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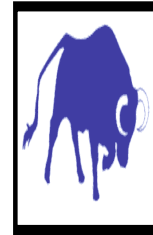
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DR MW ODENDAAL (BVSc, MMedVet(Bact), PhD)

Veterinary Bacteriology Specialist (S83/0034) And Poultry Consultant



***Letaba Veterinary Practice and
Consultancy***

VETERINARY & BIOLOGICAL CONSULTANTS

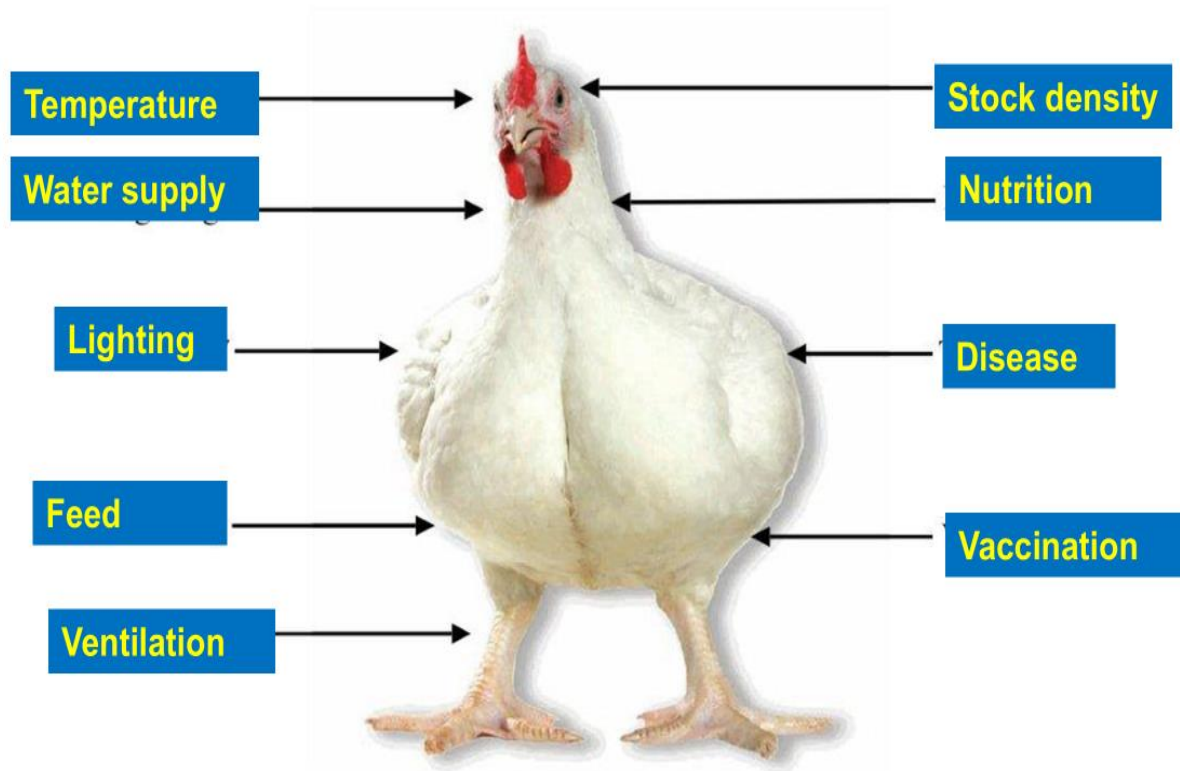
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MANAGEMENT AND BROILER DISEASES

MW ODENDAAL
ALPHA CHICKENS POULTRY DAY
17 MAY 25



INFLUENCES ON CHICKEN



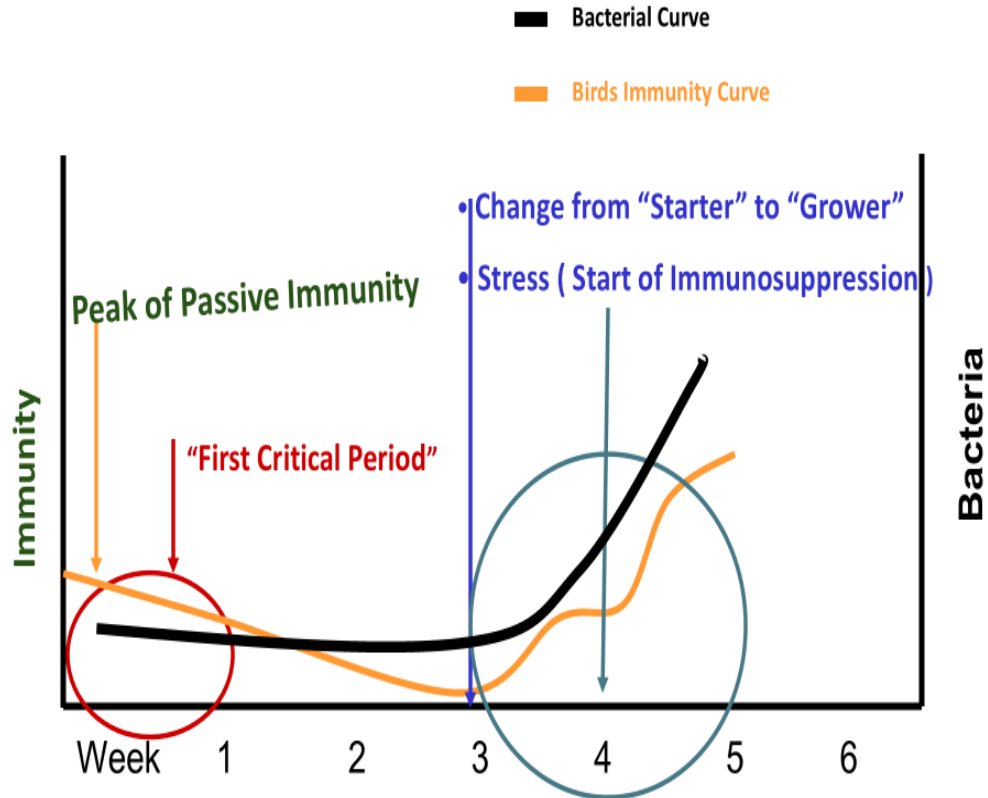
METABOLIC TIME BOMB

TODAY WE ONLY HAVE
7 DAYS TO MAXIMIZE GROWTH



The Broiler Cycle

Bacterial and Immunity Curves in Broilers



INTRODUCTION TO POULTRY MANAGEMENT OF:

- FEED
- WATER
- AIR / OXYGEN = VENTILATION
- HOUSE PREPARATION SANITATION & DISINFECTION
- BEDDING TYPES
- PLACEMENT DENSITY
- LIGHTING

