

Occupational and environmental anamnesis

Stefano M. Candura



Anamnesi

“raccolta dalla viva voce del paziente o dai suoi familiari, di tutti quei dati e quelle notizie che ci devono aiutare a porre una diagnosi esatta”

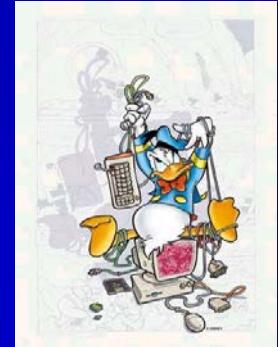
(Rasario, 1950)

- It addresses the following diagnostic procedures



Occupational anamnesis (history)

- collection of information regarding the occupational life
- identification of risk factors with (con)causal role
- cornerstone of diagnostic orientation (sometimes only element)



Work environment

Combination of factors and circumstances, interacting with the individual during his/her working activity, that may somehow influence his/her psychophysical status





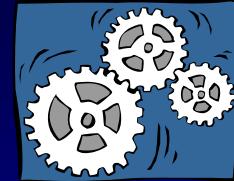
“La maggior parte delle malattie professionali sono di competenza della medicina interna; di conseguenza la clinica delle malattie del lavoro è soprattutto clinica medica del lavoro”

(Preti, 1940)

- aspecificity of occupational disease (double error possibility)
- no organ or apparatus is “immune”
- every physician should collect occupational history
- connection between occupational and “usual” anamnesis

Memorandum

- cronology
- tasks and work environment
- risk factors and hazards
- contiguity with other processes
- technical and medical preventive measures
- stop-resume test
- health of workmates
- medical legal and insurance issues

