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A Case of Appendiceal Carcinoid Tumor

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Carcinoid is the most common tumor in the appendix and most often occurs in young patient. A case of mesoappendiceal invasion of carcinoid of appendix is presented and the literature review for indications for right hemicolectomy.

A 38-year-old man was admitted to hospital after 3 day with right lower quadrant pain. The appendectomy was performed. At gross pathologic examination the appendix measured 7.5 cm in length and 1.6 cm in diameter. The serosal surface is congested and covered with yellow white fibrinoid material. The cut surface revealed a focal thickening of wall, measured 0.7×0.5 cm at 2 cm from tip of the appendix. Light microscopy revealed a typical carcinoid tumors infiltrating periappendiceal fat tissue. The patient was readmitted 4 weeks postoperatively for an elective right hemicolectomy. At exploratory laparotomy, there were no palpable lymph nodes. Exploration of the distal ileum, small bowel, and remaining abdomen did reveal any other carcinoid tumors. *J Korean Soc Coloproctol* 2003; 19:108-111

Key Word: Carcinoid tumor, Appendix

1907 Oberndorfer²가
 'karzinoide'
 가 1920 . 1938 Merling
 Masson³ ' (argen-
 taffin) 가 ,
 가
 가
 가 2 cm
 , 가 2 cm
 가
 가 가 ^{4,5}
 38
 0.7 cm
 2

0.5%

1

: 1090-1

38 가 3

(: 780-714)

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15,300/mL,

15.3 g/dL

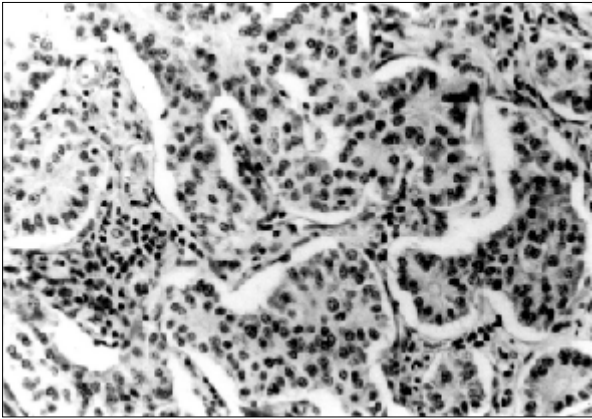


Fig. 1. Tumor cells reveals small uniform round nuclei, a moderate amount of finely granular cytoplasm and inconspicuous fine nucleoli (H&E stain × 100).

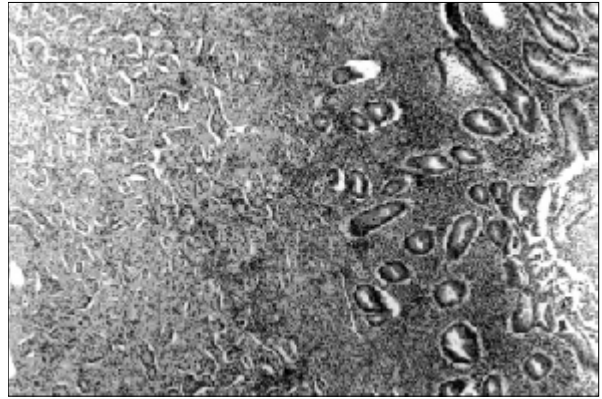


Fig. 3. Small rests of tumor cells are mainly present in the submucosa and muscular layer (H&E stain, × 100).

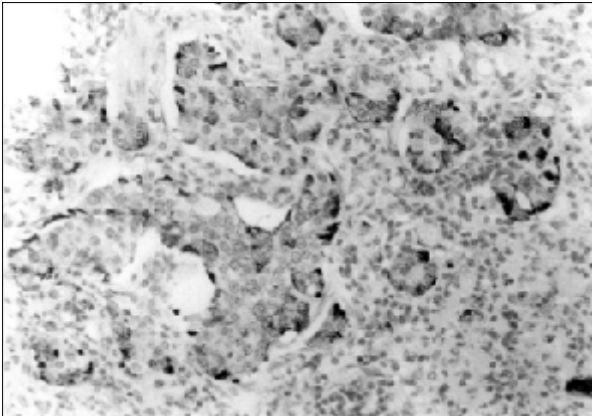


Fig. 2. On immunohistochemical stain for chromogranin many tumor cells disclose strong positive reaction in the cytoplasm (× 100).

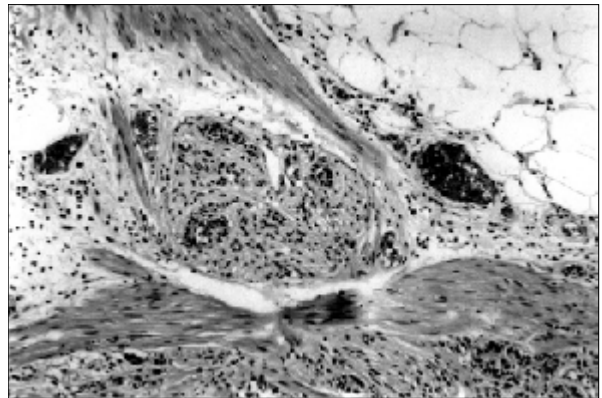


Fig. 4. Tumor cells finally infiltrate into the mesoappendiceal adipose tissue (H&E stain × 100).

46.2% , AST/ALT 34/51

7.5 cm 가 1.6 cm ,
2 cm 0.7×0.5 cm

(Fig. 1, 2)

(Fig. 3, 4).

1 cm

가 (neuro-endocrine) ,⁶

가

가 , 가 가
 0.3~ .71% 가 .⁷
 (argentaffin cells)
 가 .¹⁴ Roggo ¹⁵
 2% 가 .⁴ 41 8 ,
 33 가 4 가 ,
 22 .⁸
 Modlin ⁹ 가 , 19 .
 (73.7%) (25.1%) , 1/3 32 가
 (25.1%), (25.1%), (12.6%) 1/3 3 . 41
 , 5 (85.9%), 2 가 2 cm ,
 (76.6%), (72.2%) 가 ,
 . Dawes ¹⁰ 86 - (28) , 40 , 1
 (22) , (16) , 가 2 cm 가
 . Glasser ¹⁶
 - 46 (0.6%) 가
 가 가 8.8% 가
 . 154 가 . 11
 (43%), (30%), (11%) , ,
 93 (60%)가 ,
 가 0.5% .¹
 (48%). 1 cm 가 2 가
 .¹¹ Onley ¹² ,
 (30%), (23%), (9%) ,
 29% , . Rutledge ¹⁷
 40%, 35% , 80%
 가 2 cm , 가
 가 가 가
 . Saha ¹³ - (27%), 가 2 cm
 112 (27%), (21%), (12%), (9%), , 1 cm
 (4%) , 75% 가 , 77%, 1 cm 6%, 1~
 , , 2 cm 33% 가 .¹⁸
 2 cm ²³ 5 2 cm 1
 가 가 가
 94%가 가
 ,
 1968 Moertel ¹⁴ 가 2 cm , 1 cm
 가 가 , 1~2 cm
 40 ,
 (incidental appendectomy)
 가 , Thirlby ¹⁹ 2 cm