INTRODUCTION TO POULTRY MANAGEMENT

- **NUMBER BIRDS PER HOUSE 12 TO 23
CHICKENS PER SQUARE METER**



INTRODUCTION TO POULTRY MANAGEMENT

- **HEAT BALANCE BETWEEN HOT AND COLD**



INTRODUCTION TO POULTRY MANAGEMENT

- **AVOID HOT AND COLD SPOTS**



INTRODUCTION TO POULTRY MANAGEMENT

- **HEAT BALANCE BETWEEN HOT AND COLD**



INTRODUCTION TO POULTRY MANAGEMENT

- **NON STARTERS SMALL NON VIABLE CHICKENS**



INTRODUCTION TO POULTRY MANAGEMENT

- **NON STARTERS WITH LEG PROBLEMS**

SLIPPED TENDON



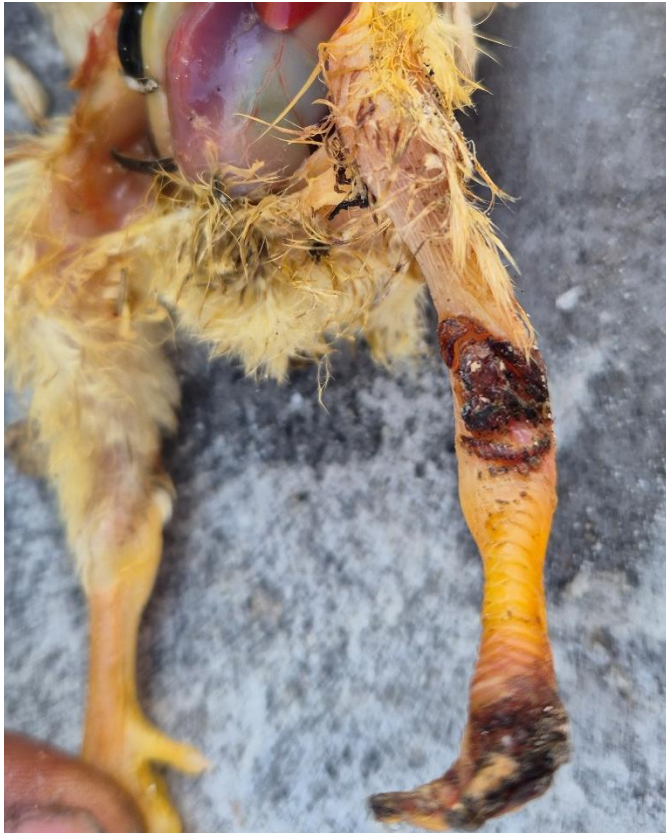
NORMAL



INTRODUCTION TO POULTRY MANAGEMENT

- **NON STARTERS WITH LEG INJURY**

GANGRENE



POOR GROWTH



INTRODUCTION TO POULTRY MANAGEMENT

- **NON STARTERS WITH GENETIC ABNORMALITIES**

NO EYE

SKEWED BEAK



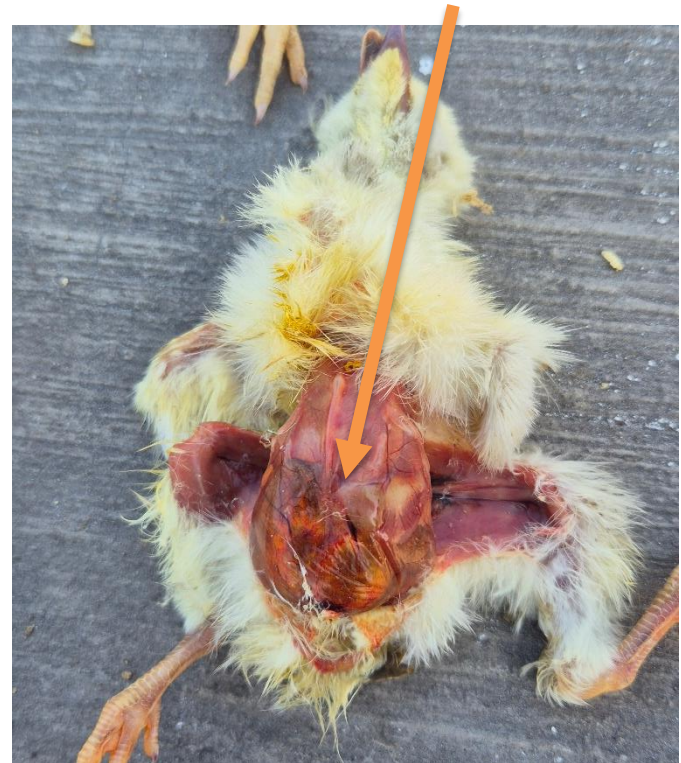
INTRODUCTION TO POULTRY MANAGEMENT

- **NON STARTERS**

YOLK MALABSORPTION



EMACIATED



1. TOPICS FOR DISCUSSION

1. MORTALITIES DAY 1 TO 7

1.1 YOLK SAC INFECTION / MUSHY CHICKS

1.2 NON STARTERS / POOR CHICK QUALITY

1.3 ASPERGILLUS INFECTION

1.4 SUFFOCATION

2. TOPICS FOR DISCUSSION

2. MORTALITIES 8 TO 20 DAYS OLD

- 2.1 E. COLI SEPTICAEMIA / BACTERIAL INFECTION**
- 2.2 ASITIS FROM ASPERGILLUS PNEUMONIA**
- 2.3 HEART ATTACK**
- 2.4 LIVER HEPATITIS / IBH**
- 2.5 CALCIUM + PHOSPHATE IMBALANCE**
- 2.6 DYSBACTERIOSIS (POOR GUT HEALTH)**

3. TOPICS FOR DISCUSSION

3. MORTALITIES 21 TO 35 DAYS OLD

- 3.1 E. COLI SEPTICAEMIA / BACTERIAL INFECTION**
- 3.2 ASITIS FROM POOR VENTILATION**
- 3.3 HEART ATTACK HIGH TEMPERATURE**
- 3.4 LIVER HEPATITIS / IBH NEW VIRUS**
- 3.5 CALCIUM + PHOSPHATE IMBALANCE**
- 3.6 DYSBACTERIOSIS (POOR GUT HEALTH)**
- 3.7 BURNT FEET**