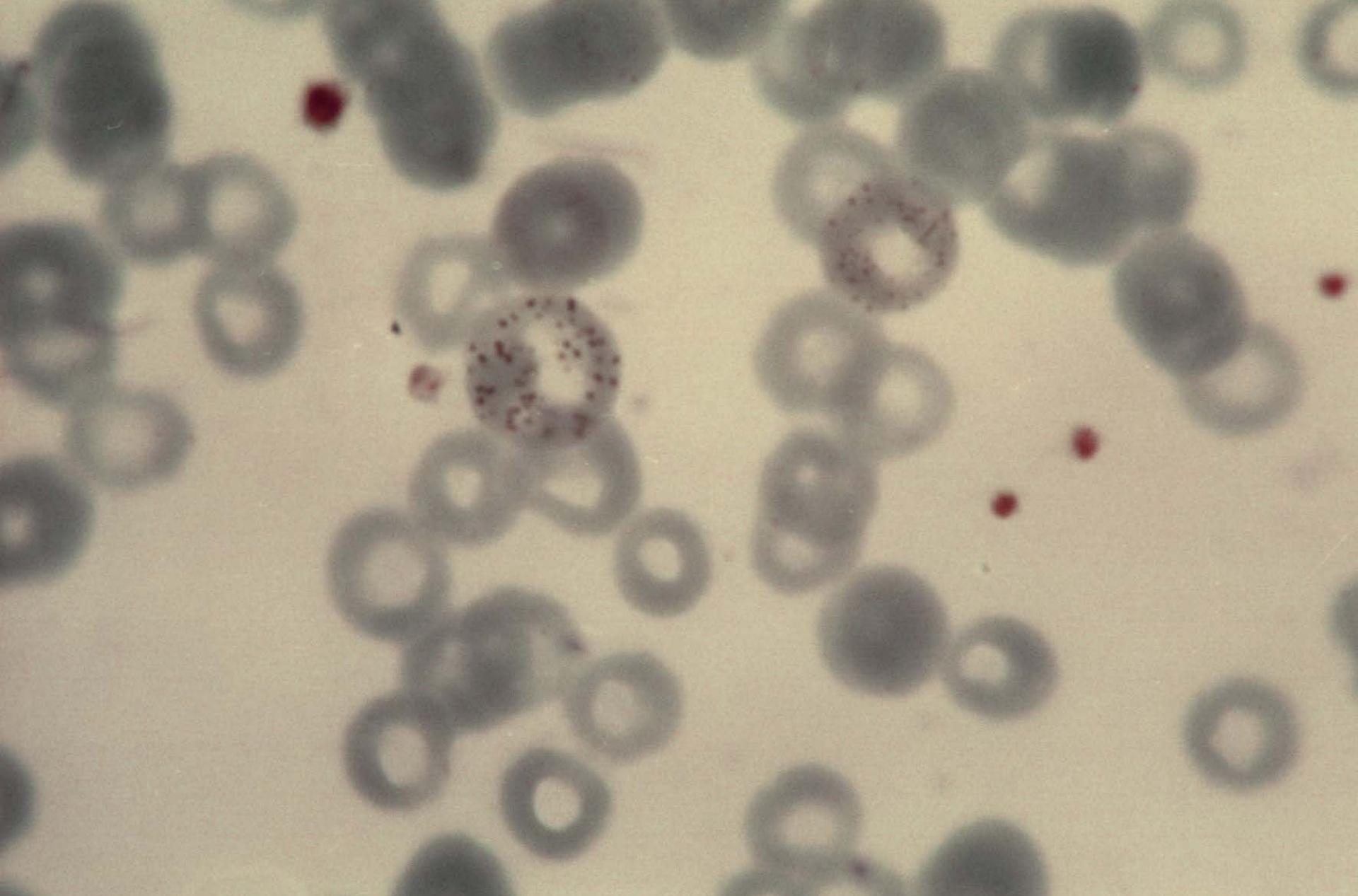


Lead “second fusion” worker

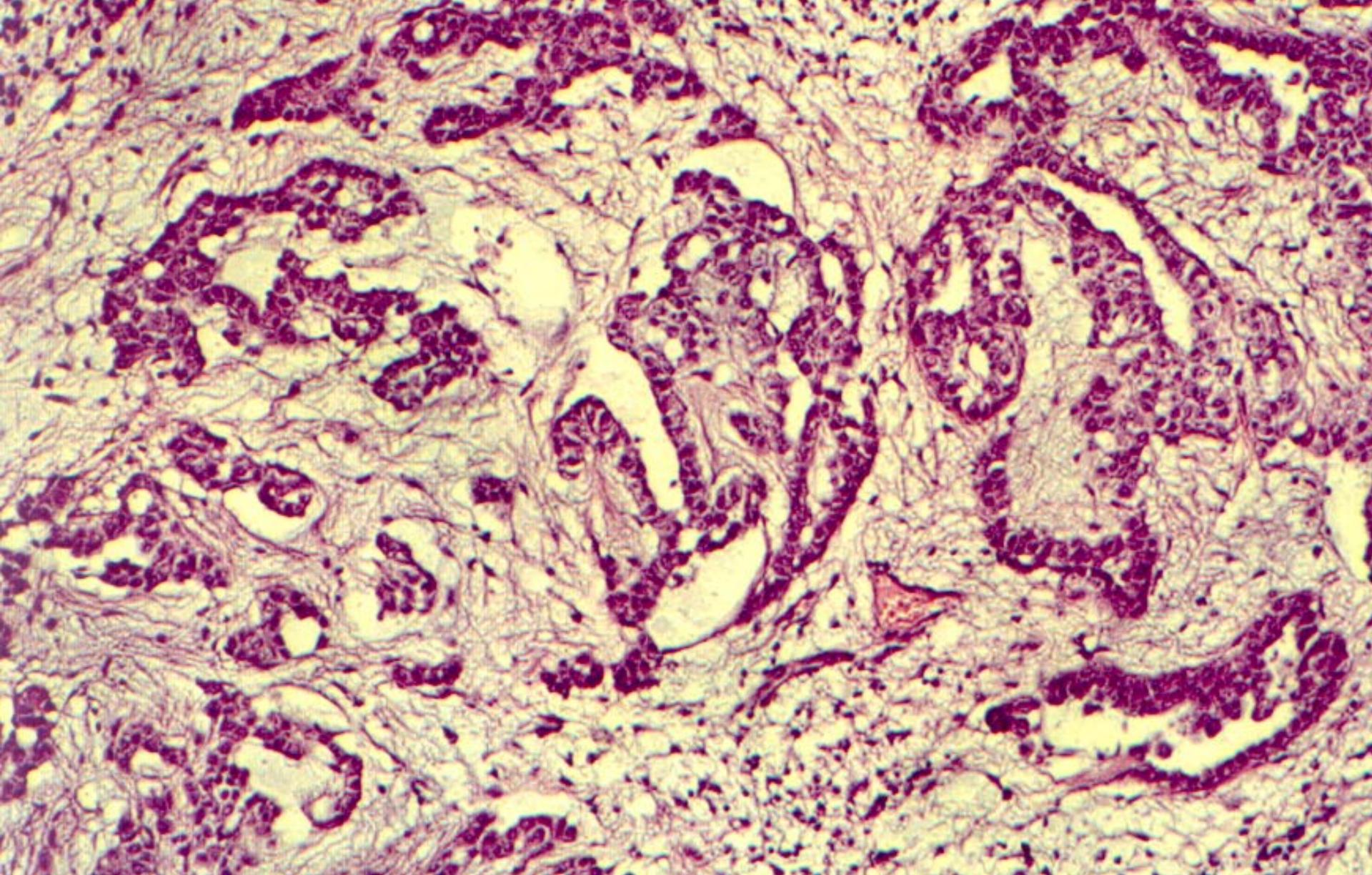


- male, 47-year-old
- recurrent abdominal colics
- two hospitalizations (surgery) without occupational history
- repeated instrumental diagnostics (including endoscopy)
- denied consent to laparoscopy and colecistectomy
- symptomatic treatment and work resumption





Fonte *et al.* Anaemia and abdominal pain due to occupational lead poisoning. *Haematologica* 2007; 92(2): e13-e14.



Fonte *et al.* Asbestos-induced peritoneal mesothelioma in a construction worker. *Environ. Health Perspect.* 2004; 112: 616-619.

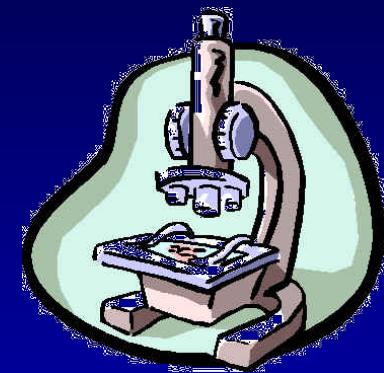
Occupational history

- errand boy and hodman (building industry)
- construction worker for 35 years: cutting and shaping of asbestos-cement panels
- dismantling of an asbestos-insulated tank
- retired for 9 years



Malignant mesothelioma histopathology

- epithelial (epithelioid) (50-75%)
- sarcomatous (sarcomatoid, fibrous)
- mixed or biphasic (pathognomonic)
- rare variants
(e.g., highly undifferentiated, desmoplastic, lymphohistiocytoid, small cell, deciduoid)



