



Liver Life® Study: ATEC Results

Stephanie Ray, ND

With help from Generation Rescue, we took a group of 11 children through a course of Liver Life® for 90 days, recording their pre and post ATEC (Treatment Evaluation Checklist). We are pleased to present the results of this intervention study with Liver Life®.

The following mean percent improvement was seen in the following areas:

- **19.35% Speech/Language/Communication**
- **40.53% Sociability**
- **39.35% Sensory/Cognitive Awareness**
- **38.89% Health/Physical Behavior**
- **35.99% Overall**



The ATEC consists of 4 subtests: I. Speech/Language Communication; II. Sociability; III. Sensory/Cognitive Awareness; and IV. Health/Physical/Behavior. The higher the number in each section, the more severe the symptoms are in that area. After utilizing Liver Life® for 3 months, ATEC scores significantly decrease from an initial mean total score of 82 to 53.

- 100% of participants experienced improvement overall.
- 6 participants improved in all 4 areas.
- 5 participants improved in 3 out of 4 areas.

How does Liver Life® support a healthy body and mind?

Some people with liver issues experience behavior or neurological issues. We often see high ammonia levels in people; this contributes to ‘spinning thoughts’, obsessive behaviors, communication issues and aggression. Liver Life® opens up detoxification pathways in the liver, increases excretion of acidic waste and decreases ammonia levels. In the ATEC results from this report we see a significant improvement that correlates with some of these issues in the area of Sociability, Sensory/Cognitive Awareness and Speech.

The liver is also responsible for processing fats, carbohydrates, excess hormones and histamines, manufacturing vitamins and minerals as well as storing and mobilizing them. With regular use of Liver Life®, we see a decreased need for high dose supplementation of nutrients including methyl b-12 shots. This indicates the liver is able to process and utilize b-12 from foods and supplements more efficiently.

Ultimately we have happier people who are no longer “liverish”; snappish or moody. In traditional Chinese herbalism we say: Stagnant liver chi is resolved. The liver is a valve for emotions in traditional Chinese herbalism. When the liver is congested or stagnant, emotions back up and create “pent up” feelings. When the liver is functioning well, a happier demeanor is noted as in this study.

Decongesting the liver is a key factor in balancing overall health and tolerating detoxification. A healthy functioning liver that is able to detoxify or filter toxins efficiently supports a healthy histamine response, fat metabolism, and decreases environmental irritations.

We’re thankful to the children who participated in this intervention study. Their contribution helps us understand how Liver Life® benefits all people, but particularly those with sensitivities that are sometimes hard to understand or resolve.

Stephanie Ray, ND^[SEP] | CEO/President BIORAY

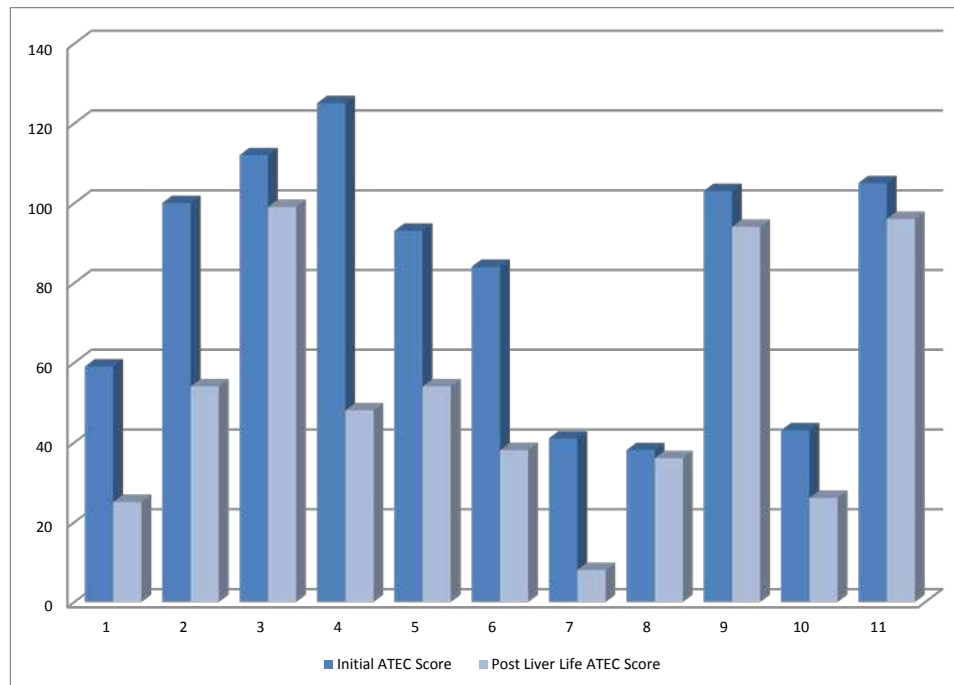
Bioray / Generation Rescue Liver Life Study Results



