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**Colonic and Anorectal Disorders M2PK- A new immunochromatographic testing for colorectal carcinoma screening: Preliminary results**

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**Objective:** Colorectal cancer (CRC) is a fast rising cancer in the Asia- Pacific region. Many methods have been used to screen for CRC. These includes faecal occult blood test (FOBT) faecal DNA testing & colonoscopy. The M2 isoenzyme pyruvate kinase (M2PK) is an oncogenic protein (enzyme) which is shed from colorectal cancers and has been shown to be useful in the diagnosis of CRC. The aim of this study is to determine the sensitivity, specificity, positive and negative predictive values and diagnostic accuracy of this office based rapid screening kit. Colonoscopy to date is the Gold Standard for screening of CRC.

**Methods:** stools were collected from patients and controls only after at least 1 week from colonoscopy. The stool has to be formed again by a natural bowel movement and no inflammation/injury has occurred due to endoscopic procedure. The test was done according to manufacturer's instructions.

**Results:** Preliminary result of this on-going study on 76 patients with CRC and 107 controls is as shown in the table. Sensitivity= 69/76, 90.70 % (95% CI 82.19-95.47) Specificity= 104/107, 97.2% (95% CI 92.08-99.04) Positive predictive value: 69/72, 96.7% (95% CI 88.45-98.57) Negative predictive value: 104/111, 94.5% (95% CI 87.55-96.91) Diagnostic Accuracy= 94.1% (95% CI 90.23-97.01).

**Conclusion:** The M2PK screening tool is a highly sensitive and specific test for screening of CRC.

**Key Word(s):** 1.M2PK; 2. Colorectal carcinoma; 3.Screening

Colonoscopy results		
M2-PK test	CRC	No-CRC
<b>positive</b>	69	3
<b>negative</b>	7	104

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