

# Feed Conversion Ratio (FCR) of Broiler Chicken on Supplementation of Ajwain (*trachyspermum ammi*)

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**Abstract**—A biological research was conducted to analyze the effect of supplementation of Ajwain on the feed conversion ratio of broiler chicken. Two hundred and twenty five one-day old unsexed broiler chicks were used on a completely randomized design in 5 groups with 3 replicates, each consisting of 15 broilers. The treatments included the control group [T<sub>1</sub>] (basal diet) and four groups with basal diet + Ajwain powder @ 0.1% in feed [T<sub>2</sub>], basal diet + Ajwain powder @ 0.2% in feed [T<sub>3</sub>] and basal diet + Ajwain seeds soaked in drinking water over nightly @ 0.1% [T<sub>4</sub>] and basal diet + Ajwain seeds soaked in drinking water over nightly @ 0.2% [T<sub>5</sub>] respectively. Significant ( $P < 0.05$ ) effect of Ajwain supplementation on FCR of birds was observed during first 5 week of experiment. The mean FCR values of T<sub>4</sub> and T<sub>5</sub> were significantly higher ( $P < 0.05$ ) as compared to control group (T<sub>1</sub>) at 7, 14 and 21 days of experiment. The FCR value was found to be lowest in control group while, highest in group fed basal diet + Ajwain seeds soaked in drinking water @ 0.2% over nightly during first 3 week of experiment. FCR values for 4<sup>th</sup> and 5<sup>th</sup> week showed statistically significant ( $P < 0.05$ ) difference, highest in group fed basal diet + Ajwain seeds soaked in drinking water @ 0.2% over nightly and lowest in group fed basal diet + Ajwain seeds soaked in drinking water @ 0.1% over nightly. FCR values for last week showed statistically similar results among all the treatment groups. The FCR values ranged from 1.28 (T<sub>1</sub>) to 1.46(T<sub>5</sub>), 1.51 (T<sub>1</sub>) to 1.68 (T<sub>4</sub>), 1.62 (T<sub>1</sub>) to 1.77 (T<sub>4</sub>), 1.73 (T<sub>5</sub>) to 1.87 (T<sub>4</sub>), 1.76 (T<sub>5</sub>) to 1.89 (T<sub>4</sub>) and 1.87 (T<sub>5</sub>) to 1.93 (T<sub>4</sub>) at 7, 14, 21, 28, 35 and 42 days of age, respectively.

**Keywords:** Ajwain, broiler chicken, feed conversion ratio.