Immunohistochemical pattern

CEA

-

Ber-EP4

-

cytokeratins

+

calretinin

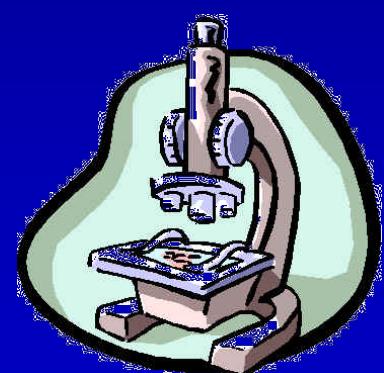
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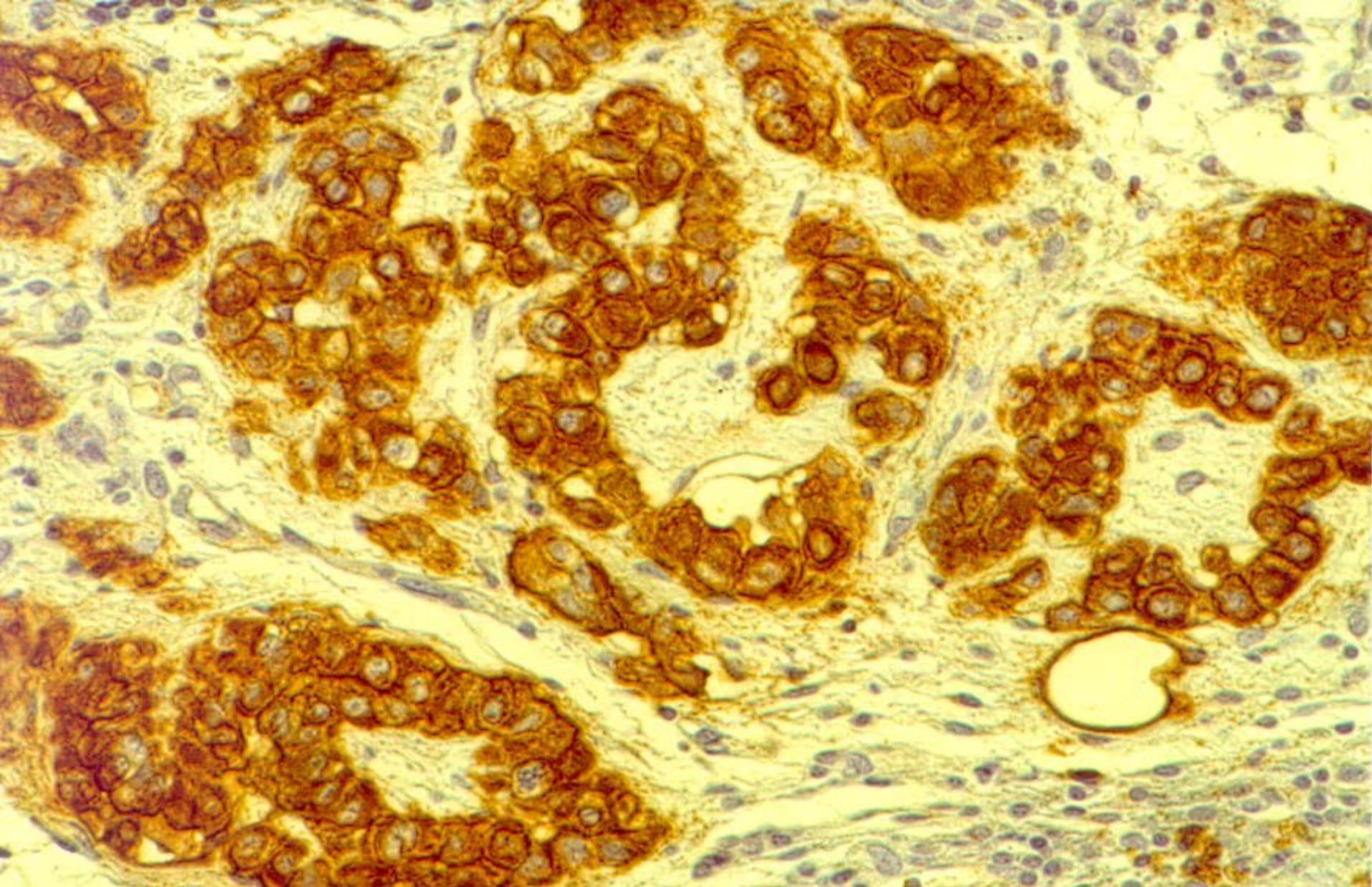
EMA

