The lack of homogeneity in growth patterns and meat quality is a main problem in the profitability of modern pork industry, specially in Iberian pigs. Sex and the Birth-Weight (BW) variability are principal causes.

**BACKGROUND**

The **lack of homogeneity** in growth patterns and meat quality is a main problem in the profitability of modern pork industry, specially in Iberian pigs. Sex and the Birth-Weight (BW) variability are principal causes.

**OBJECTIVE**

The aim was to evaluate if the negative effect of BW variability may be alleviated by segregating pigs in the growing period according to BW.

**DESIGN**

407 Iberian x Duroc piglets were separated in:

- Segregated group (S)
  - Small
  - Medium
  - Large
- Non-Segregated group (NS)
  - Small
  - Medium
  - Large

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**RESULTS**

Significant differences between:

- Non-Segregated vs Segregated
- Sex
- Interaction

Significant differences were found in Weight, ADG and the Thickness of loin and backfat.

**CONCLUSIONS**

Performance was greater in Segregated pigs than in Non-Segregated pigs.

Males showed better growth patterns than females.

Studies at slaughterhouse are required to clarify possible effects of segregation by BW on meat quality.