

THEME 10 | TECHNOLOGY, INDUSTRY, PRODUCTS AND PROCESS

**Pig carcass condemnation related to animal welfare problems during
preslaughter handling in Paraná**

Mariam El Tasse*¹, Maria Alice Schnaider¹, Vanessa Souza Soriano¹, Elaine Cristina de
Oliveira Sans¹, Carla Forte Maiolino Molento¹

¹Universidade Federal do Paraná, Curitiba/PR, Animal Welfare Laboratory

*Master student – eltassemariam@gmail.com

Carcass condemnation is monitored under the Federal Inspection Service (SIF) at slaughterhouses and data are registered at the SIF inspection online platform (SIGSIF). Selected condemnation data within SIGSIF may indicate animal welfare problems during pre-slaughter handling; however, these data have not been used to that goal in Brazil yet. The aim of this study was to analyze SIGSIF data potential to animal welfare purposes, as well as quantifying swine carcass condemnation related to animal welfare problems during pre-slaughter handling in Paraná, Brazil. Monthly reports of pig carcass condemnation were collected using the SIGSIF from January 2011 to December 2016 in Paraná, Brazil. These causes, according to SIGSIF terminology, were anemia; myopathy; soft and exudative meat, dark; firm and dry meat; contusion; traumatic injury; non-ambulatory animals and dead on arrival. A total of 602,006 individual carcass condemnations were observed, 15.0% (90,390) of which due to causes related to welfare problems during pre-slaughter handling. The most prevalent condemnation problem related to pig welfare was contusion, reported on 7.0% (42,255) carcasses, followed by traumatic injury with 5.0% (30,504) condemned carcasses and anemia with 1.5% (9,299) condemned carcasses. The less prevalent problem was myopathy and it was observed on one carcass. Dead on arrival is an important animal welfare indicator and occurred in 2,327 pigs of total individual carcass condemnations. The results show the potential of the SIGSIF data to be used to animal welfare purposes, also indicating the need for greater attention during pig pre-slaughter handling in Paraná, Brazil.

Keywords: Contusion, Federal Inspection Service, swine

Acknowledgments: The project was funded by a grant to the first author from Capes and the third author was funded by Capes Forensic Sciences Grant.