

## The I<sup>2</sup> condition assessments:

### GI tract conditions

- Necrotic enteritis
- Gizzard erosion
- Proventriculitis
- Mouth lesions

### Coccidiosis

- Gross *Eimeria* spp. (*E. acervulina*, *E. maxima*, *E. tenella*, *E. brunetti*, *E. mitis*, *E. necatrix*)
- Microscopic *Eimeria maxima*

### Parasites

- Roundworms
- Tapeworms

### GI tract function

- Intestinal tone
- Feed passage

### GI tract status/function

- Intestinal fluid
- Thick/thin intestine
- Excessive bile and/or mucus
- Cellular sloughing
- Hyperaemia
- Intestinal haemorrhage

I<sup>2</sup> scores can be used to identify 'yield gaps' and specific areas of opportunity for improvement

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For further information or queries, contact the Elanco team.

## I<sup>2</sup> EXPLAINED

**References:** 1. Kasab-Bachi H *et al* Prev Vet Med 2017 130 (v1.0) 2. Swirski AL Agriculture 2020 1 (v1.0)

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### Why is Intestinal Integrity important?

The intestinal tract is arguably the most important body system of the broiler.

Intestine function determines feed conversion efficiency

► **Drives performance of the birds**

Any damage to the intestines **will damage profits.**



### I<sup>2</sup> explained

The Intestinal Integrity (I<sup>2</sup>) index is a pivotal part of Elanco's Health Tracking System (HTSi) for broilers...

### What is I<sup>2</sup>?

A unique and **independently validated** composite scoring system that provides simple, yet comprehensive assessment of Intestinal Integrity in broilers.

I<sup>2</sup> scores are proven to be predictive of key performance indicators<sup>1,2</sup>

### Reaching an I<sup>2</sup> score:

**23**  
intestinal conditions assessed

Known to impact intestinal health

→

**Each lesion is scored**

Scoring ranges vary to reflect the diversity of severity of each condition

→

**Scores are weighted to reflect significance**

Pathogenicity, economic importance and statistical association with key performance measurements

→

**Generation of a composite I<sup>2</sup> score**

An overall score out of 100 provides an accurate representation of overall intestinal health

### As I<sup>2</sup> goes up by one unit<sup>1,2</sup>:

▲ **ADG** increases by **0.04g**

▼ **FCR** decreases by **0.13pts**

▲ **EPEF** increases by **0.52**

▲ **% livability** increases by **5%**

**100** is the maximum I<sup>2</sup> score, indicating optimal intestinal health

