



ALLIGUARD TRIAL REPORT

JULY 2022

ALLIGUARD Trial

UK based commercial trial of 4 units each stocked with 58,000 Ross 308 As Hatched birds. The trial was to compare 2 units using Alliguard™ from day 0 to day 6 and 2 units as a control with no supplementary treatment.

150ml of Alliguard product per 1000 liters of water was used for seven consecutive days.

The trial farm is a modern facility with Fancom environmental controls with all units set to the same parameters.

All units were thinned at 32 days (28%) and cleared at 38 days.



Alliguard is a dietary alternative to the use of antibiotics in poultry and swine production.

Alliguard is composed of active metabolites extracted from the Allium plant, which stimulates the innate immunity of the animal and reduces the effects of bacterial disease.

Alliguard shows a significant action against numerous gram-negative bacteria such as Escherichia Coli, Staphylococcus, Enterococcus, ...

In broiler production, Alliguard gives significant results on the Bacterial Chondronecrosis with Osteomyelitis (BCO) or femoral head necrosis, and reduces lameness in poultry due to this disease.

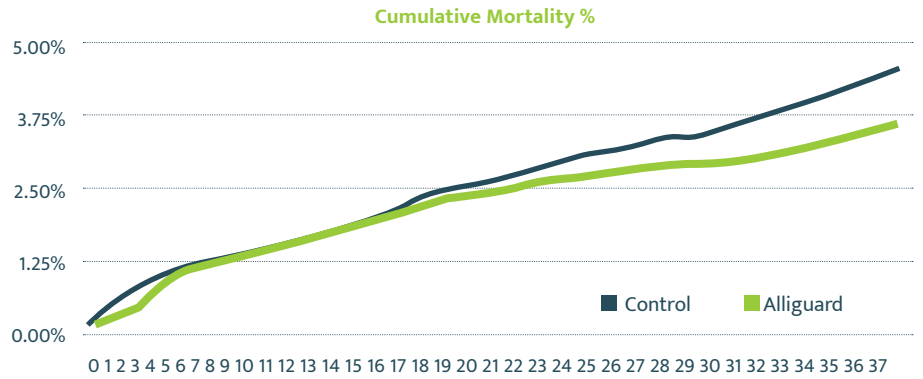
Data collected

- Daily mortality
- Daily leg culls
- Body weight into factory (Thin and Clear)
- Any medication for the treatment of leg issues

MORTALITY

Cumulative mortality (including culls) was reduced by 1% in the Alliguard units compared to the controlled units (Figure 1).

Figure 1. Cumulative mortality of combined units (116,000 birds/unit)



Mortality was recorded daily in all units and the data shows the control units having leg health challenges around 12 days and again at 27 days. (Figure 2).

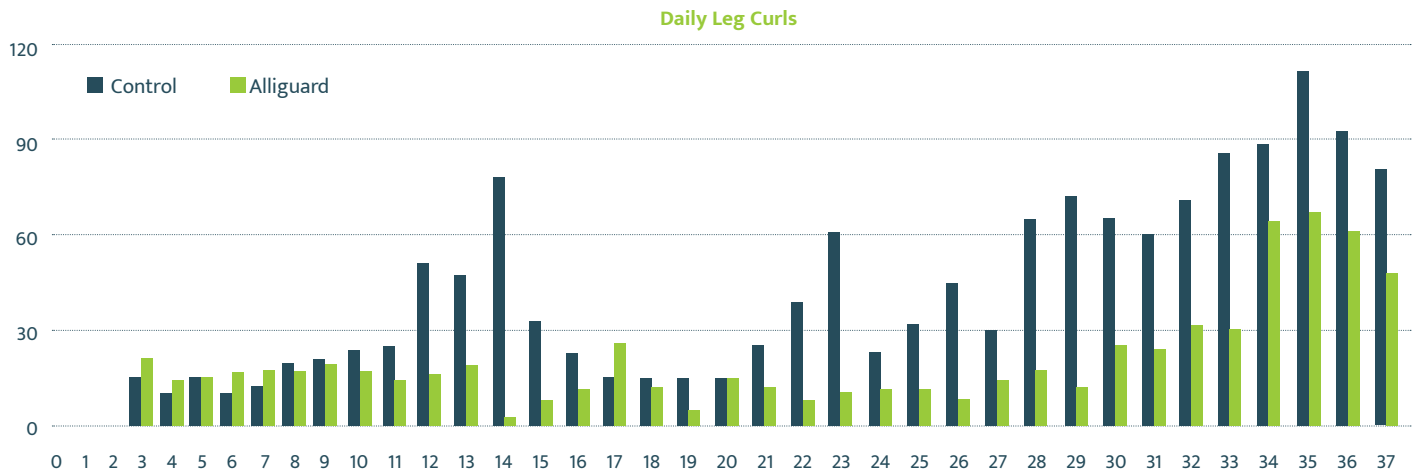


Figure 2. daily Leg Culls of combined units (116,000 birds/unit) . Cumulative leg culls were reduced by 50% in the Alliguard units when compared to the control units (figure 3). Note the leg culls increasing from as early as 12 days in the control unit.

