

RAI-refractory DTC

A DIFFICULT AND PERSISTENT THYROID CANCER¹

What is Progressive, RAI-R DTC?



RAI-R DTC, which stands for radioactive iodine-refractory differentiated thyroid cancer (DTC), is DTC that **NO LONGER RESPONDS TO RADIOACTIVE IODINE (RAI) THERAPY**. DTC includes papillary and follicular (including Hürthle Cell) thyroid cancers.

Some Patients' Differentiated Thyroid Cancers May Persist or Recur After Surgery and RAI^{1,2}



WHILE MOST DTC PATIENTS RESPOND TO SURGERY AND RADIOACTIVE IODINE

TREATMENT, **IN SOME PATIENTS THE CANCER CAN CONTINUE TO PROGRESS.**²

THESE PATIENTS ACCOUNT FOR APPROXIMATELY **5%**

of the nearly 52,890 patients diagnosed with thyroid cancer in the United States in 2020.^{2,3}

Some Patients Become Refractory to RAI

RAI-refractory DTC can be classified in the following basic ways:⁴

1. When malignant/metastatic tissue does not concentrate RAI (no uptake outside the thyroid bed at the first therapeutic whole-body scan)
2. The tumor tissue loses the ability to concentrate RAI after previous evidence of RAI-avid disease (in the absence of stable iodine contamination)
3. RAI is concentrated in some lesions but not in others
4. Metastatic disease progresses despite a significant concentration of RAI

PATIENTS WHO SHOW RADIOGRAPHIC EVIDENCE OF DISEASE PROGRESSION AND ARE RADIOACTIVE IODINE REFRACTORY MAY BE IN NEED OF A SYSTEMIC TREATMENT.⁴

Significant Need

THE PROGNOSIS FOR THESE PATIENTS WHOSE DTC PERSISTS OR RECURS AFTER SURGERY AND RAI IS POOR²



THERE ARE A LIMITED NUMBER OF TREATMENT OPTIONS AVAILABLE^{5,6}

References:

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5. Kunadharaju R, Goyal G, Rudraraju A, Silberstein PT. New Treatment Options for Metastatic Thyroid Cancer. *Fed Pract*. 2015; 32(Suppl 7): 215-265.
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