

# 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