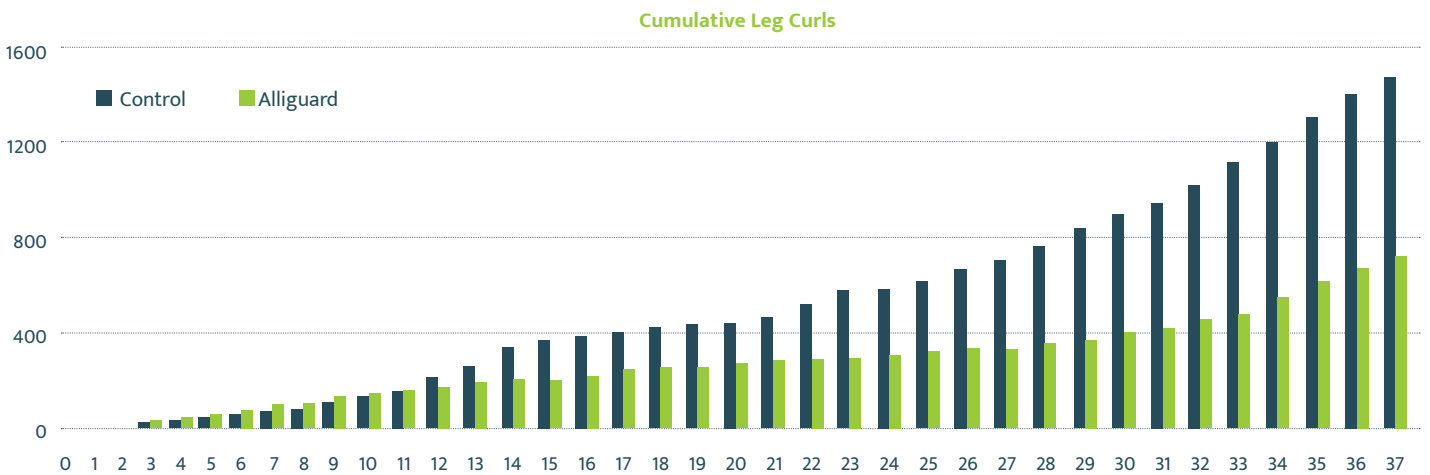
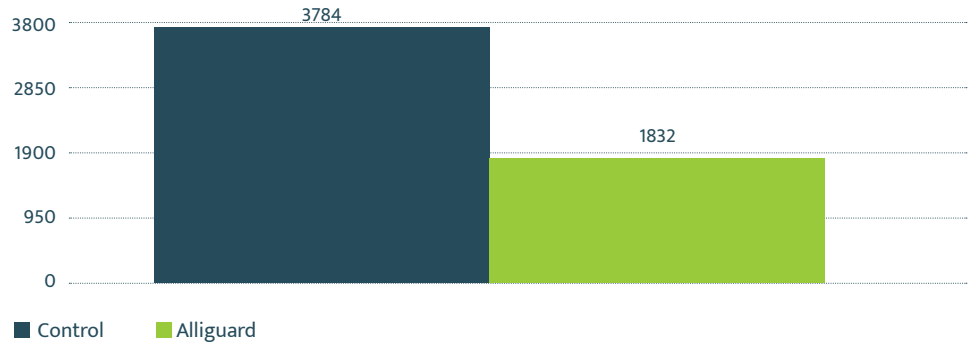


Figure 3. Cumulative Leg Culls of combined units (116,000 birds/unit) . Potential weight lost due to leg culls was reduced from 3784kgs without Alliguard to 1832Kgs with Alliguard (figure 4).

POTENTIAL WEIGHT LOST DUE TO LEG CULLS (KGS)

Figure 4. Weight lost leg culls



Conclusion

Units treated with Alliguard during the first 7 days received no medical treatment throughout the crop cycle and had a significant reduction in leg culls/Mortality when compared to the control units. The control units received 3 lots of antibiotic treatments, one treatment at 12 days and two treatments at 32 days for both FHN and bacterial infection in the leg joints and spine.

Overall savings in leg culls and lack of medication resulted in a 10-fold return on their investment of Alliguard, plus the benefit of not having to cull birds later in the crop when close to market age and weight (based on £1.00/kgs).

	Leg Culls Kgs	Meds £	Total	AliG £	ROI
Control	3784	1050	4834	0	
Alliguard	1832	0	1832	300	
Variance	1952	1050	3002	300	10.0