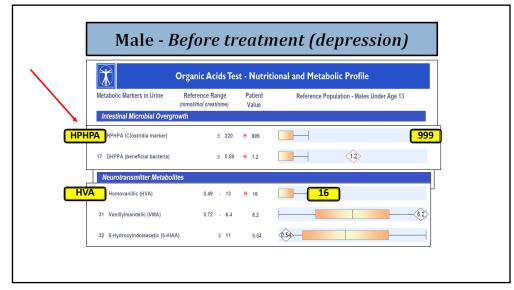
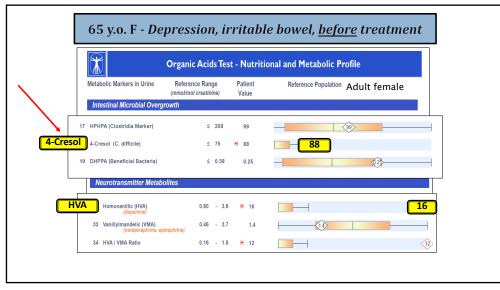


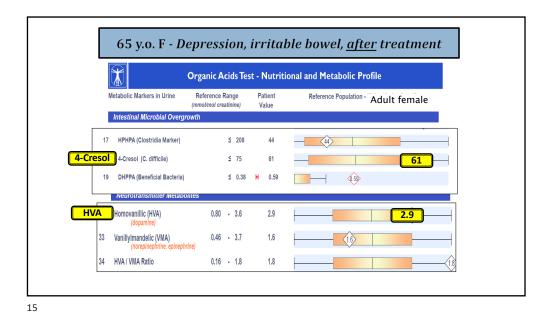
c 🕅	Organic Acids Test - Nutritional and Metabolic Profile							
Metabolic Markers in Urine	ine Reference Range (mmol/mol creatinine)			Patient	Reference Population - Males Under Age 13			
Intestinal Microbial Overgrou			,					
Bacterial Markers								
10 Hippuric	≤ 6	680	н	899	899			
11 2-Hydroxyphenylacetic	≤ 0	.86		0.84				
12 4-Hydroxybenzoic	≤ 3	3.0		2.6	2.6			
13 4-Hydroxyhippuric	≤ 3	30		12	12			
14 DHPPA (Beneficial Bacteria)	≤ 0).59		0.54	0.54			
Clostridia Bacterial Markers					Ŭ			
15 4-Hydroxyphenylacetic 2.0 (C. difficile, C. stricklandii, C. lituseburense & others)	- 3	32	н	41				
16 HPHPA (C. sporogenes, C. caloritelerans, C. botulinum & others)	≤ 2	220	н	420	420			
17 4-Cresol (C. difficile)	≤ 8	34	н	143	143			
18 3-Indoleacetic 0.60 (C. stricklandii, C. lituseburense, C. subterminale & other.		14		6.5	6.5			

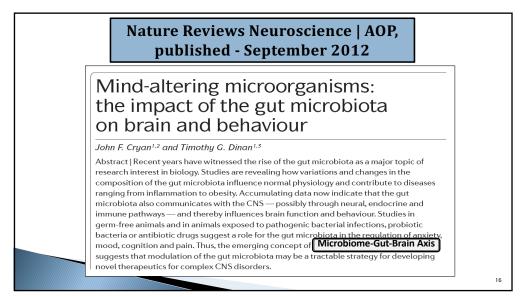


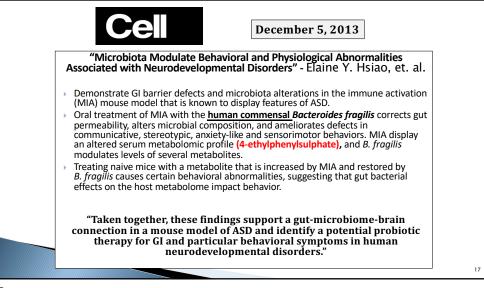
1/19/23

	Organic Acids Te	est - Nutri	tional and Metabolic Profile
Metabolic Markers in Uri Intestinal Microbial ((mmol/mol creatinine)	Patient Value	Reference Population - Males Under Age 13
A HPHPA (Clostridia m	narker) ≤ 22	0 199	-
17 DHPPA (beneficial ba	acteria) ≤ 0.8	59 0.21	¢2)
urotransmitter Me	etabolites		
30 Homovanillic (HVA)	0.49 - 13	5.1	5.1
31 Vanillylmandelic (VMA	A) 0.72 - 6.4	3.7	3.7