Overall

Participant ID	Initial ATEC Score	Post Liver Life ATEC Score	Change	Movement on Range	% Change	Initial ATEC Percentile	Post Liver Life ATEC Percentile
1	59	25	34	18.89%	57.63%	40-49	20-29
2	100	54	46	25.56%	46.00%	80-89	30-39
3	112	99	13	7.22%	11.61%	90-100	80-89
4	125	48	77	42.78%	61.60%	90-100	20-29
5	93	54	39	21.67%	41.94%	80-89	30-39
6	84	38	46	25.56%	54.76%	70-79	20-29
7	41	8	33	18.33%	80.49%	10-19	0-9
8	38	36	2	1.11%	5.26%	10-19	10-19
9	103	94	9	5.00%	8.74%	80-89	80-89
10	43	26	17	9.44%	39.53%	20-29	0-9
11	105	96	9	5.00%	8.57%	90-100	80-89
Total	903	578	325	-	35.99%	-	-
Mean	82	53	30	16.41%	35.99%	60-69	30-39
Median	100	54	46	18.33%	46.00%	80-89	20-29

Range = 0 - 180

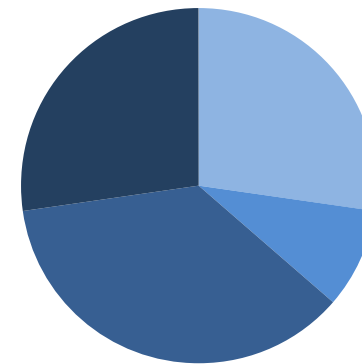


Results Summary

	Initial Severity	% of Study (Initial)	Post Liver Life Severity	% of Study (Post)
>30	3	27%	6	55%
>50	1	9%	2	18%
50-103	4	36%	3	27%
>104	3	27%	0	0%

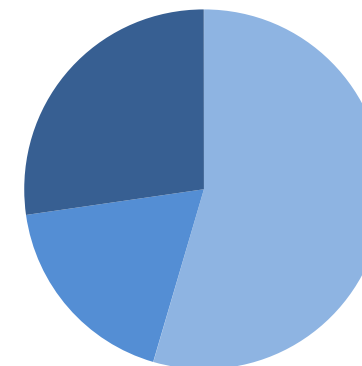
Initial Severity

■ >30 ■ >50 ■ 50-103 ■ >104



Post Liver Life Severity

■ >30 ■ >50 ■ 50-103 ■ >104



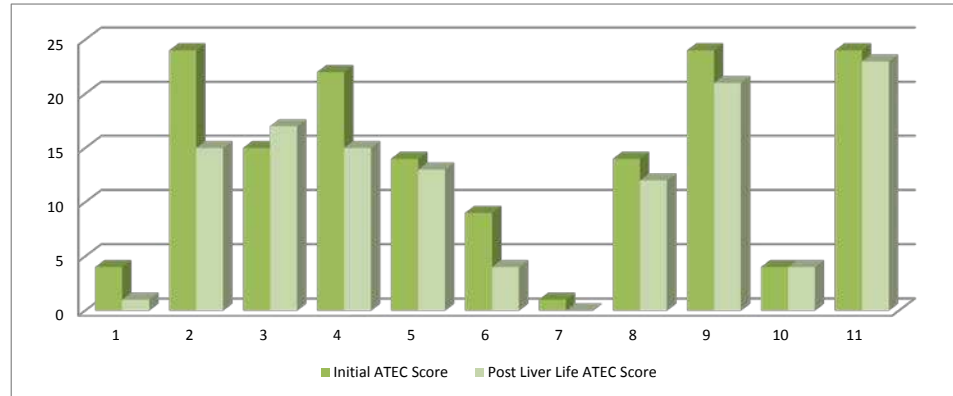
Bioray / Generation Rescue Liver Life Study Results



Speech / Language / Communication

Participant ID	Initial ATEC Score	Post Liver Life ATEC Score	Change	Movement on Range	% Change
1	4	1	3	10.71%	75.00%
2	24	15	9	32.14%	37.50%
3	15	17	-2	-7.14%	-13.33%
4	22	15	7	25.00%	31.82%
5	14	13	1	3.57%	7.14%
6	9	4	5	17.86%	55.56%
7	1	0	1	3.57%	100.00%
8	14	12	2	7.14%	14.29%
9	24	21	3	10.71%	12.50%
10	4	4	0	0.00%	0.00%
11	24	23	1	3.57%	4.17%
Total	155	125	30	-	19.35%
Mean	14	11	3	9.74%	19.35%
Median	15	15	0	7.14%	-

