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## Veterinari Medicina

**Artificial perforations of the stomach in pigs and rats and their covering by the abdominal wall**

Fortýnř K., Hruban V., Horák V., Tichý J.

Veterinari Medicina, 46 (2001): 75-77

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The stitching of artificially created opening in the stomach to the parietal peritoneum has been experimentally examined so that the missing resected part was covered with the abdominal wall. Stomach contents were in direct contact with the peritoneal surface. In contradiction to common opinions (the rise of peritonitis and subsequent death) all experimental animals (six pigs and ten rats) survived the operation without any apparent complications. Within eight weeks following the laparotomy (“a second look”), the artificial perforation was narrowed down partly with outgrown gastric mucosa and partly with new generated fibrous tissue. The results of

this strange experiment turn down common convictions about development of generalised peritonitis. The experiments are not an end in itself but offer possible use in a clinical experiment in humans. A casuistic of one patient with the perforated ulcer-carcinoma is discussed in this report.

### **Keywords:**

pig; rat; stomach; artificial perforation; surgical intervention

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