4. TYPES OF MORTALITIES

- **METABOLIC**

- **ALL DISEASES
VIRUS, BACT,
COCCIDIA**

**SUDDEN
DEATH**

INFECT

ASCITES

CULLS

- **METABOLIC**

- **WEAK, FEED,**
- **INJURIES**

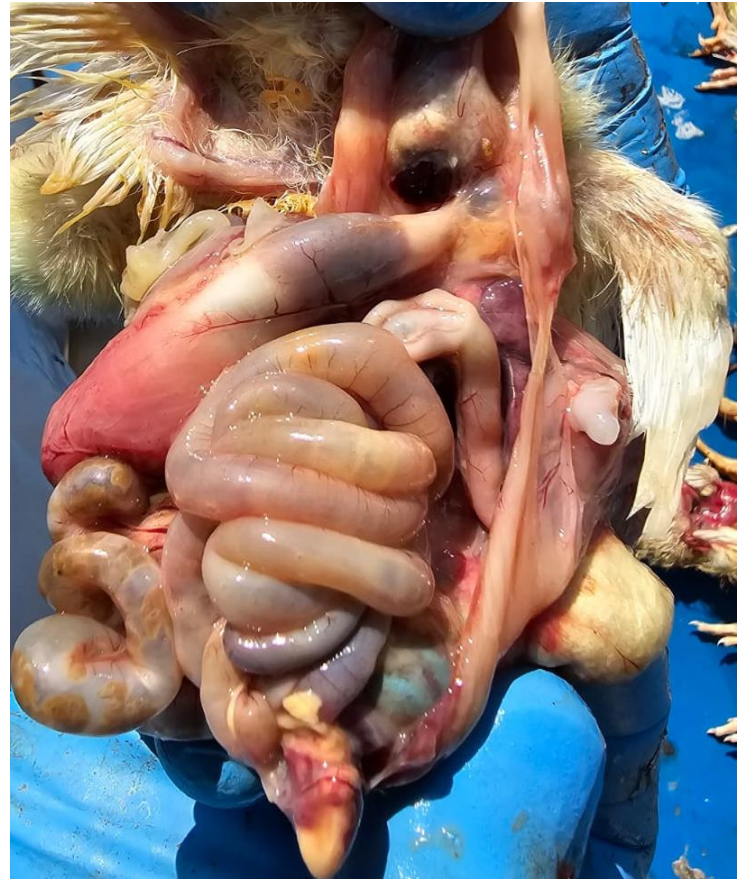
1. ONE TO 7 DAY MORTALITIES

1.1 YOLK SAC INFECTION / MUSHY CHICKS

YOLK SAC INFECTION



YOLK SAC INFECTION



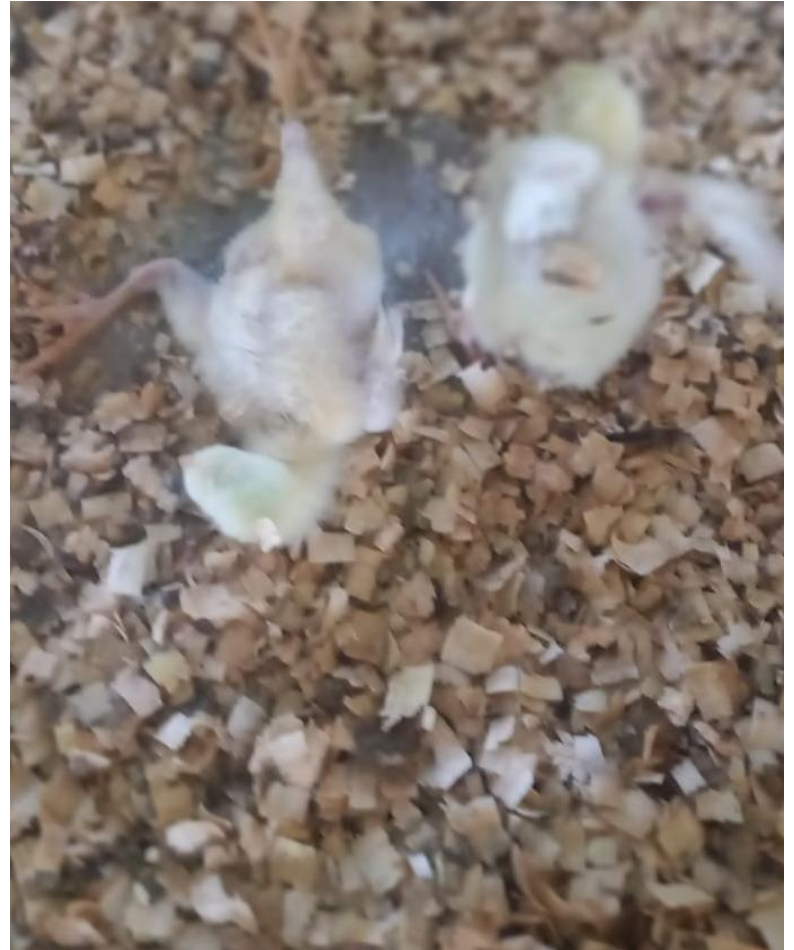
YOLK SAC INFECTION



1. ONE TO 7 DAY MORTALITIES

