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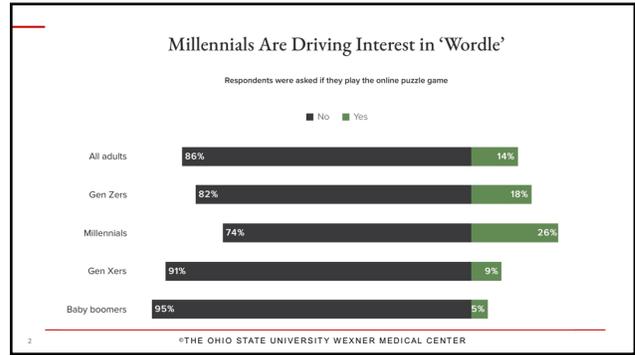


Aspiration and Propofol for Colonoscopy

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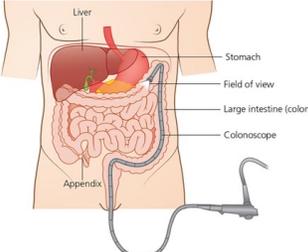
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Colonoscopy and Colon Cancer Screening

An exam using a tube-like instrument to look inside the rectum and colon for polyps, abnormal areas or cancer. Tissue samples can be collected (biopsy) and abnormal growths can be removed.



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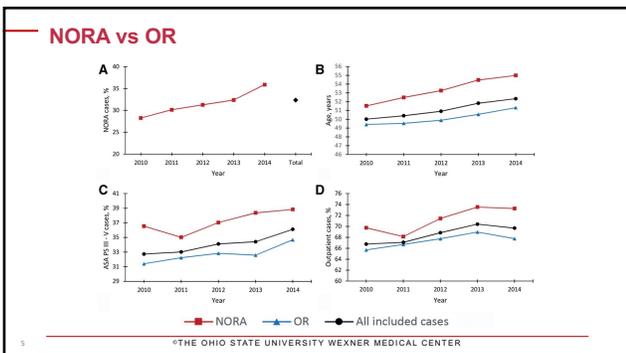
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Frequency Rank	Location	Year				Total	n	%
		2010	2011	2012	2013			
1	Colonoscopy	43.3	42.7	45.0	47.3	50.8	1,351,987	22.8
2	Esophagogastroduodenoscopy	35.2	36.1	36.6	36.4	37.6	1,166,442	19.7
3	Electroconvulsive therapy	12.0	12.1	10.2	8.8	6.4	256,165	4.3
4	Endoscopic retrograde cholangiopancreatography	5.8	5.8	5.4	4.9	3.2	145,015	2.4
5	Elective cardioversion	3.7	3.4	2.8	2.6	2.0	77,130	1.3
Total number		266,585	350,736	541,553	713,011	996,445	2,868,330	

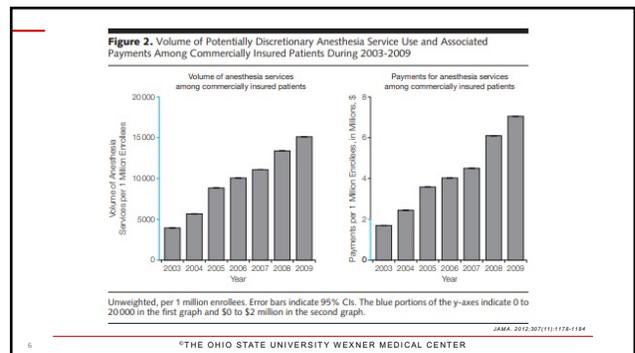
*Percent of all nonoperating room anesthesia cases included in this study.

