

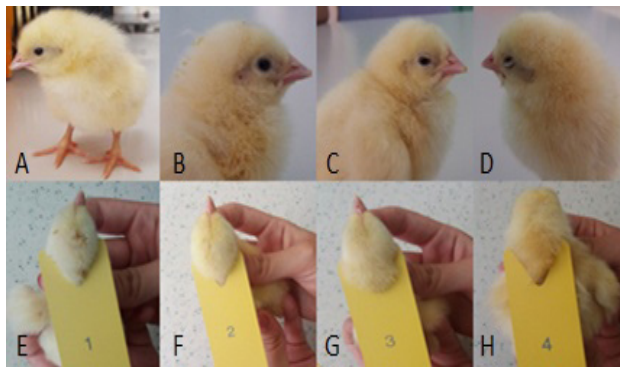


## Supplementary Material

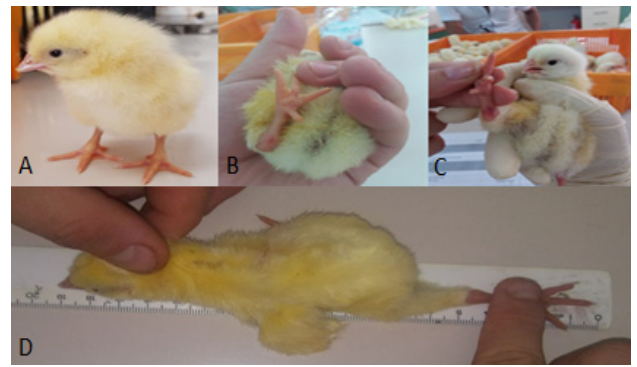
# Effects of Chick Quality and Pre-Starter Feed on Fattening Performance and Carcass Characteristics of Broilers

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Supplementary Fig. 1. Eye condition (A): Perfect eye, Score = 30; (B): Clear but matt eye, Score = 15; (C): Low or matt eye, Score = 15; (D): Fully enclosed eye, Score = 0) and feather color (E: DSM-S 1, Score = 10; F: DSM-S 2, Score = 15; G: DSM-S 3, Score = 15; H: DSM-S 4, Score = 20).




Supplementary Fig. 2. Leg structure (A): Perfect leg, Score = 30; (B): Redness on the leg, Score = 15; (C): Bruising on the leg, Score = 15) and chick length (D: Short chick length (less than 19.2 cm), Score = 0; Medium chick length (between 19.2-19.6 cm), Score = 10; Long chick length (longer than 19.6 cm), Score = 20).

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**Supplementary Table I. Ingredient of the feeds used in the experiment.**

Ingredients (g/kg)	Starter	Grower	Finisher
Corn	450.70	481.80	536.10
Soybean meal-46	239.70	166.10	96.50
Full-fat soybean	160.70	198.30	210.00
Wheat Flour-feed grade (46-52)	50.00	70.00	80.00
Corn Gluten Meal-60	30.10	19.20	15.00
Sunflower Meal-34	20.00	20.00	25.00
Meat-Bone Meal-35	20.00	20.00	17.50
Limestone (Granule)	6.70	5.90	5.50
Di-Calcium Phosphate-18	5.00	2.40	-
Lysine Sulphate	4.10	3.80	3.60
Common Salt	2.70	2.50	2.50
Toxin Binder	2.00	2.00	1.50
Liquid Methionine (MHA)	1.80	1.70	1.50
DL-Methionine	1.50	1.50	1.30
L-Threonine	1.10	0.90	0.70
Trace Mineral Mixture <sup>a</sup>	1.00	1.00	1.00
Vitamin Mixture <sup>b</sup>	1.00	1.00	1.00
Coccidiostat (Maxiban)	0.60	0.60	-
Sodium bicarbonate	0.50	0.50	0.50
Choline	0.50	0.50	0.50
Organic acid (Biacid)	0.30	0.30	0.30

(a) Each kg of trace mineral mixture contains 100.000 mg Manganese, 80.000 mg Iron, 80.000 mg Zinc, 8.000 mg Copper, 200 mg Cobalt, 1000 mg Iodine, 150 mg selenium (sodium selenite), 500.000 choline chloride.

(b) Each kg of vitamin mixture contains 13.500.000 IU Vitamin A, 4.000.000 IU Vitamin D<sub>3</sub>, 100.000 mg vitamin E, 5.000 mg Vitamin K<sub>3</sub>, 3.000 mg Vitamin B<sub>1</sub>, 8.000 mg Vitamin B<sub>2</sub>, 60.000 mg Niacin, 18.000 mg Ca-D-Pantotenate, 5.000 mg Vitamin B<sub>6</sub>, 30 mg Vitamin B<sub>12</sub>, 2.000 mg Folic Acid, 200 mg D-Biotin ve 100.000 mg Vitamin C.

**Supplementary Table II. Nutrient compositions of the feeds used in the experiment.**

Nutrients (g/kg)	Starter	Grower	Finisher
Dry matter	883.10	881.90	880.10
Crude protein	247.30	225.20	199.90
Crude fiber	37.80	36.30	34.90
Ether Extract	56.90	65.70	78.80
Crude Ash	55.50	50.60	44.40
Starch	323.00	351.40	384.00
Metabolizable energy (Kcal/Kg)	2980	3070	3200
Lysine	14.50	13.10	11.50
Metionine	6.90	6.20	5.20
Metionine + Cystine	11.00	9.90	8.60
Threonine	10.30	9.20	8.00
Valine	11.30	10.10	9.20
Isoeucine	10.10	9.00	8.20
Arginine	15.10	13.60	12.80
Tryptophan	3.00	2.70	2.50
Leucine	15.90	14.40	12.60
Calcium	8.90	7.90	6.80
Total phosphorus	7.60	7.00	6.30
Available phosphorus	4.50	4.10	3.50
Sodium	1.70	1.60	1.60