

## **EXHIBIT G**



Ask your  
Practitioner how the  
SpeechNutrients  
formulation can  
help your child

TAKE ONE



Formulated by a pediatrician to  
support normal and healthy speech  
development and maintenance.

SpeechNutrients speak™ is a  
patented nutritional formula  
developed by a pediatrician  
to support healthy speech  
development and coordination.  
Join the 4,000+ speak families  
who have experienced targeted  
benefits including:

- Nutritional support of verbal  
and motor skills
- Reduction in oxidative stress
- Promotion of a  
healthy inflammatory  
response



Available online at [www.SpeechNutrients.com](http://www.SpeechNutrients.com)

## **EXHIBIT H**



## The making of SpeechNutrients speak™

Ten+ years in the making, SpeechNutrients speak™ is the result of real life experiences from families who took action based on groundbreaking research regarding the role of essential fatty acids and antioxidants for child development.

After the exact formula was specified, the omega-3 experts at SpeechNutrients partnered with the world's leading producers to find the purest ingredients in their appropriate biochemical form for optimal absorption and utilization. The result is SpeechNutrients speak™.



SpeechNutrients speak™ contains the purest pharmaceutical grade ingredients in the most ideal ratios and forms. Ultra-purified and highly concentrated, the ingredients in speak™ are third party tested and exceed all US and European standards for purity.

The formula has been concentrated to prescription strength by a certified GMP facility specifically for NourishLife, LLC. SpeechNutrients speak™ has been ultra-refined and distilled for purity.



NourishLife is one of the founding members of GOED, the Global Organization for EPA and DHA omega-3. This esteemed association includes the finest processors, refiners, manufacturers, distributors, marketers, retailers, and supporters of omega-3.

**Considerations:** The nutrient blend in SpeechNutrients speak™ has an excellent safety profile. When beginning supplementation, some individuals may experience loose stools but this typically resolves quickly. Transient moodiness and increased tears are common in children during this period. Should unusual symptoms occur, consult your practitioner. There are increased concerns with individuals consuming products that thin blood and/or reduce liver. In case of accidental usage (e.g. spillage), avoid additional consumption. Always discuss use of dietary supplements with your healthcare provider.†

nourishlife™  
**SpeechNutrients™**

800-471-0358  
www.SpeechNutrients.com  
info@SpeechNutrients.com

† These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



Formulated by a pediatrician to support normal and healthy speech development and maintenance.†



## What is SpeechNutrients speak™?

SpeechNutrients speak™ is a patented formulation that provides a precise dose & ratio of the important nutrients needed for normal and healthy speech and coordination development.

SpeechNutrients speak™ combines 7 all natural nutrients in pre-measured, ultra-purified, hypo-allergenic doses.

## The nutrients in SpeechNutrients speak™ provide targeted benefits, including but not limited to:†

- Nutritional support of verbal and motor skills
- Reduction in oxidative stress
- Promotion of a healthy inflammatory response

*"We were really amazed when Ben started singing along with a song on the radio. We didn't even know he knew the song, and he was singing 3+ word phrases, not just one word here & there. When I pick up Ben at school now, he is talking a lot & consistently answers questions. His teachers report he answers them consistently as well, even with open-ended questions if they aren't too far in the future."*

Dorianne in California



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A study published in *Alternative Therapies in Health and Medicine*† reported data on 187 children supplementing with an omega-3 and vitamin E combination (as found in the speak formulation).

97% of the children showed dramatic improvements in speech, behavior, sensory issues, imitation, coordination, and eye contact. Supplementation with this omega-3, vitamin E combination is believed to reduce inflammation and oxidative stress.†

To read the study in its entirety, go to [www.ApraxiaResearch.com](http://www.ApraxiaResearch.com).

Moris, Claudia H. and Igin, Marilyn C. Syndrome of Altered Apraxia and Malabsorption: Characterization of a Neurodevelopmental Phenotype that Responds to Omega-3 and Vitamin E Supplementation. *Alternative Therapies in Health and Medicine* 2010; Vol. 15, Issue 1: 32-41

*"The main difference is that she is trying and willing to put three words together on her own with no prompting. She also is more focused at school and is willing to do the harder work. The one surprise is her physical capabilities. She started hopping on one foot almost a month ago now. She will hold onto the wall, the couch or me but she never even had the concept of that before. Her horse trainer says she is amazingly stronger also and able to control her horse mostly on her own now."*

Tracey in Illinois

Read additional parental feedback at: [www.speechnutrients.com/community/testimonials/](http://www.speechnutrients.com/community/testimonials/)

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Available online at [www.SpeechNutrients.com](http://www.SpeechNutrients.com)



**Why is this particular formulation effective?**

The unique speak formulation contains a blend of concentrated and purified omega-3s from fish oil (EPA and DHA), natural vitamin E (d-alpha and gamma tocopherols), Vitamin K (K1 and K2), borage oil (GLA) and natural orange flavor.



Research has shown that these nutrients play an important role in speech and coordination development, and thousands of children have

experienced positive outcomes while taking these nutrients. Due to potential issues with malabsorption, some children may be deficient in vitamin E and at the same time may not absorb it well. In fact, many of the symptoms associated with speech issues mirror vitamin E deficiency. Antioxidants (specifically vitamin E) have the potential to be depleted during oxidative stress and inflammation of the GI tract. If there's not enough vitamin E available, the environment within the cell membrane becomes antagonistic to omega-3 rendering it useless. The nutrients contained in speak are needed to counteract malabsorption and oxidation.



