

Supplemental Digital Content 2 – ICD-9 and ICD-10 Diagnosis Codes Corresponding with EndoECHO Curriculum (see SDC1 for Curriculum)

Associated EndoECHO blocks	Conditions	Code Type	ICD 9	ICD9 Description	CCS
Months 2 and 6 Thyroid	Disorders of Thyroid Gland	ICD-9-CM Dx	240-246 (all subcodes)	Disorders of Thyroid Gland	3.1
		ICD-10-CM Dx	E00-E07	Disorders of thyroid gland	
Months 1, 3, 4, 7, 9, 11, 12 Diabetes	Diabetes Mellitus with and without complications	ICD-9-CM Dx	249 (all subcodes)	Secondary diabetes mellitus	3.2 and 3.3
		ICD-9-CM Dx	250 (all subcodes)	Diabetes mellitus	
		ICD-9-CM Dx	7902	Abnormal glucose	
		ICD-9-CM Dx	79021	Impaired fasting glucose	
		ICD-9-CM Dx	79022	Impaired glucose tolerance test (oral)	
		ICD-9-CM Dx	79029	Other abnormal glucose	
		ICD-9-CM Dx	7915	Glycosuria	
		ICD-9-CM Dx	7916	Acetonuria	
		ICD-9-CM Dx	V4585	Insulin pump status	
		ICD-9-CM Dx	V5391	Fitting and adjustment of insulin pump	
		ICD-9-CM Dx	V6546	Encounter for insulin pump training	
		ICD-10-CM Dx	E08-E13	Diabetes mellitus	
		ICD-10-CM Dx	R7301	Impaired fasting glucose	
		ICD-10-CM Dx	R7302	Impaired glucose tolerance (oral)	
		ICD-10-CM Dx	R7303	Prediabetes	
		ICD-10-CM Dx	R7309	Other abnormal glucose	
		ICD-10-CM Dx	R739	Hyperglycemia, unspecified	
		ICD-10-CM Dx	R81	Glycosuria	
		ICD-10-CM Dx	R824	Acetonuria	
		ICD-10-CM Dx	Z4681	Encounter for fitting and adjustment of insulin pump	
ICD-10-CM Dx	Z9641	Presence of insulin pump (external) (internal)			
ICD-10-CM Dx	G3289	Other specified degenerative disorders of nervous system in diseases classified elsewhere			
Month 8 Metabolic bone disease block	osteoporosis osteoporosis	ICD-9-CM Dx	733.0	Osteoporosis	
		ICD-10-CM Dx	M810	Osteoporosis: Age-related osteoporosis without current pathological fracture	
		ICD-10-CM Dx	M816	Osteoporosis: Localized osteoporosis	

		ICD-10-CM Dx	M818	Osteoporosis: Other osteoporosis without current pathological fracture	
		ICD-10-CM Dx	Z87310	Osteoporosis: Personal history of (healed) osteoporosis fracture	
	hypercalcemia	ICD-9-CM Dx	275.42	Hypercalcemia	
		ICD-10-CM Dx	E83.52	Hypercalcemia	
	hyperkalemia	ICD-9-CM Dx	276.7	Hyperkalemia	
		ICD-10-CM Dx	E875	Hyperkalemia	
	Paget	ICD-9-CM Dx	731.0	Osteitis deformans without mention of bone tumor	
		ICD-9-CM Dx	731.1	Osteitis deformans in diseases classified elsewhere	
		ICD-10-CM Dx	M880-M889	Osteitis deformans [Paget's disease of bone]	
	Month 10	Adrenal insufficiency ¹	ICD-9-CM Dx	255.41	Glucocorticoid deficiency
ICD-9-CM Dx			255.42	Mineralocorticoid deficiency	
ICD-9-CM Dx			255.5	Other adrenal hypofunction	
ICD-10-CM Dx			E27.1	Primary adrenocortical insufficiency	
ICD-10-CM Dx			E27.2	Addisonian crisis	
ICD-10-CM Dx			E27.40	Unspecified adrenocortical insufficiency	
ICD-10-CM Dx			E27.49	Other adrenocortical insufficiency	
Hyperprolactinemia			ICD-9-CM Dx	253.1	Other and unspecified anterior pituitary hyperfunction
		ICD-10-CM Dx	E22.1	Hyperprolactinemia	
		ICD-9-CM Dx	227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct,	
		ICD-10-CM Dx	D35.2	Benign neoplasm of pituitary gland).	
		CPT	61548	Hypophysectomy or excision of pituitary tumor, transnasal or transeptal approach, nonsterotactic	
		CPT	61546	Craniotomy for hypophysectomy or excision of pituitary tumor, intracranial approach	
		CPT	62165	neuroendoscopy for excision of pituitary tumor, transnasal or transsphenoidal	
		NDC Code	0093-5420	Cabergoline	
		NDC Code	49884-673	Cabergoline	
		NDC Code	50090-3951	Cabergoline	
		NDC Code	50742-118	Cabergoline	

