

갑상선 수질암의 술 후 경과에 있어서 Calcitonin의 유용성

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Significance of Calcitonin for Postoperative Follow-Up of Medullary Thyroid Carcinoma

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—ABSTRACT —

Calcitonin is secreted by thyroid C cell and medullary cancer cell. For the diagnosis of tumor recurrence in MTC patients, the postoperative calcitonin determination is of central importance. CT value decreasing into the normal range are regarded as evidence of complete tumor extirpation, also called biochemical cure. However, there is persistent hypercalcitoninemia which means the presence of metastatic foci in the body after resection of medullary thyroid carcinoma. This study will examine the clinical availability of level of calcitonin after surgery of medullary thyroid carcinoma. (J Clinical Otolaryngol 2002;13:199-203)

KEY WORDS : Medullary thyroid carcinoma · Calcitonin.

1962 Copp
 calcitonin
 calcitonin
 .¹⁾ C 1998 11 2002 6 3 7
 calcitonin (tumor marker) 5
 , , calcitonin
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 증 례 1 :
 27 (CJ Park)가 2001 7
 대상과 방법
 증 례

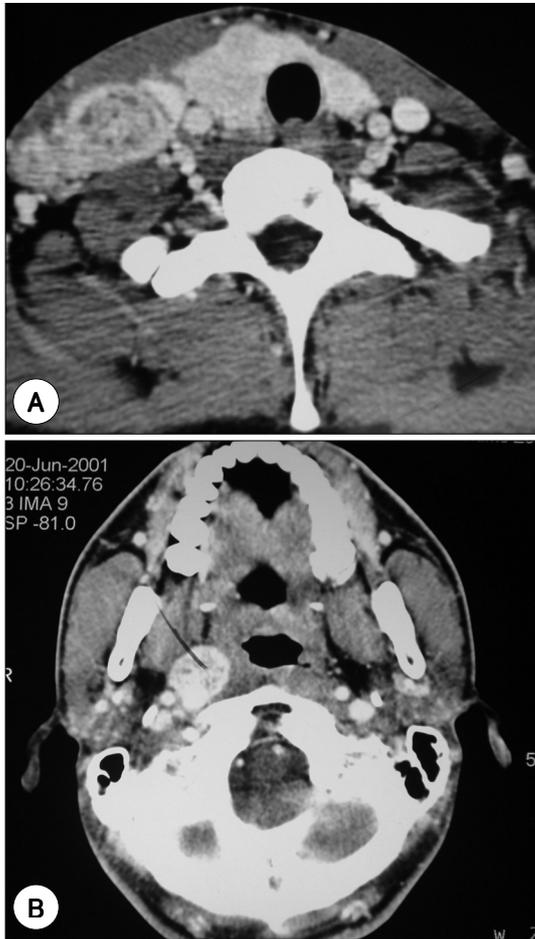


Fig. 1. CT findings of case 1. Right thyroid mass and large metastatic node in level III (Fig. 1A). Right retropharyngeal lymph node is enlarged by metastasis of medullary thyroid carcinoma (Fig. 1B).



Fig. 2. Evaluation with PET at postoperative 6 months. There are abnormal uptake in left paratracheal node and right superior mediastinum (arrows) which are outside of first surgery.

level -
 (Fig. 1A, B).
 calcitonin
 (central neck dissection),
 calcitonin
 894 pg/ml , 3

calcitonin
 MRI,
 PET
 (Fig. 2)
 lateral approach
 (Fig. 3).
 calcitonin 894
 pg/ml
 가

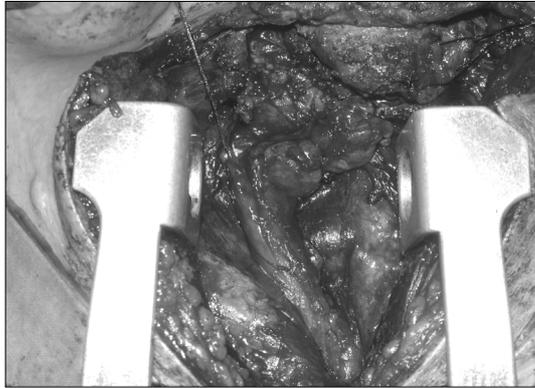


Fig. 3. Superior mediastinal dissection by sternotomy. Metastatic mediastinal nodes are identified and dissected.

증례 2 :

42 (GH Hwang)가 97 4
 2001 7
 . CT level ,
 가 calcitonin
 810 pg/ml .

(Fig. 4).

shaving
 2 62 pg/ml
 , POD 7 3 98 pg/ml 108
 pg/ml 가

증례 3 :

43 (BS Yoon)가 2000 11
 (2 × 2 cm) .
 calcitonin
 810 pg/ml .
 calcitonin
 31 pg/ml, 3 11 pg/ml , 8
 4.5 pg/ml . 20

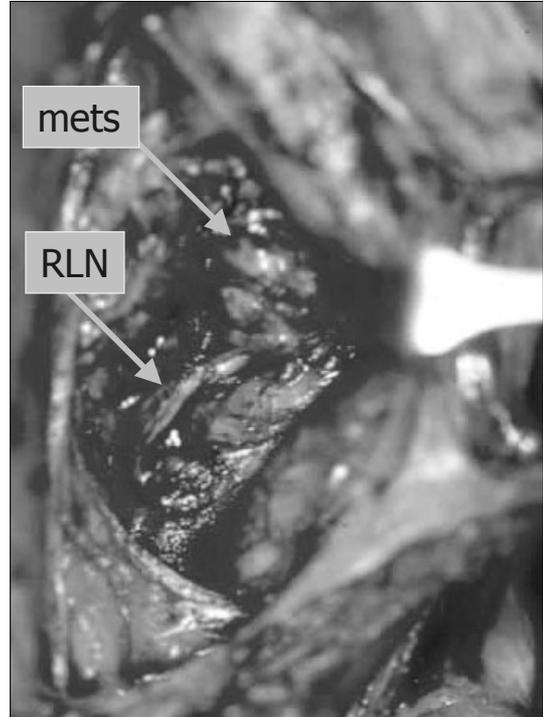


Fig. 4. Paratracheal dissection in case 4. Right RLN (recurrent laryngeal nerve) is invaded by a metastatic node. Shaving procedure was performed leaving microscopic diseases.

증례 4 :

32 (SC Kim)가 CEA
 (2 × 2 cm) ,
 2001 2
 . calcitonin 987 pg/ml
 14, 15 31, 15 pg/ml 가
 17

증례 5 :

62 (KY Cho) 4 (4 ×

4 cm) level 1998 11

3, 9 667, 80 pg/ml 46

calcitonin 가 가
calcitonin 가 가

calcitonin

고 찰

. Marzano selective venous catheterization, 131 - I - metaiodobenzylguanidine, 99 mTc(V), dimercaptosuccinic acid scintigraphic study⁶⁾

. Girelli²⁾ 22 calcitonin 가 14.2

calcitonin 가 31

calcitonin 가 11

calcitonin 가 5, 10 90%, 86%

. Stepanas calcitonin 가 가

3-5)

. Cohen 226 calcitonin PET calcitonin 1000 pg/ml 가 25 mm, 1000 pg/ml 7 mm 가 10.5%, 가 3.3%, 100 pg/ml 3.0 mm

. PET calcitonin 50 pg/ml 45 44 cal- citonin 가, 50 pg/ml 120 50 calcitonin 가 cal-¹⁾ citonin 가 1 calcitonin 50 pg/ml calcitonin

