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Primo autore

TOSI DAVIDE (Medico)

FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO

davide.tosi@policlinico.mi.it Tel.3387335864

Non sono socio AIOM

Socio presentatore: BAREGGI CLAUDIA MARIA REGINA

Area tematica

Thoracic cancers

Titolo

CT-guided fine-needle aspiration biopsy of pulmonary lesions under 15 mm of diameter: results on 68 consecutive patients

Testo

BACKGROUND Most reports on lung fine needle aspiration cytology (FNAC) demonstrate that the diagnostic accuracy tends to decrease with the size of the lesions, and that the frequency of complications increases as the size of lesions decreases.

PURPOSE The aim of this prospective study was to describe the accuracy and incidence of complications related to FNAC of solitary pulmonary nodules (SPNs) of 15 mm or less in diameter. Moreover, we evaluated how this procedure during the initial evaluation of patients with SPN can reduce the number of unnecessary surgery.

MATERIAL AND METHODS From January 2012 to December 2014, 225 patients with an SPN between 7-15 mm in diameter were referred to our Institution. Patients with risk factors such as ASA 3, FEV1 <70% of predicted, cardiac comorbidity or previous chest surgery were enrolled. A total of 68 patients were candidate to CT guided FNAC

RESULTS The prevalence of malignant pathology in the whole population was 61%. Forty-nine out of 68 smears (72%) were considered adequate for diagnosis. Sensitivity was 83%, specificity was 100%. Positive and negative predictive values were 83% and 100%. Out of the total number, 16 patients (23%) avoided surgery. A post-biopsy pneumothorax was detected in 27 cases (39%). The pneumothorax rate was significantly affected by the number of passages ($p = 0.01$).

CONCLUSIONS In our experience the diagnostic accuracy value was high. Subjecting patients with undiagnosed pulmonary lesions to FNAC during the initial evaluation significantly reduces the number of unnecessary surgical procedures.

Parole Chiave

1. LUNG CANCER

2. FNAB
3. CITOLOGY

Co-autori

1. **TOSI DAVIDE** (Medico)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
davide.tosi@policlinico.mi.it Tel.3387335864
2. **CARRINOLA ROSARIA** (Medico - Età uguale o inferiore a 40 anni)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
3. **PALLESCHI ALESSANDRO** (Medico - Età uguale o inferiore a 40 anni)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
4. **MENDOGNI PAOLO** (Medico - Età uguale o inferiore a 40 anni)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
5. **ROSSO LORENZO** (Medico)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
6. **RIGHI ILARIA** (Medico - Età uguale o inferiore a 40 anni)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
7. **FUSCO NICOLA** (Medico - Età uguale o inferiore a 40 anni)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
8. **FERRERO STEFANO** (Medico)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
9. **NOSOTTI MARIO** (Medico)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO
10. **BAREGGI CLAUDIA** (Medico)
FONDAZIONE IRCCS CA' GRANDA OSPEDALE MAGGIORE POLICLINICO - MILANO