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| **Supplemental Table 2.** Hereditary cancer syndromes associated with increased non-medullary thyroid cancer risk |
|  |  | **Patient** |  |
| **Syndrome** | **Gene** | **II.2** | **III.2** | **III.3** | **III.4** | **III.5** | **Notes** |
| Cowden syndrome (PTEN Hamartoma tumor syndrome) | PTEN | WT | WT | WT | WT | WT | - |
| Gardner syndrome (familial adenomatous polyposis syndrome) | APC | V1822D; Homo.;PolyPhen 2 Score = 0.000 | V1822D; Homo;PolyPhen 2 Score = 0.000 | V1822D; Homo.;PolyPhen 2 Score = 0.000 | V1822D; Homo.;PolyPhen 2 Score = 0.000 | V1822D; Homo.;PolyPhen 2 Score = 0.000 | Neutral or possible protective effect |
| Autosomal recessive familial adenomatous polyposis | MUTYH | T455P; Het | T455P; Het | T455P; Het | T455P; Het | T455P; Het | Only homozygous individuals affected. |
| Carney complex | PRKAR1A | WT | WT | WT | WT | WT | - |
| Peutz-Jeghers syndrome | STK11 | WT | WT | WT | WT | WT | - |
| Werner syndrome | WRN | WT | WT | WT | WT | WT | - |
| FNMTC | HABP2 G534E | WT | WT | WT | WT | WT | - |
| FNMTC | SRRM2 S346F | WT | WT | WT | WT | WT | P804T in 4/5 affected individuals; PolyPhen-2 0.000  |
| FNMTC | FOXE1 A248G  | WT | WT | WT | WT | WT | - |
| WT – wild-type; Homo – homozygous; Het - heterozygous |