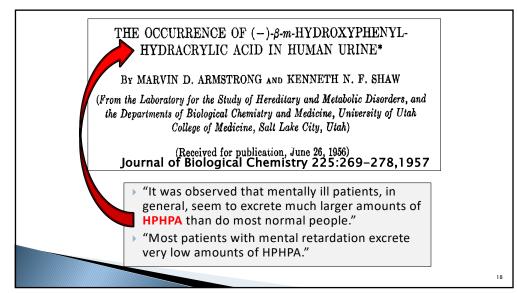


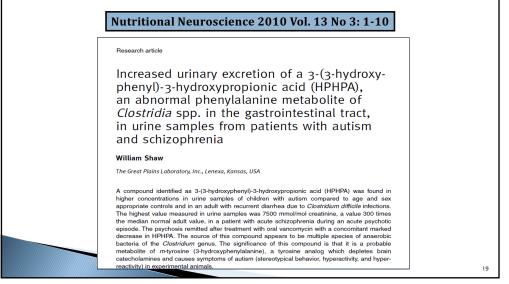


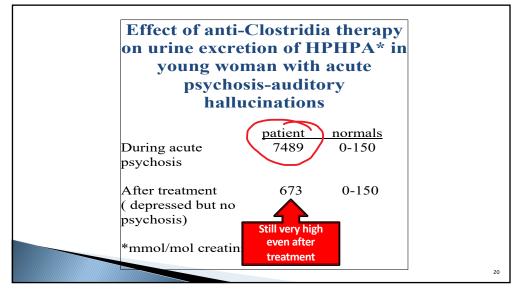




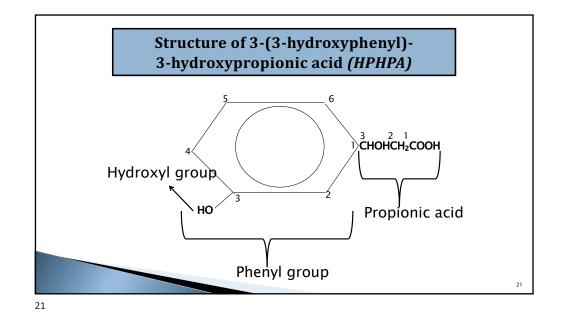


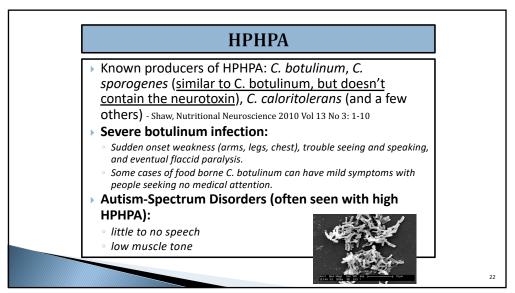


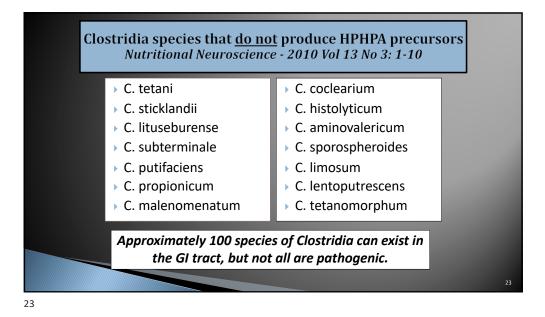


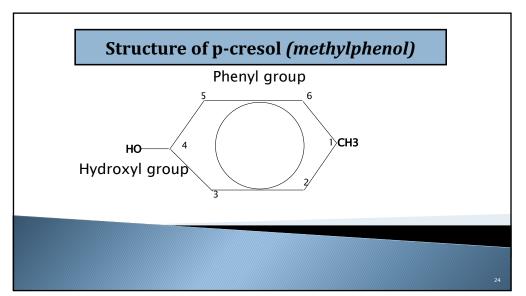


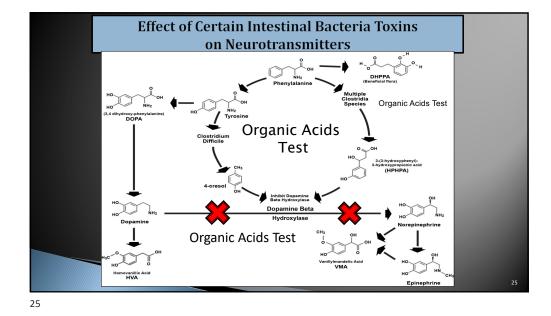
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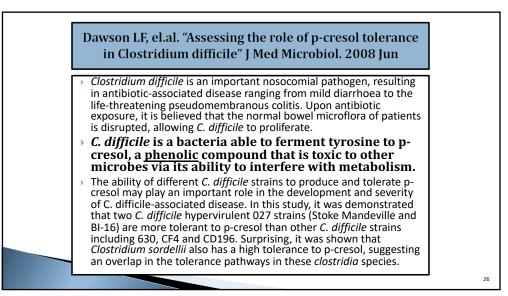


