

IBH

and its Effects
on

Efficiency of Integration
(Contract Broiler Farming)

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1

These



That too in Monsoon

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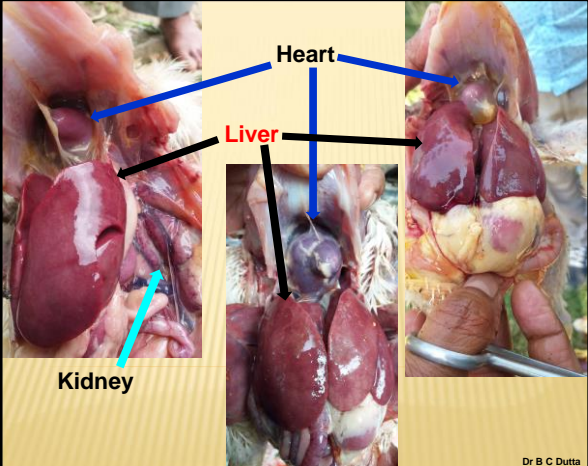
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**Not only in Winter
But in all Season
especially, Monsoon?**

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3



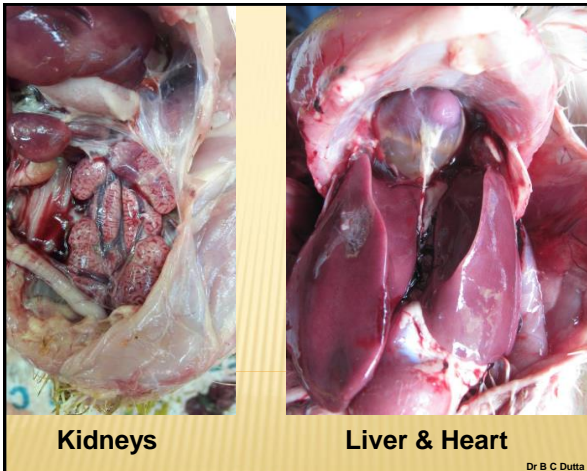
Heart

Liver

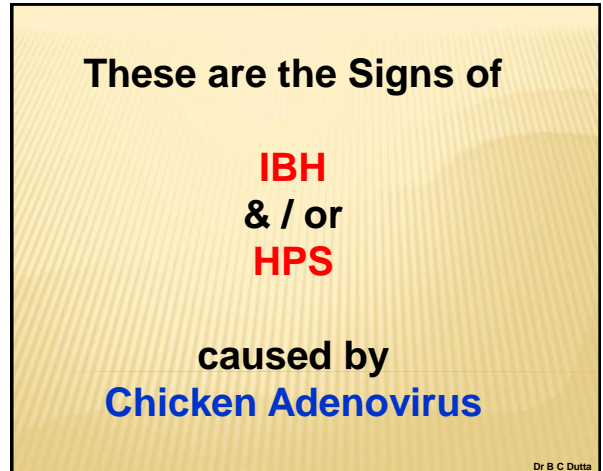
Kidney

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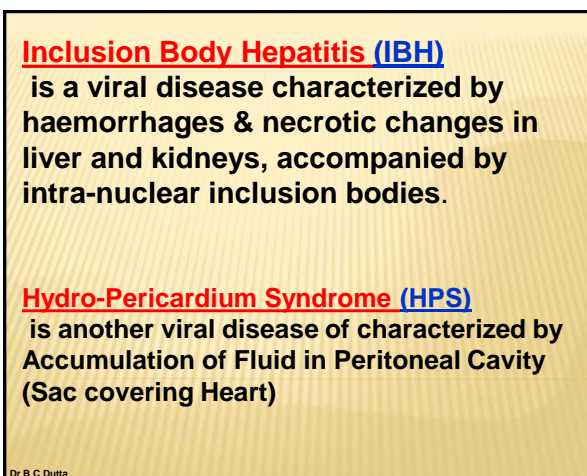
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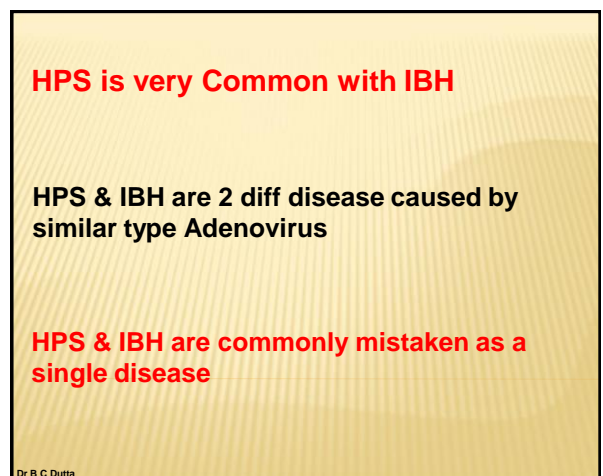
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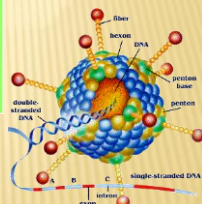
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8