1.2 NON STARTERS / POOR CHICK QUALITY

NON STARTERS / POOR CHICK QUALITY



NON STARTERS



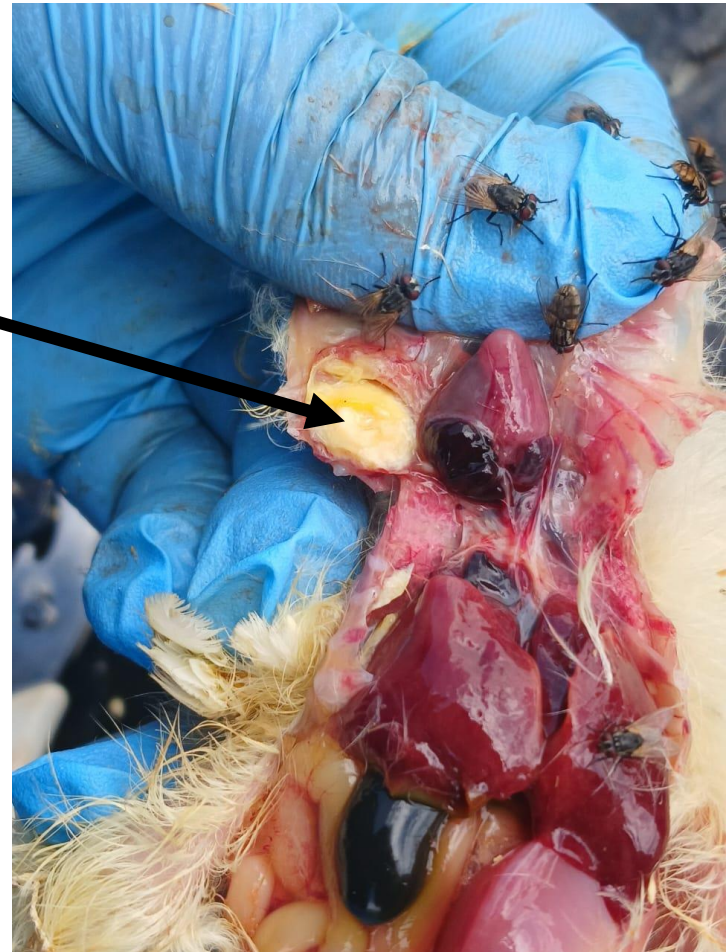
NON STARTERS / POOR CHICK QUALITY



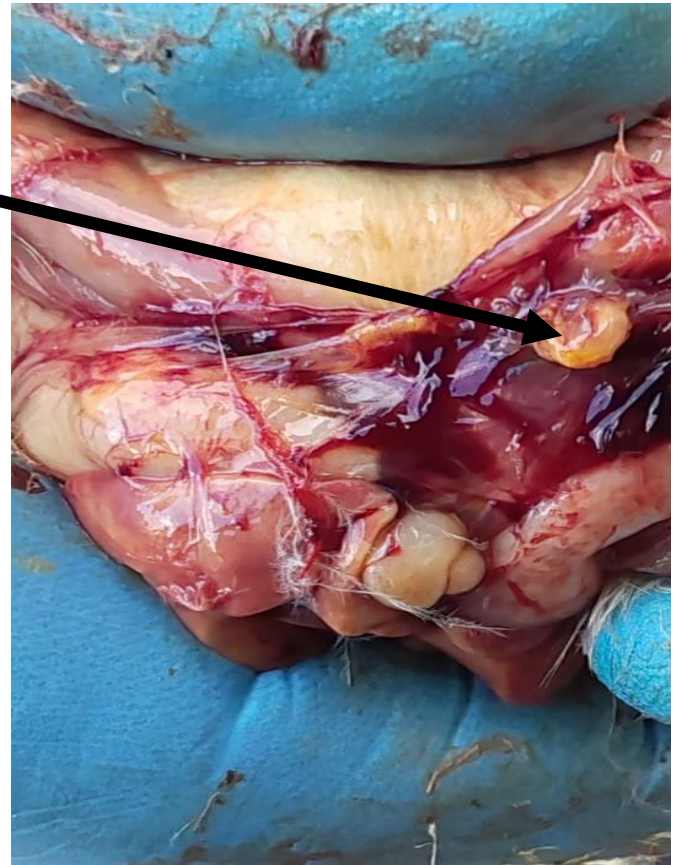
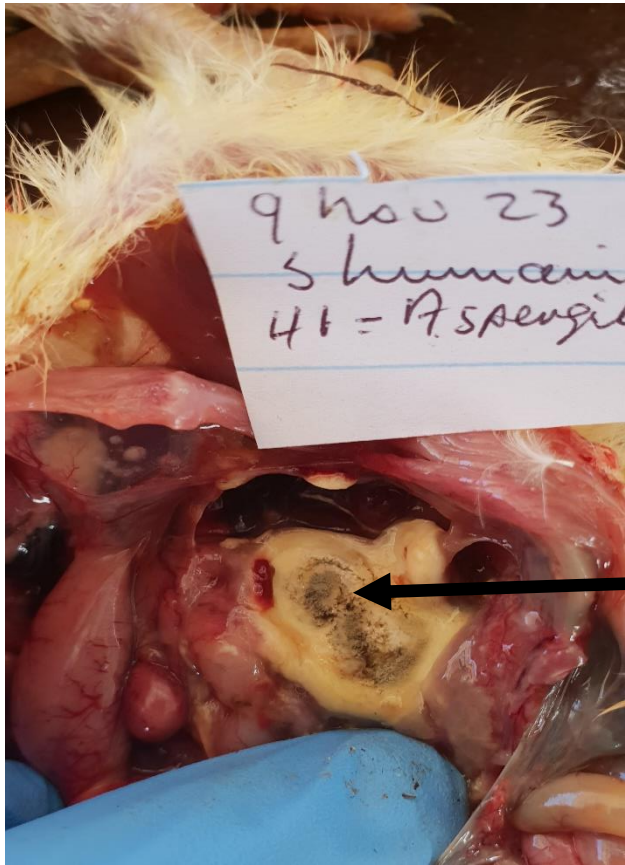
1. ONE TO 7 DAY MORTALITIES

1.3 ASPERGILLUS PNEUMONIA

1.3 ASPERGILLUS INFECTION



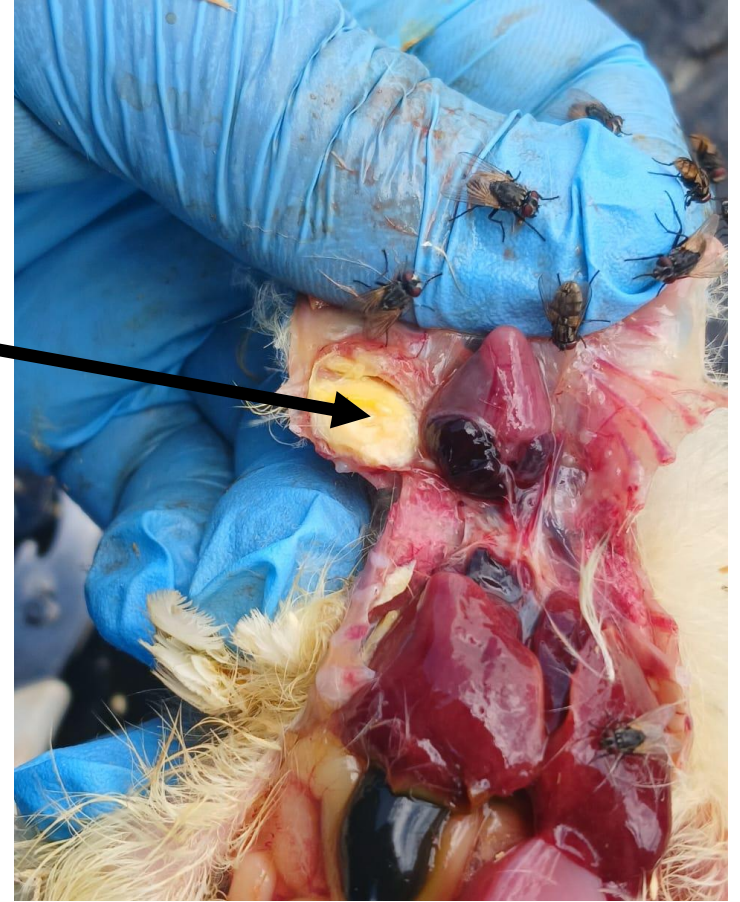
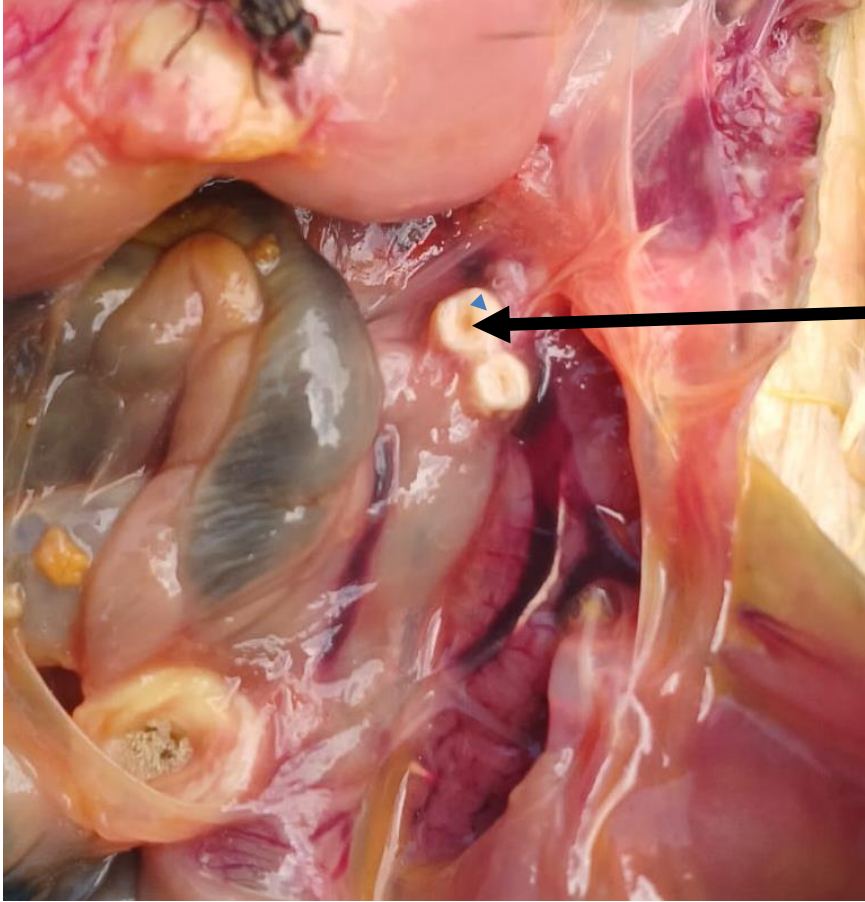
1.3 ASPERGILLUS INFECTION



