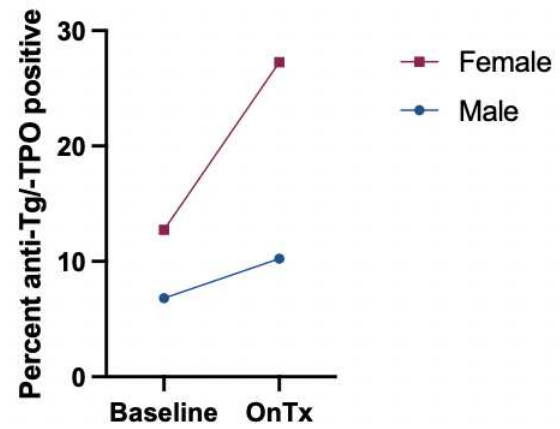


**Supplementary Figure 1.** Anti-TPO and anti-Tg positivity at baseline and on treatment.

**Supplementary Table 1. A) Association between anti-TPO and/or anti-Tg positivity and thyroiditis at baseline; B) Association between anti-TPO and/or anti-Tg conversion and thyroiditis; C) Association between on treatment positivity for either anti-TPO or anti-Tg and thyroiditis**

<b>A</b>	<b>Baseline positive for...</b>	<b>Baseline negative for...</b>	<b>p-value</b>	<b>Odds-ratio (95%CI)</b>
<b>Thyroiditis/anti-TPO</b>	5/7 (71.4%)	20/136 (14.7%)	0.002	14.50 (2.63-79.94)
<b>Thyroiditis/anti-Tg</b>	4/7 (57.1%)	21/136 (15.4%)	0.013	7.30 (1.52-35.01)
<b>Thyroiditis/anti-TPO and/or anti-Tg</b>	9/13 (69.2%)	16/130 (12.3%)	<0.001	16.0 (4.42-58.2)
<b>B</b>	<b>Converted positive for...</b>	<b>Stayed negative for...</b>	<b>p-value</b>	<b>Odds-ratio (95%CI)</b>
<b>Thyroiditis/anti-TPO</b>	5/6 (83.3%)	15/130 (11.5%)	0.001	38.3 (4.19-350)
<b>Thyroiditis/anti-Tg</b>	9/15 (60.0%)	12/121 (9.9%)	<0.001	13.6 (4.13-44.9)
<b>Thyroiditis/anti-TPO and/or anti-Tg</b>	11/19 (57.9%)	7/118 (5.9%)	<0.001	21.8 (6.64-71.6)
<b>C</b>	<b>OnTx positive for...</b>	<b>OnTx negative for...</b>	<b>p-value</b>	<b>Odds-ratio (95%CI)</b>
<b>Thyroiditis/anti-TPO</b>	8/12 (66.7%)	14/131 (10.7%)	<0.001	16.7 (4.46-63.0)
<b>Thyroiditis/anti-Tg</b>	12/22 (54.5%)	10/121 (8.26%)	<0.001	13.3 (4.62-38.4)
<b>Thyroiditis/anti-TPO and/or anti-Tg</b>	14/24 (58.3%)	8/119 (6.7%)	<0.001	19.4 (6.58-57.4)

In each cell, n/N indicates the number of patients who developed thyroiditis (n) out of the total number of patients who converted positive or stayed negative for the indicated antibody (N).

## Supplementary appendix 1. irAEs of patients with known auto-immune diseases

- Coeliac disease: no toxicities
- Ulcerative colitis: no toxicities
- Ulcerative colitis: dry mouth grade 2, diarrhea grade 2
- DM type 1: dry mouth grade 1, skin hypopigmentation grade 1
- Hypothyroidism: hypothyroidism grade 2 (requiring increase in replacement treatment)
- Psoriasis: grade 3 Hyperthyroidism, grade 2 hypothyroidism
- Rheumatoid arthritis: arthralgia grade 2, dry mouth grade 1, dry eyes grade 1, rash maculo-popular grade 2, arthritis grade 3