

TREATMENT OPTIONS IN ADVANCED RAI RESISTANT THYROID CANCER

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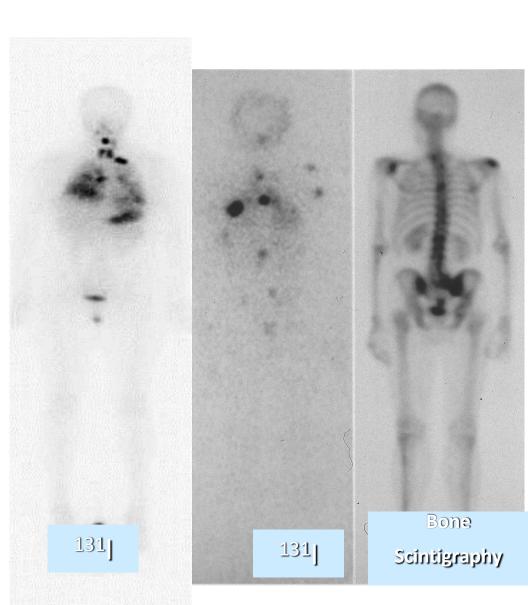
Disclosure

Relevant financial relationships

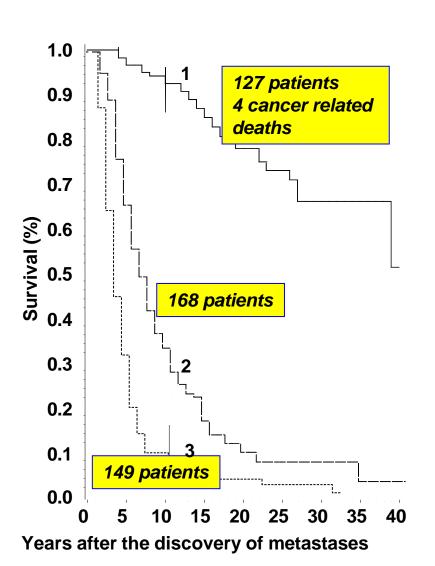
Amgen, Astra-Zeneca, Bayer, Boehringer Ingelheim, Eisai, Exelixis-IPSEN, Sanofi-Genzyme, Roche.

Distant metastases from DTC

- 6-7 patients/million population: < 10% of clinical DTC patients.
- Involve lungs bones:
 - bones (25%)
 - lungs (50%)
 - lungs and bones (20%)
 - other sites (5%).
- 50% are present initially.
- 131-I uptake present in 2/3 of cases:131-I is the first line systemic treatment



Survival and Response to 131-I Treatment



- Group 1: initial ¹³¹I uptake and CR
 - Age < 40 years</p>
 - Well-differentiated cancer
 - Small size of metastases
- Group 2: initial ¹³¹I uptake and persistent disease
- Group 3: no initial ¹³¹I uptake

Durante et al., JCEM 2006; 91: 2892

¹³¹I treatment may eradicate neoplastic foci (<1/3 of patients)

- ¹³¹I uptake
- High radiation dose

« Radio-sensitivity »

- Younger age
- Well differentiated tumor
- Neoplastic foci: small size
- FDG uptake: absent or low

Pitfalls (>2/3 of patients): refractory cancers

No uptake in at least one target lesion

Progression within 12 months after a radioiodine treatment

« Radio-resistance »:

- Older age
- Poorly differentiated /aggressive tumor
- Neoplastic foci: large
- FDG uptake: high

Refractory DTC: definition and incidence

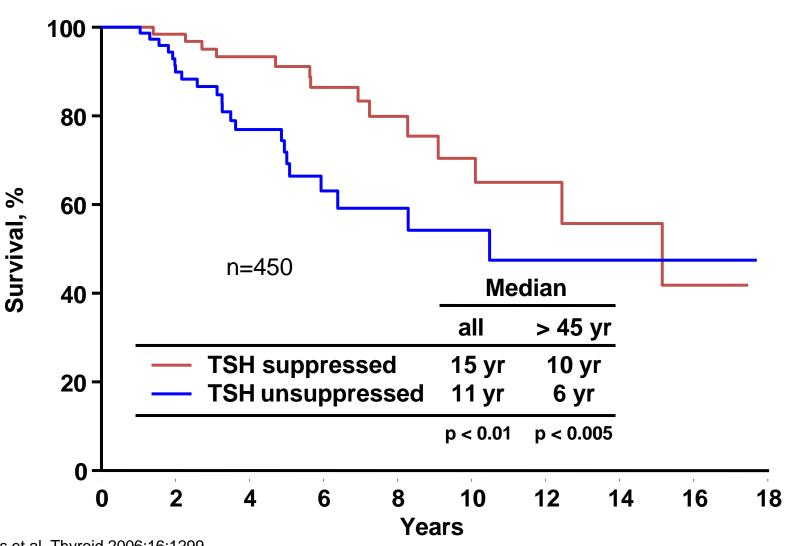
- Metastatic differentiated TC refractory to 131-I: 4-5 cases/million population; in France 250 new cases/year (population: 65 millions; 8000 new cases of TC/year)
- Definition:
 - 131-I uptake absent in all target lesions
 - Initially or during treatment
 - Uptake is present in some but not in other lesions
 - Uptake is present in all lesions but progression occurred during the 12 months after 131-I treatment
 - Discussion: persistent disease after the administration of a cumulative activity of 600 mCi 131-I. Should 131-I treatment be given again?

Management of refractory DTC

- Stop 131-I treatment
- L-T4 treatment: serum
 TSH < 0.1 mU/L
- Focal treatments whenever needed
- Imaging follow-up every 4-6 months
- Stable disease: followup.

- Progression:
 - > 20% (RECIST) in6-12 months
 - Inclusion in a trial
 - Chemotherapy: low efficacy, significant toxicity (eg, doxorubicin: <5% PR, median PFS: 7 mo)
 - Targeted therapy as first line treatment (ATA, Cooper, Thyroid 2009; 19:1167)

TSH suppression improves survival for DTC patients with metastases



Focal treatment for advanced disease

- Brain metastases:
 - Surgery and/or stereotactic EBRT
- Bone metastases with imaging abnormalities:
 - Surgery and ERBT
 - Thermal ablation (radiofrequency-cryoablation), cement
 - Biphosphonates or denosumab
- Lung metastases, in case of predominant lesions:
 - Thermal ablation, stereotactic EBRT
 - Surgery

Focal treatment modalities may be used alone or in combination with systemic treatment

Radiofrequency ablation and FDG-PET Post Pre Radiofrequency

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