Chicken Adenovirus have 5 Species (A, B, C, D & E) and 12 Serotypes; each species has several serotypes

SPECIES	SEROTYPES	DISEASE
C	4	Hydro Pericardium Inclusion Body Hepatitis
	10	
D	2	
	3	
	9	
	11	
E	6	
	7	
	8	



Chicken Adenovirus

- Resistant to pH 3 – 9
- May survive 70° C up to 30 minutes
- Killed by common disinfectants, 0.1% Formaldehyde is enough

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9

Chicken Adenovirus

- **Once infected, the birds remain carrier for life, shed virus in poultry environment till death**
- **Vertical Transmission is very important**
- **Horizontal Transmission is most common; all excreta like feces & nasal dropping are carrier but feces is main**
- **Air Transmission is very rare**
- **Transmission is mainly through People & Fomites (via Vehicle, Equipment, Eggs)**
- **Recovered birds are resistant to reinfection for 45 days**

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10

Clinical Signs

- **Sudden start of mortality**
- **Peak Mortality in 3 - 4 days and may remain 2 – 3 weeks**
- **Disease may come even on 7th day**
- **Sick birds lie in crouching position**
- **Ruffled feathers**
- **Death in 48 hours**
- **Mortality may be 10 – 30%**
- **Sometime there is no clinical signs but PM reveals damage kidneys & necrotic liver**

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11

Clinical Lesions

A characteristic lesion is enlarged, dystrophic liver with yellowish colour and crumbly texture

Haemorrhagic Kidneys with Urate deposits

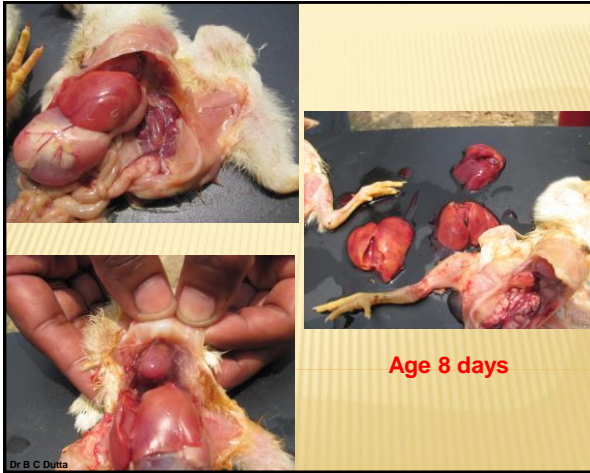
Immune system Bursa, Spleen & Thymus are affected like in Gumboro Disease (IBD)

Bursa may be enlarged or small with haemorrhagic lesions inside. Gelatinous secretions are common

