

Histological study of the heated meat products of Mazandaran Province of IRAN

Rezaian, M *

Rokni, N

*-Division of Histology, Dept of Anatomy, Faculty of Vet Medicine ,Tehran University,Tehran,IRAN,Pobox:14155-6453

Introduction & Objectives: Heated meat products such as sausages are the most common and popular products all over the world. The quality and quantity of components of these products should be in parallel with standard and food hygiene regulations. Addition of unpermitted animal tissues such as udders, lung, spleen, etc into these products which is sometimes used by producers only can be detected histologically. Diagnosis of unauthorized tissues in heated meat products in Mazandaran Province of IRAN was the main goal in our study.

Materials & Methods:

Products of 7 existing factories in Mazandaran Province of IRAN were histologically examined. Each products were divided into 3 equal parts and from each parts 2-3 samples with 1mm³ thick were taken and fixed in 10%buffered formalin. Routine histological techniques were used and 6um thick sections were stained with heamatoxylin-eosin and studied under light microscope.

Results & Discussion: Udder, lymph node, salivary gland, rumen, skin and its accessories were those unauthorized organs which were detected on products of some of those factories ,figs(1-4).

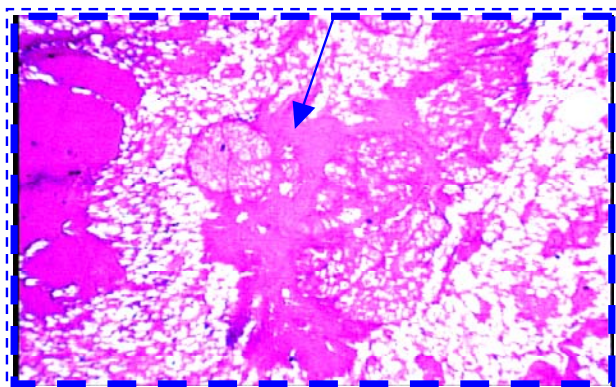


Fig 1:Photomicrograph of heated meat product containing udder(arrow) ,H&E.

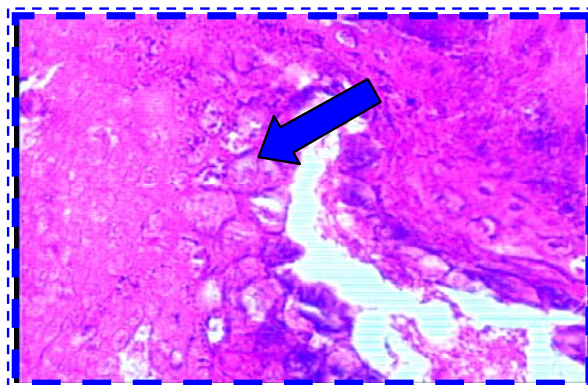


Fig 2:Photomicrograph of heated meat product containing rumen, the epithelium of rumen is observed(arrow),H&E.

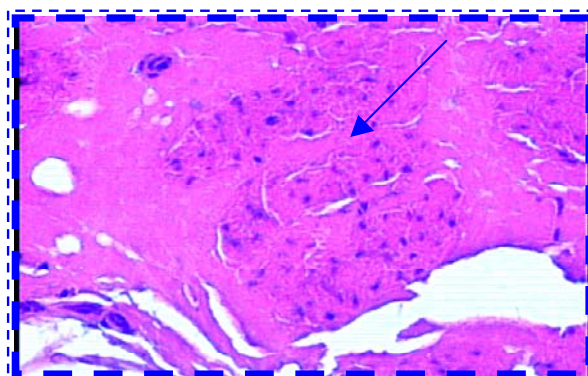


Fig 3:Photomicrograph of heated meat product containing rumen,the smooth muscles of rumen is observed(arrow),H&E.

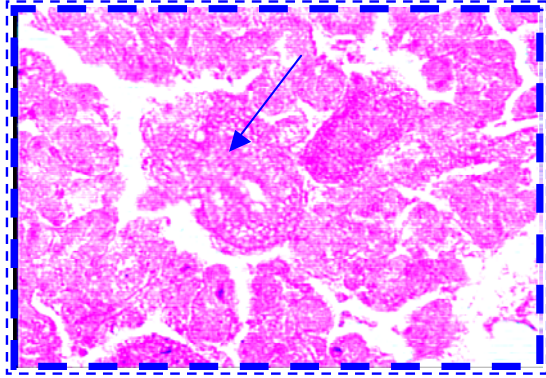


Fig 4:Photomicrograph of heated meat product containing salivary gland (arrow),H&E.

Key words: Heated meat product, Histology, Unauthorized tissue

References:

- 1-Bergeron,M;(1976):Ann.Fals.Exo.Chim.69:669-671
- 2-Dayyani,A;(1998):proc of 4th world congress food borne infections and intoxications, Berlin, Vol 2,:1073-1078
- 3-Krefeld,D.K;(1989) ,Fleisch wirtschaft,66(2):1748
- Geogier,L;(1995),Khranitelana promish lenost,44(1):15-18
- 4-Julini,M;(1979),Annali della facolta di medicina veterinaria di torino,26:231-244