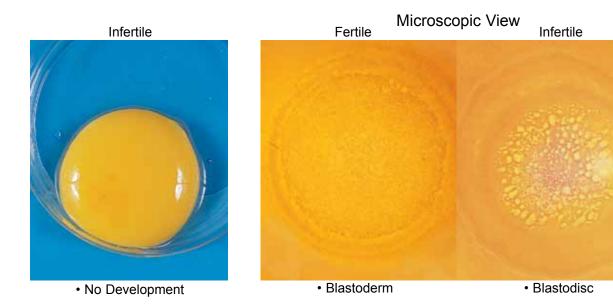
**Chick Embryo Development** 





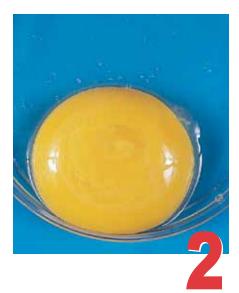


## DAY 1 EMBRYONIC DEVELOPMENT

Appearance of
Tissue Development

- Low fertility
- Pre-incubation
- Improper fumigation
- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Rough egg handling
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 2 EMBRYONIC DEVELOPMENT

- Tissue development very visible
- Appearance of blood vessels

- Low fertility
- Pre-incubation
- Improper fumigation
- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Rough egg handling
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 3 EMBRYONIC DEVELOPMENT

- Heart beats
- Blood vessels very visible

- Low fertility
- Pre-incubation
- Improper fumigation
- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Rough egg handling
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 4 EMBRYONIC DEVELOPMENT

• Eye pigmented

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





### DAY 5 EMBRYONIC DEVELOPMENT

 Appearance of elbows and knees

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 6 EMBRYONIC DEVELOPMENT

- Appearance of beak
- Voluntary movement begins

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 7 EMBRYONIC DEVELOPMENT

- Comb growth begins
- Egg tooth begins to appear

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins



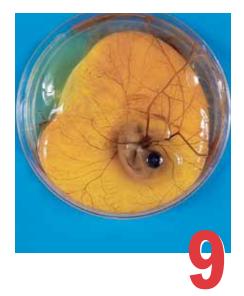


## DAY 8 EMBRYONIC DEVELOPMENT

- Feather tracts seen
- Upper and lower beak equal in length

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 9 EMBRYONIC DEVELOPMENT

- Embryo starts to look bird-like
- Mouth opening appears

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 10 EMBRYONIC DEVELOPMENT

- Egg tooth prominent
- Toe nails

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 11 EMBRYONIC DEVELOPMENT

- Comb serrated
- Tail feathers apparent

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 12 EMBRYONIC DEVELOPMENT

- · Toes fully formed
- First few visible feathers

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 13 EMBRYONIC DEVELOPMENT

- Appearance of scales
- Body covered lightly with feathers

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





### DAY 14 EMBRYONIC DEVELOPMENT

 Embryo turns head towards large end of egg

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Insufficient egg holding time
- Rough setting of eggs
- Contaminated eggs
- Nutritional-drugs-toxins





#### DAY 15 EMBRYONIC DEVELOPMENT

 Gut is drawn into abdominal cavity

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Contaminated eggs
- Nutritional-drugs-toxins





### DAY 16 EMBRYONIC DEVELOPMENT

- Feathers cover complete body
- Albumen nearly gone

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 17 EMBRYONIC DEVELOPMENT

- Amniotic fluid decreases
- Head is between legs

- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 18 EMBRYONIC DEVELOPMENT

- Growth of embryo nearly complete
- Yolk sac is still on outside of embryo
- Head is under the right wing

- Hatcher opened too much during hatch cycle
- Rough transfer
- Transfer cracks
- · Wet trays and hatchers
- Inconsistent transfer
- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 19 Embryonic Development

- Yolk sac draws into body cavity
- Amniotic fluid gone
- Embryo occupies most of space within egg (not in the air cell)

- Hatcher opened too much during hatch cycle
- Rough transfer
- Transfer cracks
- · Wet trays and hatchers
- Inconsistent transfer
- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 20 EMBRYONIC DEVELOPMENT

- Yolk sac drawn completely into body
- Embryo becomes a chick (breathing in air cell)
- Internal and external pip

- Hatcher opened too much during hatch cycle
- Rough transfer
- Transfer cracks
- · Wet trays and hatchers
- Inconsistent transfer
- Improper turning
- Improper temperature
- Improper humidity
- Improper ventilation
- Inverted eggs
- Contaminated eggs
- Nutritional-drugs-toxins





## DAY 21 EMBRYONIC DEVELOPMENT

- Chick hatches
- Feathers dry
- Should be pulled from hatcher before becoming dehydrated
- No longer an embryo will require feed, water, and controlled climate
- Bird ready for placement into house



# cobb-vantress.com



L-7010-04