Spleen & Thymus usually enlarged & congested

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12



13



14



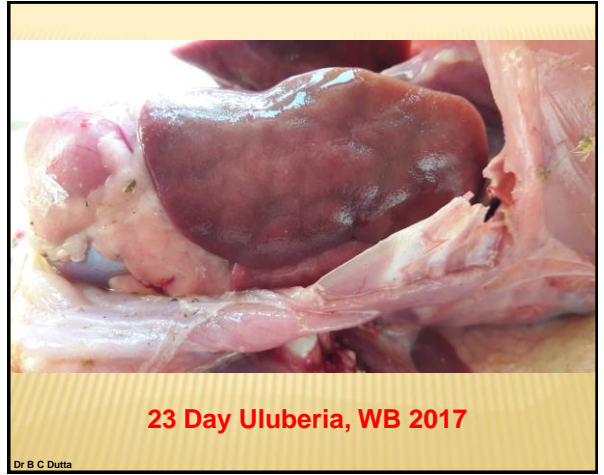
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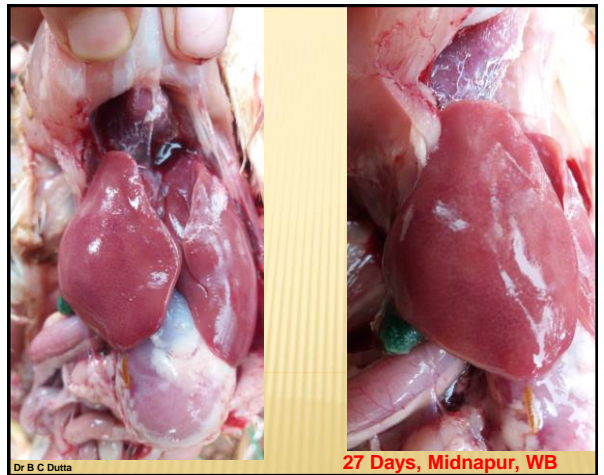
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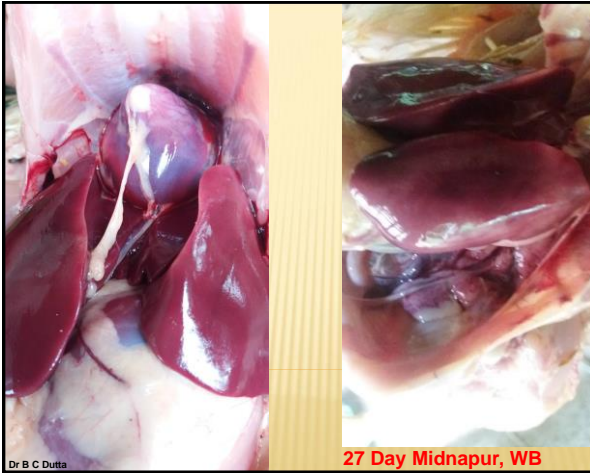
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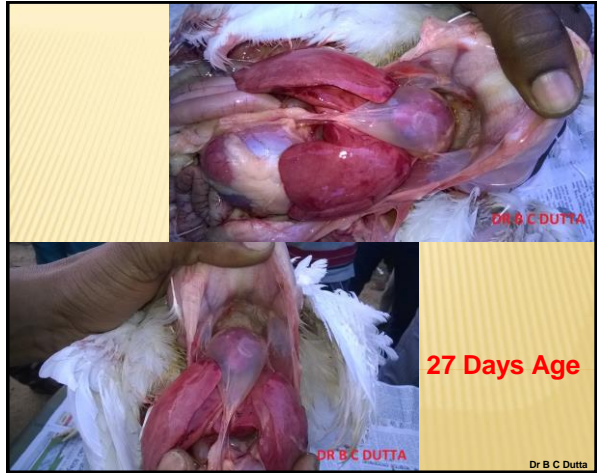
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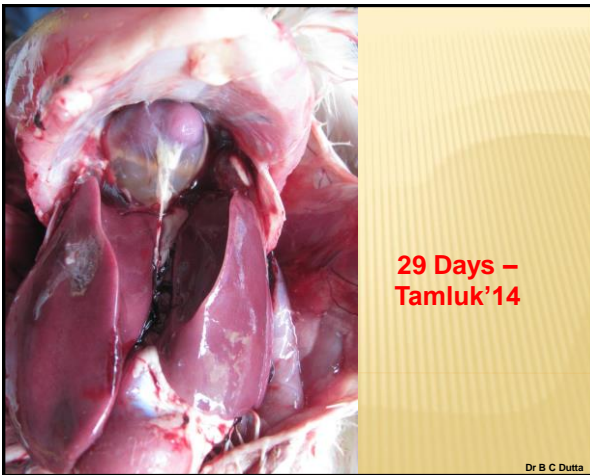
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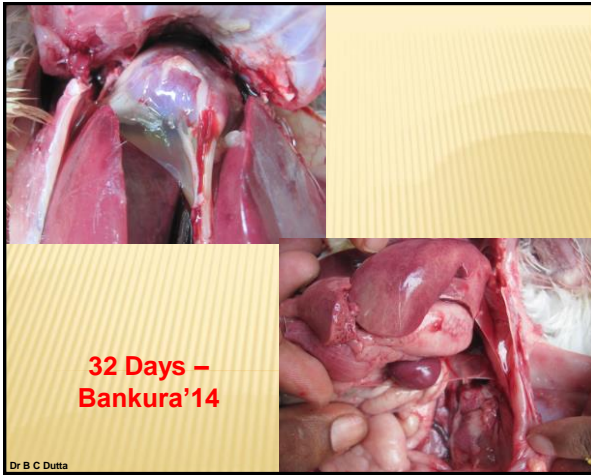
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25



