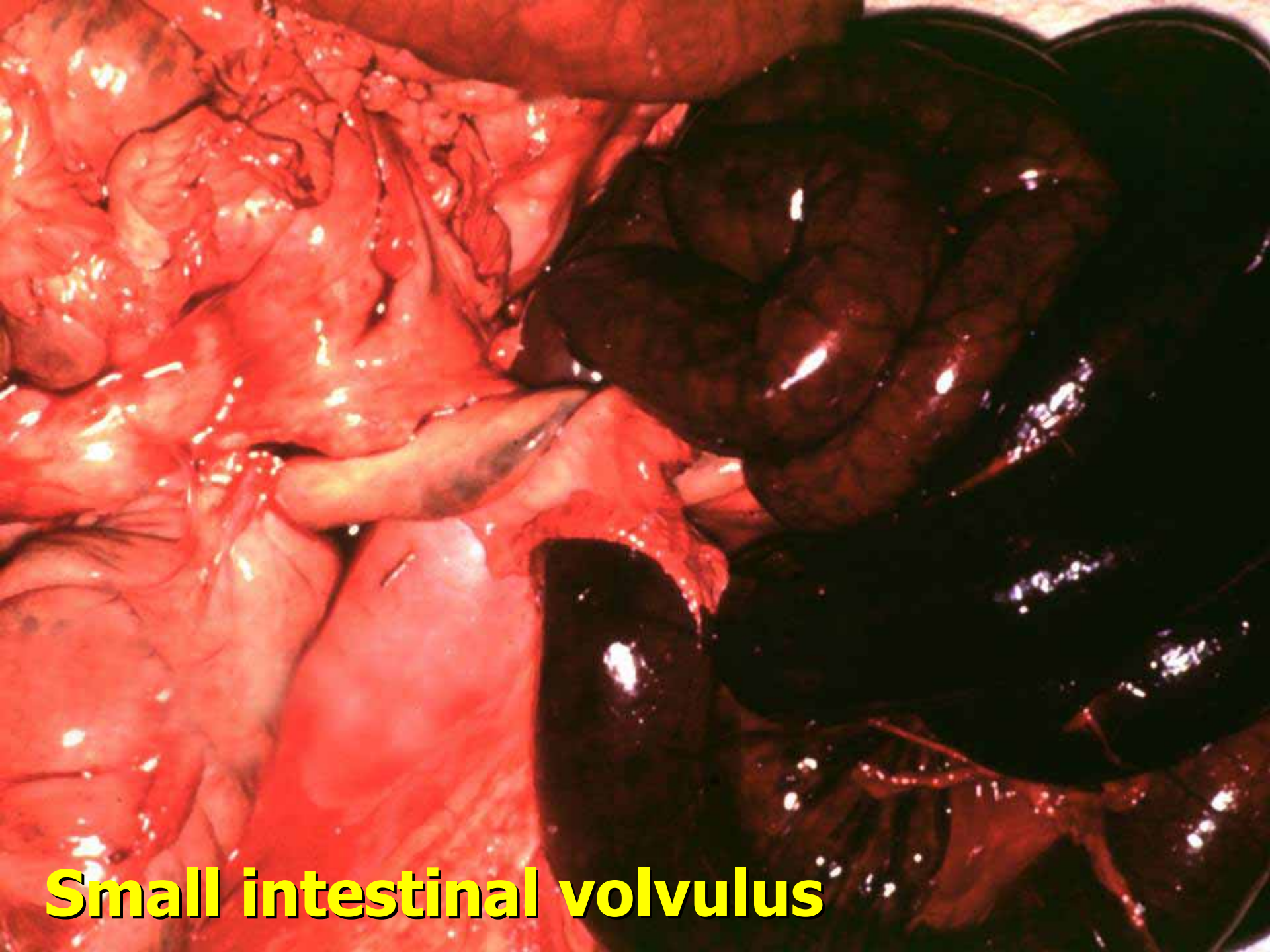

Trichuris suis
Colon

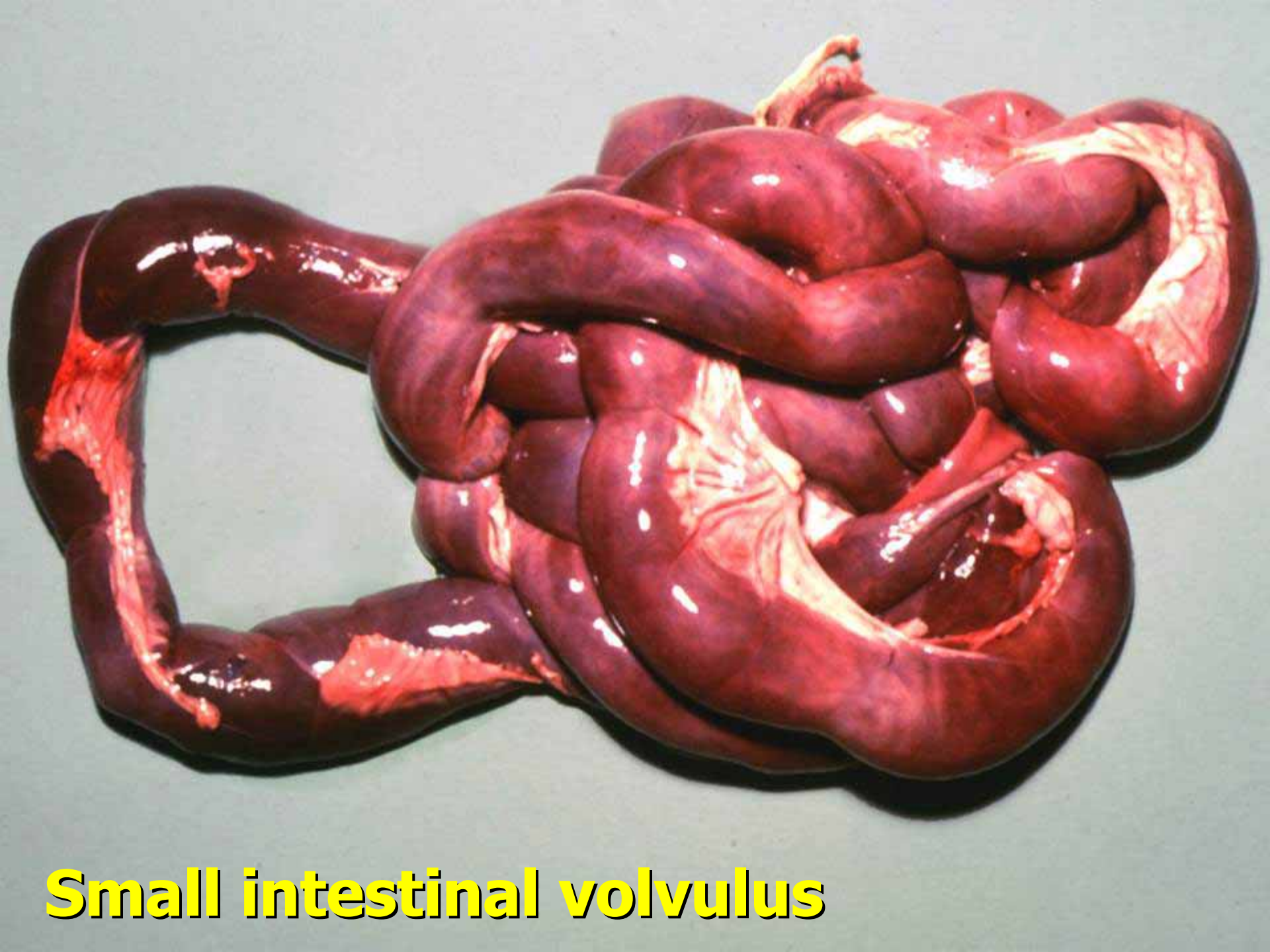

