



膠囊內視鏡在臨床上的應用- 首次台灣臨床經驗

**Video Capsule Endoscopy (VCE) in
Clinical Application Show Chwan
Memorial Hospital Experience—5 years**

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Introduction

- ❖ The small intestine is the most difficult part of the bowel to study because the methods available have many limitations.
- ❖ Video-capsule endoscopy (VCE) is painless and has been shown to produce high quality images of the entire small bowel



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The Given Diagnostic System Is Made up of 3 Elements

- ❖ M2A disposable imaging capsule
- ❖ Wireless recorder
- ❖ Computer workstation



The M2A Capsule Endoscopy Procedure

- ❖ Ingesting the M2A capsule simply requiring a 8-hour fasting
- ❖ Undergoing the procedure
- ❖ Viewing the results

Indications

- ❖ Obscure GI bleeding
- ❖ Iron deficiency anemia
- ❖ Unexplained abdominal pain with diarrhea
- ❖ Intestinal tumor
- ❖ Polyposis
- ❖ Crohn's disease
- ❖ Celiac disease

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秀傳紀念醫院
Show Chwan Memorial Hospital

Contraindications

- ❖ Intestinal obstruction
- ❖ Adhesion ileus
- ❖ Giant diverticulum
- ❖ Pacemaker
- ❖ Pregnancy

Show Chwan Experience

- ❖ Time : march 2002 to Dec 2007
- ❖ 409 cases with obscure GI bleeding
 - ❖ 201 man
 - ❖ 208 female
- ❖ Mean age : 51.6 y/o (12 to 88 years)
- ❖ Diagnostic rate : 309/409 (about 75.5%)

Diseases diagnosed by capsule endoscopy

Disease diagnosed	Case No.	Percentage
Vascular ectasia (angiodysplasia)	172	55.7%
Small bowel ulcer	29	9.4%
Active visible bleeding	25	8.1%
Lymphagiectasia	24	7.7%
Small bowel tumors	15	4.9%
Peptic ulcer	15	4.9%
Crohn's disease	12	3.9%
Parasites	7	2.2%
Small bowel ischemia	5	1.6%
Diverticulum with bleeding	5	1.6%

Surgical Operation with Pathological Report (n=36)

❖ Angiodysplasia with bleeding	30
❖ Lymphangiectasia with stricture	1
❖ Diverticulum with bleeding	3
❖ Diverticulum with stricture	1
❖ Foreignbody(fish bone with ulcer)	8
❖ Malignant tumor (Adenocarcinoma,GIST)	3

Conclusion

- ❖ Video capsule endoscopy of the small bowel is a safe and sensitive technique.
- ❖ The diagnostic rate was 75.5% in our study
- ❖ It is advisable to use this method as first choice in patients with obscure GI bleeding