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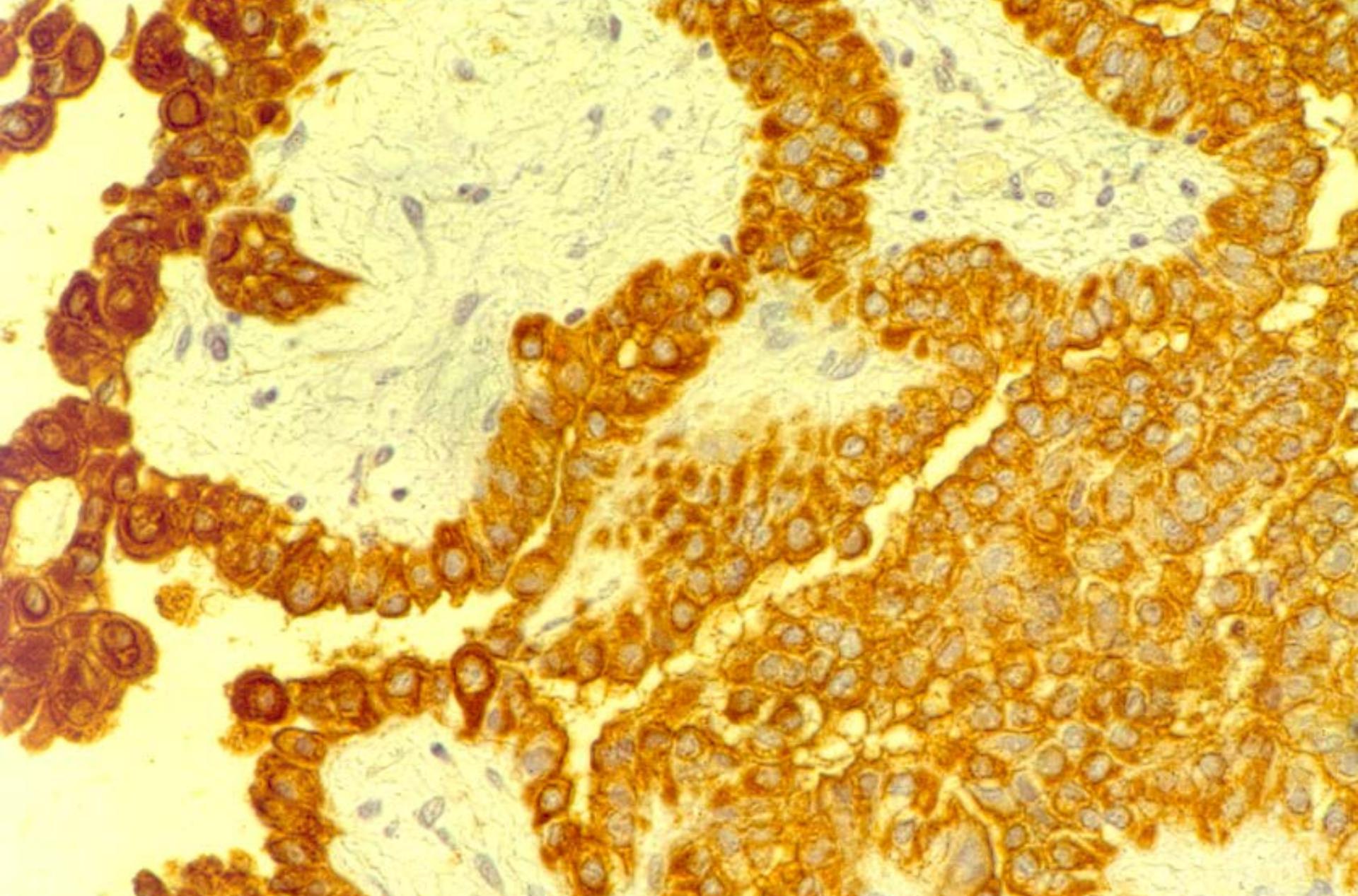
HBME-1

+





Immunohistochemical reaction for calretinin



Immunohistochemical reaction for HBME-1: intense and diffuse positivity of cytoplasmatic membranes

Treatment



- bilateral subphrenic peritonectomy
- partial pancreatectomy
- splenectomy
- appendicectomy
- peritoneal cytoreductive debulking
- cisplatin peritoneal perfusion (42°C - 1 hr)

Follow-up

- postoperative complications
(delayed adynamic ileus, feverish infections)
- fairly good quality of life
- survival from diagnosis: 23 months

