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STELLINGEN

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Clinical and Molecular studies in Differentiated thyroid carcinoma management

Rand Hareedy

1 Efficacy of therapy with radioactive iodide in thyroid carcinoma patients may be diminished when these patients are also being treated with metformin for diabetes mellitus (this thesis).

2 Co-administration of levothyroxine may hamper the efficacy of radioactive iodide in thyroid carcinoma patients (this thesis).

3 Multikinase inhibitors decrease serum thyroid hormone levels by multiple mechanisms, including enhanced thyroid hormone degradation (this thesis).

4 The profound effects of modulating adenosine monophosphate kinase (AMPK) on the functional expression of the sodium iodide symporter expression (NIS) demonstrate the important interplay between metabolism and oncology (this thesis).

5 The worldwide increasing incidence in thyroid carcinoma in South Korea illustrates that the introduction of novel diagnostic methods without adequate analysis of benefit and harm may lead to overdiagnosis- and treatment of malignancies (Ahn HS, Kim HJ, Welch HG. Korea's thyroid-cancer "epidemic"--screening and overdiagnosis. N Engl J Med. 2014 6;371(19):1765-7)

6 Considering thyroid carcinoma a ‘good cancer’ is harmful for patients, not only for psychological reasons, but also as it may lead to undertreatment (‘Goede kanker bestaat niet’, Anke van Haften, uitgeverij de Graaff, 2015).

7 The fact that intensive lowering of blood glucose levels in type 2 diabetes mellitus has been associated with increased mortality challenges traditional concepts in endocrinology. (Hempe JM, Liu S, Myers L, McCarter RJ, Buse JB, Fonseca V. The Hemoglobin Glycation Index Identifies Subpopulations With Harms or Benefits From Intensive Treatment in the ACCORD Trial. Diabetes Care. 2015 Apr 17. pii: dc141844)

8 Endocrinology should shift its ambitions and goals from optimizing hormone substitution therapy to developing curative therapies based on the underlying

9 Science, my lad, is made up of mistakes, but they are mistakes which it is useful to make, because they lead little by little to the truth. (Jules Verne, 1828 – 1905)

10 Life is like riding a bicycle. To keep your balance, you must keep moving. (Albert Einstein)

11 The more you know, the more you realise how much you don’t know — the less you know, the more you think you know. (David T. Freeman)