

Intestine Collection Instructions for Histopathology

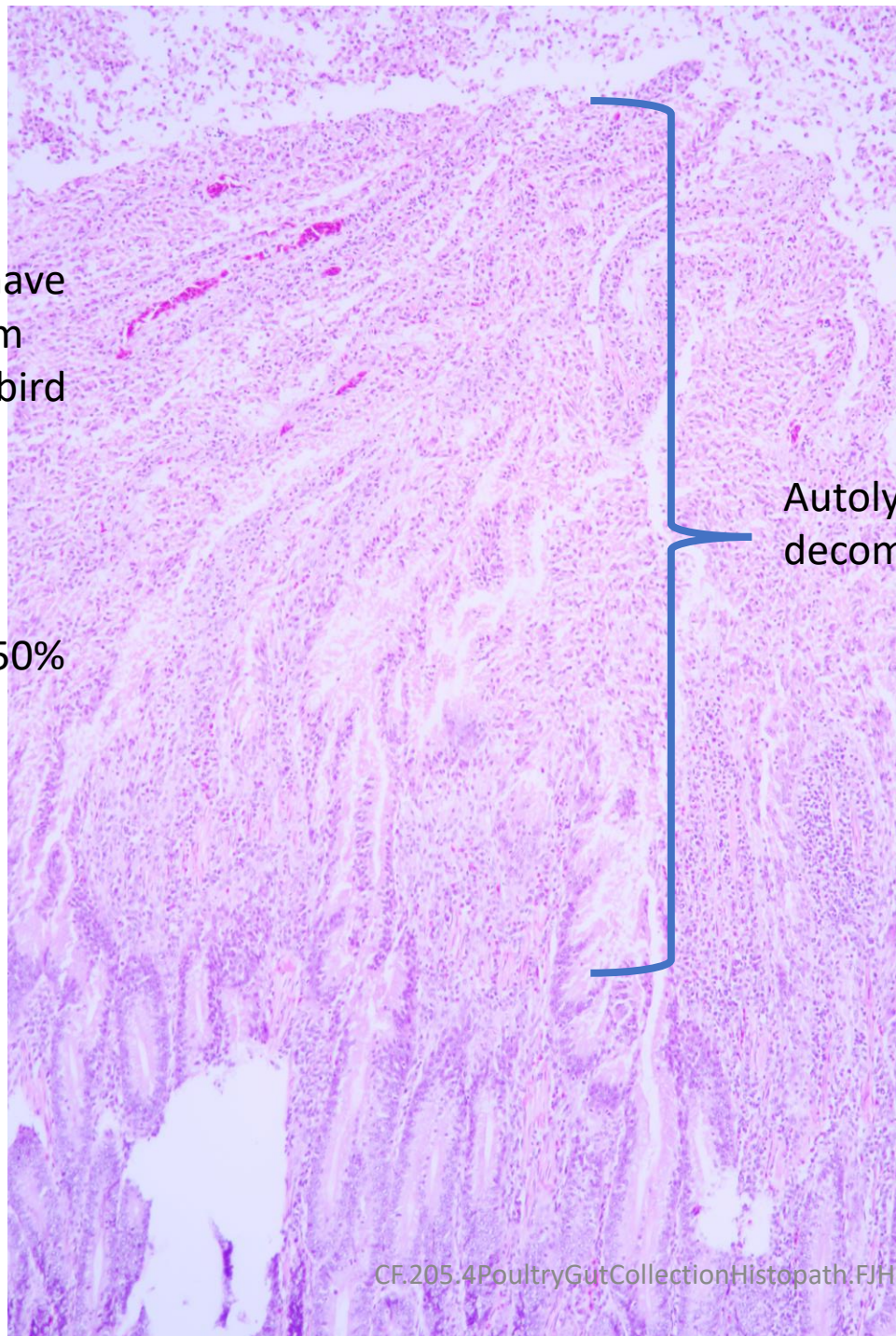
Dr. Fred Hoerr



Follow this method for chickens and turkeys!