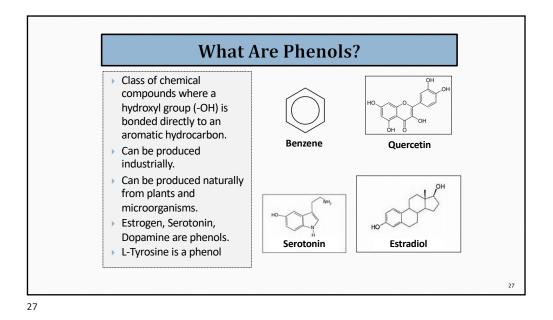


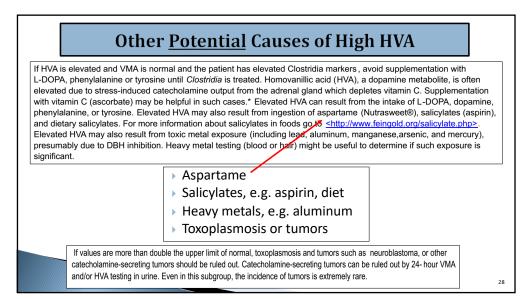


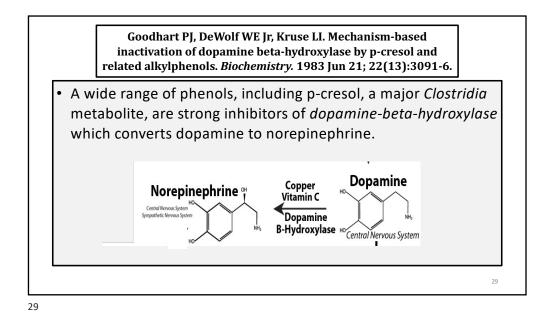


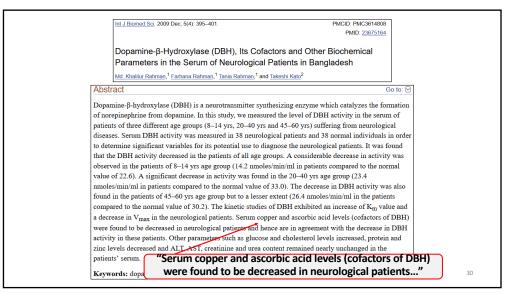


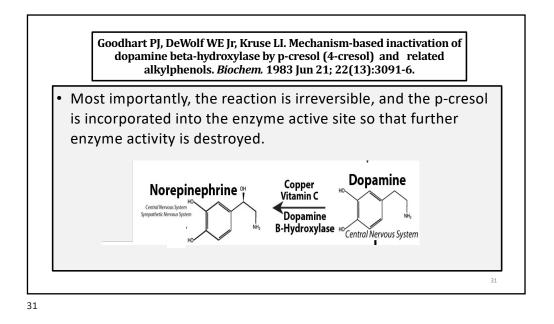


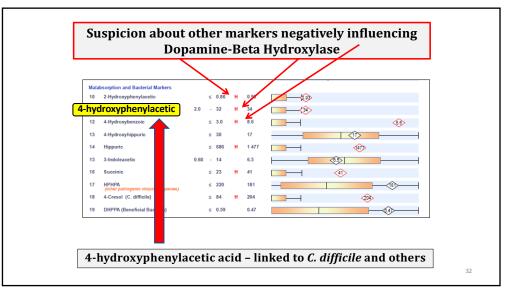




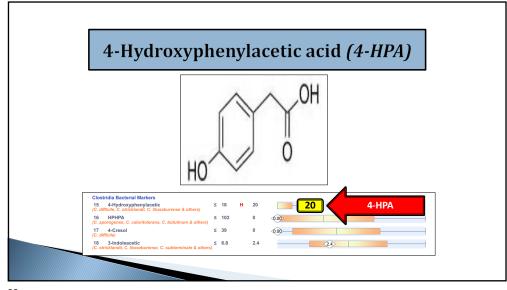


