

**Note: The data below are based on cases identified as “Asperger Syndrome” N=1,199****PARENT RATINGS OF BEHAVIORAL EFFECTS OF BIOMEDICAL INTERVENTIONS**

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The parents of autistic children represent a vast and important reservoir of information on the benefits—and adverse effects—of the large variety of drugs and other interventions that have been tried with their children. Since 1967 the Autism Research Institute has been collecting parent ratings of the usefulness of the many interventions tried on their autistic children.

The following data have been collected from 1,199 parents who have completed our questionnaires designed to collect such information. For the purposes of the present table, the parents responses on a six-point scale have been combined into three categories: “made worse” (ratings 1 and 2), “no effect” (ratings 3 and 4), and “made better” (ratings 5 and 6). The “Better:Worse” column gives the number of children who “Got Better” for each one who “Got Worse.”

DRUGS	Parent Ratings					DRUGS	Parent Ratings					DRUGS	Parent Ratings				
	Got Worse <sup>A</sup>	No Effect	Got Better	Better: Worse	No. of Cases <sup>B</sup>		Got Worse <sup>A</sup>	No Effect	Got Better	Better: Worse	No. of Cases <sup>B</sup>		Got Worse <sup>A</sup>	No Effect	Got Better	Better: Worse	No. of Cases <sup>B</sup>
Aderall	38%	24%	38%	1.0:1	170	Desipramine	25%	50%	25%	1.0:1	12	<u>Phenobarb.</u> <sup>D</sup>					
Amphetamine	30%	28%	43%	1.4:1	105	<u>Dilantin</u> <sup>D</sup>						Behavior	37%	58%	5%	0.1:1	19
Anafranil	21%	40%	38%	1.8:1	52	Behavior	25%	69%	6%	0.2:1	16	Seizures	20%	27%	53%	2.7:1	15
Antibiotics	35%	45%	20%	0.6:1	97	Seizures	22%	33%	44%	2.0:1	9	Prolixin	0%	86%	14%		7
<u>Antifungals</u> <sup>C</sup>						Felbatol	0%	100%	0%		3	Prozac	28%	32%	39%	1.4:1	157
Diflucan	6%	35%	59%	9.7:1	49	Fenfluramine	0%	86%	14%		7	Risperidal	20%	27%	53%	2.7:1	161
Nystatin	9%	38%	53%	6.8:1	66	Halcion	60%	40%	0%		5	Ritalin	35%	30%	34%	1.0:1	374
Atarax	35%	35%	30%	0.9:1	40	Haldol	34%	37%	29%	0.8:1	35	<u>Secretin</u>					
Benadryl	29%	50%	20%	0.7:1	171	IVIG	20%	40%	40%	2.0:1	5	Intravenous	6%	44%	50%	8.0:1	16
Beta Blocker	11%	54%	36%	3.3:1	28	<u>Klonopin</u> <sup>D</sup>						Transderm.	0%	43%	57%		7
Buspar	18%	54%	29%	1.6:1	56	Behavior	12%	65%	24%	2.0:1	17	Stelazine	27%	73%	0%		11
Chloral						Seizures	0%	80%	20%		5	Steroids	47%	27%	27%	0.6:1	15
Hydrate	30%	55%	15%	0.5:1	20	Lithium	18%	43%	39%	2.1:1	44	<u>Tegretol</u> <sup>D</sup>					
Clonidine	23%	39%	39%	1.7:1	186	Luvox	26%	46%	28%	1.1:1	46	Behavior	31%	50%	19%	0.6:1	64
Clozapine	29%	50%	21%	0.7:1	24	Mellaril	32%	29%	38%	1.2:1	34	Seizures	30%	30%	40%	1.3:1	30
Cogentin	30%	50%	20%	0.7:1	10	<u>Mysoline</u> <sup>D</sup>						Thorazine	57%	33%	10%	0.2:1	21
Cylert	32%	54%	14%	0.4:1	69	Behavior	33%	67%	0%		3	Tofranil	25%	40%	36%	1.4:1	73
Deanol	0%	67%	33%		3	Seizures	0%	100%	0%		2	Valium	38%	43%	20%	0.5:1	40
<u>Depakene</u> <sup>D</sup>						Naltrexone	14%	28%	57%	4.0:1	14	<u>Zarontin</u> <sup>D</sup>					
Behavior	27%	38%	35%	1.3:1	63	Paxil	39%	26%	34%	0.9:1	87	Behavior	43%	57%	0%		7
Seizures	9%	61%	30%	3.5:1	23	Phenergan	34%	41%	24%	0.7:1	29	Seizures	0%	100%	0%		4
												Zoloft	28%	28%	43%	1.5:1	99