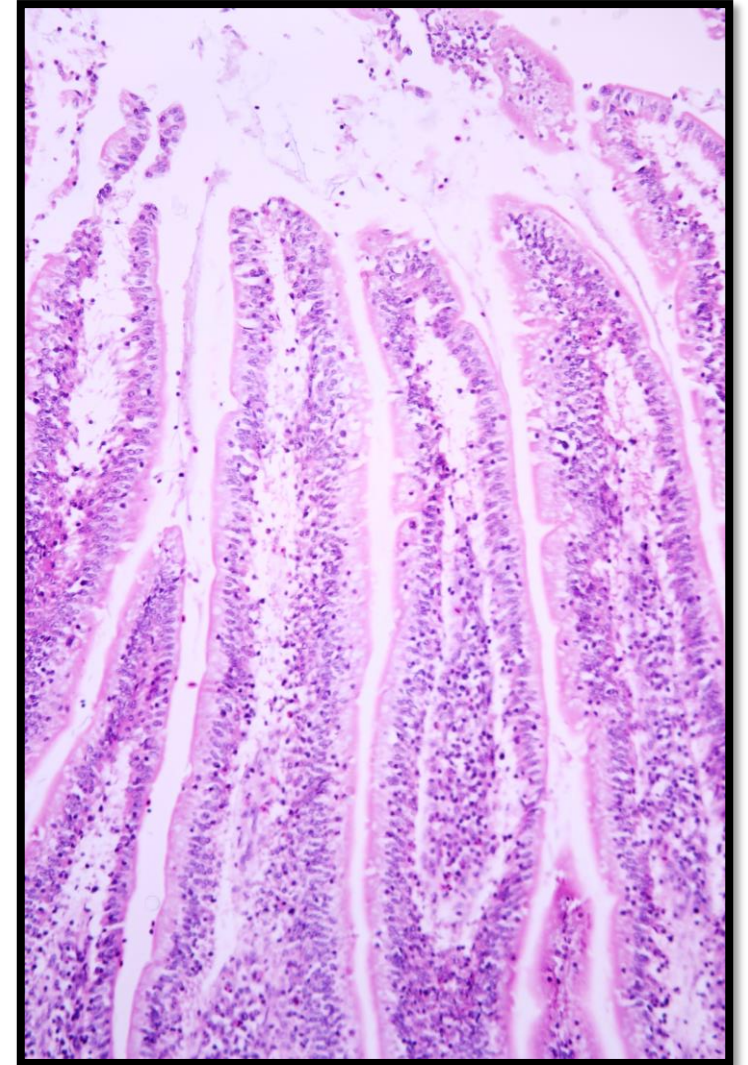
- Euthanize selected birds just before necropsy.
 - Collect gut for histopathology within 5 minutes of euthanasia, and before scraping for coccidia, lesion scoring, etc.
 - Data is lost every minute that the gut is not in formalin.
 - Gut from birds deceased for 20 minutes is not suitable for lesion scoring.
- Short gut sections are **CLOSED - NOT OPENED**
 - If the gut must be split opened for scrapings, do it at another location
- **DO NOT SQUEEZE OR SCRAPE** the portion of gut for histopathology
- Tissue from 3 to 5 birds can go in one container of formalin
 - When flock collection is complete, close the container and gently shake it to dislodge the gut content and allow the formalin to flow into the gut.

Duodenum. The villi have autolysis (post mortem decomposition). This bird was euthanized in advance of necropsy. During this time (minutes), the villi decomposed and 40-50% of the diagnostic information was lost.



