

WORLD'S POULTRY CONGRESS ABSTRACT BOOK

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significant differences. Results showed that ultrasound at the longest processing time (25.52 J/ml, 5 min) reduced 2 log of microbial cells in the eggshell but affected significantly the albumen absorbance ($p \leq 0.05$). However, shorter processing time (14.92 J/ml, 3 min) together with caffeine fully decontaminated the eggshell (3 log reduction), no viable cells were detected and did not affect the egg quality preserving all the tested characteristics ($p > 0.05$). It was observed that there was a synergistic effect between ultrasound and caffeine against *Salmonella* during microbial inactivation in eggshells. The cavitation from ultrasound was able to remove and start the disruption of the microbial cells from the eggshell, and the caffeine had antimicrobial effect, leading to cellular death. Further studies are required to scale up and validate this novel approach to ensure energy during cavitation is delivered homogeneously on a bigger scale. This synergy represents an affordable and green option from small to big egg farms to ensure the food safety of the product before it reaches the consumer.

Keywords: *Salmonella*; eggshell; egg quality; egg processing; natural antimicrobial

4112 Impact of various storage conditions on quality changes in table eggs

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Eggs are an excellent source of nutrients in the human diet. Naturally protected by their shells, they represent a self-contained food product whose quality encompasses all characteristics that consumers consider acceptable or unacceptable. The foundation of high egg quality lies in the health of the laying hens, and the application of appropriate storage conditions. The maximum shelf life of eggs varies depending on national regulations; in the European Union and the Republic of Serbia, the prescribed shelf life for commercial chicken eggs is 28 days when stored at above 5 °C.

The aim of this study was to evaluate the effects of different temperatures (5 °C, 15 °C, and 25 °C) on the microbiological status and on both external and internal quality parameters of medium weight category table eggs obtained from 32-week-old Isa Brown hens. A total of 570 M-class eggs were randomly divided into 19 groups and analyzed on the day of production and after 7, 14, 21, 28, 35, and 42 days of storage. Data were analyzed by ANOVA with Duncan's test using R software (v. 3.2.2); $p < 0.05$ was considered significant.

Microbiological analysis of egg contents (yolk and albumen) revealed that *Salmonella* spp. and *Listeria monocytogenes* were not detected, while total microorganism, Enterobacteriaceae, *Escherichia coli*, coagulase-positive staphylococci, yeasts and molds were all below the quantification limit (<10 CFU/g) during 42 days of storage at 5 °C, 15 °C, and 25 °C.

No changes ($p > 0.05$) were observed in egg weight, shell colour, shell cleanliness, egg shape, shell strength, shell thickness, or shell weight during storage of table eggs at 5 °C, 15 °C, and 25 °C for 42 days. On contrary, significant differences ($p < 0.05$) were observed on internal quality, including yolk height (YH), yolk width (YW), albumen height (AH), and Haugh unit (HU). The greatest changes occurred in eggs stored at 25 °C, where YH

decreased from the initial 19.64 ± 0.98 mm to 12.74 ± 0.89 mm, YW increased from 37.97 ± 1.02 mm to 44.93 ± 1.72 mm, AH decreased from 8.95 ± 1.22 mm to 1.74 ± 0.46 mm, and the HU decreased from 94.34 ± 6.70 to 26.03 ± 10.36 . Slightly smaller changes were recorded in eggs stored at 15 °C, where, at the end of the storage period, YH measured 17.12 ± 0.71 mm, YW 41.47 ± 1.26 mm, AH 5.16 ± 0.54 mm, and HU 70.92 ± 4.66 .

After 28 days, eggs at 25 °C showed altered quality (YH 14.03 ± 0.69 mm, YW 37.63 ± 10.14 mm, AH of 2.46 ± 0.72 mm, HU of 39.51 ± 11.97), while at 15 °C and 5 °C only AH and HU changed slightly (15 °C: AH 6.31 ± 0.64 mm, HU 79.47 ± 4.65 ; 5 °C: AH 7.09 ± 0.76 , HU 84.28 ± 4.49).

Although changes were also observed in eggs stored at 5 °C, they were less pronounced, indicating that eggs stored at 5 °C retain their initial quality for longer period.