**We take the guesswork out of supplementation**

SpeechNutrients speak™ provides ultra-purified and concentrated nutrients combined in a convenient serving (either 2 capsules or 1-tablespoon) resulting in greater ease of use for parents and children and a lower cost than purchasing individual ingredients.

The seven nutrients in speak™ are combined in simple, easy-to-use, capsules or in our delicious speak smooth liquid.

SpeechNutrients speak™ is a hypo-allergenic formula and does not contain milk, egg, tree nuts, wheat, peanuts, yeast, gluten, casein, pork, sugar, starch, artificial flavors, colors or preservatives. Individuals with fish and seafood allergies may wish to consult with a specialist.

Choose the form of **speak™** that is best for your child.

**speak™ Capsules**

speak Capsules for those children who prefer to swallow a capsule



**speak™ Twist-offs**

speak Twist-offs for those who prefer an oil that can be squeezed out on a spoon or mixed into foods or beverages



**speak™ Smooth**

speak Smooth for those who prefer an orange-vanilla liquid with absolutely no fish taste or smell



**Patented by Renowned Children's Research Facility**

NourishLife's speak product is produced under exclusive license to a formulation patent developed by Children's Hospital & Research Center Oakland (CHRCO). Children's Hospital & Research Center Oakland is the oldest pediatric medical center between Los Angeles and Seattle and has provided exceptional medical care of children in the region and beyond for almost 100 years. Being the only independent children's hospital in Northern California, Children's Hospital Oakland is able to focus all of its attention on caring for children.



**What are the nutrients in speak™ ?**

Here's what you get in...

2 speak™ capsules =	<b>1- vitamin E</b> CONTAINING..... 200 mg gamma tocopherol
<b>OR</b>	<b>2- vitamin E</b> CONTAINING..... 500 IU d-alpha tocopherol
1 tablespoon of speak™ smooth =	<b>3- omega-3</b> CONTAINING..... 725 mg EPA (microencapsulated) and 275 mg DHA (microencapsulated)
	<b>1- GLA</b> CONTAINING..... 60 mg GLA (gamma-linolenic acid)
	<b>1- vitamin K 1</b> CONTAINING..... 2 mg phytonadione
	<b>1- vitamin K 2</b> CONTAINING..... 300 mcg menaquinone

"We have seen significant benefits in his speech including increase in vocalizations, babbling and ability to imitate speech sounds more readily. We have been on other fish oil supplements in the past and there is no comparison to the differences that we see with speak™. We still have a long way to go, but thank you so much for making this product possible."

Lisa, VA

"John has been taking 3 speak™ capsules a day for a few weeks and we are just upping him to four capsules a day. Not only is he speaking more, there is less of him repeating what he hears/sees. I was overjoyed Saturday when John came to me in the kitchen and did the sign for "cheese". Before I could give him the option between cheddar and the white string cheese, he said and signed "orange"! My hands were shaking as I handed him the cheddar. His face broke into a huge smile as I gave it to him and he went off munching on his cheese. THANK YOU for recommending speak™ to me!"

Agnes L., CA

"I have a 3 year old daughter and after a year and a half with slow and little progress, we were feeling hopeless, discouraged and defeated. We had read about the benefits of fish oils and vitamin E and we started using speak™ in hopes of giving our daughter more supplementation with the ease of using 1 pill vs. 5 or 6 pills. Within 2 days, we started to see progress. As we proceeded with speak™, we noticed huge improvements in her skill set, and her health. Thank you so much for giving us a healthier child with more hope for the future."

Pattie L.

**Selected References**

Hopkins LJ, et al. *Free Rad Biol Med*, 2001; 43: 1588-1593; Richardson AJ, Montgomery P, Pedersen, 2000; 115:1360-1365; Pasick L, et al. *AA Digest*, 2000:36-37; Bell JG, et al. *PLEFA*, 2004; 71: 201-204; Birch SL, et al. *Am J Clin Nutr*, 2004; 70: 143-145; Koz H, *Appl Nutr*, 2002; Jiang Q, et al. *Am J Clin Nutr*, 2001; 74: 114-122; Taylor Ke, et al. *PLEFA*, 2000; 63: 70-73; Nims, CH, et al. *Alter Ther Health and Medicine*, 2009;15:32-41; Jones, MG. *Am J Clin Nutr*, 2000; 70:959-960

## **EXHIBIT I**





nourishlife™

# SpeechNutrients speak™ Dosage Information

Case: 1:15-cv-00093 Document #: 1-2 Filed: 01/07/15 Page 7 of 25 PageID #:68

## Dosage Recommendations:

Suggested dosage plan for getting started with speak. Continue with established dosing at 12 weeks and beyond:

Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12+
Number of speak™ capsules per day	1	1	2	2	3	3	4	4	5*	5*	6*	6*

\* Start with 1 capsule of speak daily. After 2 weeks increase the dosage to 2 capsules daily until reaching a possible dosage of 6 capsules per day over 12 weeks and beyond

- Begin with one speak™ capsule daily (given with food) and increase slowly.
- Toddlers and smaller children may see the most benefits with 2 to 4 capsules per day.
- Older and larger children may see the most benefits with 4 to 6 capsules per day.
- Consider increasing dosage until no additional benefits are noted, at that point revert back to the prior weeks' dosage. Increased benefits are often noted at higher dosages.
- Administering speak for a minimum of 4 months may be required to determine potential benefits.

