Adiposity of isolated adipocytes from fed hypertensive rats with the same age.


Abstract
There are studies showing the relationship between high adiposity and hypertension, none about the lipodystrophy in spontaneously hypertensive rats. We analyzed body weight, food intake, white fat pads and morphometry of isolated adipocytes from fed rats in two different hypertensive rat models, induced and genetic. Hypertensive models were lighter, intake less food and shower lower adiposity than controls, and the genetic control was heavier and consumed less food than Wistar.

Key words: Hypertension, adiposity, rats.

Introduction
There are studies in the literature showing the relationship between hypertension and adiposity1 however, there are no studies evaluating the lipodystrophy in spontaneously hypertensive rats. The aim of this work is evaluate body weight, food intake, white fat pads and morphometry of isolated adipocytes from fed rats in two different hypertensive rat models, induced (HI) and genetic (HG). Their respective controls are Wistar (W) and Wistar Kyoto (WKY). HI rats were treated with L-Name per os2.

Statistical analysis: As some results presented no normal distribution, we performed non-parametric test, as Mann-Whitney or Anova followed by Dunn´s. Anova followed by Tukey or Student t-test applied to normal tests. Costa et al., 20152 performed similar assays in fasted rats.

Results and Discussion
Hypertensive models were lighter, intake less food and shower lower adiposity than controls, and the genetic control was heavier and consumed less food than Wistar.

Conclusions
The fed status interfered in morphometric results, and the peri-renal and mesenteric differences showed by Costa et al., 2015 were not observed in this work.

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