26



27

There is No Treatment of IBH

No Successful Vaccine so far

Biosecurity is the Answer

Avoiding Stress to Newly Hatched Chicks from Mycotoxin, Immunosuppressive diseases and Faulty Brooding HELPS REDUCING LOSSES from IBH

28

Control of IBH

- # House Chicks from disease-free breeder & Hatchery
- # **Housing of Chicks in 100% Disease-Free Brooding shed**
- # Arrange all Brooding materials 2 days before Chicks arrival




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29

Control of IBH

Ensure 100% Comfort to Chicks to avoid any Stress from:

a) Low Temperature	b) Poor Ventilation
c) Insufficient Light	d) Insufficient Space
e) Poor Drinking Water management	



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30

- # **Ensure EARLY FEEDING to stimulate Immunity development immediately after housing of chicks**
- # **Scientific Vaccination program against Immunosuppressive diseases like IBD**
- # **Strict Biosecurity; Mortality Disposal & Poultry Traffic Control**



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31

IBH Effects

on Contract Broiler Farming Integration

IBH / HPS causing huge damage to Broiler farming Integration and the Industry suffering round the year due to

- # **Lack of Awareness about the disease**
- # **No Biosecurity at farm**
- # **Spread of Disease through Line Supervisors of Integration** (Horizontal Spread through Poultry Traffic) Daily
- # **Ready Bird Vehicle** spreading the IBH constantly after they carry recovered birds one time and
- # **Inability to produce effective Vaccine by the poultry scientific community**

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32

Direct / Visible LOSS

In Broiler IBH directly causes

- High Mortality
- Low Body Weight
- High FCR

IBH also damage the immune system resulting Immuno-suppression & Vaccine Failure, indirectly inviting several other infections present in the poultry locality:

- E coli
- CRD
- Coccidiosis & Necrotic Enteritis
- IBD or Gumboro
- RD or ND
- LPAI

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33

Example

- In most part of India a Integration farmer with 1,000 Chicks normally Sales 2,000 Kg Ready Broiler after 36 – 37 days with 4 – 5% mortality & Body Wt 2.100 Kg
- In case of IBH the same farmer Sales 1400 - 1500 Kg Ready Broiler with 15 – 20% Mortality and Body Wt 1.700 – 1.800 Kg
- **The Loss to the Farmer is 500 Kg Ready Broiler, Value of which is Rs 37,000/**
- In Integration system, due to High FCR & High Mortality the farmer will get a GC of hardly Rs 6,000 – 7,000/ instead of normal Rs 15,000 – 17,000/

That's the Suffering

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34

Effect on Broiler Farming Integration

In-Visible LOSS

IBH problem increasing every year creating fear psychosis in poultry community

Increasing Mortality every year created Panic among Small & Medium Broiler Integrators.

They are absolutely clueless

Viability of this type of Integration is under threat.

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35



Thank You

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36