## Why is speak™ unique?

Omega-3 is found in many forms and combinations including high EFA, high EPA, and omega-3,6,9. While these may be beneficial for the general population, they do not contain the additional nutrients in doses and ratios necessary for the unique population of children concerned with speech and coordination. The higher amounts of the two forms of vitamin E contained in speak™ are critical components working synergistically with omega-3 to reduce oxidation and support a healthy inflammatory response. In addition, K1 and K2 (natural blood coagulants) are included in the formulation for nutrient balance due to the theoretical blood thinning effects of omega-3 and vitamin E.

Developed by a pediatrician and noted researcher, the unique omega-3 + vitamin E formulation contained in speak™ is produced under exclusive license to a formulation patent developed by the Children's Hospital & Research Center Oakland (CHRCO)



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# SpeechNutrients speak™ Nutrient Information





What are the nutrients in speak™ ?

Here's what you get in...

2

speak™ capsules =



	<b>1- vitamin E</b> CONTAINING.....> 200 mg gamma tocopherol
	<b>2- vitamin E</b> CONTAINING.....> 500 IU d-alpha tocopherol
	<b>3- omega-3</b> CONTAINING.....> 725 mg EPA eicosapentaenoic acid and 275 mg DHA docosahexaenoic acid
	<b>1- GLA</b> CONTAINING.....> 60 mg GLA gamma linolenic acid
	<b>1- vitamin K 1</b> CONTAINING.....> 2 mg phytonadione
	<b>1- vitamin K 2</b> CONTAINING.....> 300 mcg menaquinone

What about purity?

We partner with the world's most esteemed producers of omega-3 fish oil for the speak formulation. The oil used is cold extracted, highly refined, ultra-purified and molecularly distilled. Lab results are confirmed by third party tests. The omega-3 used meets or exceeds all U.S. and European standards for purity, complies with California Prop 65, and meets and exceeds the GOED (Global Organization for EPA and DHA) monograph. This partnership ensures that SpeechNutrients speak™ contains the purest pharmaceutical grade oils with the ideal ratio of active EPA and DHA.

The patented speak™ formulation includes 7 nutrients in doses and ratios determined to be most effective. This precise combination of pharmaceutical grade ingredients is conveniently offered in softgel capsules to be swallowed and twist off capsules which allow the oil to be squirted directly into a child's mouth or easily mixed with foods or liquids.

**Are there any side effects?**

Possible side effects are typically associated with omega-3 and vitamin E supplements (not unique to speak™). Moodiness, irritability, and emotional outbursts are sometimes reported in children during the first few days/weeks of omega-3 supplementation; however, this usually comes with increased babbling, imitation of sounds, and eventually words to sentences. Some children may experience loose stools when they begin supplementation with oil-based capsules; this usually resolves quickly.



Softgel



Twist Off



## Supplement Facts

Serving Size: 2 softgel capsules  
Servings per container: 30

Amount Per Serving	2 softgels	%DV for Children under 4 years of age	%DV for Adults and Children 4 or more years of age
Calories	20		
<b>Total Fat</b>	5 g		2
Polyunsaturated Fat	2 g		
<b>Vitamin E</b>			
(as d-alpha tocopherol)	500 IU	5,000	1,665
(as Gamma tocopherol)	200 mg	+	+
<b>Vitamin K</b> (as K1 and K2)	2.3 mg	+	2,875
<b>Omega-3 Polyunsaturated Fatty Acids</b>			
Eicosapentaenoic Acid (EPA)	725 mg	+	+
Docosahexaenoic Acid (DHA)	275 mg	+	+
<b>Omega-6 Polyunsaturated Fatty Acids</b>			
Gamma-linolenic acid (GLA)	60 mg	+	+

\*Based on Daily Values for Children less than 4 years of age  
\*\*Based on Daily Values for Children 4 or more years of age  
+Daily Value not established

**Ingredients:** Fish oil concentrate (from sardines, anchovies), d-alpha, gamma and natural mixed tocopherols (derived from refined soybean oil), borage oil, natural orange flavor, phytonadione, menaquinone. Capsule contents: gelatin, purified water USP, glycerin USP.

**DOES NOT CONTAIN:** milk, egg, tree nuts, wheat, peanuts, yeast, gluten, casein, sugar, starch, artificial flavor, colors or preservatives



## **EXHIBIT J**

## NourishLife Speak Dosage Information / Questions

1. How should I begin supplementing with speak?
2. What is the correct dosage of speak for my child's height, weight, and age?
3. How often and at what times should I administer speak to my child?
4. How should I give speak to my child?
5. When should I begin to notice beneficial changes in my child?
6. Is speak effective for older children and does it take longer to start to work?
7. My child seems more emotional, weepy, agitated. Is this normal?
8. What are the possible side-effects of omega-3 and vitamin E supplementation?

