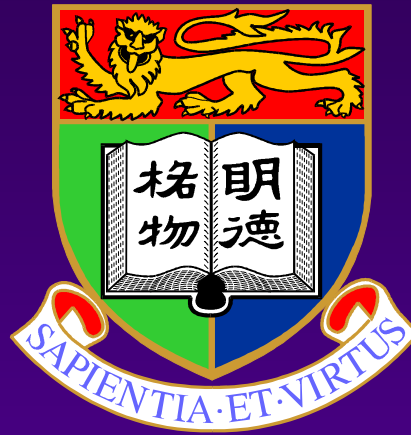


Guaiac vs. ICT screening



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Differences between East and West

- ◆ Food- vegetables
- ◆ Mixed dishes
- ◆ Dietary restriction is not successful
- ◆ Herbal medicine/ alternative medicine
- ◆ Nutritional supplements

Guaiac vs. immunochemical test for detection of colorectal neoplasia in a Chinese Population

Guaiac-FOBT Hemoccult SENSА (HOS)

vs.

Immunochemical test- FlexSure OBT (FS)

- ◆ 135 consecutive patients referred for colonoscopy
- ◆ Without dietary restrictions, 3 days sample
- ◆ Delayed development of HOS x 3 days

Results

	HOS (%)	FS (%)	P-value
Positivity in normal colon (n=100)	30	6	<0.001
Cancer detected (n=9)	100	89	NS
Significant neoplasia (n=11) Ca/adenoma \geq 1cm	91	82	NS
PPV for cancers	16	42	0.028
PPV for significant neoplasia	18	47	0.016

Discussion

- ◆ High positivity rate of 30% with HOS in normal colon, despite delay development
- ◆ FS, an immunochemical FOBT is more specific and accurate than HOS for the detection of significant colorectal neoplasia in Chinese.
- ◆ Subjective reading of results by experienced technical staffs

Evaluation of an automated immunochemical FOBT in a Chinese population

Fujirebio Magstream 1000 model

- ◆ **250 patients referred for colonoscopy**
- ◆ **No dietary restriction**
- ◆ **Sampling on 2 consecutive days**
- ◆ **Fully automated**
- ◆ **100 SU= 20ng/ml Hb solution or
0.2mgHb/g stool**

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氏名

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SAMPLE NO: 1234 PLATE COUNT: 112 03
PLATE NO: 1 92 WELL COUNT: 1163085.52

7	8	9	CLEAR	START
4	5	6	MODE	STOP
1	2	3	ACT	PAUSE
0	ENTER	ESC	SHIFT	SHIFT

MagStream 1000
FUJIREBIO INC

FEED READY

Magstream with different cut-off values

	FS (%)	Mag. cutoff 100 SU (%)	Mag. cutoff 70 SU (%)
Positivity in normal colon	6	13	7
Cancer detected	89	100	100
Significant neoplasia (Ca + adenoma \geq 1cm)	82	65	62
PPV for cancers	42	14	19
PPV for significant neoplasia	47	33	44

Wong BC et al, Aliment Pharmacol Ther 2003;18:941

Wong WM et al, Cancer 2003; 97: 2420

Advantage

- ◆ **Accurate and specific**
- ◆ **2 day sampling and easy to perform**
- ◆ **Fully automated and objective results**
- ◆ **Tailor cut-off for different populations**

Conclusion

- ◆ **Immunochemical FOBT is accurate and specific for the Chinese population**
- ◆ **Need to determine the best option among the immunochemical tests**

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