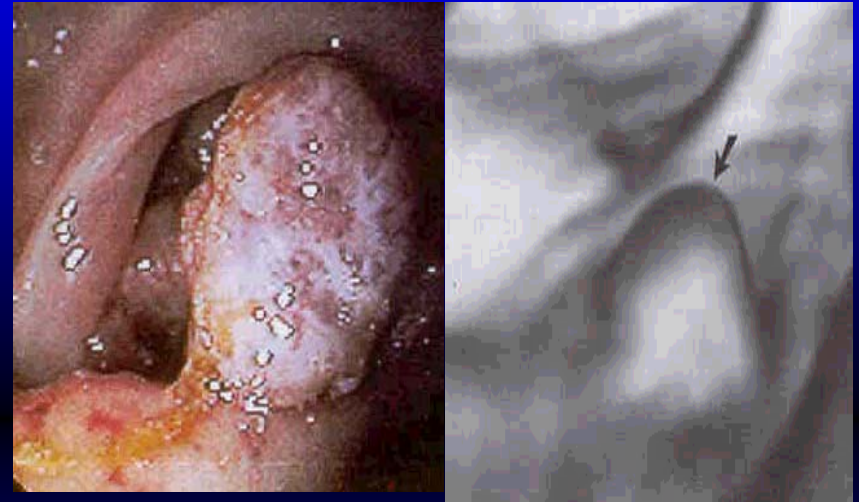


CT Colonography

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CT Colonography: Issues

- Sensitivity
- Inter-observer variability
- Prep
- Radiation
- Extracolonic findings
- Cost –
 - threshold for (+) test
 - rate of extracolonic findings

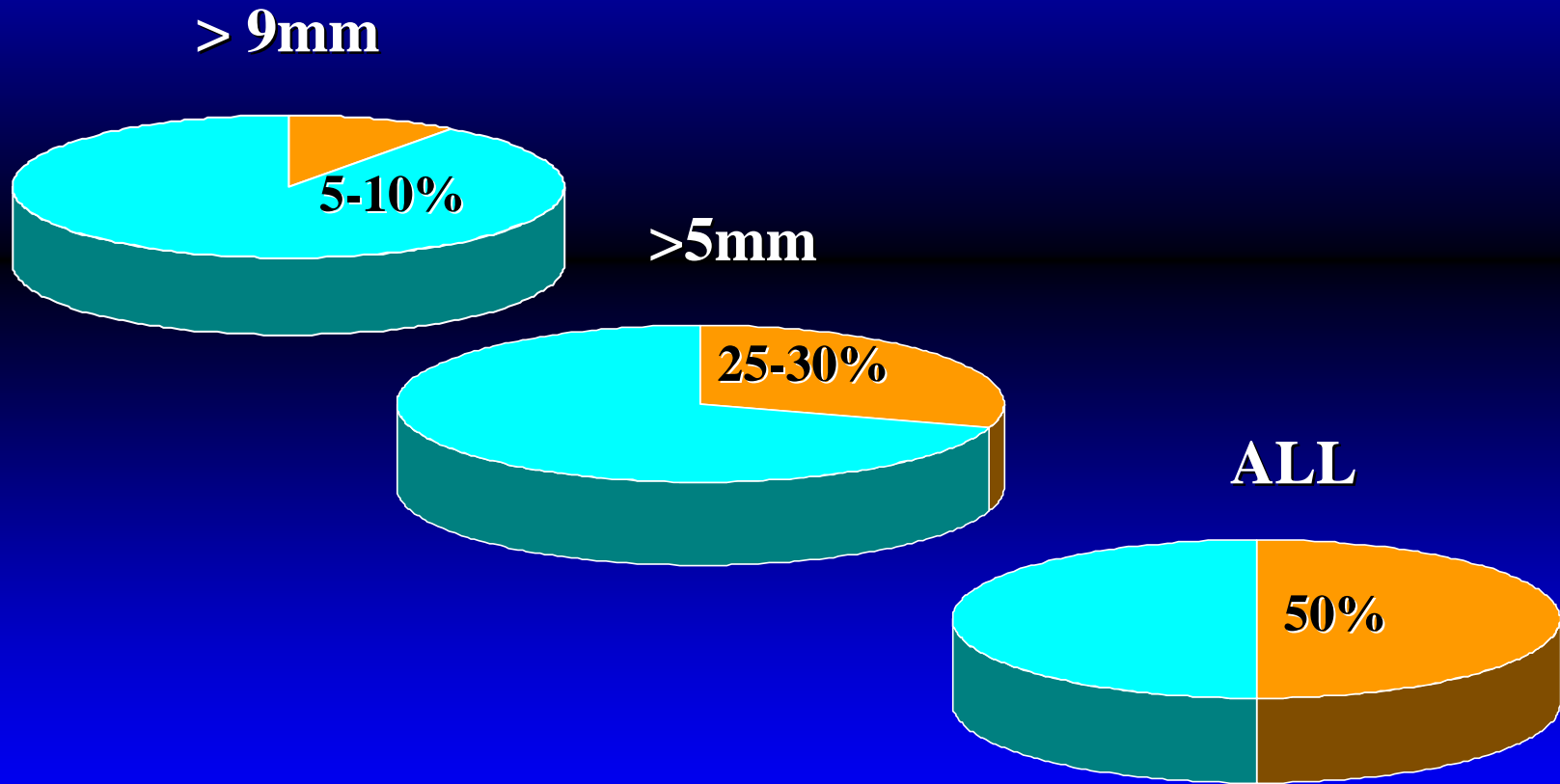


CT Colonography: Issues

- Sensitivity:
Detection of patients with adenomas >9mm:

	<u>Sensitivity</u>	<u>Specificity</u>
Pickhardt	94%	96%
Cotton	55	96
Rockey	59	96

CT Colonography: What is a positive test?



Pickhardt et al; NEJM 2003;349:2191-2200

Pedersen et al; Gut 2003; 52: 1744-7

Extracolonic Findings

- Pickhardt: 4.5% (“high clinical import)
- Pedersen: (n = 75)
 - 65% had extracolonic abnormalities
 - 12%: additional work-up indicated
- Types of serious findings
 - Ovarian CA
 - Renal cell CA
 - Lung tumors
 - Hepatic lesions
 - Adrenal lesions
 - Enlarged uterus

Possible Indications for CT

Assuming reproducible sensitivity for lesions > 9mm of 90% or more

- Incomplete colonoscopy
- Patients with high-risk for sedation
- Surveillance in low risk patients
- Evaluation of symptoms or (+) FOBT after adequate colonoscopy
 - Rationale: look for significant missed lesion

CT Colonography: Summary

- Evolving technology
 - Need to demonstrate reproducible high-level of sensitivity
- Small polyp threshold
 - The GI community needs to determine the appropriate threshold for referral for colonoscopy or repeat CT
- Cost Issues related to:
 - Polyp size threshold
 - Extracolonic finding evaluation