### 1. How should I begin supplementing with speak?

***If your child is not currently taking omega-3 fish oil or vitamin E supplements:***

Start with 1 capsule of speak daily. After 2 weeks increase the dosage to 2 capsules daily until reaching a dosage of 4 capsules per day over 8 weeks. If you believe that your child will benefit from additional supplementation beyond 4 capsules, regardless of previous omega-3 supplementation, check with your healthcare practitioner (e.g.: Medical Doctor, Registered Dietitian, Certified Clinical Nutritionist, Naturopathic Doctor, Doctor of Osteopathy).

Suggested dosage plan for those not current taking fish oil or vitamin E supplements:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
<b># of Speak capsules:</b>	1	1	2	2	3	3	4	4

***If your child is already taking individual omega-3 fish oil and vitamin E supplements:***

- First determine the current dosage amount of the active omega-3 (EPA and DHA) and vitamin E (if any) that your child is receiving with the existing supplement\* (usually listed clearly on the "Supplement Facts" panel. Be sure to determine the amount per serving or per capsule). This will provide you a baseline from which to start for an equivalent dosage. Some families administer both "High EFA" and "High EPA" supplements. Shown below is a chart illustrating the amounts of each ingredient and how 2 capsules of speak provide the essential equivalent to two capsules of the other supplements plus additional nutrients in speak provide added benefits and nutrient balance, not found in other omega-3 supplements.

*\*Feel free to contact SpeechNutrients at 1-847-471-0358 if you have any questions.*



	High EFA 1 cap	High EPA 1 cap	Speak 2 caps
<b>EPA</b>	270	425	725 mg
<b>DHA</b>	180	100	275 mg
<b>GLA</b>	66		60 mg
<b>Vitamin E (Alpha)</b>			500 iu
<b>Vitamin E (Gamma)</b>			200 mg
<b>Vitamin K1</b>			2 mg
<b>Vitamin K2</b>			300 mcg

- Once you have determined the amount you currently administering, select a comparable amount of speak and begin with that dosage (be sure to discontinue the other omega 3 supplements). Many families begin with 2 capsules of speak daily. After two weeks, increase intake to 3 capsules daily. And after another 2 weeks, increase intake to 4 capsules daily. Most families report success with a transition period, that is, replacing omega-3 in the current supplement with speak over time.
2. **What is the correct dosage of speak for my child's height, weight, and age?**  
Every child is different and you will know the "best" amount by knowing and observing your child. If your child is not currently taking omega-3, begin supplementing with one capsule daily (with food or snack) and increase slowly. Toddlers and smaller children may see the most benefit with 2 or 4 capsules per day, while older and larger children and adults may do best with 6 caps a day, divided throughout the day. We suggest working with your healthcare practitioner if you choose to use increased amounts. A guideline is that if you don't see additional benefit with additional capsules, then stay with the lower dose.
  3. **How often and at what times should I administer speak to my child?**  
It is preferable to provide speak throughout the day during a child's most active time – in the morning and afternoon, not at night. Start with the morning meal and divide the dosage throughout the day. For example, 2 capsules with breakfast and 2 with an afternoon snack. If your child is in school, you may ask your school nurse to administer the supplements. Depending on your state, you may need a note from your child's doctor. If you are not able to provide supplements throughout the day, administer half the dosage in the morning and the balance with dinner (best not directly before bed as omega-3s may cause increased mental activity).
  4. **How should I give speak to my child?**  
Some children find it easy to swallow the capsule. Others bite the capsule (and swallow the gelatin shell or spit it out), many parents open (pierce) the capsules and mix the oil with non-heated foods (e.g. pudding, smoothie); others serve it on a spoon (with or without juice or fruit sauce) or squirt it directly into the mouth and follow with food. The product is in a larger capsule, thereby providing a complete serving in only 2 capsules. Remember, don't mix the product with hot foods.
  5. **When should I begin to notice beneficial changes in my child?**  
Every child is different and responses vary. Occasionally, families report beneficial changes in their children within the first few days of supplementation. Others notice advances in speech and coordination after several weeks. It is not uncommon to supplement for several months

before significant progress is made including speech, coordination, and motor planning. A number of factors may influence a child's response, such as consistency and dosage, co-existing conditions (GI issues, allergies), previous supplementation, transition time, and adherence to special diets.

The time of year can impact response as well due to summer allergies, winter cold and flu season, etc. It is recommended to administer speak on a daily basis (consistency is key) for a minimum of a 4 month period to determine if your child benefits from the nutrients in speak. Identifying and addressing underlying health issues may improve your child's success. (GI problems and/or allergies are quite common in apraxic children and should be investigated.)

**6. Is speak effective for older children and does it take longer to be effective?**

Families have reported positive results in older children. It may take longer to see benefits in older children, depending on the child's health status and health history and underlying GI issues and/or allergies. Follow the suggested use and increase over time.

**7. My child seems more emotional, weepy, agitated. Is this normal?**

Emotional outbursts and transient moods are common when children begin supplementing with omega-3 supplements. Each child is different. If your child has been 'very compliant', a change in this behavior may be considered normal. Parents have reported the "Tasmanian Devil" effect, where children become very active, oppositional but in time (2-3 weeks) rebalance.

