

CPT 67228 - Panretinal Laser Photocoagulation	Original Effective Date:	01/01/2017
	Most Recent Review Date:	08/25/2023
CPT 67210 - Focal Macular Laser	Latest Revision Date:	01/02/2020

Scope:

Panretinal Photocoagulation (PRP) - Extensive laser treatment applied to the peripheral retina to abnormal blood vessels due to diabetic retinopathy, retinal vein occlusion, etc.

Focal Macular Laser - Laser treatment applied to surrounding macula for the treatment of macular edema due to diabetic retinopathy, retinal vein occlusion, etc.

Approval Process:

A. Non-clinical medical team approval authority for codes listed below:

CPT		
67228		TREATMENT OF EXTENSIVE OR PROGRESSIVE RETINOPATHY (EG, DIABETIC RETINOPATHY), PHOTOCOAGULATION
67210		DESTRUCTION OF LOCALIZED LESION OF RETINA (MACULAR EDEMA, TUMORS), ONE OR MORE SESSIONS; PHOTOCOAGULATION

ICD-10 Code	Description
E08.3211 - E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye - Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral
E08.3291 - E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye - Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral
E08.3311 - E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye - Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral
E08.3391 - E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye - Diabetes mellitus due to underlying

	condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral
E08.3411 - E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye - Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral
E08.3491 - E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye - Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral
E08.3511 - E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye - Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral
E08.3521 - E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye - Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
E08.3531 - E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye - Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
E08.3541 - E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye - Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
E08.3551 - E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye - Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral
E08.3591 - E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye - Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral

E08.37X1 - E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye - Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral
E09.3211 - E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye - Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral
E09.3291 - E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye - Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral
E09.3311 - E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye - Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral
E09.3391 - E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye - Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral
E09.3411 - E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye - Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral
E09.3491 - E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye - Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral
E09.3511 - E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye - Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
E09.3521 - E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye - Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral

E09.3531 - E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye - Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
E09.3541 - E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye - Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
E09.3551 - E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye - Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
E09.3591 - E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye - Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
E09.37X1 - E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye - Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral
E10.3211 - E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye - Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral
E10.3291 - E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye - Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral
E10.3311 - E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye - Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral
E10.3391 - E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye - Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral

E10.3411 - E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye - Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral
E10.3491 - E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye - Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral
E10.3511 - E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye - Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
E10.3521 - E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye - Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
E10.3531 - E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye - Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
E10.3541 - E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye - Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
E10.3551 - E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye - Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
E10.3591 - E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye - Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
E10.37X1 - E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye - Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral
E11.3211 - E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye - Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral

E11.3291 - E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye - Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral
E11.3311 - E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye - Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral
E11.3391 - E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye- Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral
E11.3411 – E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye - Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral
E11.3491 - E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye - Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral
E11.3511 - E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye - Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
E11.3521 - E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye - Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
E11.3531 - E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye - Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
E11.3541 - E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye - Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
E11.3551 - E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye - Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral

E11.3591 - E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye - Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
E11.37X1 - E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye - Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral
E13.3211 - E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye - Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral
E13.3291 - E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye - Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral
E13.3311 - E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye - Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral
E13.3391 - E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye - Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral
E13.3411 - E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye - Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral
E13.3491 - E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye - Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral
E13.3511 - E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye - Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral
E13.3521 - E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye - Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral

E13.3531 - E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye - Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
E13.3541 - E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye - Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
E13.3551 - E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye - Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
E13.3591 - E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye - Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
E13.37X1 - E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye - Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral
H21.1X1 - H21.1X3	Other vascular disorders of iris and ciliary body, right eye - Other vascular disorders of iris and ciliary body, bilateral
H30.21 - H30.23	Posterior cyclitis, right eye - Posterior cyclitis, bilateral
H34.11 - H34.13	Central retinal artery occlusion, right eye - Central retinal artery occlusion, bilateral
H34.231 - H34.233	Retinal artery branch occlusion, right eye - Retinal artery branch occlusion, bilateral
H34.8110 – H34.8132	Central retinal vein occlusion, right eye, with macular edema - Central retinal vein occlusion, bilateral, stable
H34.8310 – H34.8332	Tributary (branch) retinal vein occlusion, right eye, with macular edema - Tributary (branch) retinal vein occlusion, bilateral, stable
H34.9	Unspecified retinal vascular occlusion
H35.00	Unspecified background retinopathy
H35.021 - H35.023	Exudative retinopathy, right eye - Exudative retinopathy, bilateral
H35.051 - H35.053	Retinal neovascularization, unspecified, right eye - Retinal neovascularization, unspecified, bilateral
H35.061 - H35.063	Retinal vasculitis, right eye - Retinal vasculitis, bilateral

H35.151 - H35.153	Retinopathy of prematurity, stage 4, right eye - Retinopathy of prematurity, stage 4, bilateral
H35.21 - H35.23	Other non-diabetic proliferative retinopathy, right eye - Other non-diabetic proliferative retinopathy, bilateral
H35.711-H35.719	Central serous chorioretinopathy
H35.82	Retinal ischemia
H40.89	Other specified glaucoma
H43.11 - H43.13	Vitreous hemorrhage, right eye - Vitreous hemorrhage, bilateral

B. Medical necessity for conditions not listed above require medical director determination

Summary of Revisions:

Date	Revision
08/12/2020	Updated diagnosis list
01/01/2017	Added ICD-10 codes

References:

Center for Medicare and Medicaid Services (CMS), Regulations and Guidance; [Regulations & Guidance - Centers for Medicare & Medicaid Services, http://www.cms.gov/Regulations-and-Guidance/Regulations-and-Guidance.html](http://www.cms.gov/Regulations-and-Guidance/Regulations-and-Guidance.html);

Local Coverage Determinations (LCD); <https://www.cms.gov/medicare-coverage-database/overview-and-quick-search.aspx>

2018 PMIC Ophthalmology Coding Guide – A comprehensive Guide to Procedure and Diagnostic Coding in Ophthalmology