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AN OVERVIEW OF CARCINOID SYNDROME May 2019

Dr. Francesca Spada, MD, PhD

Medical Oncologist

Division of Gastrointestinal Medical Oncology and Neuroendocrine Tumors

European Institute of Oncology, Milan, Italy

DISCLAIMER



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This content is supported by an Independent Educational Grant from Ipsen.

AN OVERVIEW OF CARCINOID SYNDROME

CARCINOID SYNDROME (CS): WHAT IS IT?



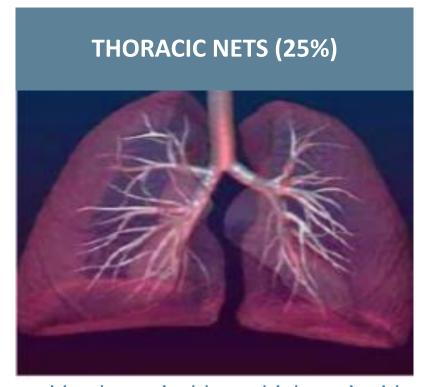
- Paraneoplastic syndrome
- Peptides release (i.e. serotonin, histamine, kallikrein)
- Neuroendocrine tumours
- Liver metastases

CLINICAL FEATURES





- 38% midgut (mostly ileal NETs)
- Multifocal: 30% of cases
- Age: 60-70
- Typical CS (95%)



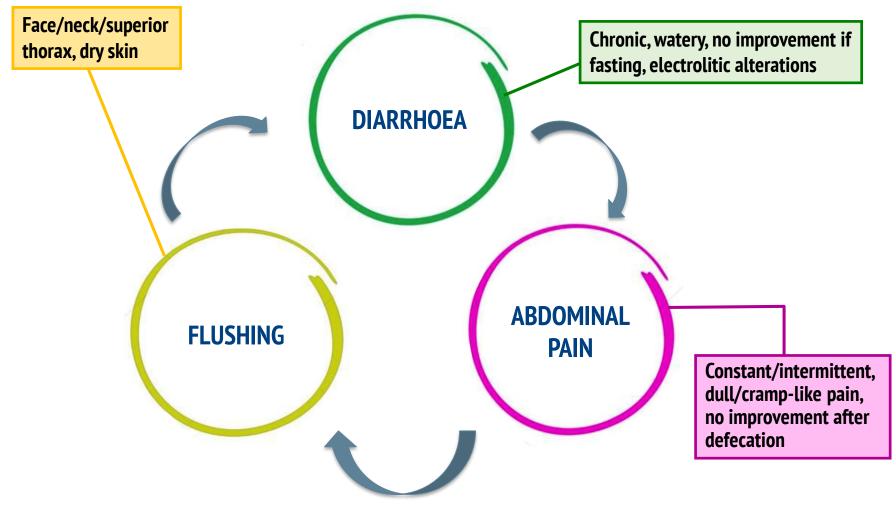
- Mostly: typical bronchial carcinoid
- Age: 50's
- Atypical CS (5%)



