Does video capsule endoscopy improve management and outcomes of inpatients? Talal Seoud MD¹, Jade Marhaba MD¹, Daniel Jamorabo MD¹

Background

Video capsule endoscopy (VCE) has become an important tool in the evaluation of the GI tract but its use the inpatient setting remains controversial. We aimed to evaluate if the use of VCE altered inpatient management and/or resulted in subsequent inpatient procedures and to assess length of hospital stay and costs directly related to VCE deployment

Methodology

This is a single-center observational study involving inpatients who presented to SBUH and underwent from 1/1/2018 VCE through 1/1/2022. Chi-square tests were used to compare proportions for categorical variables. T-tests were statistical determine used to significance for numerical variables. All analysis done on R (Version 3.65).

Results

206 inpatients presented to SBUH and underwent VCE from 1/1/2018 through 1/1/2022. 123 (59.7%) of those patients were male and 83 (40.3%) were female.

There were no variables associated with a risk for subsequent procedures after VCE deployment unless melena was present (OR 2.3, [1.3-4.1], p<0.0001).

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Table 1 Patient Characteristics
Mean Age (Standard deviation)
Mean Body Mass Index
Number of Women (%)
Number of Men (%)
Race, White, Number (%)
Table 2: Findings
Indication:
Melena
Anemia
Hematochezia
Abdominal pain
Subsequent procedure:
Colonoscopy
EGD
Push Enteroscopy
Single/Double-Balloon Enteroscopy
Type of lesion found on subsequent procedure
AVMs/Angioectasias
Ulcers
Polyps
Dieulafoy
Mass
None
Readmission for recurrent bleeding
Mean time of discharge after capsule read, hours
(SD)
Mean readmission time after discharge, days, (SI
Mean duration of stable Hemoglobin prior to cap
deployment, hrs, (SD)

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S,	122 (130)	
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osule	34.1 (21.4)	

Discussion

elena was least likely to resolve ior to VCE deployment and was the ly variable associated with a risk for bsequent procedures after VCE ployment.

stable hemoglobin level (Hgb) prior VCE deployment predicted a faster scharge and a less likelihood of admission.

longer duration of Hgb stability ior to VCE deployment predicted a ss likelihood of readmission.

Conclusions

CE has become an important tool in evaluation of the GI tract and ost notably for GI bleeding. Having stable Hgb prior to VCE deployment to faster discharge times and less tes of readmission.