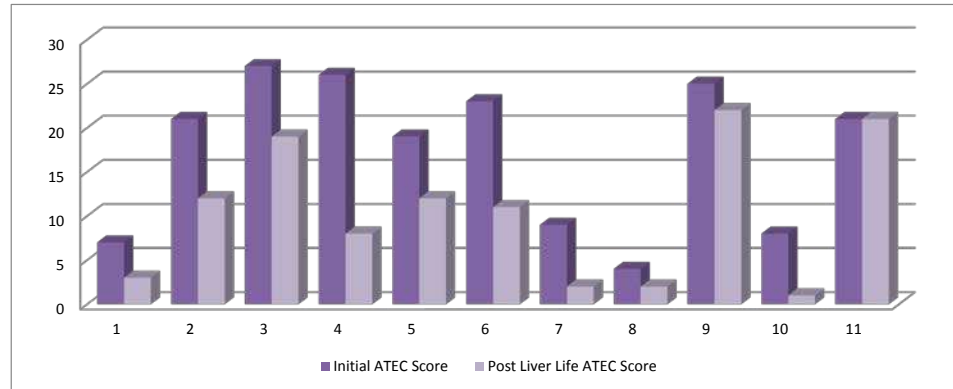
Range = 0 - 28



Sociability

Participant ID	Initial ATEC Score	Post Liver Life ATEC Score	Change	Movement on Range	% Change
1	7	3	4	10.00%	57.14%
2	21	12	9	22.50%	42.86%
3	27	19	8	20.00%	29.63%
4	26	8	18	45.00%	69.23%
5	19	12	7	17.50%	36.84%
6	23	11	12	30.00%	52.17%
7	9	2	7	17.50%	77.78%
8	4	2	2	5.00%	50.00%
9	25	22	3	7.50%	12.00%
10	8	1	7	17.50%	87.50%
11	21	21	0	0.00%	0.00%
Total	190	113	77	-	40.53%
Mean	17	10	7	17.50%	40.53%
Median	21	12	9	17.50%	42.86%

Range = 0 - 40



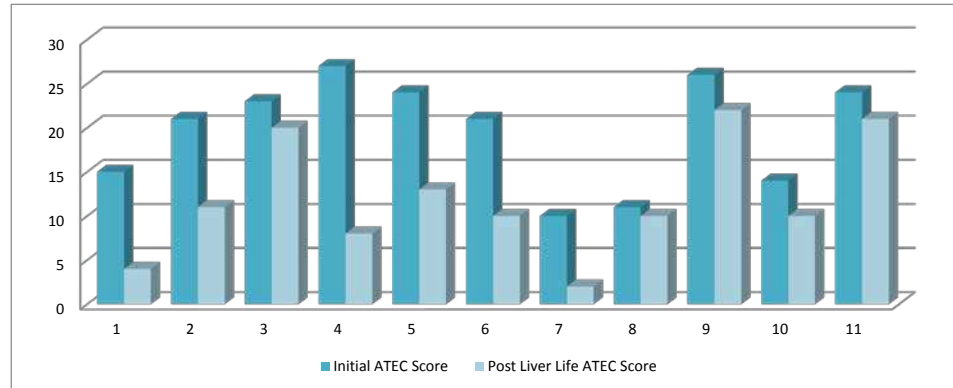
Bioray / Generation Rescue Liver Life Study Results



Sensory / Cognitive Awareness

Participant ID	Initial ATEC Score	Post Liver Life ATEC Score	Change	Movement on Range	% Change
1	15	4	11	30.56%	73.33%
2	21	11	10	27.78%	47.62%
3	23	20	3	8.33%	13.04%
4	27	8	19	52.78%	70.37%
5	24	13	11	30.56%	45.83%
6	21	10	11	30.56%	52.38%
7	10	2	8	22.22%	80.00%
8	11	10	1	2.78%	9.09%
9	26	22	4	11.11%	15.38%
10	14	10	4	11.11%	28.57%
11	24	21	3	8.33%	12.50%
Total	216	131	85	-	39.35%
Mean	20	12	8	21.47%	39.35%
Median	23	11	12	22.22%	52.17%

Range = 0 - 36



Health / Physical Behavior

Participant ID	Initial ATEC Score	Post Liver Life ATEC Score	Change	Movement on Range	% Change
1	33	17	16	21.33%	48.48%
2	34	16	18	24.00%	52.94%
3	47	43	4	5.33%	8.51%
4	50	17	33	44.00%	66.00%
5	36	16	20	26.67%	55.56%
6	31	13	18	24.00%	58.06%
7	21	4	17	22.67%	80.95%
8	9	12	-3	-4.00%	-33.33%
9	28	29	-1	-1.33%	-3.57%
10	17	11	6	8.00%	35.29%
11	36	31	5	6.67%	13.89%
Total	342	209	133	-	38.89%
Mean	31	19	12	16.12%	38.89%
Median	34	16	18	21.33%	52.94%

Range = 0 - 75

