

Hereditary Gastrointestinal Cancer Genetic Diagnosis Laboratory

遺傳性腸胃癌基因診斷化驗室

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Hereditary Non-polyposis Colorectal Cancer (HNPCC) syndrome

Table 1. Risk of cancer development in individuals with HNPCC up to the age of 70 compared to the general population

Cancer	General population risk	HNPCC	
		Risks	Mean age of onset
Colorectal	4-5%	52-80%	44 years
Endometrium (uterus)	1.5-2.7%	20-60%	46 years
Stomach	<1%	11-19%	56 years
Ovary	1.6%	9-12%	42.5 years
Hepatobiliary tract	<1%	2-7%	Not reported
Urinary tract	<1%	4-5%	~55 years
Small bowel	<1%	1-4%	49 years
Brain	<1%	1-3%	~50 years

Data source: Modified from GeneReviews on HNPCC

<http://www.genetests.org/query?dz=hnpcc>

Recommended screening protocol for HNPCC gene carrier

Site	Procedure	Starting age (yrs)	Interval (yrs)
Colon	Colonoscopy	20-25 after age 40	2 1*
Uterus (Endometrium) and ovaries	Gynaecological examination Endometrial aspirate Trans-abdominal/trans-vaginal ultrasound Serum ovarian tumour marker (CA-125)	30-35	1-2
Urinary tract	Ultrasound kidney and bladder Urine cytology	30-35	1-2
Stomach	Upper endoscopy (only for families with history of gastric cancer)	30-35	1-2

Based on recommendation of the International Society for Gastrointestinal Hereditary Tumours

<http://www.insight-group.org>

*Note: Yearly colonoscopy screening after age 40 is recommended by the American Cancer Society