

Congenital hypertrophy of retinal pigment epithelium (CHRPE) occurs when patches of retinal pigment epithelium are thicker than normal and present on ophthalmological exam as multiple hyperpigmented lesions resembling “bear-tracks”. Despite a very remote malignancy risk, these fundus symptoms

typically do not cause symptoms or require treatment, but are important clinical findings to note in Gardner syndrome (GS) given their 90% sensitivity and early presentation in the progression of the syndrome.

Dental Abnormalities

[Abnormal-tooth and Numerous-teeth-on-ground](#)

Patients with GS may exhibit dental abnormalities in the form of supernumerary and unerupted teeth, odontomas, or dentigerous cysts.

Cutaneous Lesions

[Skin-suit with Leeches](#)

Cutaneous lesions associated with Gardner syndrome (GS) include epidermoid cysts, fibromas, lipomas and pilomatricomas. These epidermoid cysts are primarily found on the legs, face, scalp and arms while the fibromas occur on the scalp, shoulders, arms and back. None of the associated cutaneous lesions are malignant.

Adrenal Adenomas

[Adrenal-gland-roof and Add-gnome](#)

Adrenal adenomas, the most common form of adrenal tumor, are benign growths that can occur in Gardner syndrome, and are often found incidentally on radiographic imaging when looking for some other abdominal pathology.

Associations

Thyroid Cancer

[Thigh-droid with Tumor-guy](#)

Patients have an 8-fold increased risk of developing thyroid cancer over the general population. This is frequently in the form of papillary thyroid carcinoma.

Duodenal / Periapillary Cancer

[Dodo-bird-wearing-denim with Tumor-guy on Pear-amp](#)

Patients also have an increased risk of malignancy in the area surrounding the ampulla of Vater.

Pancreatic Cancer

[Pancreas with Tumor-guy](#)

Pancreatic cancer is 4 times more likely in these patients.

Hepatoblastoma

[Liver with Tumor-guy and gun-blast](#)

GS patients have an 800-fold increased risk of developing hepatoblastoma. This commonly occurs in the first 5 years of life.