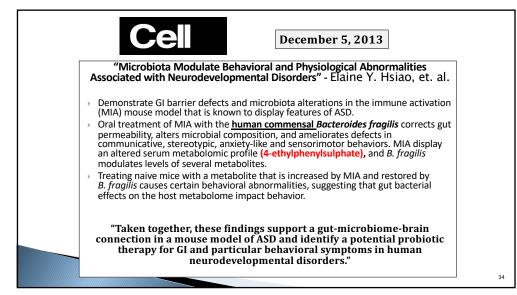


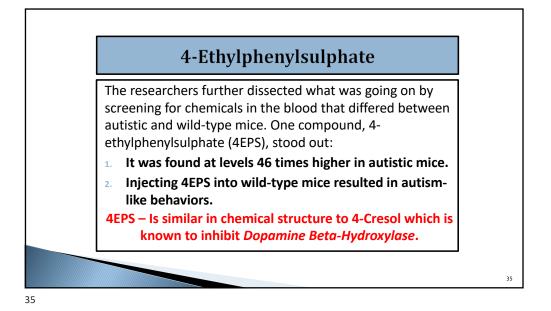


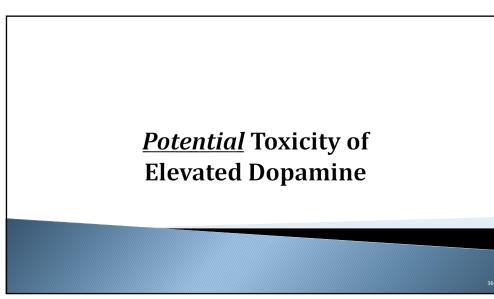


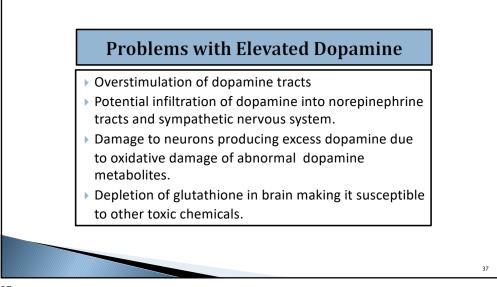
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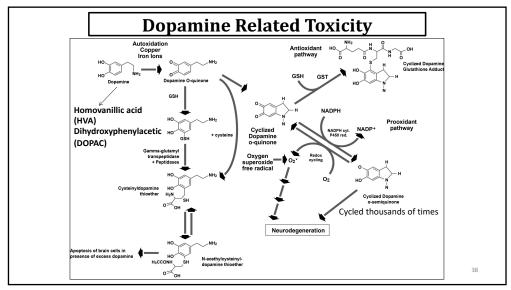


