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This is a Peer Reviewed Published version of the following article, accepted for publication in Journal of the American Medical Association.

2018-03-09

Recurrence of reflux after laparoscopic antireflux surgery : reply

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JAMA. 2018 Jan 2;319(1):83.

<http://doi.org/10.1001/jama.2017.17728>

<http://hdl.handle.net/10616/46266>

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Table. Prevalence of ASD in US Children and Adolescents, 2014-2016

Characteristic	No. With ASD/Total	ASD, % (95% CI) ^a	P Value
Overall	711/30 502 ^b	2.41 (2.17-2.65)	
Age, y			
3-11	403/17 267 ^b	2.42 (2.11-2.72)	.93 ^c
12-17	308/13 235 ^b	2.40 (2.03-2.76)	
Sex			
Male	545/15 727 ^b	3.54 (3.14-3.95)	<.001 ^c
Female	166/14 775 ^b	1.22 (0.98-1.47)	
Race/ethnicity ^d			
Hispanic	140/8111 ^b	1.78 (1.41-2.15)	.01 ^c
Non-Hispanic white	405/14 900 ^b	2.71 (2.36-3.05)	
Non-Hispanic black	89/4038 ^b	2.36 (1.66-3.07)	
Other	77/3453 ^b	2.45 (1.75-3.14)	
Geographic region			
Northeast	145/4742 ^b	3.05 (2.40-3.70)	.11 ^c
Midwest	148/6058 ^b	2.47 (1.93-3.01)	
South	234/10 775 ^b	2.21 (1.81-2.61)	
West	184/8927 ^b	2.24 (1.84-2.65)	
ASD prevalence by year			
2014	237/11 082	2.24 (1.89-2.59)	.23 ^e
2015	240/10 183	2.41 (1.98-2.84)	
2016	234/9237	2.58 (2.14-3.01)	

Abbreviation: ASD, autism spectrum disorder.

^a Prevalence estimates were weighted.

^b Unweighted number of participants involving all 3 years.

^c P value for overall differences in prevalence by strata.

^d Race and Hispanic ethnicity were self-reported and classified based on the 1997 Office of Management and Budget Standards.

^e P value for trend.

Critical revision of the manuscript for important intellectual content: Strathearn, Liu, Bao.

Statistical analysis: Xu.

Obtained funding: Bao.

Administrative, technical, or material support: Bao.

Supervision: Strathearn, Bao.

Conflict of Interest Disclosures: All authors have completed and submitted the ICMJE Form for Disclosure of Potential Conflicts of Interest and none were reported.

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COMMENT & RESPONSE

Recurrence of Reflux After Laparoscopic Antireflux Surgery

To the Editor Dr Maret-Ouda and colleagues assessed the outcome of laparoscopic antireflux surgery among 2655 patients

who underwent the operation in Sweden between 2005 and 2014.¹ They defined failure as postoperative use of antireflux medications or need for secondary antireflux surgery. The overall failure rate was 17.7%, and female sex, older age, and comorbidities were risk factors. Hospital volume of laparoscopic antireflux surgery was not associated with risk of recurrent reflux. They concluded that the high rate of recurrent reflux diminishes some of the benefits of the operation. The study has significant limitations that raise questions about the validity of the findings and the soundness of the conclusions.

First, many studies have shown that in the absence of Barrett esophagus, preoperative symptoms and endoscopic findings have a sensitivity for gastroesophageal reflux disease of only 58% to 70%.^{2,3} The authors did not provide any information about the preoperative work up in this cohort of patients. Second, the most common indication for laparoscopic antireflux surgery is incomplete relief of symptoms with proton pump inhibitor therapy. Based on this consideration, it is remarkable that 82.3% of patients after surgery had complete control of symptoms without any need for medications.