¹ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5686625/>

		NDC Code	59762-1005	Cabergoline	
		NDC Code	70518-2379	Cabergoline	
	Transgender patients ²	ICD-9-CM Dx	302.50	Trans-sexualism with unspecified sexual history	
		ICD-9-CM Dx	302.51	Trans-sexualism with asexual history	
		ICD-9-CM Dx	302.52	Trans-sexualism with homosexual history	
		ICD-9-CM Dx	302.53	Trans-sexualism with heterosexual history	
		ICD-9-CM Dx	302.6	Gender identity disorder in children	
		ICD-9-CM Dx	302.85	Gender identity disorder in adolescents or adults	
		ICD-10-CM Dx	F64.1	Gender identity disorder in adolescence and adulthood	
		ICD-10-CM Dx	F64.2	Gender identity disorder of childhood	
		ICD-10-CM Dx	F64.8	Other gender identity disorders	
		ICD-10-CM Dx	F64.9	Gender identity disorder, unspecified	
		ICD-10-CM Dx	Z87.890	Personal history of sex reassignment	
	Male hypogonadism ³ (please see appendix A of referenced paper – some codes have to be excluded)	ICD-9-CM Dx	253.2	Panhypopituitarism	
		ICD-9-CM Dx	253.4	Other anterior pituitary disorders	
		ICD-9-CM Dx	253.7	Iatrogenic pituitary disorders	
		ICD-9-CM Dx	257.1	Post-ablative testicular hypofunction	
		ICD-9-CM Dx	257.9	Unspecified testicular dysfunction	
		ICD-9-CM Dx	608.3	Atrophy of testis	
		ICD-9-CM Dx	758.7	Klinefelter syndrome	
		ICD-9-CM Dx	Exclude: 257.2	Other testicular hypofunction	
		ICD-9-CM Dx	Exclude: 302.71	Hypoactive sexual desire disorder	
		ICD-9-CM Dx	Exclude: 302.72	With inhibited sexual excitement	
		ICD-9-CM Dx	Exclude: 799.81	Decreased libido	
		ICD-10-CM Dx	E29.1	Testicular hypofunction	
		ICD-10-CM Dx	E230	Hypopituitarism	
		ICD-10-CM Dx	E236	Other disorder of the pituitary gland	
ICD-10-CM Dx		E231	Drug-induced hypopituitarism		
ICD-10-CM Dx		E893	Post-procedural hypopituitarism		
ICD-10-CM Dx		E895	Post-procedural testicular hypofunction		
ICD-10-CM Dx	E299	Testicular dysfunction unspecified			

²

[https://www.liebertpub.com/doi/full/10.1089/lgbt.2018.0175#:~:text=For%20the%20period%20before%20October,gender%20identity%20disorder%20in%20children%20\(](https://www.liebertpub.com/doi/full/10.1089/lgbt.2018.0175#:~:text=For%20the%20period%20before%20October,gender%20identity%20disorder%20in%20children%20()