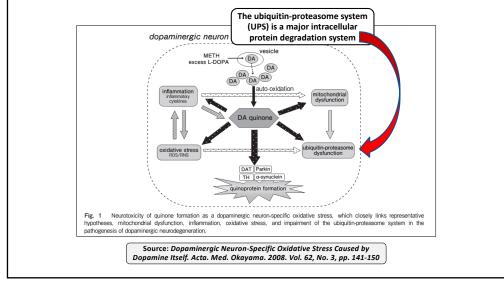




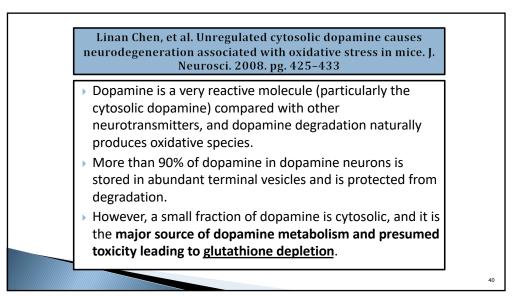


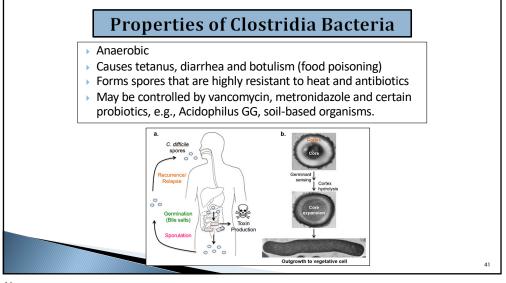


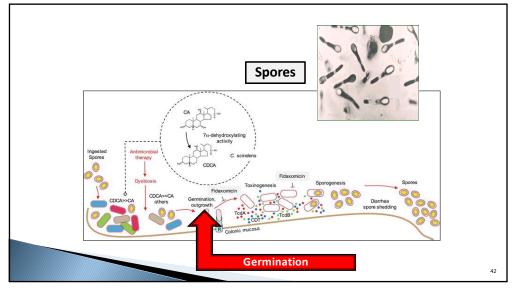


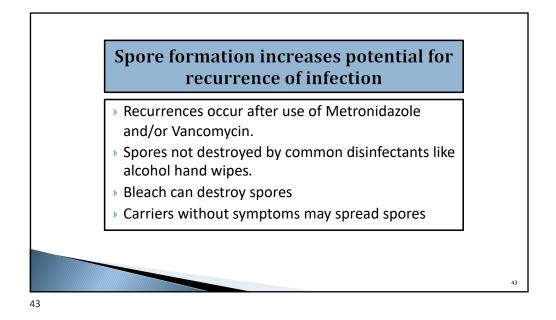


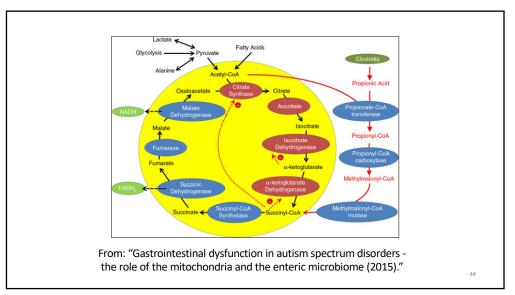


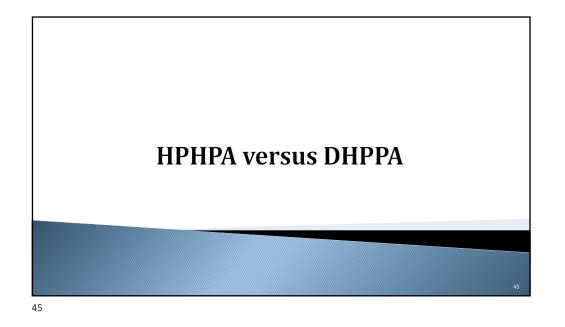


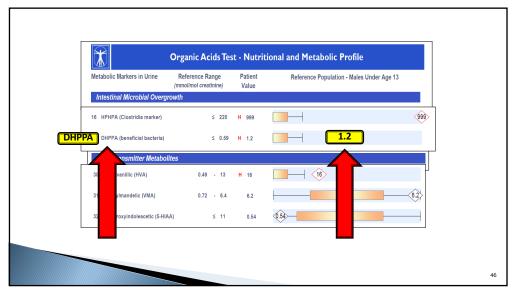


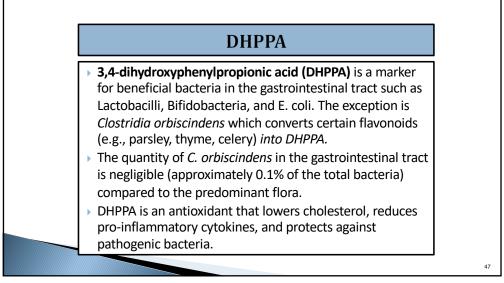


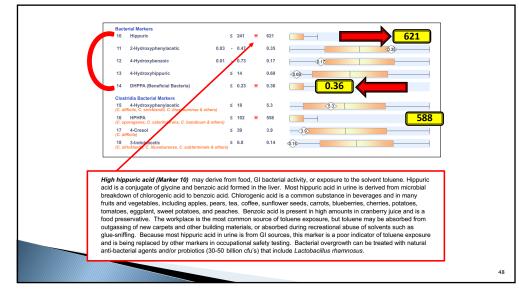


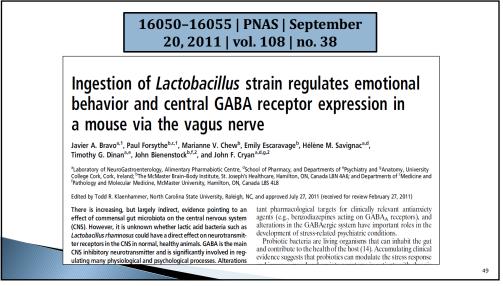


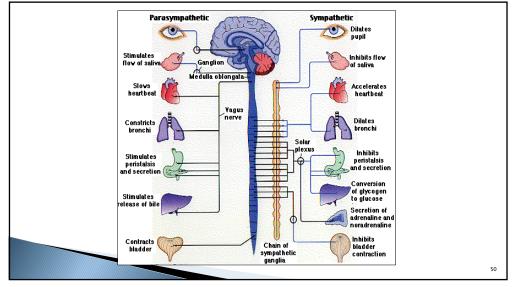


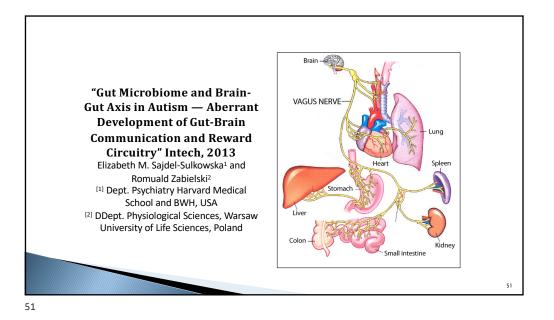


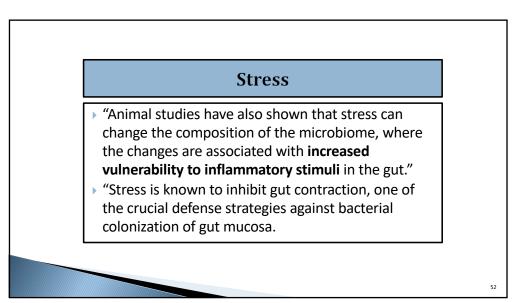


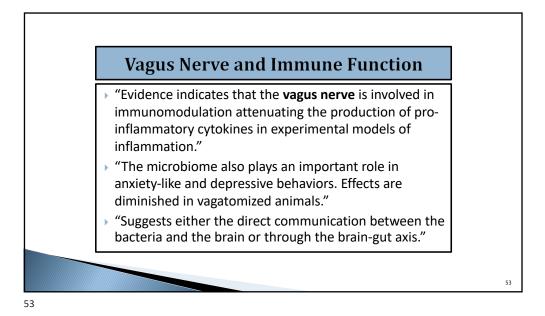


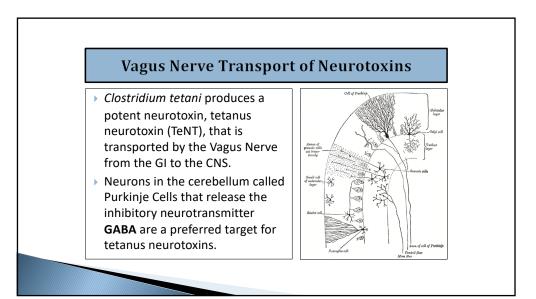


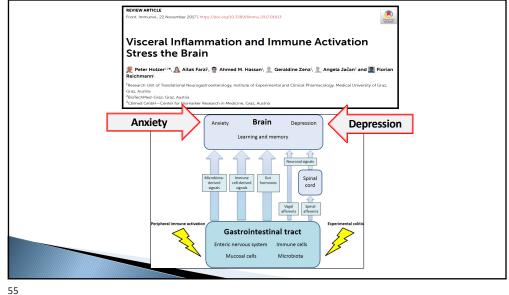


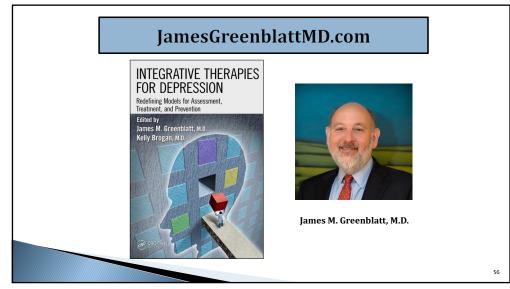


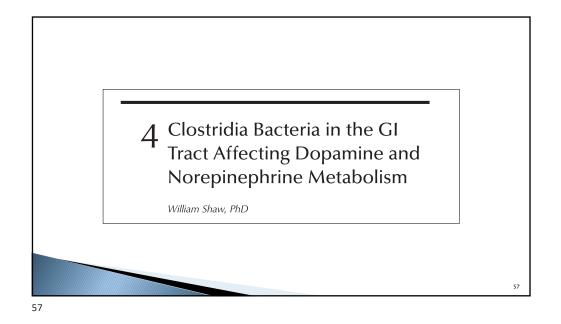


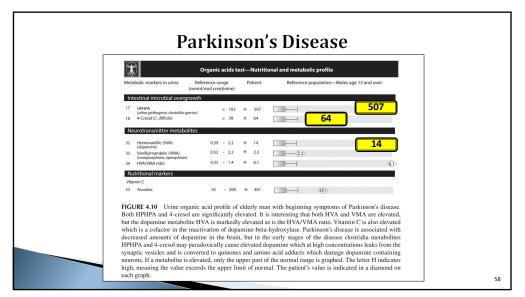