Trichuris suis
Colon


Warfarin


Warfarin

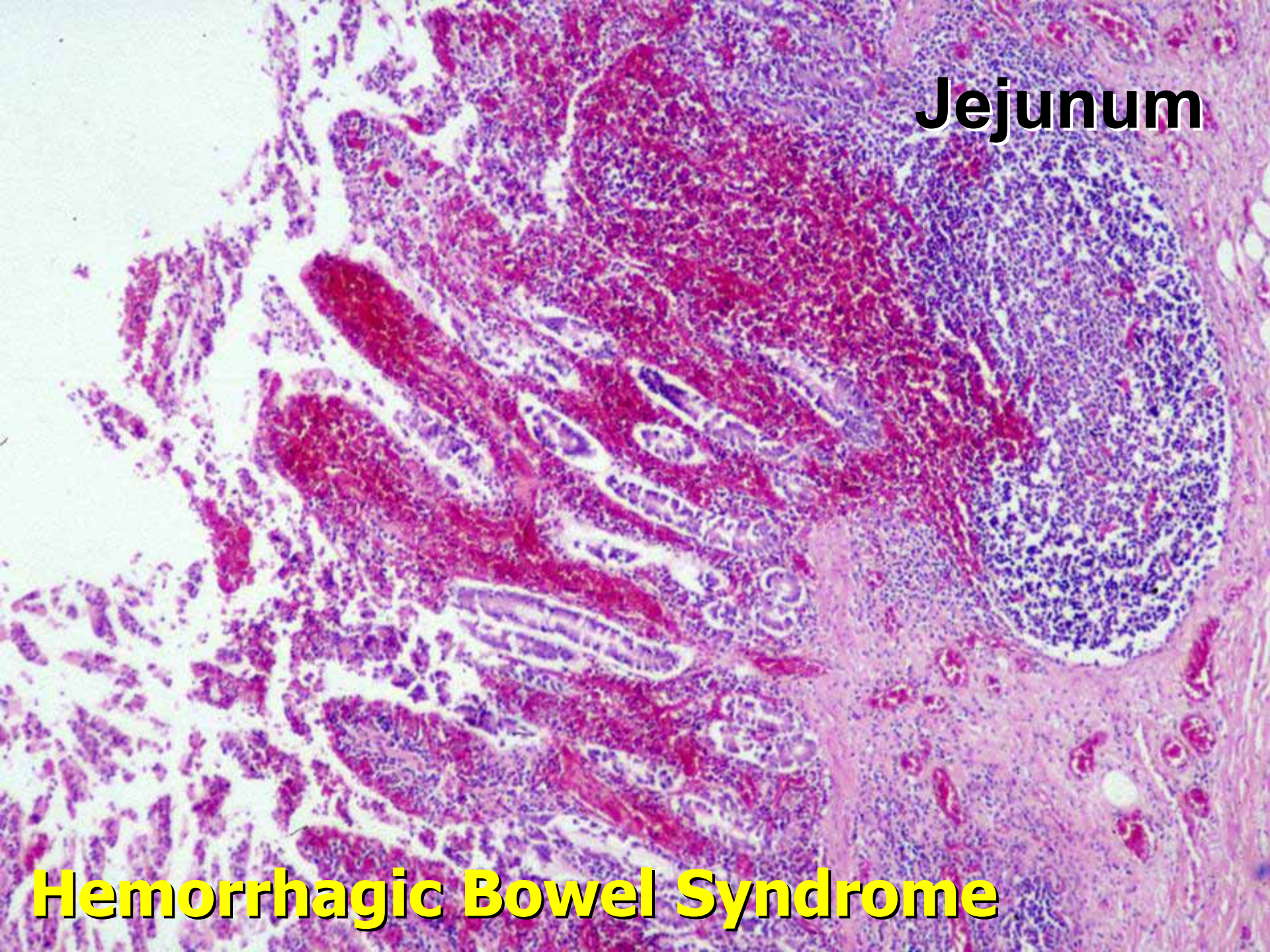

Inguinal hernia