1.3 ASPERGILLUS INFECTION



1.3 ASPERGILLUS INFECTION



1.3 TRACHEAL PLUGS



1. ONE TO 7 DAY MORTALITIES

1.4 SUFFOCATION

2. TOPICS FOR DISCUSSION

2. MORTALITIES 8 TO 30 DAYS OLD

- 2.1 E. COLI SEPTICAEMIA / BACTERIAL INFECTION**
- 2.2 ASITIS FROM ASPERGILLUS PNEUMONIA**
- 2.3 HEART ATTACK**
- 2.4 LIVER HEPATITIS / IBH**
- 2.5 CALCIUM + PHOSPHATE IMBALANCE**
- 2.6 DYSBACTERIOSIS (POOR GUT HEALTH)**
- 2.7 MYCOPLASMA AIRSAC INFECTION**

2. MORTALITY 8 TO 20 DAYS

2.1 E. COLI SEPTICAEMIA / BACTERIAL INFECTION

E. COLI SEPTICEMIA



E. COLI SEPTICEMIA



E. COLI SEPTICAEMIA



2. MORTALITY 8 TO 20 DAYS

**2.2 ASCITIS / CONGESTIVE
HEART FAILURE/ WATER BELLY**

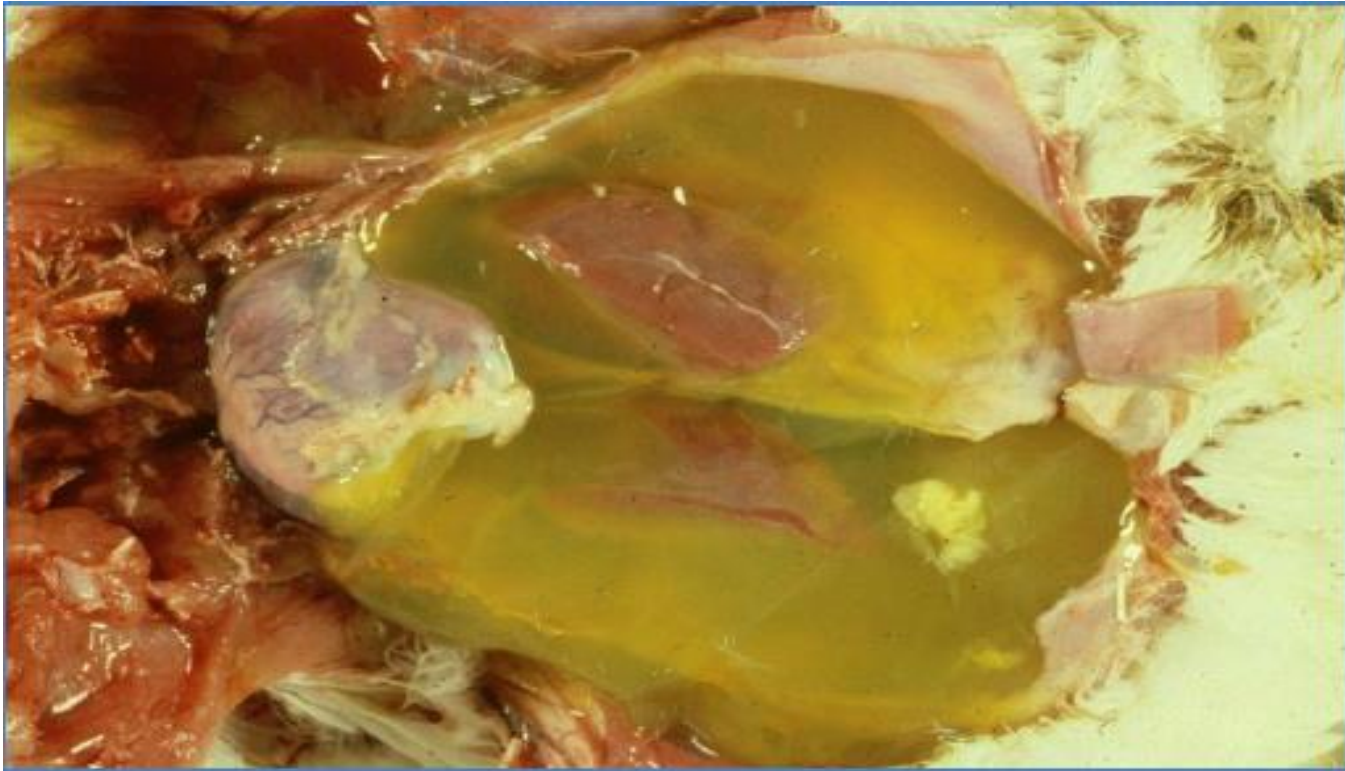
WHEN DO YOU SEE ASCITES?

AGE	ORIGIN	REASON
3 to 10 days	Hatchery	Ventilation & chick transport
10 to 20 days	Farm	Aspergillus from bedding
20 to 35 days	Farm	Poor ventilation & brooding temperature