BIOMEDICAL/ NON-DRUG/ SUPPLEMENTS	Parent Ratings					BIOMEDICAL/ NON-DRUG/ SUPPLEMENTS	Parent Ratings				
	Got Worse <sup>A</sup>	No Effect	Got Better	Better: Worse	No. of Cases <sup>B</sup>		Got Worse <sup>A</sup>	No Effect	Got Better	Better: Worse	No. of Cases <sup>B</sup>
Calcium <sup>E</sup>	3%	61%	36%	12:1	168	Vitamin A	5%	61%	33%	6.2:1	93
Cod Liver Oil	5%	43%	52%	10:1	135	Vitamin B3	6%	44%	50%	9.0:1	72
Cod Liver Oil with Bethanecol	0%	58%	42%		12	Vit. B6/Mag.	5%	44%	51%	10:1	286
Colostrum	6%	53%	42%	7.5:1	36	Vitamin B12	8%	31%	61%	7.7:1	89
Detox. (Chelation) <sup>C</sup>	8%	15%	77%	10:1	65	Vitamin C	3%	50%	48%	17:1	181
Digestive Enzymes	2%	35%	63%	27:1	131	Zinc	4%	38%	58%	14:1	140
DMG	11%	48%	41%	3.7:1	210	<u>SPECIAL DIETS</u>					
Fatty Acids	3%	32%	65%	24:1	110	Candida Diet	2%	40%	59%	37:1	63
5 HTP	3%	55%	42%	13:1	31	Feingold Diet	0%	50%	50%		92
Folic Acid	6%	44%	50%	8.1:1	114	Gluten- /Casein- Free Diet	2%	28%	70%	35:1	200
Food Allergy Trtmnt	3%	35%	61%	19:1	93	Removed	1%	53%	45%	32:1	141
Hyperbaric Oxygen Therapy	17%	33%	50%	3.0:1	6	Chocolate					
Magnesium	11%	74%	16%	1.5:1	19	Removed Eggs	3%	63%	34%	14:1	119
Melatonin	4%	23%	74%	21:1	84	Removed Milk	2%	45%	54%	33:1	304
MT Promoter	33%	22%	44%	1.3:1	9	Products/Dairy					
NAET	0%	64%	36%		11	Removed Sugar	5%	50%	46%	9.8:1	193
P5P (Vit. B6)	12%	28%	60%	5.2:1	43	Removed Wheat	1%	45%	54%	56:1	206
Pepcid	0%	50%	50%		16	Rotation Diet	2%	40%	58%	35:1	60
SAME	11%	67%	22%	2.0:1	9	Specific Carbo- hydrate Diet	4%	37%	59%	16:1	27
St. Johns Wort	15%	75%	10%	0.7:1	20						
TMG	18%	39%	43%	2.3:1	49						
Transfer Factor	0%	82%	18%		11						

A. “Worse” refers only to worse behavior. Drugs, but not nutrients, typically also cause physical problems if used long-term.

B. No. of cases is cumulative over several decades, so does not reflect current usage levels (e.g., Haldol is now seldom used).

C. Antifungal drugs and chelation are used selectively, where evidence indicates they are needed.

D. Seizure drugs: top line behavior effects, bottom line effects on seizures.

E. Calcium effects are not due to dairy-free diet; statistics are similar for milk drinkers and non-milk drinkers.