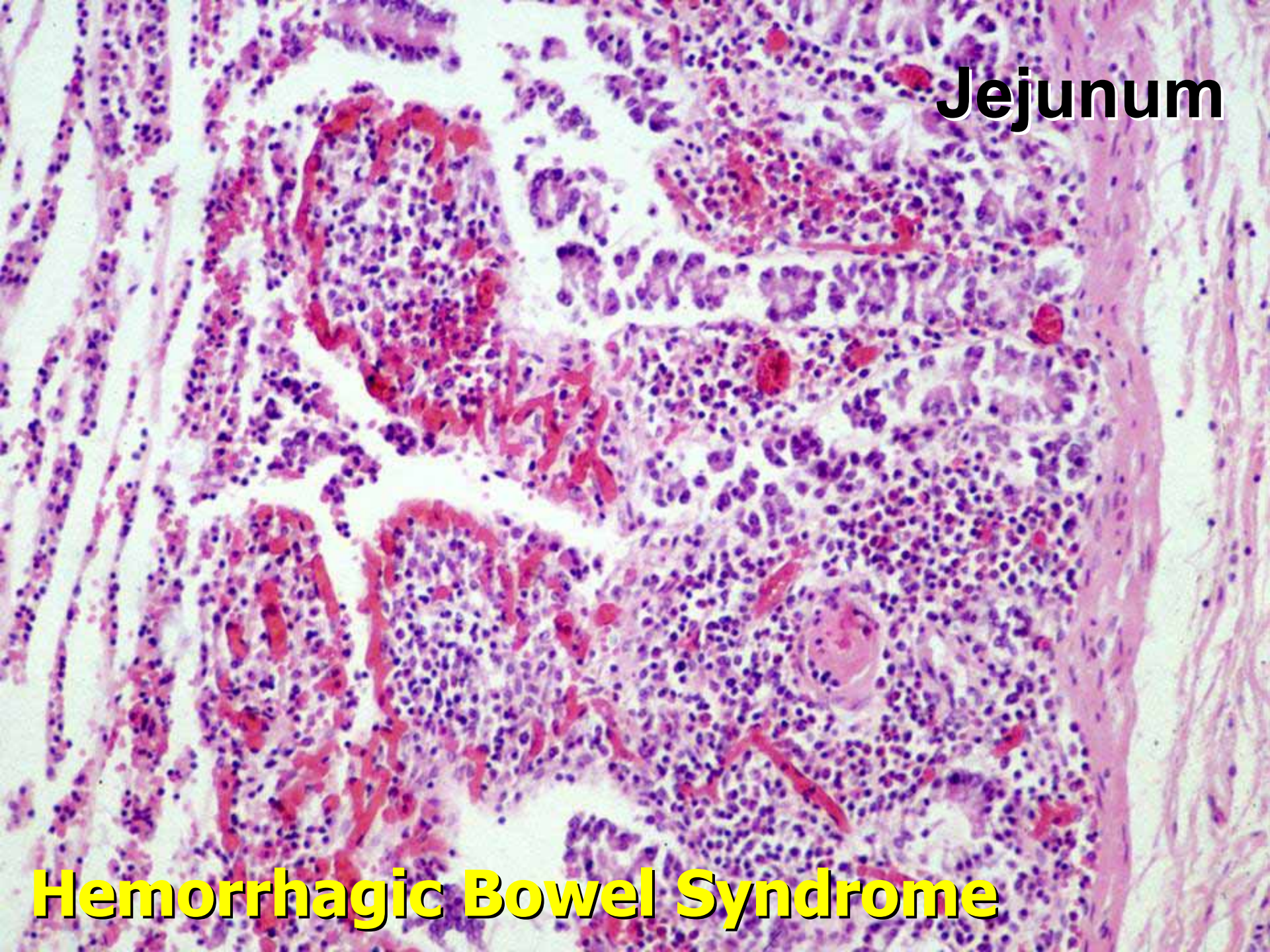

Small intestinal volvulus

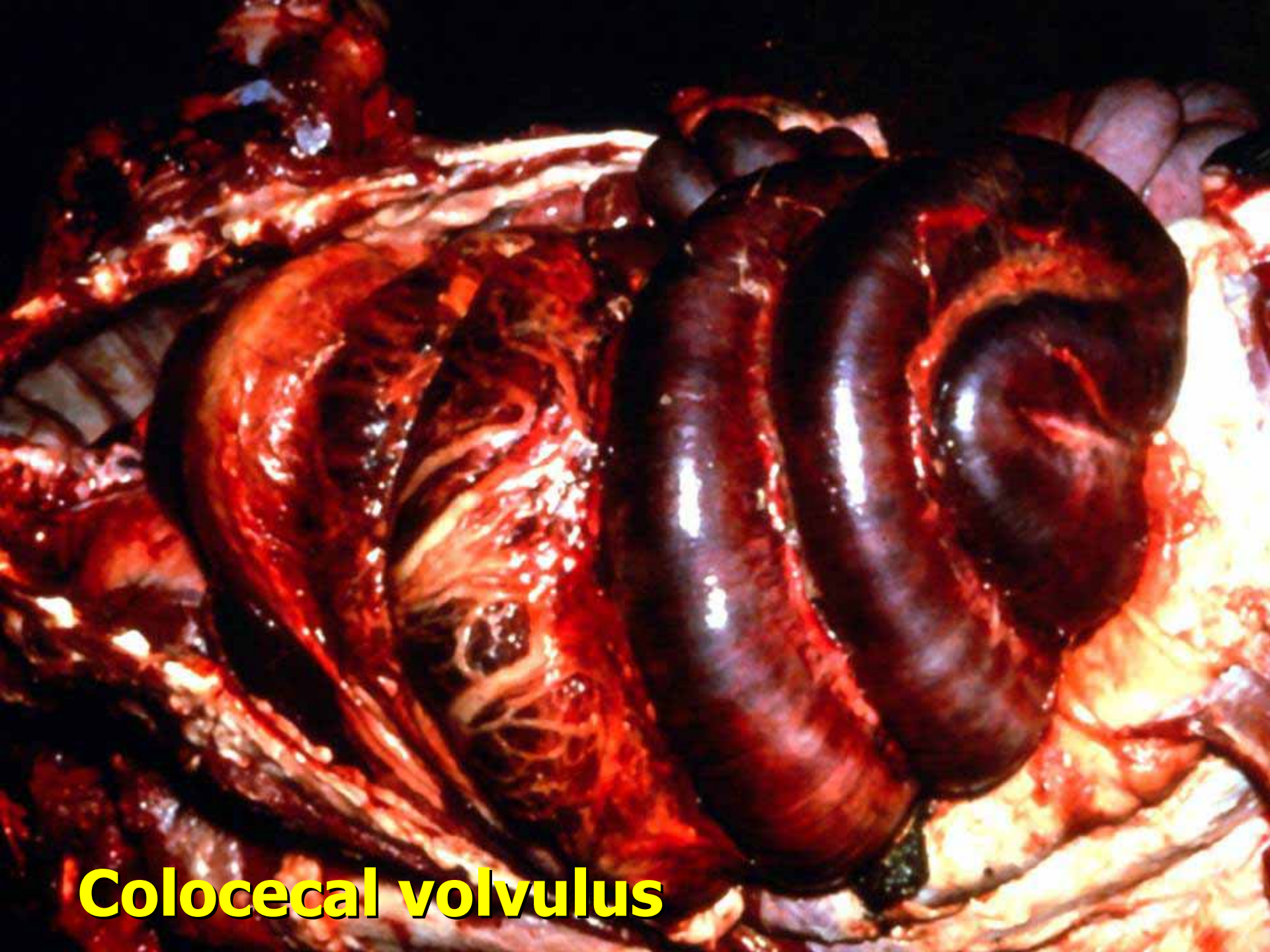

