

Survival of *Taenia solium* cysticerci in carcasses of pigs kept at 4 C.

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摘要

Abstract

The survival of cysticerci of *Taenia solium* in the carcasses of 3 experimentally infected pigs (one Small-Ear-Miniature and 2 Landrace Small-Ear-Miniature) kept in a refrigerator at 4 deg C was determined. The viability of the cysticerci was determined by observing evagination and active movement of the scolex under a fluorescent light after digestion in pig bile for 5-15 min at room temperature. A total of 3385 cysticerci were examined, and 3007 (89%) were found to be viable. Although no viable cysticerci were found after day 30, only 4 were examined after this time, and 58.8% of the 106 examined between day 26 and day 30 were viable. Moreover, more than 80% of the 3275 examined between day 1 and day 25 were viable. Over 99% of cysticerci from the pig killed 196 days pi were viable; the corresponding figures for those killed after 88 and 131 days were 82% and 66%. These findings indicate that taeniasis can be transmitted through eating raw or undercooked pork or viscera of pigs following refrigeration at 4 deg C for less than 30 days.