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(Fig. 1),
2 mm

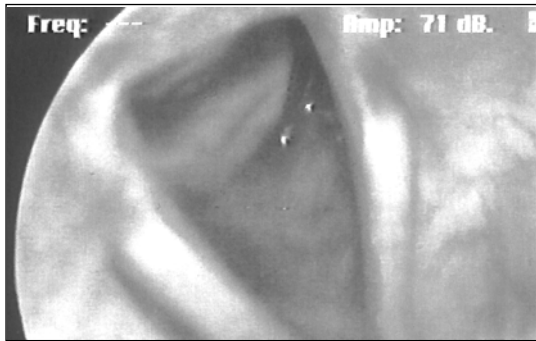


Fig. 1. Stroboscopic finding shows no evidence of immobility of true vocal cord and active bleeding sign from the larynx and the trachea.

(Fig. 2).

(Fig. 3).

5
(Fig. 4),

1.5 cm

1 cm

(Fig. 5).



Fig. 2. Conventional X-ray of the neck shows soft tissue emphysema at retropharyngeal and paratracheal space without evidence of airway obstruction or foreign body.

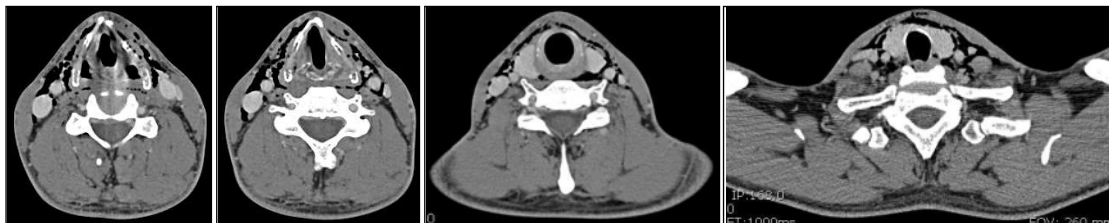


Fig. 3. Neck CT finding shows soft tissue emphysema on both parapharyngeal space and carotid space, paroesophageal space and soft tissue between strap muscle and thyroid gland.

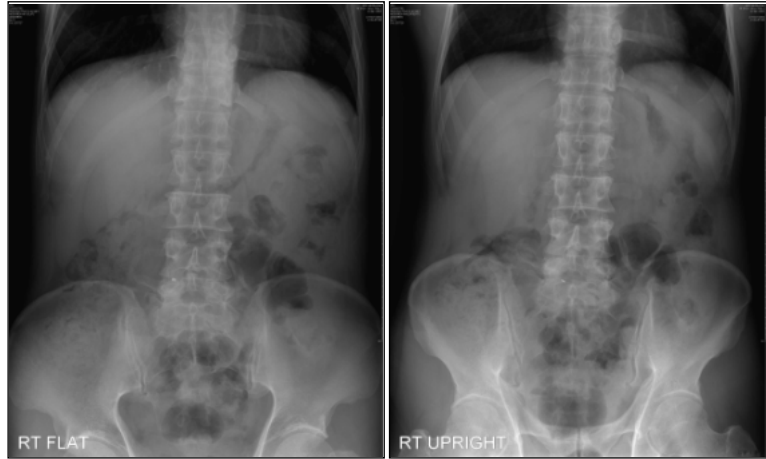


Fig. 4. Conventional X-ray of the simple abdomen shows radioopaque shadow on right side of 5th lumbar vertebra.

