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Effective July 21, 2020, MLabs will change the reference range for Thyroglobulin Mass Spectrometry (TGMS) testing per Mayo Medical Laboratories.

Current Reference Range

New Reference Range

Healthy individuals with intact, functioning thyroid: Healthy individuals with intact, functioning thyroid:

≤ 33 ng/mL	≤ 33 ng/mL
The reference ranges listed below, however, are	The reference ranges listed below, however, are
for thyroid cancer follow up of athyrotic patients	for thyroid cancer follow up of athyrotic patients
and apply to unstimulated and stimulated	and apply to unstimulated and stimulated
thyroglobulin measurements.	thyroglobulin (Tg) measurements.
Ranges are based on best practice guidelines and	Ranges are based on best practice guidelines and
the literature, which includes Mayo Clinic studies,	the literature, which includes Mayo Clinic studies,
and represent clinical decision levels.	and represent clinical decision levels.
Decision levels for thyroid cancer patients, who are	² Decision levels for thyroid cancer patients, who are
not completely athyrotic (ie, patient has some	not completely athyrotic (ie, patient has some
remnant normal thyroid tissue), have not been	remnant normal thyroid tissue), have not been
established, but are likely to be somewhat higher:	established, but are likely to be somewhat higher:
remnant normal thyroid tissue contributes to	remnant normal thyroid tissue contributes to
serum Tg concentrations 0.5-1.0 ng/mL per gram	serum Tg concentrations 0.2 -1.0 ng/mL per gram
of remnant tissue, depending on the thyroid-	of remnant tissue, depending on the thyroid-
stimulating hormone (TSH) level.	stimulating hormone (TSH) level.
Tg <0.5 ng/mL: Thyroglobulin (Tg) levels must be interpreted in the context of TSH levels, serial Tg measurements, and radioiodine ablation status.	Tg <0.2 ng/mL: Tg levels must be interpreted in the context of TSH levels, serial Tg measurements, and radioiodine ablation status.
Undetectable Tg levels in athyrotic individuals on	Undetectable Tg levels in athyrotic individuals on
suppression therapy indicate a minimal risk (<1%-	suppression therapy indicate a minimal risk (<1%-
2%) of clinically detectable recurrent	2%) of clinically detectable recurrent
papillary/follicular thyroid cancer.	papillary/follicular thyroid cancer.
Tg > or =0.5 ng/mL to 2.0 ng/mL: Thyroglobulin	Tg > or =0.2 ng/mL to 2.0 ng/mL: Tg levels must
(Tg) levels must be interpreted in the context of	be interpreted in the context of TSH levels, serial
TSH levels, serial Tg measurements, and	Tg measurements, and radioiodine ablation status.
radioiodine ablation status. Tg levels of 0.5-2.0	Tg levels of 0.2 -2.0 ng/mL in athyrotic individuals
ng/mL in athyrotic individuals on suppressive	on suppressive therapy indicate a low risk of
therapy indicate a low risk of clinically detectable	clinically detectable recurrent papillary/follicular
recurrent papillary/follicular thyroid cancer.	thyroid cancer.

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