**8. What are some possible side-effects associated with omega-3 and vitamin E supplementation? (The issues described are typically associated with all omega-3 and vitamin E supplements – not unique to NourishLife speak.)**

- a. Some children may experience loose stools when they begin supplementation with oil-based capsules; this usually resolves quickly (great for constipated kids!)
- b. Moodiness, irritability, and emotional outbursts are commonly reported in children during the first few days/weeks of omega-3 supplementation; however, this usually comes with increased babbling, imitation of sounds, and eventually words to sentences.
- c. Although theoretical, experts believe it is best to be off fish oil 2 weeks before a surgery due to increased bleeding risk, given the platelet effects of omega-3.
- d. Avoid using products such as ibuprofen (motrin, advil) or aspirin since they increase the risk of bleeding, so the combination (omega-3, vitamin E, and these medicines) could theoretically heighten the risk of bleeding. Acetaminophen (Tylenol®) may be an option under the direction of your healthcare provider.
- e. Individuals on blood thinners such as Coumadin should not be using fish oil and vitamin E.



## **EXHIBIT K**



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Ads related to **toddler speech problems** ⓘ

**Healthy Speech for Child - SpeechNutrients speak Supplement**

[www.speechnutrients.com/Speak](http://www.speechnutrients.com/Speak)

Formulated by a Pediatrician

**Toddler w/ Speech Delay? - BabyBumbleBee.com**

[www.babybumblebee.com/](http://www.babybumblebee.com/)

Discover the Best DVDs to Help Your Child Learn to Speak at Home Easily

**Toddler Development - enfagrow.com**

[www.enfagrow.com/](http://www.enfagrow.com/)

Language Development Milestones And More. Learn More Now!

Toddler Feeding FAQ - Your Toddler's Nutrition - Toddler Food Guide

**Delayed Speech or Language Development - KidsHealth**

[kidshealth.org/parent/growth/communication/not\\_talk.html](http://kidshealth.org/parent/growth/communication/not_talk.html)

Though there is a lot of variability, most toddlers are saying about 20 words by 18 ...

Although problems in speech and language differ, they often overlap. A child ...

Communication and Your 2 - Communication and Your 1

**What are the indications that my toddler needs a speech therapist ...**

[www.babycenter.com](http://www.babycenter.com) > Toddler > Development > Language & Cognitive

Toddlers often have trouble with pronunciation and difficulties putting sentences together. A child between the ages of 18 months and 3 years will generally ...

**Speech Delays - Recognizing Speech Delay & What to Do - Parents ...**

[www.parents.com](http://www.parents.com) > Toddlers & Preschoolers > Development

Learn about toddler speech delays, and your child's language development. Find out ... **Speech Delays: When to Worry ... Speech Problems in Children.**

**Speech and Language Delay and Disorder: Your Child: University of ...**

[www.med.umich.edu/yourchild/topics/speech.htm](http://www.med.umich.edu/yourchild/topics/speech.htm)

Jump to What are **speech/language delays/disorders** - When it is not understood by others there is a **problem**. **Speech problems**, such as ...

**Speech Delays in Children: When Are They Serious? - CNN**

[inhealth.cnn.com/speech.../speech-delays-in-children-when-are-they-seri...](http://inhealth.cnn.com/speech.../speech-delays-in-children-when-are-they-seri...)

There are a number of different **disorders** that fall under the umbrella of "speech delay." First are the **speech disorders**, which can be further divided into ...

**Speech Therapy for Toddlers - Babble.com**

[www.babble.com/toddler/speech-therapy-101-how-why-when-and-when...](http://www.babble.com/toddler/speech-therapy-101-how-why-when-and-when...)

Jan 9, 2013 - So here is a "Speech Therapy 101 for Toddlers" as I learned it over the .... Spread the word that every kid with a **speech problem** can get free ...

**Common Speech Problems in Young Children | Parenting | Disney ...**

[family.go.com](http://family.go.com) > Parenting > Preschool

How To Detect **Speech Problems** and Help Your Child Cope. ... The **toddler** milestones that they outline include the following: 12 months - Should be saying ...

**Toddler speech development: Are 2-year-olds understandable ...**

[www.mayoclinic.com/health/toddler-speech-development/an01940](http://www.mayoclinic.com/health/toddler-speech-development/an01940)

**Toddler speech development** — A Mayo Clinic specialist describes what's typical for 2- ... for a **speech delay**, from hearing **problems** to developmental **disorders**.

**Toddler Speech Problems | Common troubles as kids begin talking ...**

[www.babyzone.com/toddler/toddler-speech-problems\\_72078](http://www.babyzone.com/toddler/toddler-speech-problems_72078)

As **toddlers** begin talking, they often have trouble with pronunciation and forming sentences. So how do you know what's normal development and when to be ...

**Helping the Speech Delayed Toddler & Preschooler at Home ...**



[www.raisingarrows.net/.../helping-the-speech-delayed-toddler-p...](http://www.raisingarrows.net/.../helping-the-speech-delayed-toddler-p...)

by Amy Roberts - in 1,412 Google+ circles

Jan 21, 2010 - Once upon a time, we had a non-verbal **toddler**. ... She has several **speech issues** (frontal lisp, deletion of sounds, and other things I don't ...

