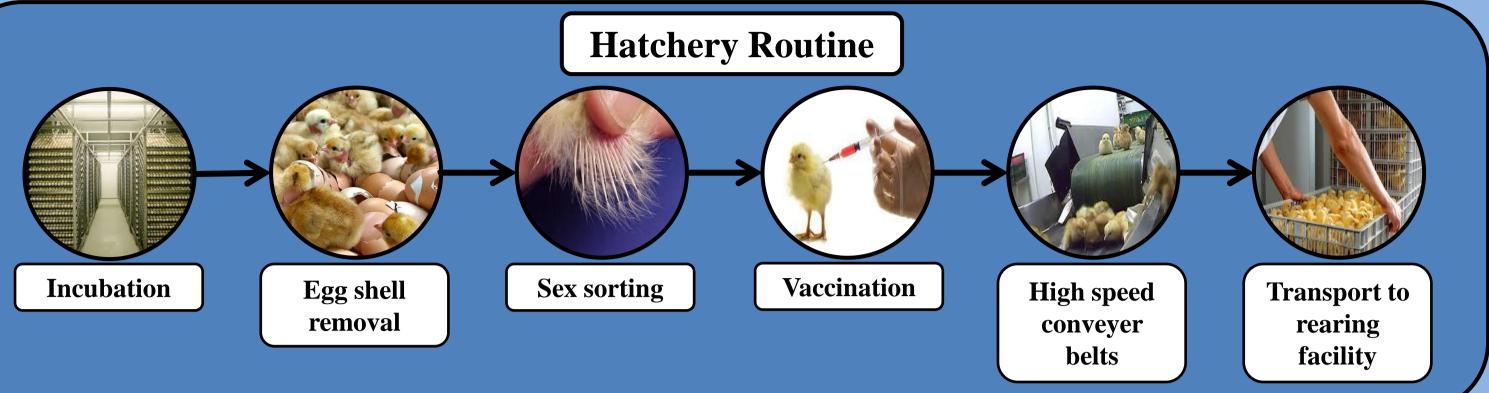


The Effects of Hatchery Routines on Commercial Leghorn Chickens

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Aim

The aim of this project was to assess the acute and chronic impacts of hatchery routines on commercial leghorn chickens by comparing behavioural and hormonal differences between chickens exposed to hatchery routines and a control group.

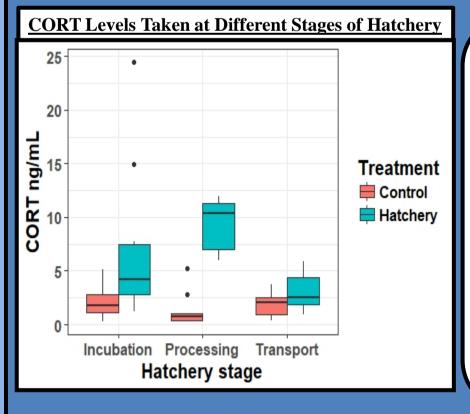
Results

Immediate Effects of Hatchery Routines

 Hatchery chickens had ↑ CORT than control chickens after Incubation and Processing

Acute Effects

- Hatchery ↑ weight
- Hatchery ↑ fear in Novel
 Arena testing
- Hatchery ↑ CORT response to restraint

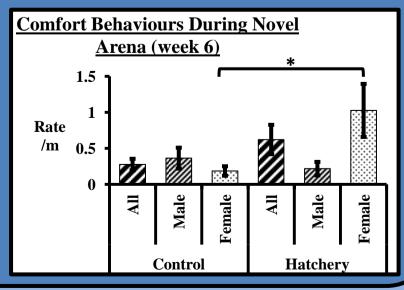


Chronic Effects

- Hatchery \(\) comfort behaviour in Novel Arena
- Hatchery ↑ CORT response to Restraint Test
- Hatchery ↓ Tonic Immobility time
- Hatchery \(\) feather damage
- Hatchery ↑ number eggs and
- ↑ Estradiol

Hatchery Males vs Females

- Females ↑ comfort behaviours in Novel Arena
- Males ↑ frequency of vocalisations in Tonic Immobility
- Males † feather damage



Conclusions

- 1. Hatcheries cause high stress response
- 2. Hatchery chickens were more stressed at 1 week old
- 3. Hatchery chickens may cope better with stress in later life
- 4. Males were more stressed by hatchery