Small intestinal volvulus


Small intestinal volvulus
Jejunum

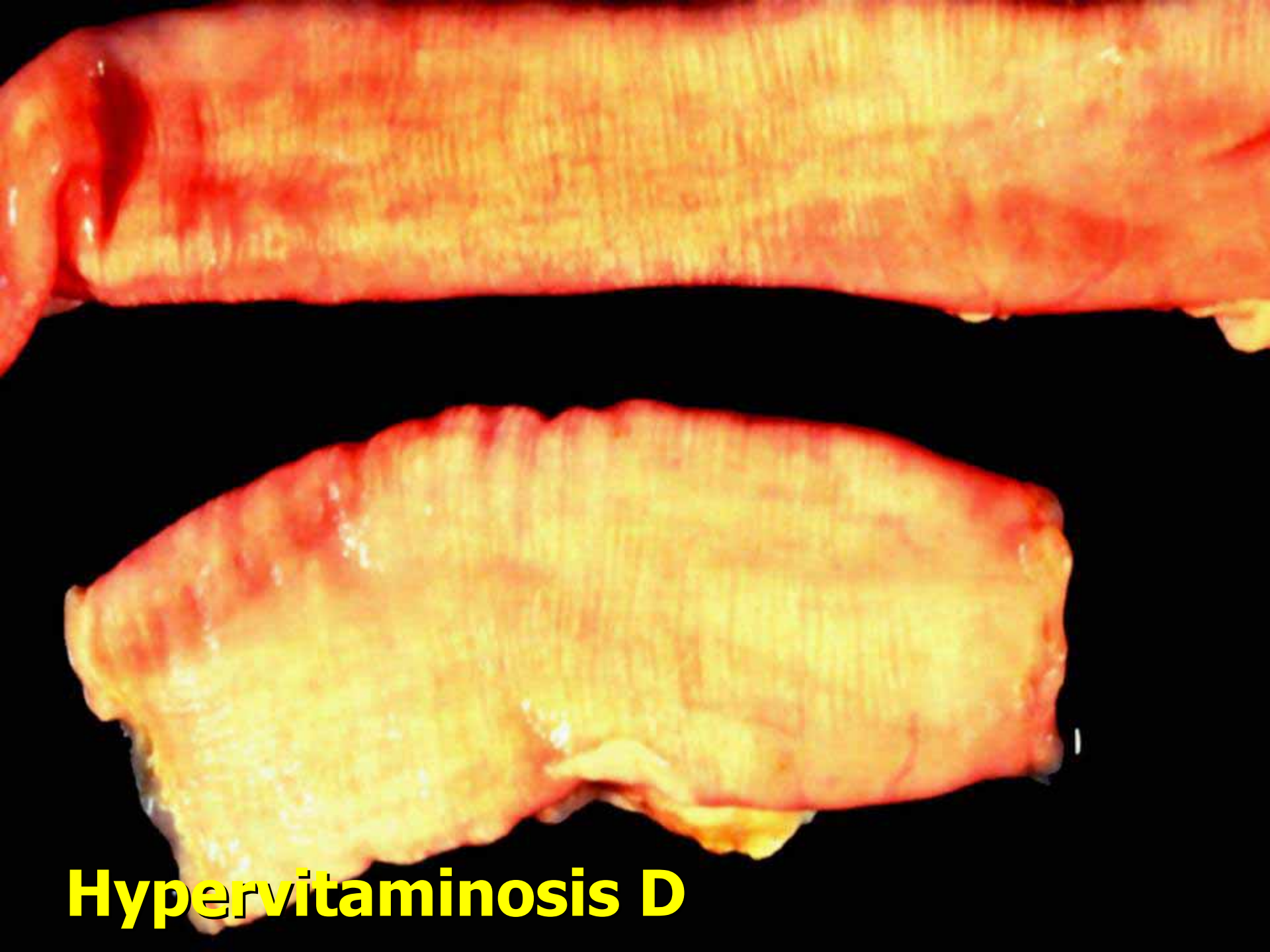

Hemorrhagic Bowel Syndrome


Jejunum
Hemorrhagic Bowel Syndrome


Jejunum
Hemorrhagic Bowel Syndrome


Colocecal volvulus


Melena – gastric ulcer


Hypervitaminosis D


Mycobacterium avium

Mycobacterium avium