E. Svensson, et.al. *Vagotomy and subsequent risk of Parkinson's disease*; Ann Neurol 2015;78:522–52

Parkinson's disease (PD) may be caused by an enteric neurotropic pathogen entering the brain through the vagal nerve, a process that may take over 20 years.

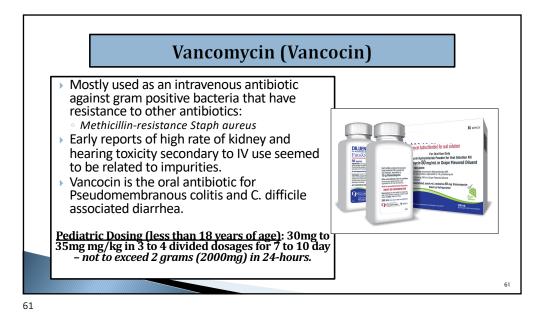
We investigated the risk of PD in patients who underwent vagotomy and hypothesized that truncal vagotomy is associated with a protective effect, whereas superselective vagotomy has a minor effect. Cohorts were constructed of all patients in Denmark who underwent vagotomy during 1977–1995 and a matched general population cohort by linking Danish registries. We used Cox regression to compute hazard ratios (HRs) for PD and corresponding 95% confidence intervals (CIs), adjusting for potential confounders.

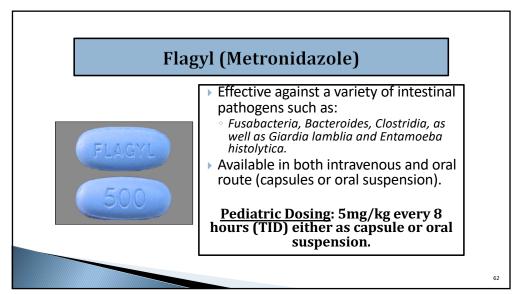