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**Camara Minks M.S. CCC-SLP**

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**Speech therapy**- specializing in AT

language, artic, autism, and AAC

📍 5240 Belle Plains Dr, Centreville, VA

**Is Your Baby Talking?**

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Discover Your Best Approach Proven

To Teach **Toddlers** To Talk

**Speech & Language Therapy**

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**Speech & Language therapy** for kids

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verbal apraxia treatment



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Speech Nutrition Support - SpeechNutrients.com

www.speechnutrients.com/Speak

Formulation From Childrens Hospital Blend of 7 Nutrients For Speech.

What Is Speech Apraxia? - Understand Childhood Apraxia

www.apraxia-kids.org/

Help Is Here, Learn More Today

Learn About Childhood Apraxia - Get Connected with Others

Scholarly articles for verbal apraxia treatment

Childhood verbal apraxia and its treatment - Chappell - Cited by 34

Praxic Abilities in Developmental Verbal Apraxia - Aram - Cited by 44

changes in articulatory patterns in verbal apraxia: A ... - Sands - Cited by 29

The VML Method - treating apraxia of speech - YouTube



www.youtube.com/watch?v=YfzhjKMYu7Q

May 21, 2012 - Uploaded by Elad Vashdi

The VML method - treating Apraxia/dyspraxia of speech in a unique ... Verbal Apraxia and Keegan, part ...

More videos for verbal apraxia treatment

ApraxiaResearch.com: Information and Research for Treating Apra...

www.apraxiaresearch.com/

Welcome to ApraxiaResearch.com. ... and professionals regarding past and present research developments for the treatment of verbal, oral and motor Apraxia.

Apraxia of Speech

www.nidcd.nih.gov > Health Info > Voice, Speech and Language

Jun 7, 2010 - Apraxia of speech, also known as verbal apraxia or dyspraxia, is a speech ... play a key role in diagnosing and treating apraxia of speech.

Verbal / Speech Apraxia

www.cincinnatichildrens.org > Home > Health Topics

Cincinnati Children's Hospital Medical Center discusses verbal speech apraxia treatments and diagnosis.

Apraxia - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/Apraxia

Contents: 1 Types; 2 Verbal apraxia of speech; 3 Causes; 4 Assessment; 5 Treatment; 6 Prognosis; 7 References; 8 Further reading; 9 External links ...

Becoming Verbal With Childhood Apraxia: New Insights on Piaget ...

www.amazon.com/Becoming-Verbal-With...Apraxia/dp/0970706065

Becoming Verbal With Childhood Apraxia: New Insights on Piaget for Today's Therapy [Pam Marshall] on Amazon.com. \*FREE\* super saver shipping on ...

Bottom Line: Getting Health Plans to Pay for Pediatric Verbal Apraxia

www.asha.org/Publications/leader/2002/020122/bl020122/

Jan 22, 2002 - Describe the treatment plan and expected results. Children with verbal apraxia respond best to motor treatment that is focused on the control of ...

Hope for Apraxia

www.apraxiaspeaks.com/

late-talking-child,non-verbal. At age 3 my daughter was diagnosed with apraxia and was attending a special needs preschool for speech therapy four days a ...

Improving Verbal Apraxia with professional therapy on DVD

www.speech-therapy-on-video.com/verbalapraxia.html

Improving Verbal Apraxia with Intensive Therapy. As speech pathologists, we will provide you with a complete understanding of verbal apraxia. Then we will ...

[PDF] TREATMENT OF APRAXIA OF SPEECH IN ADULTS

aphasiology.pitt.edu/archive/00000662/01/02-17.pdf

by JC Rosenbek - Cited by 110 - Related articles

principles and specific procedures in the treatment of apraxia of speech. ... emphasize -mastery of meaningful and useful verbal communication early in therapy.

Ad related to verbal apraxia treatment

OT for Kids Rockville, MD - Occupational therapy for all kids

www.otforkids.com/

Handwriting instruction available!

» Map of 932 Hungerford Drive, Suite 9B, Rockville, MD

Searches related to verbal apraxia treatment

oral apraxia treatment

causes verbal apraxia

verbal dyspraxia treatment

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therapy for children with apraxia



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HEALTHY SPEECH DEVELOPMENT

PATENTED HYPOALLERGENIC, PEDIATRICIAN FORMULATED

Mounting clinical evidence and hundreds of parental reports indicate this special blend of nutrients provides targeted benefits including:†

- Nutritional support of verbal and motor skills
- Reduction in oxidative stress
- Promotion of a healthy inflammatory response

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BEST VALUE For New Parents



Let us help you get started.

OUR SPEAK™ STARTER KIT IS THE SIMPLE, COST-EFFECTIVE WAY FOR YOUR FAMILY TO TRY SPEAK™.

For less than the cost of a single box of speak™, your Starter Kit will include:

- Two months' supply of speak™ (two boxes)
- Information Packet
- Diary/log to track your child's progress

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Speak™ works. Parents have seen the results.

SpeechNutrients speak™ is a patented nutritional formula developed by a pediatrician to support normal and healthy speech development and maintenance. Thousands of parents like you have tried speak™ and have been astonished at the results.



"That formula has done wonders for her! Her speech is within the normal range and the Vitamin E greatly helped. It's the formula we need in 2 capsules instead of 6."

—Katie M., New Jersey



"I would recommend any parent try it. I do believe they are out for the greater good and not the all mighty dollar. We cannot thank you enough for this wonderful product."

—Julie G., California



"I believe she is speaking in more complex sentences and she is less jittery, more focused. We are very impressed with her conversational speech and she is making progress."