³ <https://www.jsm.jssexmed.org/action/showPdf?pii=S1743-6095%2816%2930483-0>

		ICD-10-CM Dx	N500	Atrophy of the testes	
		ICD-10-CM Dx	Q984	Kleinfelter Syndrome unspecified	
		GPI codes	2310x, except 231000200003x, 23100030002900, 23100030302900, 23100020002900, 23100030102900, 23100005002900, 231000050001x, 23100020000105	Testosterone Replacement Therapy	
		CPT/HCPCS	11980, S0189, J3120, J3130, J3150, J3140, J1060, J1070, J1080, J0900	Testosterone Replacement Therapy	
Month 12	Obesity ⁴	ICD-9-CM Dx	79391	Image test inconclusive due to excess body fat	3.11.2 (only icd9, icd10 doesn't have 3 level CCS)
		ICD-9-CM Dx	278.00	Obesity, unspecified	
		ICD-9-CM Dx	278.01	Morbid obesity	
		ICD-9-CM Dx	278.03	Obesity hypoventilation syndrome	
		ICD-9-CM Dx	V85.30	Body Mass Index 30.0-30.9, adult	
		ICD-9-CM Dx	V85.31	Body Mass Index 31.0-31.9, adult	
		ICD-9-CM Dx	V85.32	Body Mass Index 32.0-32.9, adult	
		ICD-9-CM Dx	V85.33	Body Mass Index 33.0-33.9, adult	
		ICD-9-CM Dx	V85.34	Body Mass Index 34.0-34.9, adult	
		ICD-9-CM Dx	V85.35	Body Mass Index 35.0-35.9, adult	
		ICD-9-CM Dx	V85.36	Body Mass Index 36.0-36.9, adult	
		ICD-9-CM Dx	V85.37	Body Mass Index 37.0-37.9, adult	
		ICD-9-CM Dx	V85.38	Body Mass Index 38.0-38.9, adult	
		ICD-9-CM Dx	V85.39	Body Mass Index 39.0-39.9, adult	
		ICD-9-CM Dx	V85.41	Body Mass Index 40.0-44.9, adult	
		ICD-9-CM Dx	V85.42	Body Mass Index 45.0-49.9, adult	
		ICD-9-CM Dx	V85.43	Body Mass Index 50.0-59.9, adult	
		ICD-9-CM Dx	V85.44	Body Mass Index 60.0-69.9, adult	
		ICD-9-CM Dx	V85.45	Body Mass Index 70 and over, adult	

⁴ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6709187/pdf/medi-98-e16438.pdf>

		ICD-9-CM Dx	V85.54	Body Mass Index, pediatric, greater than or equal to 95th percentile for age	
		ICD-10-CM Dx	E66.01	Morbid (severe) obesity due to excess calories	
		ICD-10-CM Dx	E66.09	Other obesity due to excess calories	
		ICD-10-CM Dx	E66.1	Drug-induced obesity	
		ICD-10-CM Dx	E66.2	Morbid (severe) obesity with alveolar hypoventilation	
		ICD-10-CM Dx	E66.8	Other obesity	
		ICD-10-CM Dx	E66.9	Obesity, unspecified	
		ICD-10-CM Dx	Z68.30	Body mass index (BMI) 30.0-30.9, adult	
		ICD-10-CM Dx	Z68.31	Body mass index (BMI) 31.0-31.9, adult	
		ICD-10-CM Dx	Z68.32	Body mass index (BMI) 32.0-32.9, adult	
		ICD-10-CM Dx	Z68.33	Body mass index (BMI) 33.0-33.9, adult	
		ICD-10-CM Dx	Z68.34	Body mass index (BMI) 34.0-34.9, adult	
		ICD-10-CM Dx	Z68.35	Body mass index (BMI) 35.0-35.9, adult	
		ICD-10-CM Dx	Z68.36	Body mass index (BMI) 36.0-36.9, adult	
		ICD-10-CM Dx	Z68.37	Body mass index (BMI) 37.0-37.9, adult	
		ICD-10-CM Dx	Z68.38	Body mass index (BMI) 38.0-38.9, adult	
		ICD-10-CM Dx	Z68.39	Body mass index (BMI) 39.0-39.9, adult	
		ICD-10-CM Dx	Z68.41	Body mass index (BMI) 40.0-44.9, adult	
		ICD-10-CM Dx	Z68.42	Body mass index (BMI) 45.0-49.9, adult	
		ICD-10-CM Dx	Z68.43	Body mass index (BMI) 50-59.9, adult	
		ICD-10-CM Dx	Z68.44	Body mass index (BMI) 60.0-69.9, adult	
		ICD-10-CM Dx	Z68.45	Body mass index (BMI) 70 or greater, adult	
	Laparo-scopic Roux-en-Y gastric bypass	CPT4	43644	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)	
		CPT4	43645	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small intestine reconstruction to limit absorption	
		ICD9 Px	44.38	Laparoscopic gastroenterostomy	
		ICD10 Px	0D16479	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D1647A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D1647B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D1647L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	

		ICD10 Px	0D164J9	Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164JA	Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164JB	Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164K9	s	
		ICD10 Px	0D164KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164Z9	Bypass Stomach to Duodenum, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164ZA	Bypass Stomach to Jejunum, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164ZB	Bypass Stomach to Ileum, Percutaneous Endoscopic Approach	
		ICD10 Px	0D164ZL	Bypass Stomach to Transverse Colon, Percutaneous Endoscopic Approach	
		Laparo-scope sleeve gastrec-tomy	CPT4	43775	Laparoscopy, surgical, gastric restrictive procedure; longitudinal gastrectomy (ie, sleeve gastrectomy)
ICD9 Px	43.82		Laparoscopic vertical (sleeve) gastrectomy		
ICD10 Px	0DB64Z3		Excision of Stomach, Percutaneous Endoscopic Approach, Vertical		