Thrombosis (Cont.):	Thymus	Thyroid hormone binding proteins, 2286
in inflammation, 276–277, 742 laboratory evaluation of, 405–407	cancer, paraneoplastic syndromes in, 609t in HIV infection, 1235, 1236	Thyroid hormone binding ratio (THBR), 2288 Thyroid hormone receptors (TRs), 2286–2287,
in liver disease, 739–740, 739f, 739t	in myasthenia gravis, 2701, 2703, 2704t	2286f
pathophysiology of, 274–275, 275f, 740–741,	primary defects of, 375e-1, 2108	Thyroiditis, 2298
741f	Thymus- and activation-regulated chemokine.	acute, 2298, 2298t
in polycythemia, 399	See TARC (CCL17)	atrophic, 2290
renal vein, 1866	Thymus expressed chemokine (TECK), 372e-12t	autoimmune. See Hashimoto's thyroiditis
risk factors for, 404, 405f, 405t venous. See Venous thromboembolism (VTE)	Thyroglobulin (Tg) in autoimmune thyroiditis, 372e-24t	(autoimmune hypothyroidism) chronic, 2298t, 2299
Thrombotic microangiopathy, renal, 1863	in carcinoma of unknown primary, 120e-2	destructive, 2298
in antiphospholipid antibody syndrome, 1865	in congenital hypothyroidism, 2283, 2284t	drug-induced, 2299
drug-related, 1864	reference values for, 2763t	etiology of, 2298t
in HELLP syndrome, 1865	in thyroid cancer follow-up, 2306–2307	postpartum, 2299
in hemolytic-uremic syndrome. See Hemolytic-uremic syndrome (HUS)	in thyrotoxicosis, 2288 Thyroid acropachy, 2245, 2295, 2295f	radiation therapy-related, 623 Riedel's, 391e-1t, 2299
HIV-related, 1864	Thyroid and eye muscle shared protein, 372e-24t	silent (painless), 2299
HSCT-related, 1864, 1864t	Thyroid cancer, 2303	subacute (de Quervain's), 239, 2298–2299,
pathophysiology of, 1863	anaplastic, 2304t, 2307	2298f, 2298t
radiation-related, 1864	carcinoma of unknown primary and, 120e-2t	Thyroid nodule
in sickle cell disease, 1865–1866. See also	classification of, 2303t, 2304, 2304t	approach to the patient, 2307–2308, 2308f
Sickle cell anemia in systemic sclerosis, 1864–1865. <i>See also</i>	deaths from, 467t diagnosis of, 2254t, 2289, 2289t	benign, 2303, 2303t evaluation of, 2254t, 2288–2289, 2289f,
Systemic sclerosis (scleroderma)	follicular, 2304t, 2305–2307, 2305t	2289t
in thrombotic thrombocytopenic purpura.	genetic considerations in, 101e-3t, 2304-2305,	prevalence of, 2254t
See Thrombotic thrombocytopenic	2305t	solitary, hyperfunctioning, 2302-2303,
purpura	incidence of, 467t, 468f, 2254t, 2303, 2303t	2303f
Thrombotic thrombocytopenic purpura (TTP),	medullary. See Medullary thyroid carcinoma	thyroid cancer and, 2303, 2303t. See also
729 diagnosis of, 729	(MTC) papillary, 2303t, 2304t, 2305–2307, 2306f	Thyroid cancer Thyroid peroxidase (TPO)
drug-induced, 1864	pathogenesis of, 2304–2305	in autoimmune hypothyroidism, 372e-24t
epidemiology of, 133t	in patients with thyroid nodule, 2303, 2303t	in thyroid development, 2283, 2284t
genetic considerations in, 1848	during pregnancy, 124e-1t, 124e-4	in thyroid hormone synthesis, 2285
vs. hemolytic-uremic syndrome, 729, 1863	radiation therapy-related, 623	Thyroid peroxidase (TPO) antibodies, 2288,
in HIV infection, 1262	risk factors for, 2303, 2303t	2294
idiopathic, 729, 1863–1864 inherited, 729	staging of, 2304, 2304t survival rates, 2306f	Thyroid response elements (TREs), 2287, 2287f Thyroid scintigraphy, 2288
pathology and pathogenesis of, 265e-2, 729,	treatment of, 2306–2307	Thyroid-stimulating hormone (TSH), 401e-4
729f, 1848, 1863	Thyroid cysts, 2303	action of, 401e-4
peripheral blood smear in, 729	Thyroid dermopathy, 2295, 2295f, 2297-2298	assessment of, 400e-6
renal involvement in, 1806t, 1848	Thyroidectomy	autoantibodies to, 377e-4
risk factors for, 1848	for diffuse nontoxic goiter, 2301	deficiency of, 2259t