Results:

Risk of PD was decreased in patients who underwent truncal (HR = 0.85; 95% CI = 0.56–1.27; follow-up of >20 years: HR = 0.58; 95% CI: 0.28–1.20) compared to superselective vagotomy. Risk of PD was also decreased after truncal vagotomy when compared to the general population cohort (overall adjusted HR = 0.85; 95% CI: 0.63–1.14; follow-up >20 years, adjusted HR = 0.53; 95% CI: 0.28–0.99). In patients who underwent superselective vagotomy, risk of PD was similar to the general population (HR = 1.09; 95% CI: 0.84–1.43; follow-up of >20 years: HR = 1.16; 95% CI: 0.80–1.70). Statistical precision of risk estimates was limited.

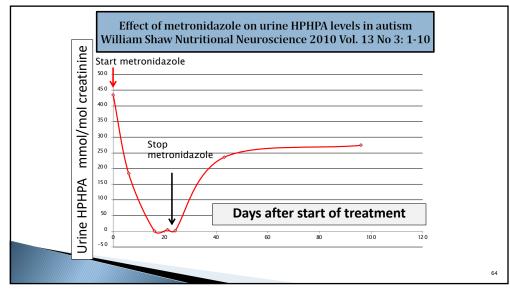
Full truncal vagotomy is associated with a decreased risk for subsequent PD, suggesting that the vagal nerve may be critically involved in the pathogenesis of PD.