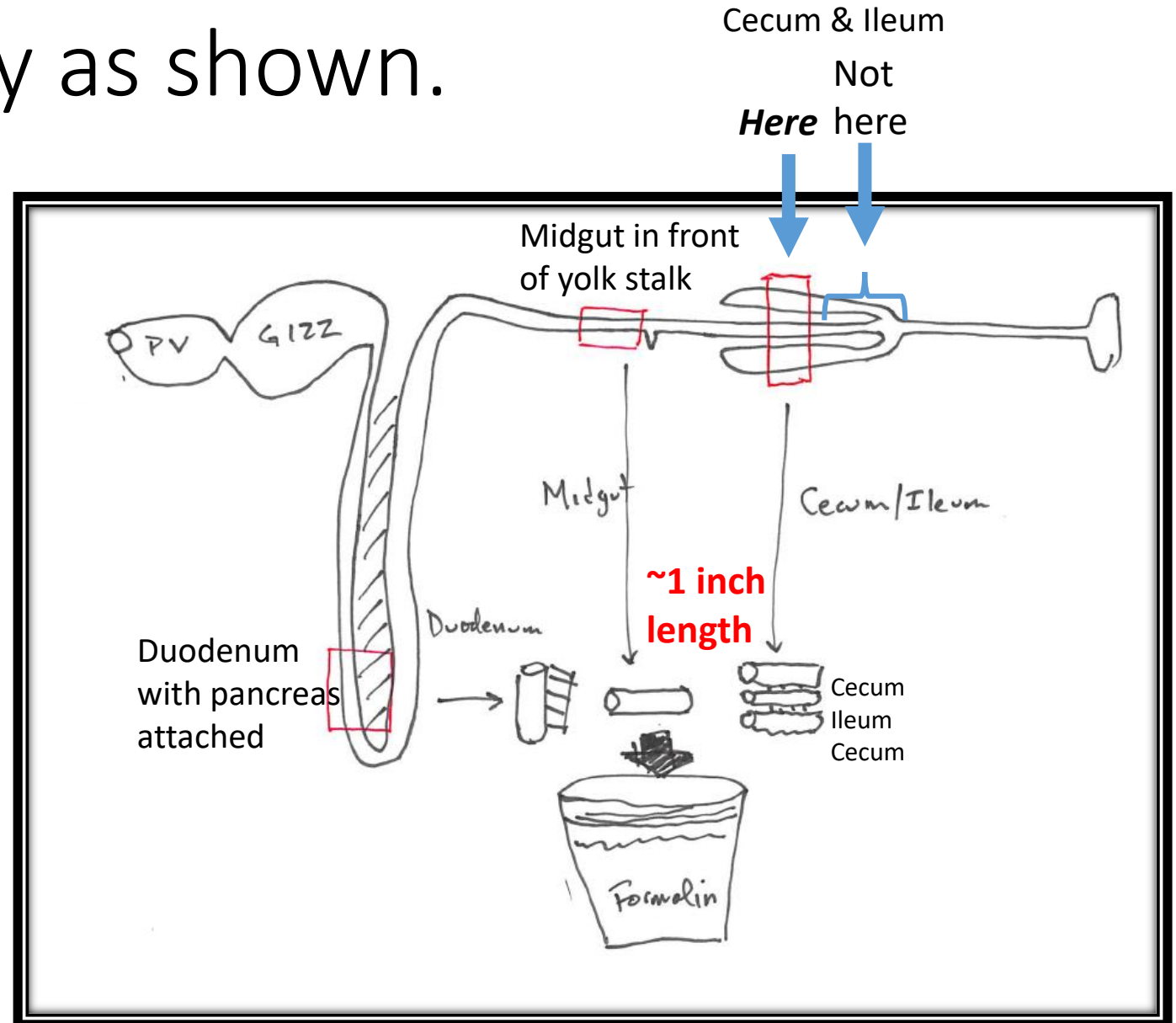
Autolysis -
decomposition

Villi with proper collection and fixation.