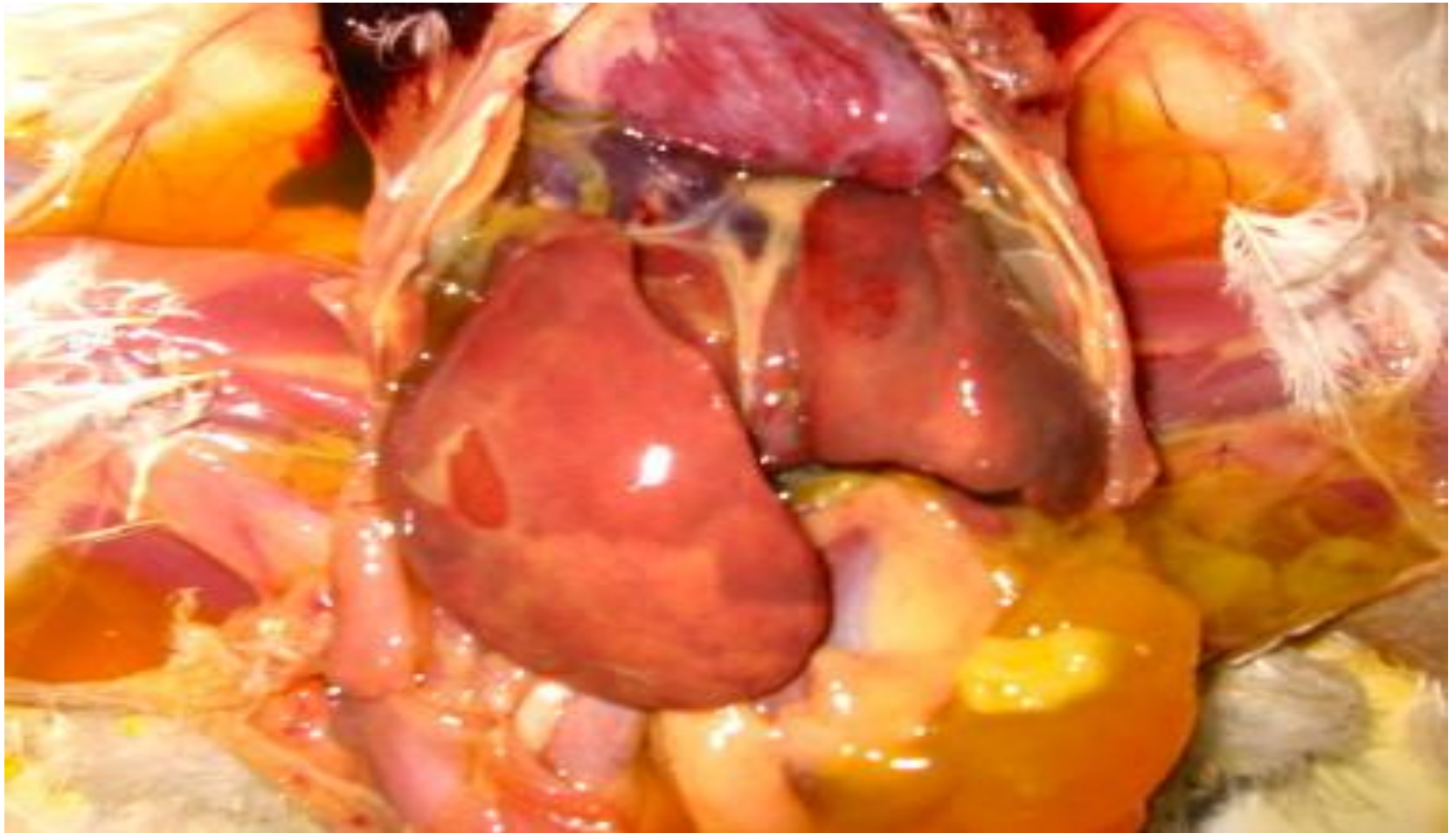
ASCITES



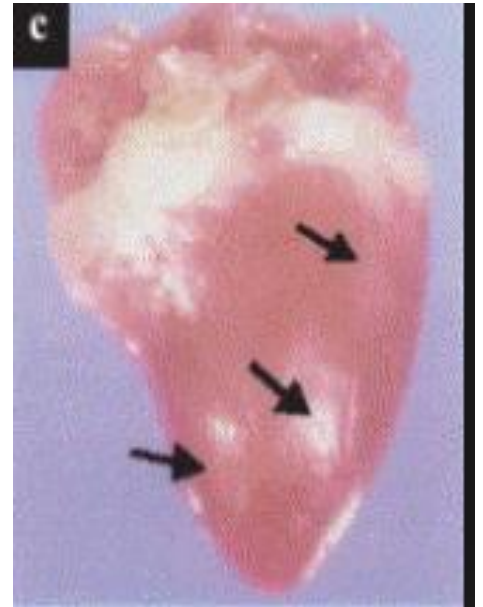
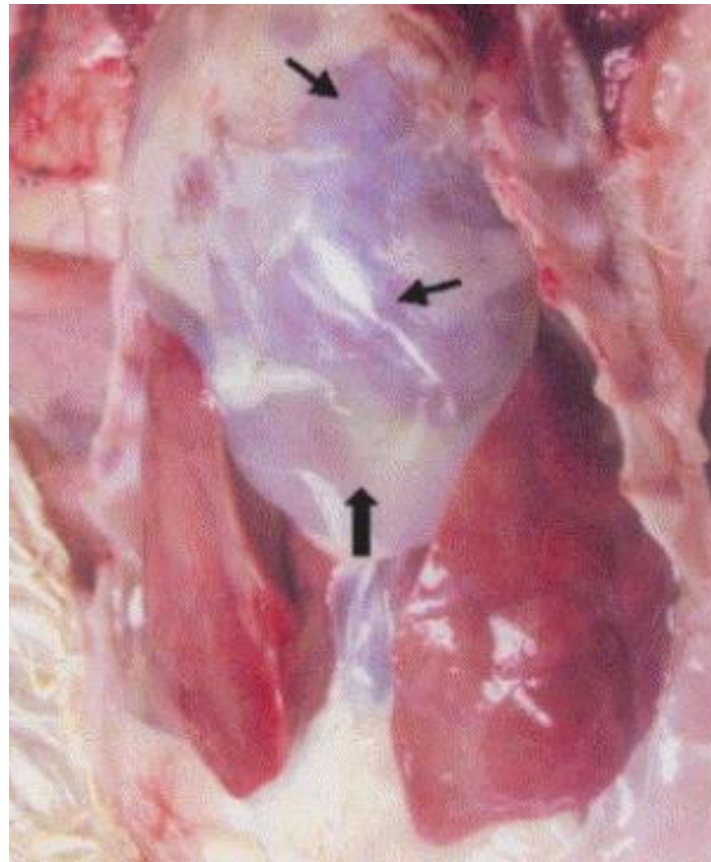
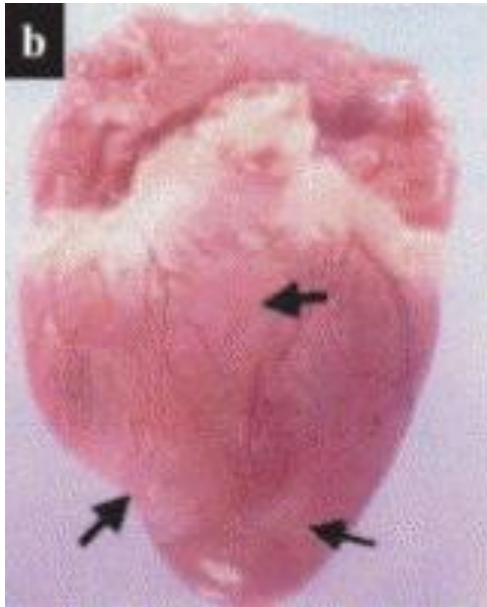
HEART & FLUID FILLED ABDOMEN



LIVER HARDENED



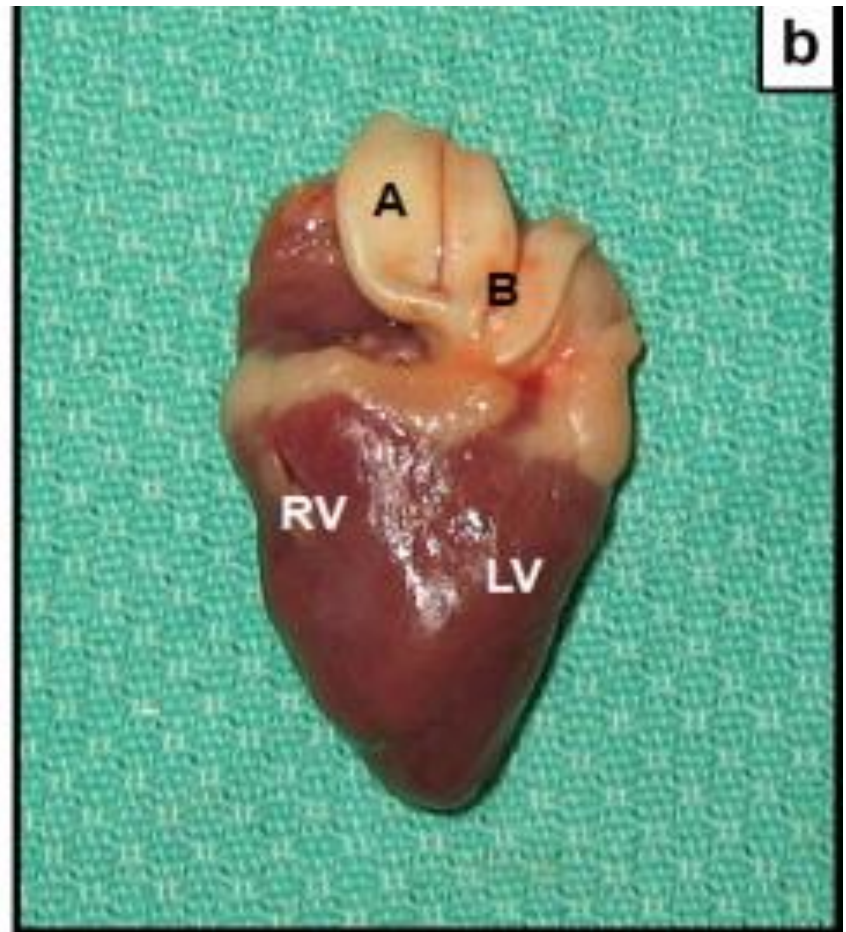
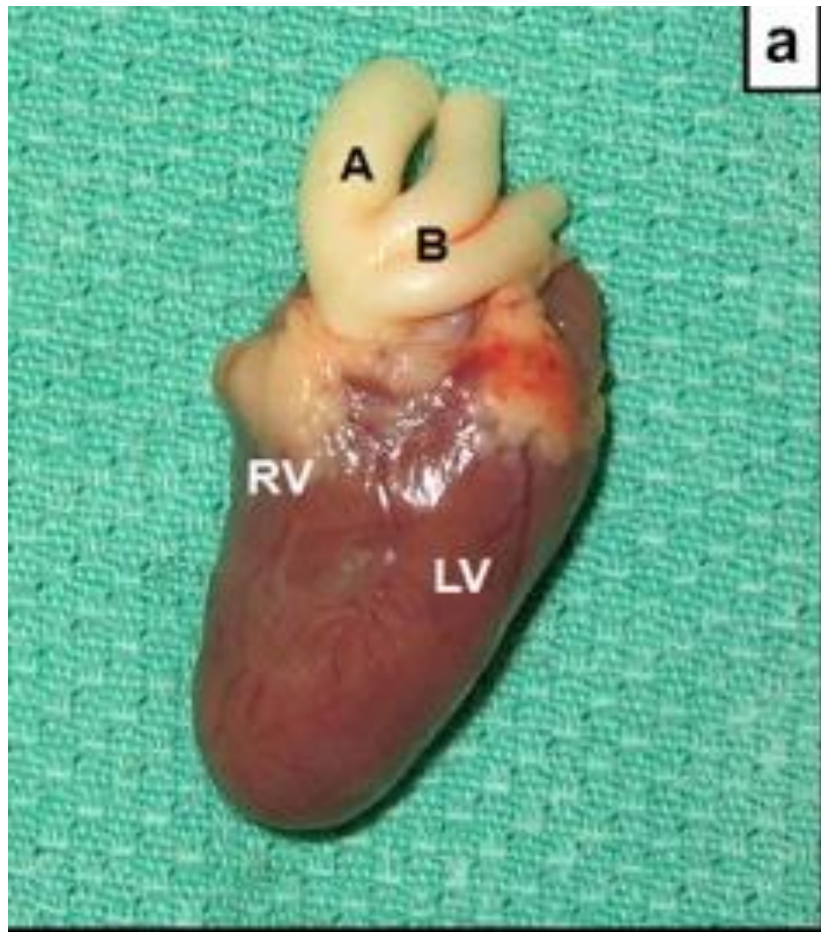
ASCITES ENLARGED