—Ali R., West Virginia

How speak™ works

SpeechNutrients speak™ contains concentrated, ultra-purified omega-3 and two forms of vitamin E. Omega-3 supports a healthy inflammatory response while vitamin E reduces oxidative stress. D-alpha and gamma tocopherols in vitamin E function as key antioxidants and work with omega-3 fats to support neurological health and provide essential nutrition. Vitamins K1 and K2 are included for nutrient balance.

This precise combination of pharmaceutical grade ingredients is delivered in a convenient 2-capsule serving for ease of use by parents and children.

Here's what you get in 2 speak™ capsules:

1 vitamin E	CONTAINING	→ 200 mg gamma tocopherol
+		
2 vitamin E	CONTAINING	→ 500 IU d-alpha tocopherol
+		
3 omega-3 capsules	CONTAINING	→ 725 mg EPA (eicosapentaenoic acid) and 275 mg DHA (docosahexaenoic acid)
+		
1 GLA capsule	CONTAINING	→ 60 mg GLA (gamma linolenic acid)
+		
1 vitamin K 1	CONTAINING	→ 2 mg phytonadione
+		
1 vitamin K 2	CONTAINING	→ 300 mcg menaquinone

Experience the difference for yourself.

TRY SPEAK™ TODAY





## **EXHIBIT M**

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Progressing information and research in the treatment of Apraxia

**Welcome to ApraxiaResearch.com.** This site provides resources and information for parents and professionals regarding past and present research developments for the treatment of verbal, oral and motor Apraxia. In cooperation with researchers, ApraxiaResearch is leading an initiative seeking to understand how certain nutrients play a key role in reducing inflammation and oxidation which appears to be a formidable issue in individuals with this challenging speech disorder.

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**NEW STUDY PUBLISHED!**

**Syndrome of Allergy, Apraxia and Malabsorption:**

Characterization of a neurodevelopmental phenotype that responds to Omega 3 and Vitamin E supplementation.



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**Understanding Apraxia**

Defining and understanding Apraxia: terminology, types, prevalence, and causes.

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**Participate in an ongoing Study Group**

ApraxiaResearch is providing the opportunity for a select group of families to receive an omega-3/vitamin E speech supplement complimentary for a 2 month study period. Participants will be asked to submit detailed information about their child's experience and anonymously share this information with other parents. You may also be asked, but not required, to offer a testimonial after the study is completed.

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**Clinical Research**

Recently published research regarding omega-3 and vitamin E supplementation and the role it plays in Verbal Apraxia

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## Progressing information and research in the treatment of Apraxia

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**NEW STUDY PUBLISHED!**

**Syndrome of Allergy, Apraxia and Malabsorption:**  
Characterization of a neurodevelopmental phenotype that responds to Omega 3 and Vitamin E supplementation.



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"I started using a patented omega-3 / vitamin E speech supplement three weeks ago for my 5 yr old son, adopted by me at 2 yrs of age, who had always talked in a mumbled, muffled voice. He'd been in speech therapy for over 3 yrs. On his seventh day, taking 2 capsules a day, Robbie began talking more clearly and in full sentences. On his 8th day I began giving him 3 capsules a day. On his 14th day I met with his school teacher as well as his speech teacher. Both wanted to know what we had done to improve Robbie's speech so quickly and so dramatically. I explained to them about the supplement and gave them some literature to review.

Also, Robbie's speech teacher from his preschool days is now working with Rebecca, Robbie's sister. When she was here last week she kept saying over and over how she couldn't believe the change in Robbie's speaking ability. With Rebecca, she is now on three capsules a day. Although she is nonverbal I have noticed an increase in her swallowing ability. This we hope will inevitably lead to her trach being removed. A blessing in itself. Her complexion and appearance look so good. We are also noticing an improvement in her muscle tone and spasticity. In fact, Rebecca's chiropractor commented that she was showing great improvement in her whole body since she has started the patented omega-3 / vitamin E supplement. He was impressed.

A friend of mine, whom I gave some of the supplements to 5 days ago, now has had her 5 yr old grandson on 2 capsules a day. This morning she reported that Brahan was moving his mouth muscles attempting to speak and that his spasticity had greatly improved. She was thrilled. She will move him up to 3 capsules once a day starting Sunday.

We have seen remarkable results in a very short period of time. This is truly a blessing. In fact, Rebecca's Neurologist at Vanderbilt Children's Hospital inquired about the patented omega-3 / vitamin E formulation and we gave him a brochure. This supplement has, in a short period of time, greatly exceeded our expectations. Thank you so much. I will keep you informed.

UPDATE: Great news and please use this on an update on Robbie and Rebecca. Robbie was given his BRIGANCE K&1 Screening to measure his intelligence. It is given to all kids in K and 1st grade. He scored a 67 out of 100. The average score for a child in K is in the 50's. The best part is he was not referred for speech therapy and in Syntax and Fluency portion of the test he scored a 5 out of 5 which is 1. Speech is understandable 2. Speaks in complete sentences of at least five words. The teacher was so thrilled. On to Rebecca, she for the first time since the accident over a year ago, has had a small amount of food in her mouth. Over a couple of hours yesterday she managed to eat 1/3 cup of yogurt. At first she spit it out but than she stuck her tongue out for more. The best part is she did not aspirate. This is from a child who is supposed to be in a constant vegetative state.

