

**Note: The data below are based on cases identified as “Asperger Syndrome” N=1,366****PARENT RATINGS OF BEHAVIORAL EFFECTS OF BIOMEDICAL INTERVENTIONS**

Autism Research Institute • 4182 Adams Avenue • San Diego, CA 92116

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 1,366 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>
Actos	20%	53%	27%	1.3:1	15	<b>Dilantin<sup>D</sup></b>						Prolixin	0%	88%	13%		8
Aderall	41%	25%	34%	0.8:1	220	Behavior	19%	75%	6%	0.3:1	16	Prozac	31%	32%	37%	1.2:1	185
Amphetamine	32%	28%	40%	1.2:1	121	Seizures	22%	44%	33%	1.5:1	9	Risperidal	20%	28%	52%	2.6:1	210
Anafranil	15%	46%	39%	2.6:1	74	Fenfluramine	13%	75%	13%	1.1:1	8	Ritalin	35%	29%	36%	1.0:1	413
Antibiotics	35%	43%	22%	0.6:1	149	Haldol	39%	39%	21%	0.5:1	38	<b>Secretin</b>					
<b>Antifungals<sup>C</sup></b>						IVIG	10%	40%	50%	5.0:1	10	Intravenous	13%	52%	35%	2.7:1	23
Diflucan	5%	35%	60%	11:1	92	<b>Klonopin<sup>D</sup></b>						Transderm.	0%	55%	45%		11
Nystatin	7%	43%	50%	7.5:1	119	Behavior	22%	61%	17%	0.8:1	23	Stelazine	11%	78%	11%	1.0:1	9
Atarax	32%	44%	24%	0.8:1	41	Seizures	0%	75%	25%		8	Steroids	41%	32%	27%	0.7:1	22
Benadryl	31%	45%	24%	0.8:1	191	Lithium	18%	47%	35%	2.0:1	57	<b>Tegretol<sup>D</sup></b>					
Beta Blocker	8%	54%	38%	5.0:1	26	Luvox	24%	44%	33%	1.4:1	55	Behavior	25%	50%	25%	1.0:1	64
Buspar	20%	46%	34%	1.7:1	65	Mellaril	32%	37%	32%	1.0:1	38	Seizures	21%	30%	48%	2.3:1	33
Chloral						<b>Mysoline<sup>D</sup></b>						Thorazine	47%	47%	6%	0.1:1	17
Hydrate	33%	50%	17%	0.5:1	24	Behavior	25%	75%	0%		4	Tofranil	20%	41%	39%	1.9:1	74
Clonidine	22%	38%	40%	1.8:1	207	Seizures	0%	100%	0%		3	Valium	34%	53%	13%	0.4:1	32
Clozapine	30%	48%	22%	0.8:1	27	Naltrexone	15%	35%	50%	3.3:1	20	Valtrex	25%	17%	58%	2.3:1	12
Clozapine	30%	48%	22%	0.8:1	27	Low Dose						<b>Zarontin<sup>D</sup></b>					
Cogentin	23%	54%	23%	1.0:1	13	Naltreone	8%	46%	46%	6.0:1	13	Behavior	38%	63%	0%		8
Cylert	35%	47%	18%	0.5:1	62	Paxil	39%	28%	33%	0.9:1	108	Seizures	0%	100%	0%		5
<b>Depakene<sup>D</sup></b>						<b>Phenobarb.<sup>D</sup></b>						Zoloft	31%	33%	36%	1.2:1	133
Behavior	25%	42%	34%	1.4:1	77	Behavior	44%	44%	11%	0.2:1	18						
Seizures	13%	48%	39%	3.0:1	31	Seizures	23%	38%	38%	1.7:1	13						
Desipramine	20%	47%	33%	1.7:1	15												

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>	4%	60%	36%	8.5:1	237	Transfer Factor	6%	61%	33%	6.0:1	18
Cod Liver Oil	5%	38%	57%	12:1	224	Vitamin A	5%	61%	34%	6.7:1	137
Cod Liver Oil with Bethanecol	5%	63%	32%	6.0:1	19	Vitamin B3	6%	44%	50%	7.8:1	94
Colostrum	5%	54%	41%	7.7:1	56	Vit. B6/Mag.	4%	44%	52%	13:1	362
Detox. (Chelation) <sup>C</sup>	4%	23%	74%	21:1	114	Vitamin B12 (oral)	5%	40%	55%	12:1	42
Digestive Enzymes	3%	33%	64%	23:1	218	Vitamin C	3%	49%	48%	14:1	242
DMG	10%	49%	41%	4.1:1	253	Zinc	4%	39%	58%	15:1	212
Fatty Acids	2%	32%	66%	28:1	173	<b>SPECIAL DIETS</b>					
5 HTP	9%	45%	45%	4.8:1	64	Candida Diet	2%	34%	64%	30:1	92
Folic Acid	8%	45%	48%	6.1:1	166	Feingold Diet	1%	35%	64%	70:1	110
Food Allergy Trtmnt	4%	34%	62%	17:1	138	Gluten- /Casein- Free Diet	2%	25%	72%	32:1	312
Hyperbaric Oxygen Therapy	12%	28%	60%	5.0:1	25	Low Oxalate Diet Removed	0%	43%	57%		14
Magnesium	10%	75%	15%	1.5:1	20	Chocolate	2%	49%	49%	27:1	162
Melatonin	4%	21%	74%	17:1	164	Removed Eggs	4%	58%	38%	9.0:1	143
Methyl B12 (nasal)	10%	43%	48%	5.0:1	21	Removed Milk	2%	39%	59%	28:1	379
Methyl B12 (subcut.)	12%	25%	63%	5.5:1	52	Products/Dairy					
MT Promoter	20%	50%	30%	1.5:1	10	Removed Sugar	3%	46%	52%	18:1	246
P5P (Vit. B6)	11%	36%	53%	4.7:1	80	Removed Wheat	2%	36%	62%	40:1	258
Pepcid	9%	48%	43%	5.0:1	23	Rotation Diet	3%	37%	61%	23:1	76
SAMe	35%	53%	12%	0.3:1	17	Specific Carbo- hydrate Diet	4%	21%	74%	18:1	47
St. Johns Wort	23%	68%	10%	0.4:1	31						
TMG	18%	43%	38%	2.1:1	76						

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.