2. MORTALITY 8 TO 20 DAYS

2.3 HEART ATTACK

SMALL HEART



HEART ATTACK



HEART ATTACK



2. MORTALITY 8 TO 20 DAYS

2.4 LIVER HEPATITIS / IBH

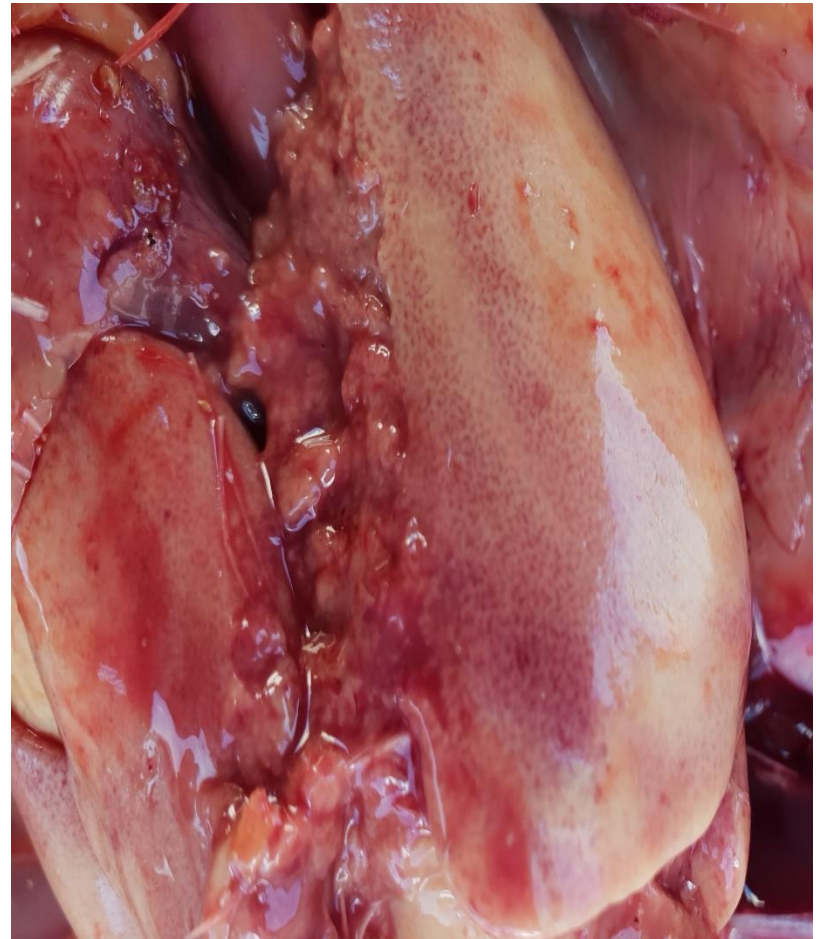
LIVER HEPATITIS / IBH



LIVER HEPATITIS / IBH



LIVER HEPATITIS / IBH



LIVER HEPATITIS / IBH



LIVER HEPATITIS / IBH



GIZZARD EROSIONS



2. MORTALITY 8 TO 20 DAYS

2.5 CALCIUM/PHOSPHATE IMBALANCE

CALCIUM / PHOSPHATE IMBALANCE



NORMAL CALCIUM / PHOSPHATE



CALCIUM / PHOSPHATE IMBALANCE



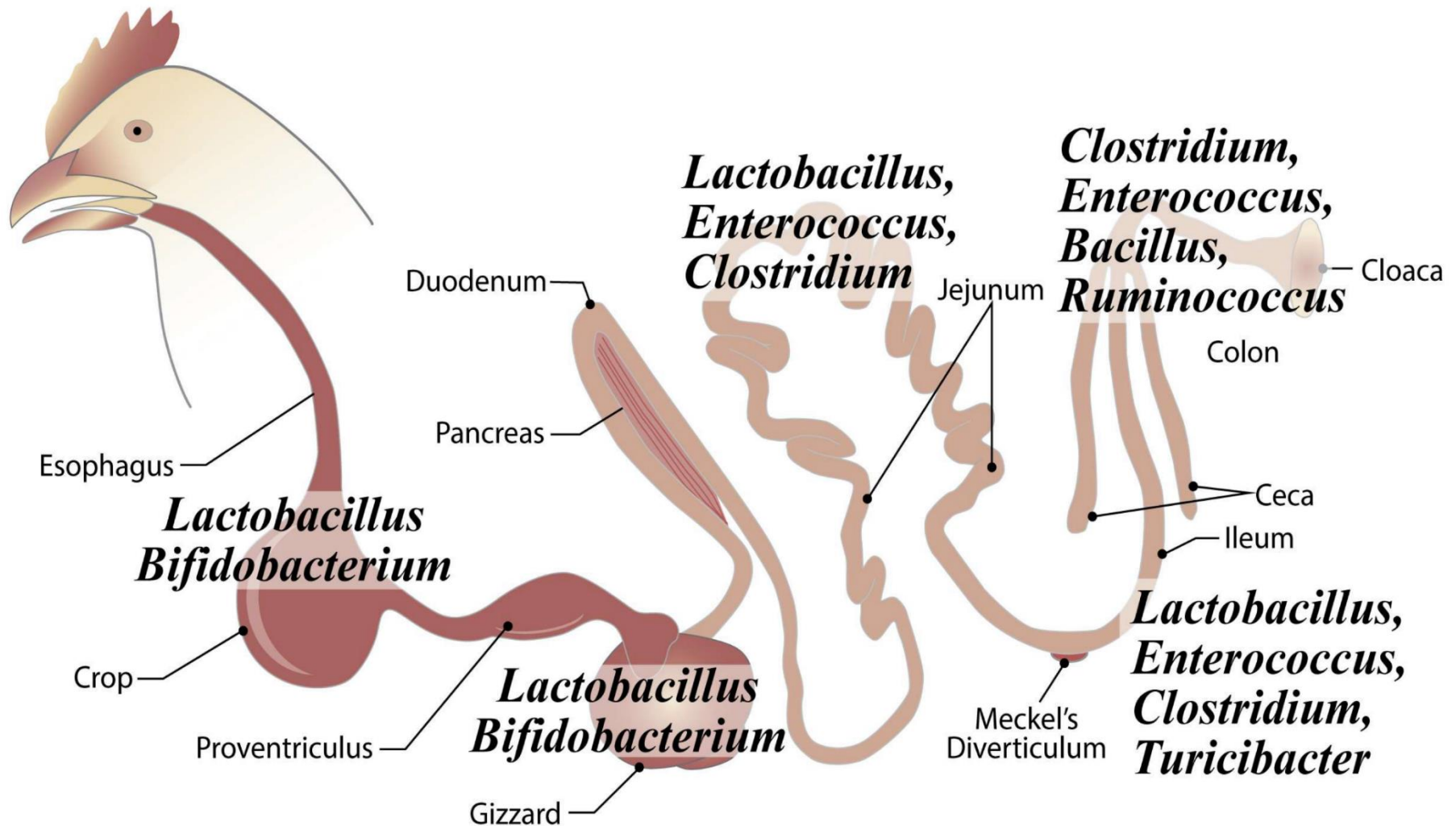
2. MORTALITY 8 TO 20 DAYS

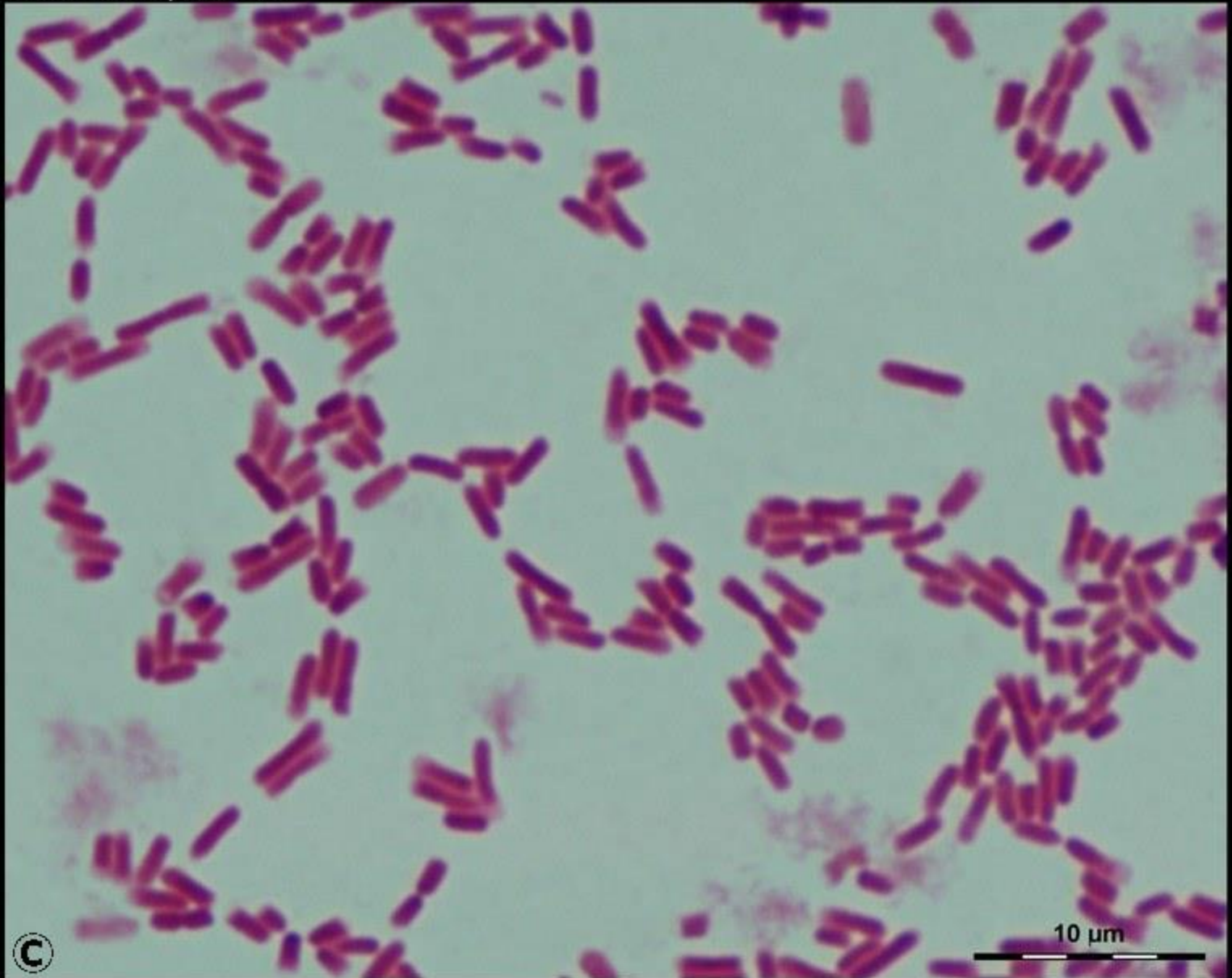
2.6 DYSBACTERIOSIS (POOR GUT HEALTH)