HiSpeed SYSTEM

Ex: 4941

Se: 2

7.6cm

DOSE/P

E2

E3

1

5

9

kV 120

mA 150

1.08mm

tilt: 0.0

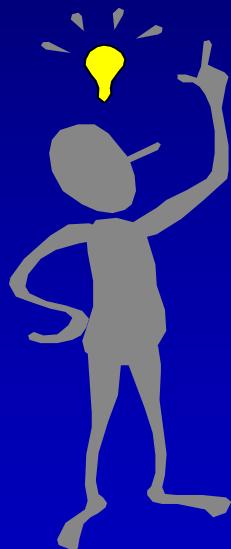
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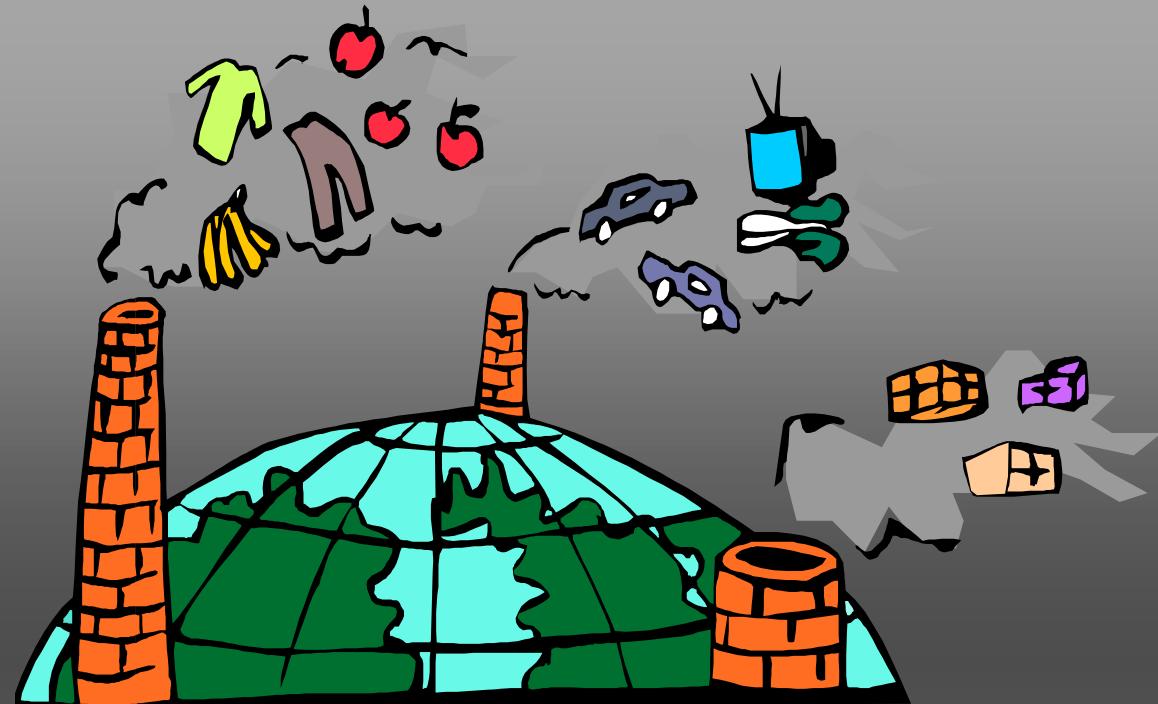
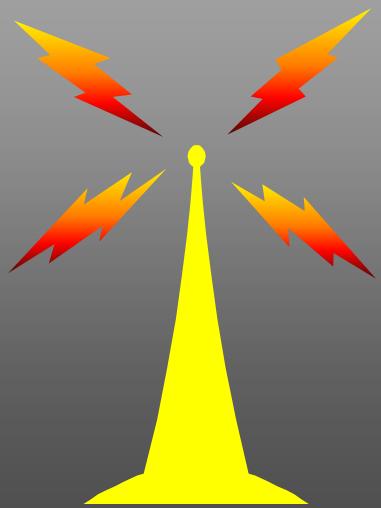
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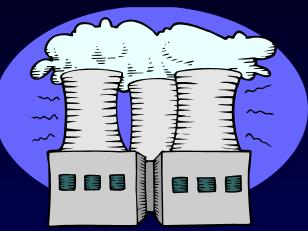


Correct diagnosis repercussions



- prognosis
- therapy
- medical legal issues





Environmental anamnesis

- residential area, factories etc.
- environmental data
- environmental accidents
- spouse's job
- domestic work
- gardening, horticulture
- animals
- hobby, sport, recreation
- compensation claims, litigation