Keywords: egg quality; storage temperature; microbiological safety; internal quality degradation; shelf life

4113 Yolk pigmentation in laying hens is affected by season, genotype and age: analysis of a large commercial dataset

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The UK market is well adapted to the needs of brown-feathered laying hens, and feed pigment levels have been developed to suit the brown layer. However, recent changes have led to the introduction of white birds into the UK system, which now make up approximately 15% of the national flock. In order to investigate the impact of hen genotype on yolk pigmentation, a large dataset ($n=17876$) was compiled from egg yolk pigmentation readings taken by multiple commercial UK egg packers. As birds were fed from different feed mills and over an extended period, formulations varied (though all were based on wheat/barley/sun/soybean with minimal or no maize addition). Pigment supplementation was provided entirely through the premix (supplying supplied 1500 mg/kg saponified paprika extract or 22.5 mg/kg canthaxanthin 10%, and 250 mg/kg lutein rich extract) and dictated by egg brand, rather than genotype. 470 commercial flocks were assessed over 80 weeks using the Roche colour scale. All readings were taken by trained QC staff. For each reading, 5 individual eggs were scored and averaged. At each weekly reading, supplemental data about each flock was collected including hen colour, age and target yolk score. Roche scores were analysed with JMP 19. Differences were considered significant at $P < 0.05$; $P < 0.1$ was considered a near-significant trend.

There was a clear effect of season on yolk score. There was a seasonal decrease in yolk pigmentation, with the lowest scores recorded from May to September. Decreases in yolk score coincided with spring and summer, and the onset of higher temperatures.

Distribution of genotype in the dataset reflected wider commercial realities in the UK (Brown $n=14884$, White $n=2992$). Across the dataset, there was a highly significant difference in egg pigmentation between white and brown birds (Brown=11.47, White=10.52, $P < 0.0001$), as well as a difference in target achievement (Brown=115.90%, White=114.52%, $P=0.0069$). Across the dataset, yolk score increased with bird age ($P < 0.0001$); data suggests that the effect of age differs between white and brown birds, with white birds pigmenting less well with age.

While these differences are minimal, they are consistent and may have implications for the commercial nutrition of laying hens. There is no data to suggest differences in pigmentation deposition ability between white and brown birds, though white birds are known to consume less feed – and thereby less pigment – and produce more egg mass than brown birds. This, combined with the impact of a declining yolk score as white birds ages, may have

felder hens formed the strongest and most frequent synchronous pairs (maximum edge weight = 12, with several dyads reaching ≥ 10 repetitions), followed by Ramelsloher (max = 9) and Altsteirer (max = 5). Notably, strong dyads (weight > 5) occurred almost exclusively in Bielefelder and Ramelsloher pens, whereas Altsteirer networks were dominated by low-weight, infrequent synchrony. Variation in individual nest-visit duration and daily laying routines is discussed as a methodological consideration, as it may influence overlap probability and therefore network structure. Overall, RFID-derived social networks provide a powerful tool to detect consistent synchrony patterns and potential social partnerships during egg laying. Future work will integrate genetic relationships to explore whether synchrony in nest use is associated with kinship.

Keywords: nest use; nest capacity; social network; RFID; local chicken breed

5254P Evaluation of egg production with enriched cages in Hy-Line W80

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Habitat enrichment is important for improving animal welfare; in egg-producing poultry systems, it is especially relevant due to the common production systems that involve large volumes of birds in reduced spaces. The objective of this study was to evaluate the effect of enrichment in caged production in Hy-Line W80 hens, 28 weeks of age, housed under two production systems: Enriched Cage (EC) and Conventional Cage (CC). Each treatment consisted of 10 replicates with 20 hens each, and the duration of the project was 8 weeks. Materials and Methods.

This study was conducted at the facilities of the Teaching, Research and Extension Center in Poultry Production of the Faculty of Veterinary Medicine and Animal Science at the National Autonomous University of Mexico. A naturally ventilated poultry house was used, where the birds were housed during the laying stage. The EC system used in this study corresponds to a housing model known as "Poultry Cage," with 261.56 in² per hen. In contrast, the CC system had 139.50 in² per hen. A repeated-measures linear model was used to evaluate the hens' productive characteristics and internal and external egg quality over the eight-week period.

Results.

Regardless of time, egg mass, laying rate, average egg weight, clean eggs, and dirty eggs showed no significant differences between treatments ($P>0.05$); however, feed conversion ratio (higher in CC), feed intake (higher in CC), and broken eggs (higher in EC) showed statistically significant differences ($P<0.01$). With the exception of broken eggs ($P>0.09$), all variables studied changed over time regardless of treatment, due to the evaluation period coinciding with changes in the hens' production weeks.

Conclusions.

The repeated-measures evaluation allowed extracting and analyzing the effect of the treatment. Egg production and production efficiency improved with enriched housing.

Keywords: mixed-effects linear models; repeated measures; egg quality

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