Gene	When to Start Screening	Clinical Screening	Biochemical and Laboratory Screening	Imaging Screening
Cluster 1A				
	10-15y	Annual: symptom questionnaire and blood pressure measurement.	Every 2 years: Plasma free or urinary	Every 2-3 years: MRI-HN and MRI-TAP.
SDHA, SDHC, SDHD-pi	Adulthood	Continue as above.	Annual: plasma free metanephrines.	MRI as above. Once: PET/CT ( <sup>68</sup> Ga-DOTA-SSA preferred).
	6-10y	Annual: symptom questionnaire and blood pressure measurement.	Every 2 years: Plasma free or urinary	Every 2-3 years: MRI-HN and MRI-TAP.
SDHB	Adulthood	Continue as above.	Annual: plasma free metanephrines.	MRI as above. Once: PET/CT ( <sup>68</sup> Ga-DOTA-SSA preferred).
FH	8y	Annual: dermatology evaluation (8y).		Baseline: MRI Abdomen (8y). Every 6 months: US Abdomen (12y).
	Adulthood	Continue as above. Annual: gynecologic evaluation (21y).		Annual: CT or MRI Abdomen (start at 18y). Annual: US Pelvis (start at 21y).
	Diagnosis		Annual: plasma free (or urinary) metanephrines.	
Cluster 1B				
VHL	Before 1y	Every 6-12 months: dilated eye exam.		
	1y	Continue as above. Annual: history and physical examination.		
	2y 5y	Continue as above, include BP and pulse on exam.  Continue as above.	Annual: plasma free metanephrines.	
			Continue as above.	Eveny 2 years: MPI Prain and Spine w/we contract
	11y	Continue as above. Every 2 years: audiogram.		Every 2 years: MRI Brain and Spine w/wo contrast.  Continue as above. Every 2 years: MRI Abdomen w/wo contrast. Once: MRI Inter
	15y	Continue as above.	Continue as above.	Auditory Canal.
	30y	Annual: history and physical examination, vital signs (BP and pulse), and dilated eye exam. Every 2 years: audiogram.	Continue as above.	Every 2 years: MRI Brain and Spine w/wo contrast and MRI Abdomen w/wo contrast
	65y	Annual: history and physical examination, vital signs (BP and pulse), and dilated eye exam.		
	Pregnancy	Preconception: history and physical examination and vital signs (BP and pulse). Preconception and every 6-12 months: dilated eye exam.	Preconception: plasma free metanephrines.	Preconception: MRI Brain and Spine w/wo contrast and MRI Abdomen w/wo contra
EPAS1/HIF2A	8y	Annual: history and physical examination and vital signs (blood pressure and pulse) measurements. Ophthalmology evaluation at diagnosis.	Annual: plasma free or urinary metanephrines. Monitor hemoglobin and hematocrit (unspecified interval).	Every 1-2 years: MRI-HN and MRI-TAP (at minimum, MRI abdomen). Echocardiogram diagnosis.
	20y	Continue as above. Assess for symptoms of somatostatinoma and other neuroendocrine tumors (e.g., gastrinoma).	Continue as above. Somatostatin level (unspecified interval).	Continue as above. Negative enteric contrast CT or endoscopy for somatostatino (unspecified interval).
Cluster 2				
RET (MEN2A)	3-5y (ATA-MOD)	Every 6-12 months: physical examination. Timing of prophylactic thyroidectomy based on screening data and shared decision-making for ATA-MOD but refer by 5y for ATA-H.	Every 6-12 months: serum calcitonin (those without thyroidectomy).	Every 6-12 months: US Neck (those without thyroidectomy).
	11y (ATA-H) or 16y (ATA-MOD)	Continue as above.	Annual: plasma free metanephrines or 24-hour urinary fractionated metanephrines, ionized (or albumin-corrected) calcium level ± serum intact PTH, and serum calcitonin.	Continue as above. If metanephrine screening positive: MRI or CT Adrenals.