skin manifestations of, 133t, 135, 368 in SLE, 2133–2134	for Graves' disease, 2297 prophylactic, in <i>RET</i> mutations, 2341, 2341t	ectopic production of, 609t expression and regulation of, 401e-1t
treatment of, 729–730, 1848, 1864	for thyroid cancer, 2306, 2342	laboratory evaluation of, 2258t, 2288, 2763t
Thromboxane A ₂	Thyroid gland, 2283	pituitary adenoma secretion of, 2274, 2298
in arterial thrombosis, 745, 746f	amiodarone effects on, 2300	in pregnancy, 124e-4, 124e-5t
in myocardial infarction, 1599	anatomy and development of, 2283	secretion of, 401e-4
in shock, 1745, 1746 Thrush	disorders of cancer. See Thyroid cancer	suppression therapy, 2306
in cancer patient, 487	Candida infection, 489	synthesis of, 401e-4 Thyroid-stimulating hormone receptor (TSH-R)
clinical features of, 46e-1f, 46e-5f, 233, 240t,	in HIV infection, 1259–1260	in congenital hypothyroidism, 2284t
351, 1342	hypertension in, 1620	in hyperfunctioning thyroid solitary nodule,
etiology of, 233	hyperthyroidism. See Hyperthyroidism	2302–2303, 2302f
in HIV infection, 1255, 1256f	hypothyroidism. See Hypothyroidism	mutations of, 2284t, 2302–2303, 2302f
treatment of, 233, 240t, 1344t "Thumburint sign" 234, 235f	lymphoma, 2307	in thyroid dayslanment, 2283
"Thumbprint sign," 234, 235f Thunderclap headache, 1785, 2597	nodular. See Thyroid nodule during pregnancy, 48–49, 124e-4, 124e-5t	in thyroid development, 2283 Thyroid-stimulating immunoglobulins (TSI),
Thunderstorm asthma, 1671	radiation-induced, 623	2288, 2294
Thymectomy	thyroiditis. See Thyroiditis	Thyroid storm (thyrotoxic crisis), 48, 2297
for myasthenia gravis, 123e-2, 2704	thyrotoxicosis. See Thyrotoxicosis	Thyroid transcription factor-1 (TTF-1)
for pure red cell aplasia, 123e-2	hormones of. See Thyroid hormone(s)	in carcinoma of unknown primary, 120e-2
for thymoma, 123e-2, 2704 Thymic neuroendocrine tumors (carcinoids)	laboratory studies of radioiodine uptake and thyroid scanning,	in congenital hypothyroidism, 2283, 2284t in lung cancer, 120e-2, 508
Thymic neuroendocrine tumors (carcinoids), 564	2288	Thyrotoxicosis, 2293 . <i>See also</i> Graves' disease
Thymic stromal lymphopoietin (TSLP), in	Tg levels, 2288	amiodarone-induced, 2300
asthma, 1672	thyroid hormone measurement, 2288	apathetic, 2294
Thymidine, 426	TPO antibodies, 2288	clinical features of, 2294–2295, 2294t, 2295f
Thymidine phosphorylase deficiency, 431e-5t	ultrasonography, 2289, 2289f, 2289t	definition of, 2293
Thymidylate synthase, in lung cancer, 519–520 Thymoma, 123e-1	pain in, differential diagnosis of, 2298 physical examination of, 2287	diagnosis of, 2295–2296, 2295f etiology of, 2293t, 2298
in autoimmune diseases, 2348	regulation of, 2283–2284, 2284f	fetal/neonatal, 2297
clinical features of, 123e-1, 664	Thyroid hormone(s). <i>See also</i> Thyroxine (T ₄);	hypoxia in, 248
diagnosis of, 123e-1, 2703	Triiodothyronine (T_3)	palpitations in, 254
EBV infection and, 123e-2	action of, 2286–2287, 2287f	primary hyperthyroidism and, 2293
etiology of, 123e-2	half-lives of, 400e-2	subclinical, 2301
hypogammaglobulinemia in, 2111 in myasthenia gravis, 123e-2, 2701, 2703	laboratory evaluation of, 2288, 2763t receptor binding of, 2286–2287, 2286f	without hyperthyroidism, 2293 Thyrotoxicosis factitia, 2288, 2298
paraneoplastic syndromes in, 372, 614t, 619	resistance to, 435, 2286t, 2287	Thyrotoxic periodic paralysis (TPP). See
pathology of, 123e-1–2, 123e-2t	structure of, 2283f	Hypokalemic periodic paralysis
pemphigus and, 371, 372	synthesis of, 2284-2285, 2284f, 2285f	(HypoKPP)
pure red cell aplasia and, 123e-2, 668	transport and metabolism of, 2285–2286,	Thyrotropin-binding inhibitory immunoglobulin
staging of, 123e-1, 123e-1t	2286t unbound, 2288	(TBII), 2290, 2294 Thyrotropin recentor, 372e, 24t
treatment of, 123e-2	u1100u11u, 2200	Thyrotropin receptor, 372e-24t