

Supplemental Tab.1 *Thyroid volume in patients randomized to selenomethionine (80 or 160 µg) or placebo. Volume calculated by the ellipsoid formula (width × depth × length× 0.524) Intra-group differences were tested with Wilcoxon signed-rank test and the inter-group differences with Kruskal-Wallis test; p value was significant if <0.05. No significant change was observed within and between the groups except at the baseline and at 6 months between the placebo and the 160-Semet group where the volume was slightly smaller.*

Thyroid Volume Median (IQR)	Placebo	80-Semet	160-Semet	p
basal	11.75 (9.775-13.85)	10.45 (8.725-13.6)	9.05 (6.85-11.15)	0.014
6 months	12.5 (9.225-14.28)	9.7 (9.1-12.1)	8.7 (7.7-11.3)	0.019
12 months	11.8 (9.7-13.9)	9.55 (8.45-11.88)	9.15 (7.35-12.8)	ns

Supplemental Tab.2 *Quality of life (QoL) in patients randomized to selenomethionine (80 or 160 µg) or placebo. Qol assessed by the SF-36 questionnaire. Intra-group differences were tested with Wilcoxon signed-rank test and the inter-group differences with Kruskal-Wallis test; p value was significant if <0.05. No significant and consistent differences were observed within and between the groups.*

QoL Median (IQR)	Placebo	80-Semet	160-Semet	p	Placebo	80-Semet	160-Semet	p	Placebo	80-Semet	160-Semet	p
	basal				6 months				12 months			
Physical functioning	87.5 (76.25-98.75)	95 (80-100)	97.5 (95-100)	0.03	90 (80-98.75)	100 (84.98-100)	95 (95-100)	ns	95 (85-100)	95 (85-100)	100 (95-100)	ns
Role limitations/ Physical	100 (25-100)	100 (81.25-100)	100 (81.25-100)	ns	100 (31.25-100)	100 (100-100)	100 (56.25-100)	ns	100 (25-100)	100 (100-100)	100 (100-100)	ns
Role limitations/ Emotional	83.35 (0-100)	100 (66.63-100)	100 (33.3-100)	ns	100 (8.325-100)	100 (74.95-100)	100 (33.3-100)	ns	100 (33.3-100)	100 (100-100)	100 (66.7-100)	ns
Energy/ Fatigue	50 (37.5-60)	62.5 (55-77.5)	57.5 (48.35-72.5)	0.04	55 (45-72.5)	65 (55-75)	55 (45-68.3)	ns	55 (50-60)	65 (50-75)	55 (45-77.5)	ns
Emotional well-being	54 (50-68)	64 (56-82)	58 (46-74)	ns	64 (52-80)	70 (56-82)	66 (54-73.5)	ns	62 (52-68)	64 (52-76)	70 (56-84)	ns
Social functioning	62.5 (50-77.5)	87.5 (68.5-87.5)	75 (50-87.5)	ns	81.25 (50-87.5)	87.5 (68.75-100)	75 (62.5-87.5)	ns	72 (50-87.5)	87.5 (62.5-100)	75 (56.25-100)	ns
Pain	55 (45-78.75)	83.75 (56.25-100)	83.75 (55-95)	ns	71.25 (45-100)	90 (72.5-100)	71.5 (56.25-90)	ns	75 (45-90)	67.5 (55-90)	73.75 (56.25-90)	ns
General Health	60 (45-70)	70 (60-80)	65 (52.5-72.5)	ns	65 (47.5-70)	72.5 (65-80)	65 (50-75)	ns	65 (40-75)	65 (60-80)	65 (50-75)	ns
Health change	50 (50-50)	50 (50-50)	50 (50-50)	ns	50 (50-50)	50 (50-50)	50 (50-75)	ns	50 (50-50)	50 (50-50)	50 (50-50)	ns