RET (MEN2B)	Before 1y (ATA-HST)	Routine physical examinations. Refer for prophylactic thyroidectomy.	Every 6-12 months: serum calcitonin (those without thyroidectomy, start at 6mo).	Every 6-12 months: US Neck (those without thyroidectomy).
	11y (ATA-HST)	Routine physical examinations.	Annual: plasma free metanephrines or 24-hour urinary fractionated metanephrines.	If metanephrine screening positive: MRI or CT Adrenals.
NF1	1-12 months	At diagnosis: physical examination (especially cardiac, neurologic, dermatologic, and skeletal). Annual: ophthalmologic examination. Pediatric standards (timing varies): growth curves and developmental evaluation.		As needed based on physical examination findings.
	1-5y	Annual: measure HC and BP, physical examination (especially neurologic, dermatologic, and skeletal), ophthalmologic examination, assess for precocious puberty. Pediatric standards (timing varies): growth curves and developmental evaluation.		As needed based on physical examination findings.
	5y-Puberty	Annual: monitor growth, measure HC and BP, physical examination (especially neurologic, dermatologic, and skeletal), ophthalmologic examination, assess for precocious puberty. At least once: developmental evaluation and discuss reproductive planning.		As needed based on physical examination findings.
	Adolescence	Annual: blood pressure measurement, physical examination (especially neurologic, dermatologic, and skeletal). At least once: developmental evaluation and discuss reproductive planning. As needed: ophthalmologic examination.	Every 3 years: plasma free (or 24-hour urinary fractionated) metanephrines (start at 10-14y).	If metanephrine screening positive: MRA/MRI -AP (add functional imaging [MIBG o DOPA PET/CT] if negative).
	Adults	Annual: NF1-focused medical history and physical examination, blood pressure measurement.	Continue metanephrine screening as above (also check if symptomatic and hypertensive). Monitor and supplement to maintain 25-hydroxyvitamin D levels in sufficient range.	Consider baseline MRI for plexiform neurofibromas. Hypertensive (if < 30y, pregnar abdominal bruits): MRA abdomen. If metanephrine screening positive: MRA/MRI-AP functional imaging [MIBG or F-DOPA PET/CT] if negative). Annual (females): mammography (starting at 30y) and consider MRI Breast with contrast (30-50y).
MAX	Diagnosis	Annual: history and physical examination.	At diagnosis: plasma (or urinary) metanephrines, anterior pituitary endocrine panel, ionized (or albumin-corrected) calcium level, serum intact PTH.	At diagnosis: MRI-HN, MRI-TAP. Consider functional imaging ( <sup>68</sup> Ga-DOTATATE of DOPA PET/CT).
WIV				
TMEM127	22y	Annual: history and physical examination.	Annual: plasma free (or 24-hour urinary fractionated) metanephrines.	Every 1-3 years: MRI-AP.
	22y 18y	Annual: history and physical examination.  Annual: history and physical examination.		Every 1-3 years: MRI-AP.  Baseline: CT or MRI abdomen, then every 2 years (by 30y or sooner).

Table 2. Recommended screening for PPGL syndromes according to genetic classification. Adapted with permission from Kuo and Pacak 2025 (44). ATA-H, American Thyroid Association (ATA) high risk; ATA-HST, ATA highest risk; ATA-MOD, ATA moderate risk; BP, blood pressure; HC, head circumference; MRI-AP, MRI of abdomen and pelvis; MRI-HN, MRI of head and neck; MRI-TAP, MRI of thorax, abdomen, and pelvis; PTH, parathyroid hormone; SDHD-pi, paternally inherited SDHD pathogenic variant; MEN, multiple neuroendocrine neoplasia; CS, Carney syndrome; CSS, Carney-Stratakis syndrome; 3PA, 3 P association; NF1, neurofibromatosis type 1; TSC, tuberous sclerosis complex.