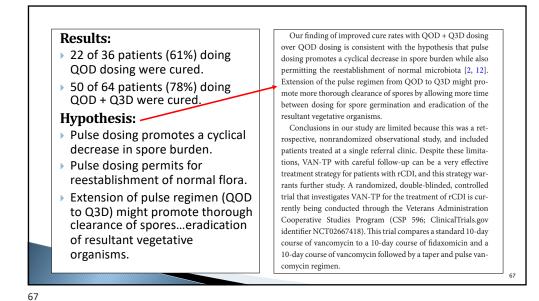








METHODS A records review was conducted for all patients seen at our clinic between 1 January 2009 and 31 December 2014. These patients were seen monthly with more frequent contacts as needed. All patients had at least 1 of their prior CDI episodes confirmed with a <i>C. difficile</i> stool assay (prior to July 2011 by toxin A/B immunoassay and afterward by polymerase chain reaction). Recurrent CDI was defined as ≥ 2 CDI episodes at the time of referral. Following referral, these patients were treated with a VAN-TP regimen defined as a taper of vancomycin to	 > 100 people with recurrent CDI (clostridia difficile infection) was defined as ≥ 2 CDI. > VAN-TP (vancomycin taper): • Taper of Vancomycin to once daily followed by QOD (every other day) X 2 weeks. • Taper of Vancomycin to once daily followed by QOD and then Q3D (every 3rd day) X 2 weeks.
once daily, followed by every-other-day (QOD) dosing, or once daily followed by QOD followed by every-third-day (Q3D) dos- ing for at least 2 weeks. All patients had follow-up documented for at least 90 days after completion of the VAN-TP regimen. Recurrent CDI was defined as recurrence of diarrheal symp- toms requiring re-treatment with a CDI-specific agent. Some	 All patients had follow-up for at least 90 days after completion of VAN-TP. Recurrent CDI = return of diarrheal symptoms requiring re-treatment.



 The Lancet Infectious Diseases

 Volume 18, Issue 3, March 2018, Pages 296-307

 Articles

 Extended-pulsed fidaxomicin versus vancomycin for

 Clostridium difficile infection in patients 60 years and

 older (EXTEND): a randomised, controlled, open-label,

 phase 3b/4 trial

 Prof Benoit Guery MD⁺ A, ^{IM}, Prof Francesco Menichetti MD⁺, Veli-Jukka Anttila MD⁺, Nicholas

 Adomakoh MBBS⁴, Prof Jose Maria Aguado MD⁺, Karen Bisnauthsing BSc⁻, Areti Georgopali MD⁴,

 Simon D Goldenberg MD⁺, Andreas Karas MD⁺, Gbenga Kazeem PhD⁻⁴, Chris Longshaw PhD⁴, Jose

 Alejandro Palacios-Fabrega PhD⁴, Prof Oliver A Cornely MD⁺, Maria J G T Vehreschild MD⁺,

 EXTEND Clinical Study Group 1

 B Show more

 https://doi.org/10.1016/S1473-3099(17)30751-X

Primary endpoint

was sustained

clinical cure 30

days after end of

treatment.

Fidaxomicin (Dificid) 200mg BID (days 1 - 5), then once daily QOD (days 7 - 25) versus Vancomycin 125mg QID (days 1 - 10) Methods In this randomised, controlled, open-label, superiority study, we recruited hometrialised adults ared 60 years and older with confirmed C difficile infection at the provided of the study of the study.

hospitalised adults aged 60 years and older with confirmed *C difficile* infection at 86 European hospitals. Patients were randomly assigned (1:1) using an interactive web response system to receive extended-pulsed fidaxomicin (200 mg oral tablets, twice daily on days 1–5, then once daily on alternate days on days 7–25) or vancomycin (125 mg oral capsules, four times daily on days 1–10), stratified by baseline *C difficile* infection severity, cancer presence, age (\geq 75 years *vs* <75 years), and number of previous *C difficile* infection occurrences. The primary endpoint was sustained clinical cure 30 days after end of treatment (day 55 for extendedpulsed fidaxomicin and day 40 for vancomycin), assessed in all randomised patients who met the inclusion criteria and received at least one dose of study medication (modified full analysis set). Adverse events were assessed in all patients who received at least one dose of study drug. The study is registered with ClinicalTrials.gov, number NCT02254967.

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Findings Between Nov 6, 2014, and May 5, 2016, 364 patients were enrolled and randomly assigned to receive extended-pulsed fidaxomicin or vancomycin. 362 patients received at least one dose of study medication (181 in each group). 124 (70%) of 177 patients in the modified full analysis set receiving extended-pulsed fidaxomicin achieved sustained clinical cure 30 days after end of treatment, compared with 106 (59%) of 179 patients receiving vancomycin (difference 11% [95% CI 1.0–20.7], p=0.030; odds ratio 1.62 [95% CI 1.04–2.54]). Incidence of treatment-emergent adverse events did not differ between extended-pulsed fidaxomicin (121 [67%] of 181) and vancomycin (128 [71%] of 181) treatment arms.

"70% of patients receiving Dificid extended-pulse achieved cure 30 days after end of treatment, compared with 59% receiving Vancomycin."

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