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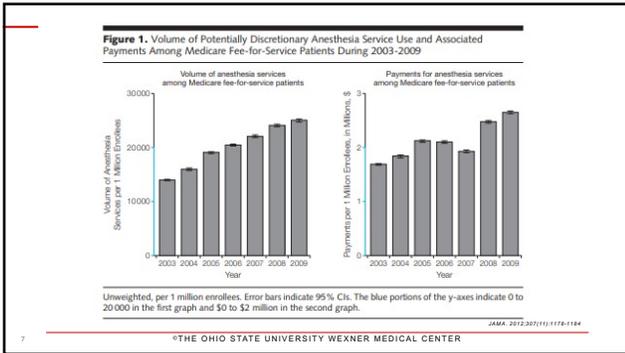
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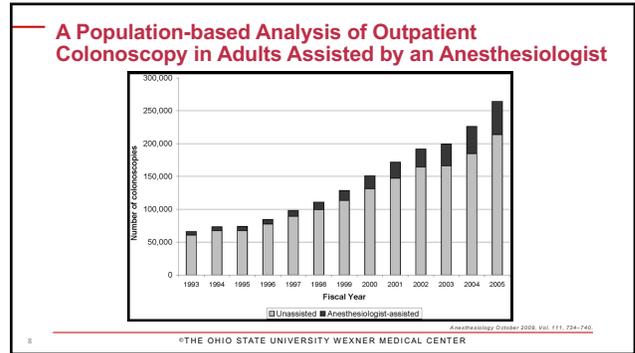
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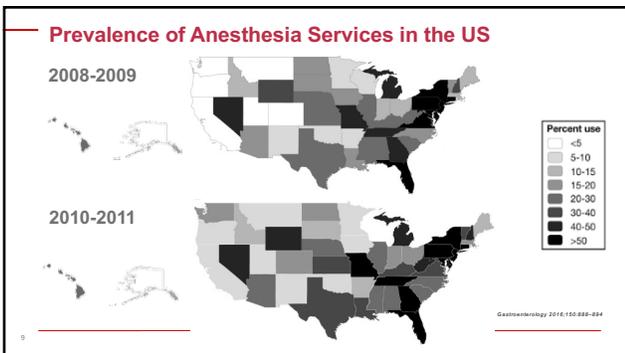
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Incidence of Colonoscopy-Related Bowel Perforation, Splenic Injury and Aspiration Pneumonia by Receipt of AA Following Outpatient Colonoscopy in Ontario Adults, 2005-2012 (n = 3,059,045) (AA, anesthesia assistance)

Outcome	Unassisted colonoscopy N = 2,196,228		Anesthesia-assisted colonoscopy N = 862,817		P value
	Events	Rate	Events	Rate	
Perforation	977	1 in 2248	419	1 in 2059	.133
Splenic injury	102	1 in 21,532	36	1 in 23,967	.58
Aspiration	112	1 in 19,609	74	1 in 11,660	<.001

<https://doi.org/10.1053/j.gastro.2017.08.014>

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Results of 4 Logistic Regression Models Examining the Effect of AA on Colonoscopy-Related Bowel Perforation, Aspiration Pneumonia, and Splenic Injury in a Propensity-Matched Cohort of AA for Outpatient Colonoscopy in Ontario, January 1, 2005 to December 31, 2012 (n = 1,586,146) (AA, anesthesia assistance; CI, confidence interval; OR, odds ratio)

Model	Outcome	Independent variable(s)	OR (95% CI)	P value
1	Perforation	Anesthesia	0.99 (0.84-1.16)	.885
		No anesthesia	Ref	
1a	Perforation	Anesthesia	0.99 (0.85-1.16)	.919
		No anesthesia	Ref	
		Therapy		
		Large polypectomy	7.60 (4.83-11.96)	<.001
		Dilation or stent placement	16.80 (8.80-32.06)	<.001
		Standard polypectomy	1.78 (1.52-2.10)	<.001
	Aspiration pneumonia	Biopsy	1.14 (0.88-1.46)	.326
		No therapy	Ref	
2	Aspiration pneumonia	Anesthesia	1.63 (1.11-2.37)	.012
		No anesthesia	Ref	
3	Splenic injury	Anesthesia	1.09 (0.62-1.90)	.771
		No anesthesia	ref	

<https://doi.org/10.1053/j.gastro.2017.08.014>

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ABSTRACT

In clinical research, study results, which are statistically significant are often interpreted as being clinically important. While statistical significance indicates the reliability of the study results, clinical significance reflects its impact on clinical practice. The third article in this series exploring pitfalls in statistical analysis clarifies the importance of differentiating between statistical significance and clinical significance.

[Perspect Clin Res. 2015 Jul-Sep; 6\(3\): 169-170.](https://doi.org/10.1053/j.gastro.2017.08.014)

Discussion

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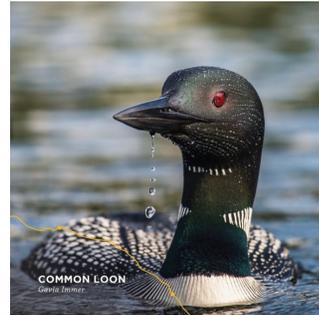
Questions

1. Does anything we discussed cause you to want to change your practice?
2. How does this information effect your thoughts on NPO guidelines (2, 4, 6, 8, hours for bowel prep)?
3. Do you believe you see much aspiration during colonoscopy at your institution?
4. How does the Canadian reimbursement system impact the cost distribution/burden compared to the US system?

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