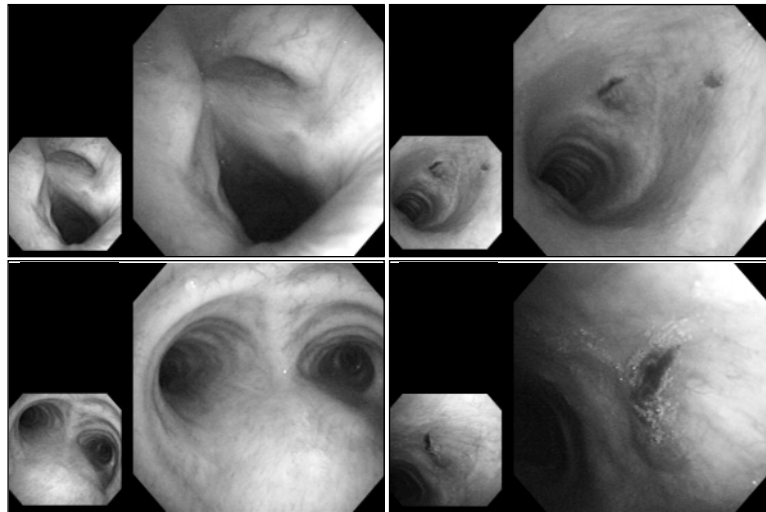


Fig. 5. Finding of Bronchoscopic examination shows laceration 1.5 cm below the true vocal cord but no active bleeding on site of laceration. No foreign body is showed on trachea and all bronchial trees.

5

고 찰

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3가 , 1)
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 , Bent 3) 1)
 , 2) , 3)
 3)7) , 4) , 5) , 6)
 Park 4) 가 , 7)
 8)9) ,
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 , Cherian 10) . Stanley 13)
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 , Thomson 가 1
 100% 가 12)
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 . Park 4)
 Bent 3)

결 론

중심 단어 :

REFERENCES

- 1) Jewett BS, Shockley WW, Rutledge R. *External laryngeal trauma analysis of 392 patients. Arch Otolaryngol Head Neck Surg 1999;125 (8):877-80.*
- 2) Schaefer SD. *The acute management of external laryngeal trauma. Arch Otolaryngol Head Neck Surg 1992;118:598-604.*
- 3) Bent JP, Silver JR, Porubsky ES. *Acute laryngeal trauma: A review of 77 patients. Otolaryngol Head Neck Surg 1993; 109:441-9.*
- 4) Park HT, Song DW, Kim JG, Cho WC. *A clinical study of the laryngeal trauma. Korean J Otolaryngol 1990;33:758-65.*
- 5) Yen PT, Lee HY, Tsai MH, Chan ST, Huang TS. *Clinical analysis of external laryngeal trauma. J Laryngol Otol 1994; 108:221-5.*
- 6) Kleinsasser NH, Priemer FG, Schulze W, Kleinsasser OF. *External trauma to the larynx: classification, diagnosis, therapy 2000;257:439-44.*
- 7) Angood PB, Attia EL, Brown RA, Mulder DS. *Extrinsic civilian trauma to the larynx and cervical trachea- important predictors of longterm morbidity. J Trauma 1986;26:869-73.*
- 8) Lee CW, Cho S, Cho SW. *Immediate management of laryngeal and tracheal injuries. Korean J Otolaryngol 1983; 26:684-7.*
- 9) Ban YD, Park KH. *Four cases of laryngeal injury diagnosed with computed tomography. Korean J Otolaryngol 1985; 28:610-3.*
- 10) Cherian TA, Rupa V, Raman R. *External laryngeal trauma: Analysis of thirty cases. J Laryngol Otol 1993;107:920-3.*
- 11) Trone TH, Scheffler SD, Carder HM. *Blunt and penetrating laryngeal trauma: A 13-year review. Otolaryngol Head Neck Surg 1980;88:257-61.*
- 12) Thomson EC, Porter JM, Fernandez LG. *Penetrating neck trauma: An overview of management. J Oral Maxillofac Surg 2002;60:918-23.*
- 13) Stanley RB, Cooper DS, Florman SH. *Phonatory effects of thyroid cartilage fractures. Ann Otol Rhinol Laryngol 1987; 96:493-6.*
- 14) Bong JP, Yu JW, Hong KS, Rhim GI, Lee JK, Hwo W. *Management of acute laryngeal trauma patients. Korean J Otolaryngol 1998;41:1459-63.*