Asbestos: current situation

law 27th March 1992, n. 257

no extraction, import/export, use

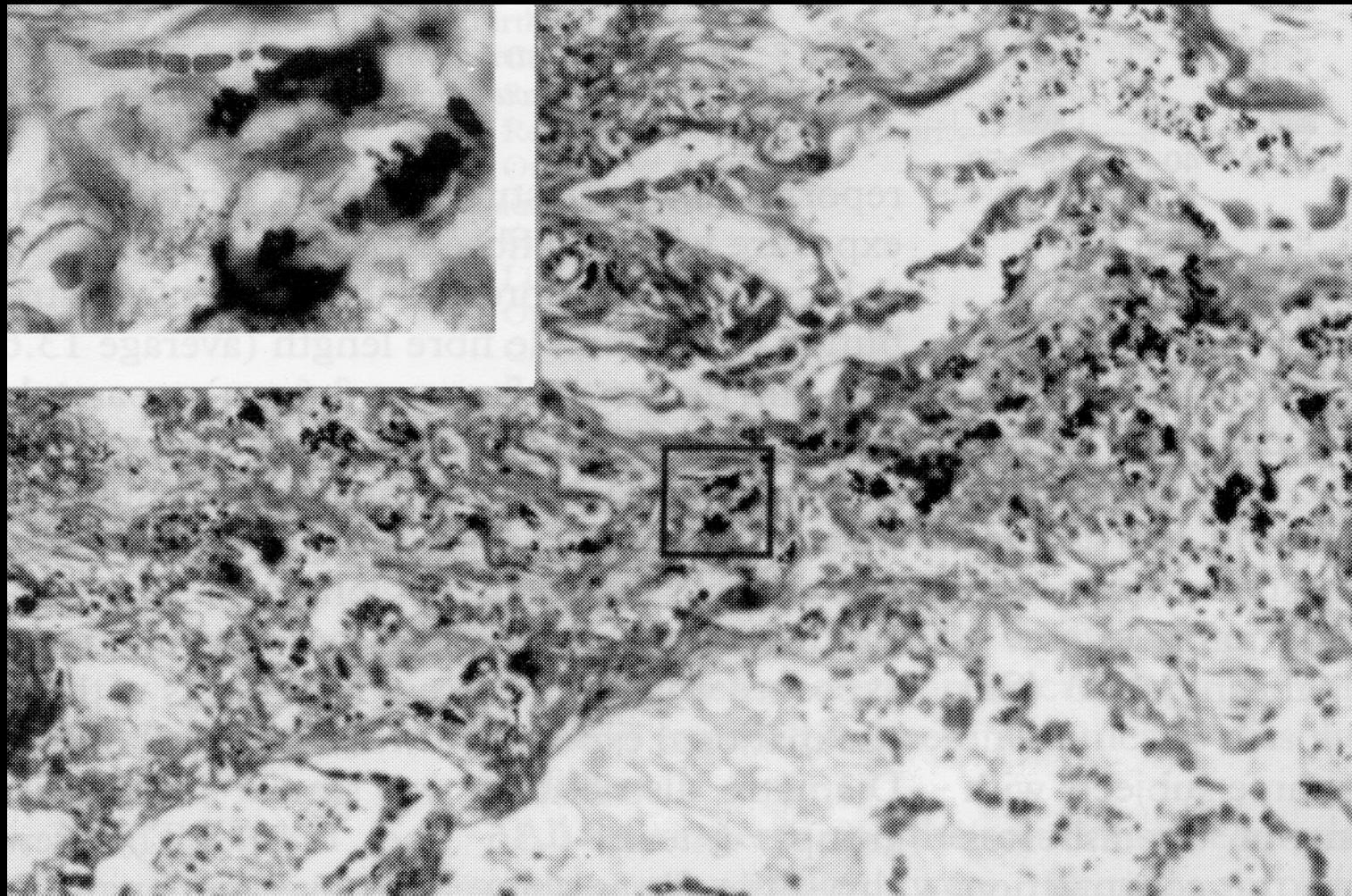
residual cases
(occupational and environmental)

residual risk
(occupational and environmental)