CAUSES DYSBACTERIOSIS

- 1. FEED: ESPECIALLY SOYA?**
- 2. PROCESSING: ANTI NUTRITIONAL FACTORS**
- 3. SOYA FIBRES: MANNANS**
- 4. ENVIRONMENT**

INTESTINES

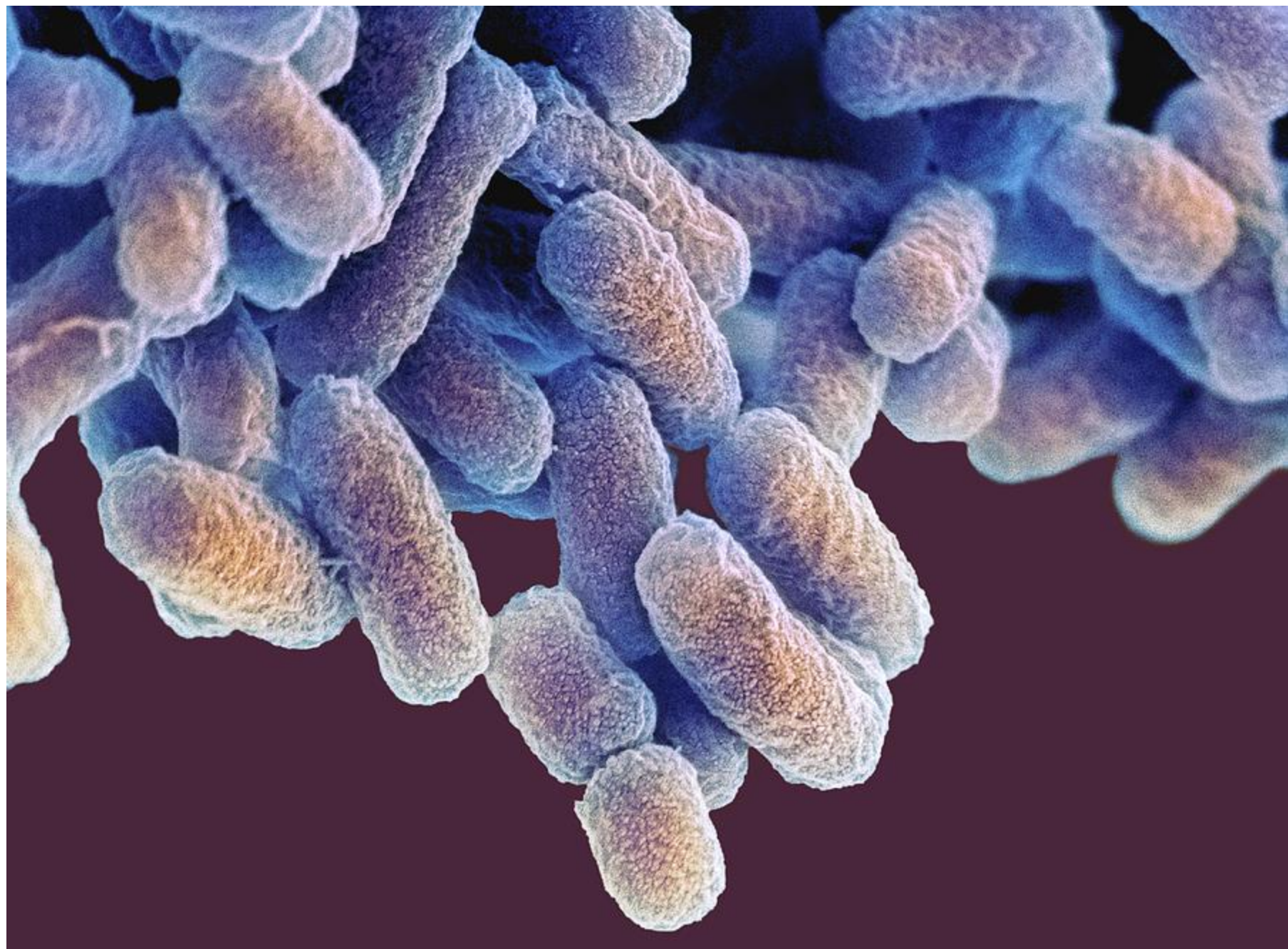


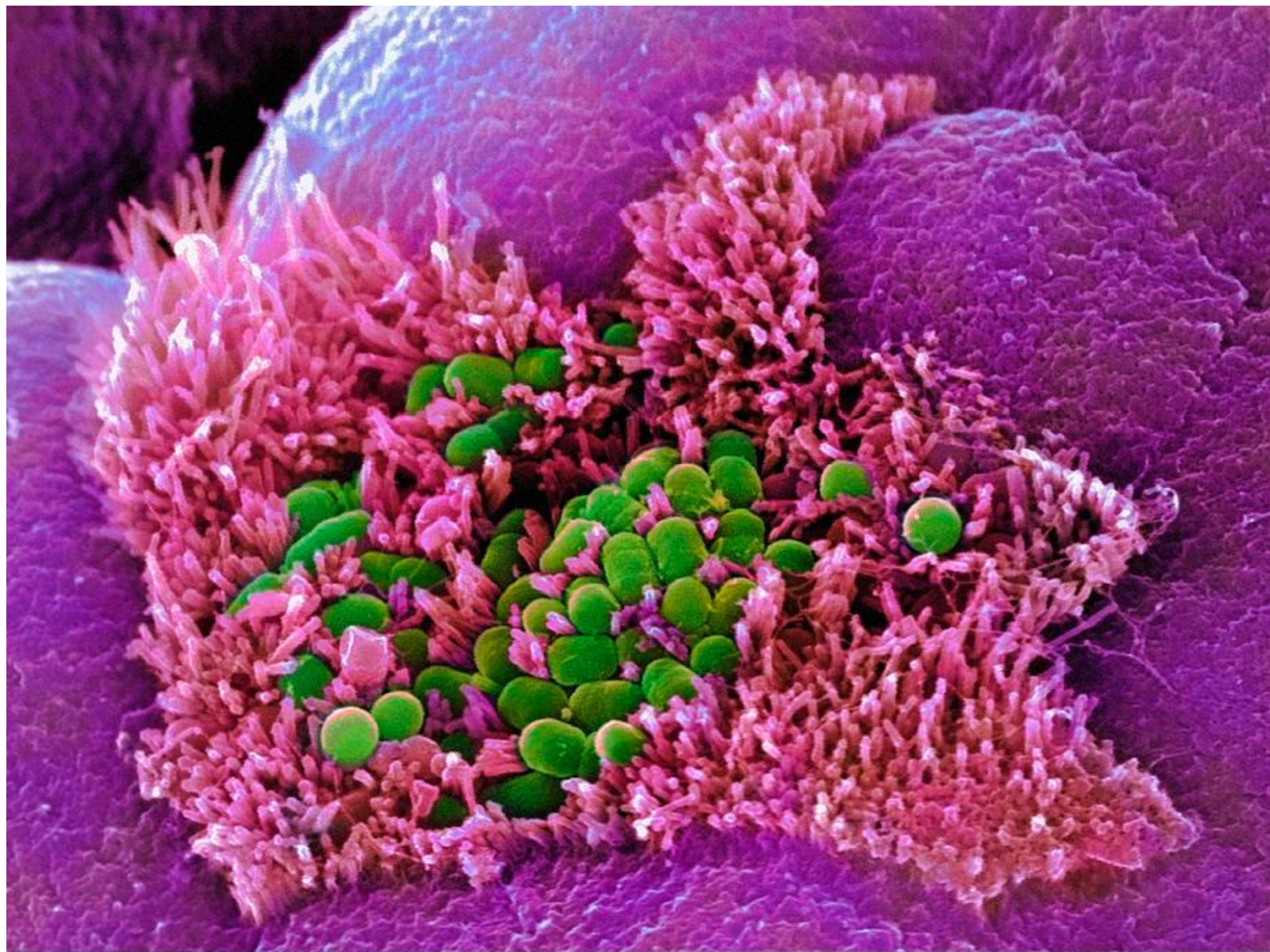


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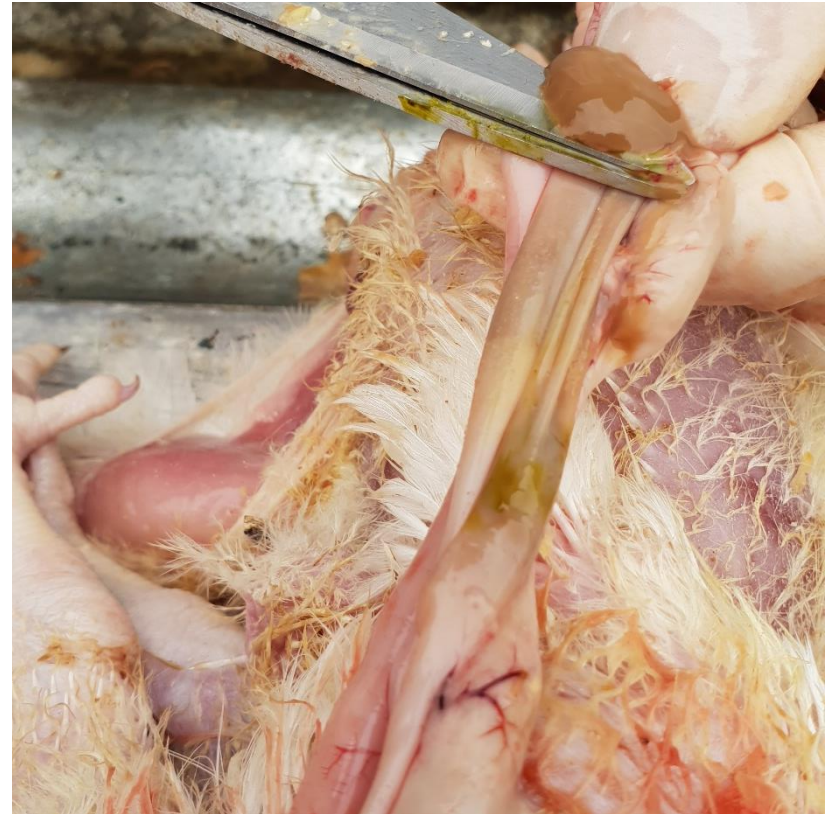
FN

Escherichia coli

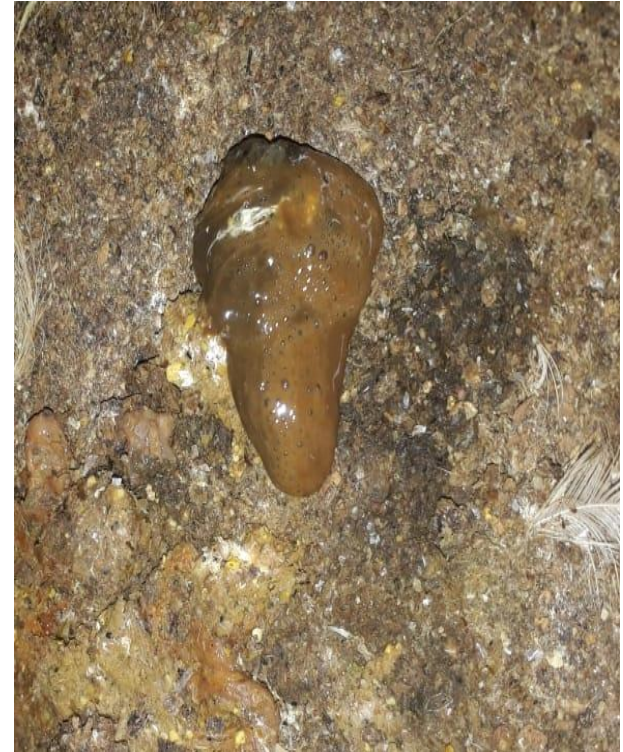
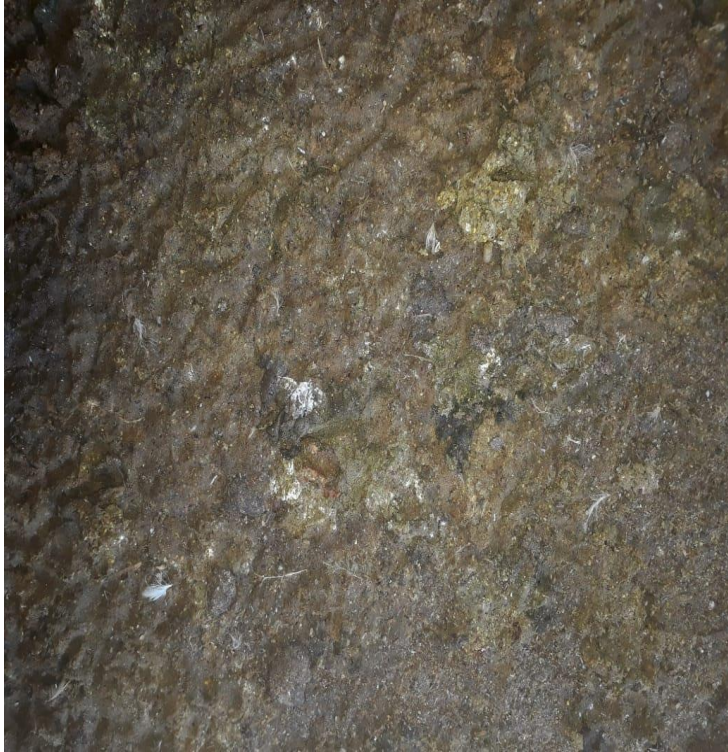




FOAMY LIQUID CONTENT



FLUID CEACAL DROPPINGS



FEED PASSAGE/WET LITTER





SUMMARY OF SYMPTOMS

1. ORANGE COLOURED FEACES



SUMMARY OF SYMPTOMS

2. FEACES WET AND LIQUID



SUMMARY OF SYMPTOMS

3. CEACAL DROPPINGS FOAMY AND LIQUID



SUMMARY OF SYMPTOMS

3. CEACAL DROPPINGS FOAMY AND LIQUID



MORTALITIES 8 TO 20 DAYS OLD

2.7 MYCOPLASMA AIRSAC INFECTION

MYCOPLASMA PLEURITIS





QUESTIONS / VRAE?

