15. 抗生物質クロラムフェニコールの鶏の成長促進に及ぼす影響について

永田信一 田中幸

にわとりひなの成長促進、飼料効率の向上、産卵数の産卵率の増加を目的として、各種抗生物質の添加が行われているが、体成長、体重増加に関しては仮設の段階ではあるが、それら促進効果は栄養素の摂取に干渉する腸内グラム菌性菌の繁殖を抑えることが望ましいことであると言われている。現在までにベンシリン（グラム菌性）、パーセリアマイシン（グラム菌性）、パラストラシン（グラム菌性）、クロールテトラサイクリン（広範囲抗菌スペクトラム）等が利用されているが、当場で行ったところの抗生物質は今まで試験例のない広範囲抗菌スペクトラムを持つクロラムフェニコールを用いて試験を行った。

(4) 鳥種

W L × N R I（♀×♂）の殻でW L は浅川鶏系B系統、IR I はパーセリア系のものである。

(5) 羽量及び羽数

試験：対照ニ区鳥名々50羽で、飼育J.P.J（F 100°、RH 60—70%で8日間S式発生機でRH 78—50% F 98°で発化発生させた

(6) 試験期間

第1回　昭和38年6月8日～9月21日　105日間
第2回　昭和39年2月14日～5月22日　予定）の経過と2回試験

(7) 管理

育雛式Y5型ハンチケットオーブナーで機械給餌で3週目迄は1日

毎日1回。飲水も機械給水で、3週目後は1日3回、区画35羽（45

×44.5×170cm）で1週後15羽にし3週後55区画10羽

（38.5×44.0×145cm）にした。6週目後36羽×36の育雛室

（平飼式）で運動場3.6m×9.0mがあり自動給餌器を各々2

ヶつつ設置した。毎週1回個体別に胃バンド脚帯バンドを附したひ

なを体重測定し週間飼料摂取量を秤量した。

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試験区にはクロラムフェニコール
20 mg/g 混入

*合成Aミックス50
1 g中 VA 5,000 I.U.
D 1,600 I.U.

** VB2、ニコチン酸、
還元型リシン、バントテイン酸、葉酸、D.B.T.

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### 2. 体重測定の結果

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<td>対照区</td>
<td>試験区</td>
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<tr>
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<td>1346.8±165</td>
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<td>15週</td>
<td>46</td>
<td>1562.2±162</td>
<td>45</td>
<td>1444.3±178</td>
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</table>
3. 統計処理
試験対照 各々50個づつの 2区制であるので t一検定、F一検定でも同じ結果になるが、8週令時をGで 15週令時をFで試算した。

a. 8週令時に於ける t一検定

<table>
<thead>
<tr>
<th>区</th>
<th>n₁</th>
<th>n₂</th>
<th>( \overline{x}_1 )</th>
<th>( \overline{x}_2 )</th>
<th>( s^2_1 )</th>
<th>( s^2_2 )</th>
<th>( 0, = 6_2 )</th>
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</thead>
<tbody>
<tr>
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<td>30.515</td>
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<td>393949</td>
<td>7818.7</td>
<td>8564.1</td>
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</table>

\[ \bar{t} = \frac{\bar{x}_1 - \bar{x}_2}{s} = 10.7 \] の値は
\[ t_{0.1} = 1.68, t_{0.05} = 2.02 \] より小さいので有意差はない。

b. 15週令時に於ける F一検定

<table>
<thead>
<tr>
<th>区</th>
<th>n₁</th>
<th>n₂</th>
<th>( \overline{x}_1 )</th>
<th>( \overline{x}_2 )</th>
<th>( s^2_1 )</th>
<th>( s^2_2 )</th>
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</thead>
<tbody>
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<td>64.980</td>
<td>71.860</td>
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<td>95268.800</td>
<td>113474.800</td>
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</tbody>
</table>

\[ CT = \frac{X^2}{n} = 205.661.3 \]
\[ totalSS = \sum x^2 - CT = 3082300 \]
\[ treatment SS = \frac{X^2}{n} + \frac{X^2}{n} - CT = 427.624 \]
\[ Error SS = 3082300 - 427.624 = 2654676 \]

<table>
<thead>
<tr>
<th>处理</th>
<th>427.624</th>
<th>427.624</th>
<th>14.3</th>
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<tr>
<td>处理内</td>
<td>2654676</td>
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考 察

試験の性質上、飼料中には栄養剤以外の何等の抗生物質、抗菌剤類等は添加されておらず、当場肉卵法による飼育法では6週令以後は
平飼いにする方針なので、環境上コクシジウムの発生を懸念されたがその
数値はなかった。然し、試験終了時各区の平均体重及び体重の観察その他の
実験観察を調査した結果、軽度な罹患は認められる。且発育状態は6
週令では差が少なく、その後末期に差があったが、試験期間が薬薬期の脅す
う上発育期に行たのでクロラムフェニコールの添加効果が程度見られ
たと言ってよいと思う。此の試験は38年度、39年度とも増殖し試験
を行う予定であるが、異にする20%のローレベル添加では各種病害の
予防効果が見られたとしても、発症的ある抗生物製剤効果は無いので、生産的な
観点、原虫類に対する治療、抗生物製剤を期待することは本試験の目的外と
するところであろう。

結 論

(i) 訓練発育期断頭5週令時於て1％水準にて有意差ありクロラムフェニ
コール添加区の方が体重成長度がよかった。

(ii) 最小自乗法による定差図作成の結果発育差を認めた。