- old products
- maintenance
- demolition, renovation
- removal

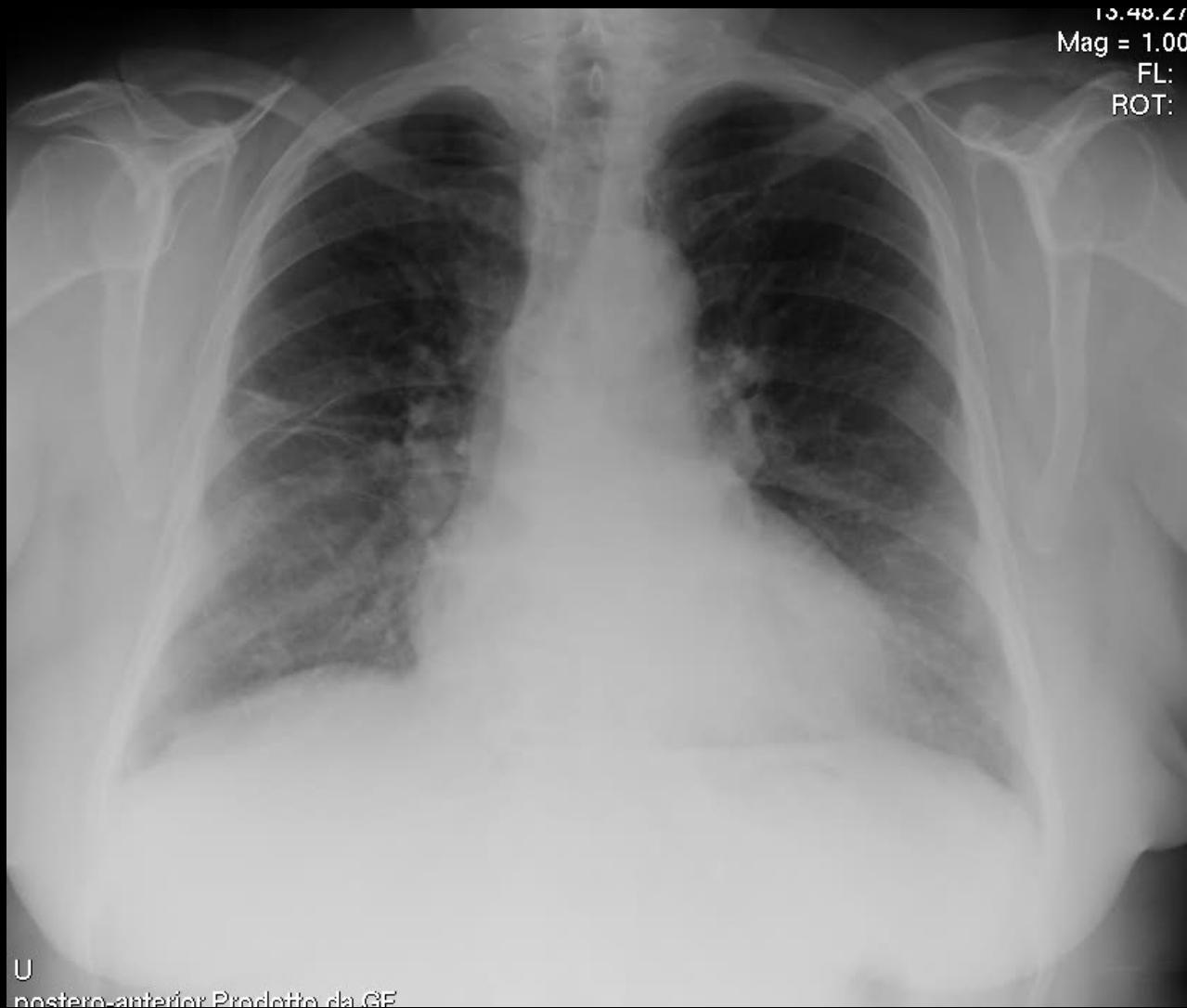


Residential asbestos



Magnani et al. *Occup. Environ. Med.* 1998; 55: 840-846

Domestic and residential asbestos



Candura et al. *Monaldi Arch. Chest Dis.* 2008; 69: 35-38

Domestic and residential asbestos



Candura et al. *Monaldi Arch. Chest Dis.* 2008; 69: 35-38



Binarelli *et al.* Mesotelioma pleurico da inusuale esposizione ad amianto. Tre casi clinici. *Eur. J. Oncol.* 2005; 10(2): 143-148.