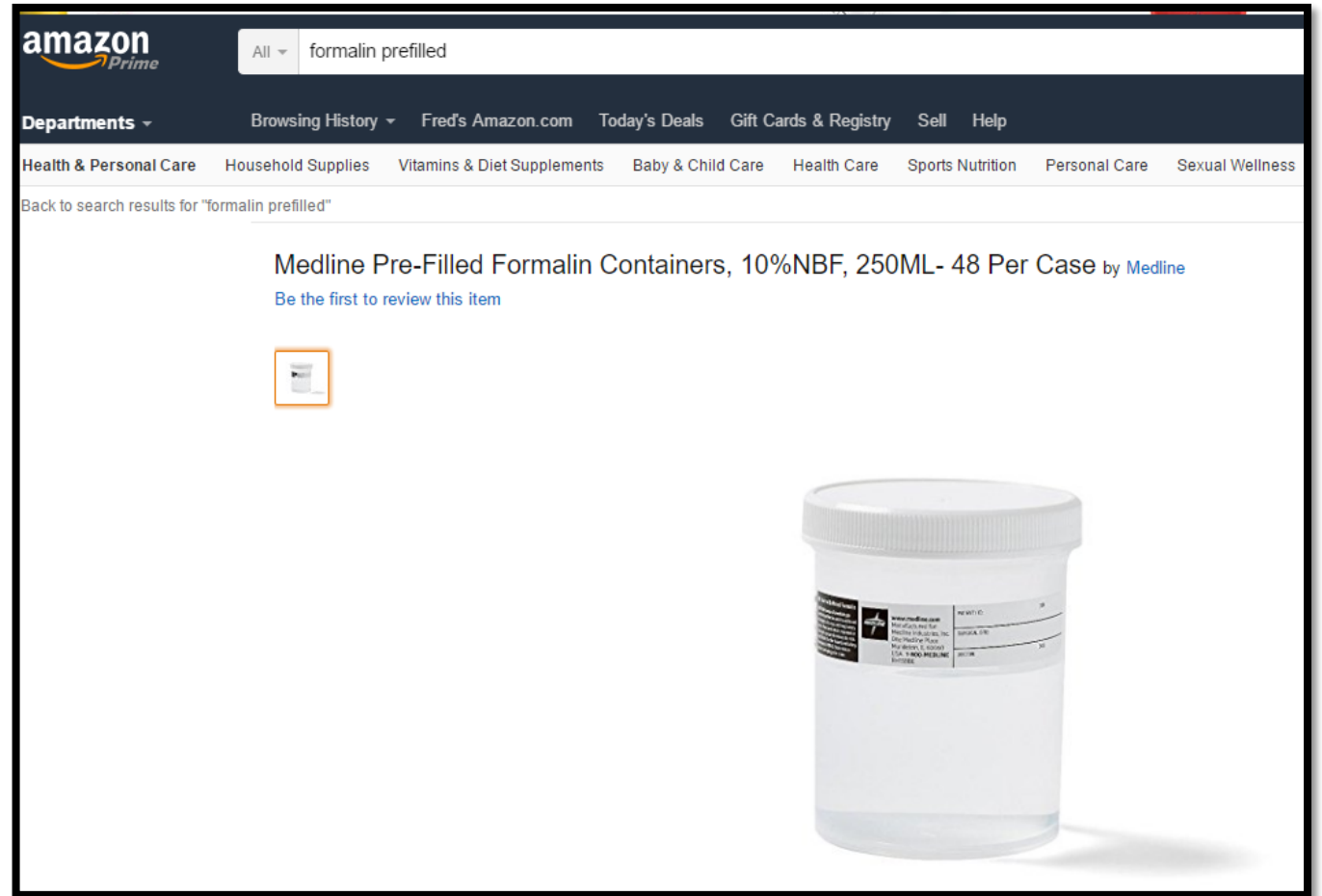
Collect gut exactly as shown.

