

IV International Symposium of the Belgian Society of Clinical Chemistry

Joint Meeting with the Societies of Austria, France, Germany, Luxemburg, The Netherlands and Switzerland

Brugge - May 26-28, 1988

Please type your abstract within this space, do not use block capitals

ABSTRACT OF PRESENTATION

(please give initials of first author after name)

Author(s) : Amir R., Verelst J., Delhayé M., Gérard A.

Title : Evaluation of serum neuron specific enolase in neuroendocrine and non-endocrine tumors

Institution : Free University of Brussels (Belgium)

Text : Neuron specific enolase (NSE) is a form of the glycolytic enzyme enolase, localized mainly in APUD cells and neurons. The clinical relevance of this marker has been assessed in healthy volunteers and in various clinical conditions: neuroendocrine tumors, nonendocrine cancers and benign diseases. In some cases of cancer, NSE levels were controlled after therapy.

Study Group	N°	NSE° >12,5ng/ml	NSE >25ng/ml
Gastrinomas	2	2 (100%)	2
Gut carcinoids	3	3 -	3
Neuroblastomas (NB)	6	5 (83%)	3
Small cell lung carcinomas (SCLC)	12	9 (75%)	6
Non small cell lung cancers	25	6 (24%)	3
- without metastasis	19	1 (5%)	0
- with metastasis	6	5 (80%)	3
Other cancers			
- without metastasis	52	6 (11%)	1
- with metastasis	32	14 (43%)	8
Benign diseases	46	4 (8%)	0
Controls	38	0	0

° Upper limit of the normal range
Among 66 cases controlled after therapy, a significant decrease of NSE levels was observed in 36% of patients within 4 days after surgery and seemed associated with a response to radio or chemotherapy. In patients with SCLC and NB, NSE levels tended to correlate with extent of disease. This correlation was not found as clearly in the other cancers despite the more frequent elevation of the values observed in cancers with metastatic diffusion. Moreover, no correlation was observed between NSE levels and locations of non-endocrine tumors. That results a low specificity of this marker in neuroendocrine tumors; regarding other metastatic tumors, whatever the discriminative threshold value which is considered.

References :

Author's name with title and full postal address : R. Amir
Centre de Diagnostic par Radio-Isotopes
20, Boulevard Clovis
1040 Bruxelles

MAIL TO :

The Secretariat
IV International Symposium
Dr. V. BLATON
Laboratory Clinical Chem.
A.Z. St.-Jan
Ruddershove 10
B-8000 BRUGGE
(Belgium)

Public' daen: E.J. Nucl. Med. 1985, 10 pp. 75-76.
J. Cl. Chem. and Cl. Biochem. 1985, 26, 5 pp 284.

Telephone N° :