- TYPICAL CARCINOID SYNDROME
- ATYPICAL CARCINOID SYNDROME

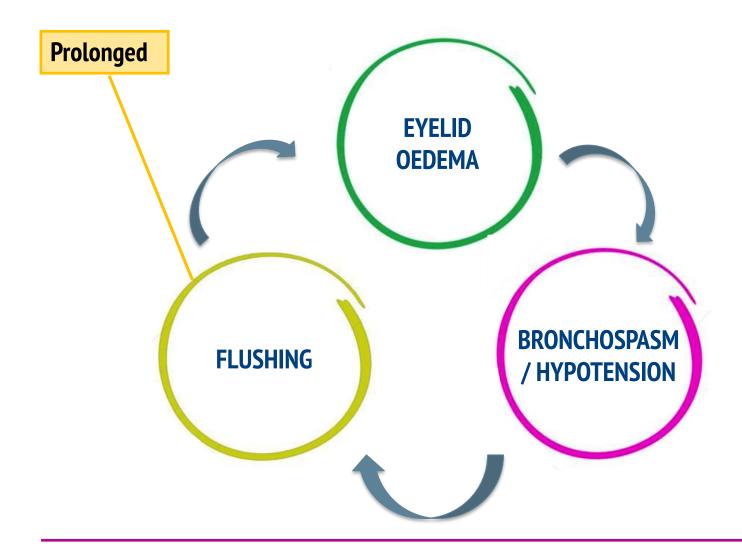
TYPICAL CARCINOID SYNDROME





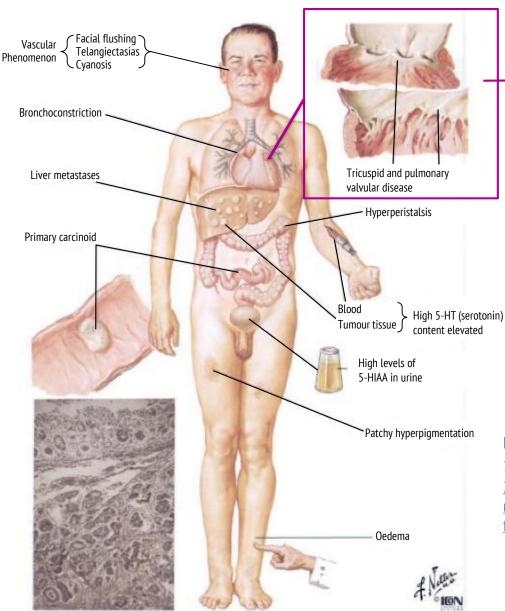
ATYPICAL CARCINOID SYNDROME





CARCINOID CARDIOPATHY





- 10-20 % at NET diagnosis
- Cardiac right valve fibrosis
- Right cardiac failure
- 50% death

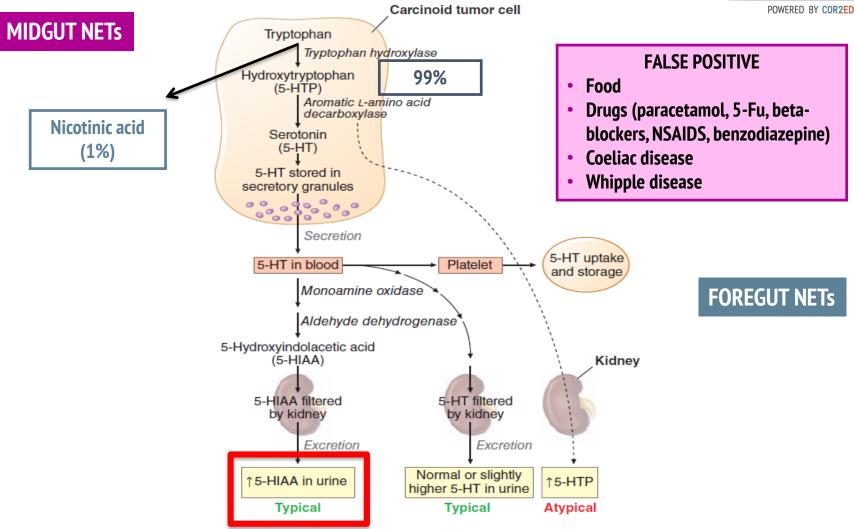
NET, neuroendocrine tumour

1. Anthony LB. Semin Oncol 2013; 40 (1): 45-55;

2. https://www.netterimages.com/carcinoid-syndrome-and-neuroendocrine-tumors-labeled-multiple-publications-gastroenterology-frank-h-netter-6725.html. Accessed 10th May 2019

CARCINOID SYNDROME: DIAGNOSIS





NET, neuroendocrine tumours; NSAIDs, non-steroid anti-inflammatory drug; 5-Fu, Fluorouracil; 5-HIAA, 5-hydroxyindoleacetic acid; 11115-HTP, 5-Hydroxytryptophan

CARCINOID CRISIS





- Life Threatening
- Oncological Emergency
- Anaesthesia
- Interventional procedures
- Drugs
- Alcohol, foods, physical/psychological stress, infections
- Hypotension (rarely hypertension), tachycardia,
 dyspnoea & central nervous system symptoms

THERAPEUTIC OPTIONS



- LDT
- Surgery
- IFN
- Somatostatin analogs
- PRRT
- Telotristat ethyl*

*Telotristat ethyl is indicated for the treatment of CS diarrhea in combination with SSA therapy in adults inadequately controlled by SSA therapy

CONCLUSIONS



- Carcinoid syndrome is present in around 20% of patients with NETs
- Linked to poorer prognosis
- Number of therapeutic options currently available with more options under study:-
 - Increase SSA doses
 - Everolimus (if available)
 - PRRT

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Email antoine.lacombe@ cor2ed.com



NET CONNECT Bodenackerstrasse 17 4103 Bottmingen **SWITZERLAND**

Dr. Antoine Lacombe Pharm D, MBA

Phone: +41 79 529 42 79

antoine.lacombe@cor2ed.com

Dr. Froukje Sosef MD

Phone: +31 6 2324 3636

froukje.sosef@cor2ed.com