- Short pieces, 1-inch maximum length
- Collect at the same location on every bird
- 3 to 5 birds per age group or flock
- All tissues from one group can go in one container



Formalin containers are available from Amazon or scientific supply companies

- Use 180 to 250 ml containers (with 90 to 125 ml formalin)
- Gut from 3-5 birds can go in one container if collected in 1-inch segments.
- Use 250 ml for larger turkeys and broilers
- Close tightly before shipping.
- **Optional:** pour off some formalin before shipping, *but leave enough to keep the tissue wet.*



Complete submission form and enclose in the box samples

- Go to: www.vetdx.com
- Forms
 - Histopathology Survey Form



Veterinary Diagnostic Pathology, LLC – Histopathology Survey Submission Form

Submit to: Dr. Frederic J. Hoerr Veterinary Diagnostic Pathology, LLC 638 South Fort Valley Road Fort Valley, VA 22652 USA • fred.hoerr@gmail.com • Office 540-933-6409 • USDA Import Permit and US Customs forms available at www.vetdx.com	From: Address 1 Address 2 Email: Phone: Report Instructions:
--	---

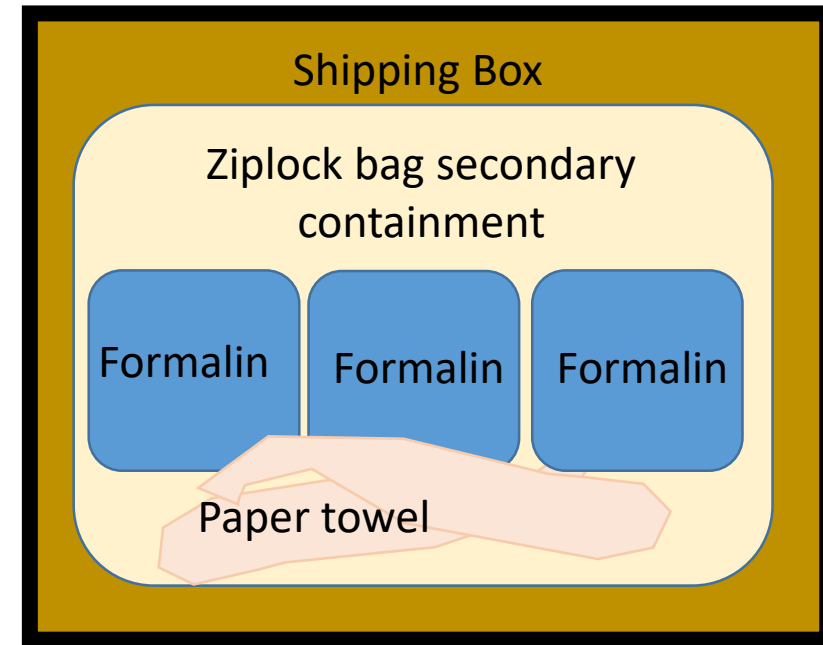
DIRECTIONS: Complete one line for each flock. If a flock or treatment group specimens are submitted in multiple containers, clearly label accordingly. Fix bursas/lymphoid tissues in neutral-buffered formalin; **do not freeze**. If shipping from outside the USA, fix tissue 3 days, remove the formalin so that samples are shipped wet/moist without excessive liquid formalin. Place leak-proof primary specimen container in leak-proof secondary container with adsorbent material (paper towel). Ship in rigid cardboard box.

Lab use only Case No	Submitter Reference No	Bird type Broiler/Layer	Age in Days	Company	Complex	Flock Identification

Packing and Shipping

Packing

1. Formalin containers firmly closed, with several paper towels to absorb any formalin spilled in shipment
2. Secondary container around formalin and paper towel --- Recommend 1 or 2 gallon Zip-Lock bags
3. 3rd level container is a cardboard shipping box



Ship To:

Dr. Fred Hoerr

638 South Fort Valley Rd

Fort Valley, VA 22652

fred.hoerr@gmail.com

334-750-7566