Third, symptoms are a poor indicator of recurrence of reflux after laparoscopic antireflux surgery, suggesting the need for objective evidence of recurrence of reflux before prescribing acid-reducing medications.^{4,5} Galvani et al showed that only 39% of patients with recurrent symptoms after laparoscopic antireflux surgery had recurrent reflux when esophageal function tests were performed.⁴ Furthermore, 68% of patients who were taking acid-reducing medications after surgery had a normal reflux status as determined by pH monitoring. Therefore, assessing failure based

on the use of antireflux medications overestimates the failure rate. Fourth, for an operation that usually requires a 23-hour stay, surgeon's volume rather than the hospital volume should be assessed.

In conclusion, we think that laparoscopic antireflux surgery, when performed for the proper indications by expert surgeons, is an effective treatment as it offers complete relief of symptoms to the majority of patients.

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Conflict of Interest Disclosures: The authors have completed and submitted the ICMJE Form for Disclosure of Potential Conflicts of Interest and none were reported.

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In Reply We do not believe that our view of the use of antireflux surgery is very different from that of Drs Patti and Schlottmann, but we would like to respond to the 4 potential limitations of the study that were brought to our attention.

First, it is correct that we had no information about the preoperative workup of each individual in this large cohort of patients. However, it is mandatory to conduct a careful preoperative assessment of each patient considered for antireflux surgery in Sweden, including symptom assessment, endoscopy, and 24-hour manometry and pH measurement. Only patients with objectively verified gastroesophageal reflux disease who have not benefited from medical treatment with proton pump inhibitor are considered for antireflux surgery. Second, we agree that antireflux surgery is often conducted in individuals with particularly severe symptoms or with incomplete relief of symptoms using medical therapy. Considering this, we also agree that the rate of reflux recurrence after antireflux surgery was indeed low in our study, even lower than in most previous studies on this topic, despite the complete follow-up of an unselected cohort.

The third comment concerns our assessment of recurrence of reflux after antireflux surgery. Assessing the presence or absence of gastroesophageal reflux disease is

sometimes difficult, but both endoscopy and 24-hour pH measurement have low sensitivity and specificity to assess this disease. Assessment of reflux symptoms also has a limited specificity, but it has a considerably higher sensitivity. Thus, current guidelines recommend that the diagnosis of gastroesophageal reflux disease is best established using typical reflux symptoms.¹ Based on this, we believe that reflux symptoms and use of antireflux medication are still the best currently available means of defining reflux recurrence after antireflux surgery. Fourth, Patti and Schlottmann suggest that surgeon volume would be a better assessment than hospital volume when evaluating the role of annual antireflux surgery volume. We did not have data on the individual operating surgeon, and hospital volume is still a reliable measure of annual surgery volume. Additionally, surgeon volume and hospital volume usually correlate quite strongly, particularly in Sweden where each department of surgery that conducts laparoscopic antireflux surgery contains very few surgeons specialized in antireflux surgery.

We agree that laparoscopic antireflux surgery is an excellent and probably underused treatment in many patients with gastroesophageal reflux disease, but patients and surgeons should be aware of the risk of recurrence.

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Conflict of Interest Disclosures: The authors have completed and submitted the ICMJE Form for Disclosure of Potential Conflicts of Interest and none were reported.

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Self-regulation of the Medical Profession and Maintenance of Certification

To the Editor The Viewpoint¹ regarding maintenance of certification (MOC) requirements and Texas Senate bill (SB) 1148 asked practicing physicians to make a leap of faith that many cannot accommodate. Unfortunately, that leap of faith is central to the author's argument.

As Dr Johnson pointed out, self-regulation is a core attribute of the learned professions. It encompasses the responsibility and authority to establish and enforce standards of education, training, and practice. Physicians routinely defend that responsibility and authority in advocating against the intrusion of all third parties (such as government, private insurers, or hospital administrators) into the practice of medicine.

However, as evidenced by their comments at the Texas Medical Association and American Medical Association House of Delegates and at the committee hearings on SB 1148, many physicians today simply do not acknowledge the certifying boards as "self." They are, instead, profit-driven organizations beholden to their own financial