—Kathy L, TN

"My son's private speech therapist says that he has made 3-4x the progress than he normally does in the same time period! We are seeing (and hearing) more imitation and initiation of speech, plus

he is putting together 3-4 syllables on his own. Before the supplement, he struggled to say 1-2 syllable words."

—Jeanne, IL

"The omega-3 / vitamin E nutrients are helping my son and I am very grateful. He was born at 27weeks gestation and weighed only 1.4 pounds. He is now 4 with significant speech delays and sensory issues. Since I have been giving him the supplements, he is talking much more and able to process his thoughts enough to talk in more complex sentences and thoughts. I stopped giving it to him for a week and noticed that his communication diminished. I'm sure the research is ongoing, but I just want to say thank you for making this available to us now, because it is helping. "

—Samantha, OK

"Just wanted to drop you a quick note with an update - Cole has made INCREDIBLE progress. We have been blown away! The patented omega-3 / vitamin E speech supplement is miraculous!! He has gotten the best reports ever from school. It is impossible to not see the difference in him. This is very exciting!" "I cannot come close to adequately explaining the enormous progress Cole has made since starting these supplements. The best way to explain it is that he is now like any other 3 year old, only with a significant speech delay and some low tone. The reports from school and therapy have been incredible. The changes are not subtle at all. We took Cole to a big Chanukah party at our county club where in previous years he would just shut down, this year he participated, sat nicely, and was talking! His grandmother joked "I want whatever he is on!" So things are great! Thank you for all you have done!!!"

- Melissa Goldberg, NJ

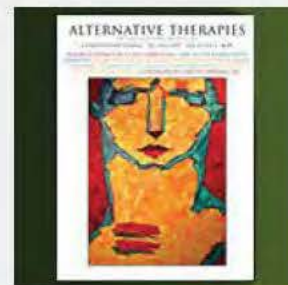
"Zach is talking and pointing more. I'll step out on a limb here and say I noticed it right away, within 48 hours. He's pointing more, naming many more objects spontaneously, even gave the dog a command. He has also played a bit more with his older sister, showed some empathy for her when she cried, and has been a bit more flexible on a couple of occasions so far. Today his OT reported that he cut with scissors independently and sat with a couple of kids for 10 minutes and watched them play."

- Cheryl Doolittle, CA



Progressing information and research in the treatment of Apraxia.

## Breakthrough Study on Verbal Apraxia



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The study Syndrome of Allergy, Apraxia, and Malabsorption: Characterization of a Neurodevelopmental Phenotype that Responds to Omega 3 and Vitamin E Supplementation published in the July/August 2009 journal of *Alternative Therapies in Health and Medicine* describes the improvements noted in 97% of participants while taking a nutritional formulation comprised of omega-3 and vitamin E.

The study identifies the symptoms of vitamin E deficiency as mirroring those of Apraxia and the concurrent need for higher doses of vitamin E in addition to omega-3.

### Abstract:

#### SYNDROME OF ALLERGY, APRAXIA, AND MALABSORPTION: CHARACTERIZATION OF A NEURODEVELOPMENTAL PHENOTYPE THAT RESPONDS TO OMEGA 3 AND VITAMIN E SUPPLEMENTATION

Claudia R. Morris, MD; Marilyn C. Agin, MD

**Objective** — Verbal apraxia is a neurologically based motor planning speech disorder of unknown etiology common in autism spectrum disorders. Vitamin E deficiency causes symptoms that overlap those of verbal apraxia. Polyunsaturated fatty acids in the cell membrane are vulnerable to lipid peroxidation and early destruction if vitamin E is not readily available, potentially leading to neurological sequelae. Inflammation of the gastrointestinal (GI) tract and malabsorption of nutrients such as vitamin E and carnitine may contribute to neurological abnormalities. The goal of this investigation was to characterize symptoms and metabolic anomalies of a subset of children with verbal apraxia who may respond to nutritional interventions.

**Design and Patients** — A total of 187 children with verbal apraxia received vitamin E + polyunsaturated fatty acid supplementation. A celiac panel, fat-soluble vitamin test, and carnitine level were obtained in patients having blood analyzed.

**Results** — A common clinical phenotype of male predominance, autism, sensory issues, low muscle tone, coordination difficulties, food allergy, and GI symptoms emerged. In all, 181 families (97%) reported dramatic improvements in a number of areas including speech, imitation, coordination, eye contact, behavior, sensory issues, and development of pain sensation. Plasma vitamin E levels varied in children tested; however, pretreatment levels did not reflect clinical response. Low carnitine (20/26), high antigliadin antibodies (15/21), gluten-sensitivity HLA alleles (10/10), and zinc (2/2) and vitamin D deficiencies (4/7) were common abnormalities. Fat malabsorption was identified

### NEW STUDY PUBLISHED!

#### Syndrome of Allergy, Apraxia and Malabsorption:

Characterization of a neurodevelopmental phenotype that responds to Omega 3 and Vitamin E supplementation.



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in 8 of 11 boys screened.

Conclusion — We characterize a novel apraxia phenotype that responds to polyunsaturated fatty acids and vitamin E. The association of carnitine deficiency, gluten sensitivity/food allergy, and fat malabsorption with the apraxia phenotype suggests that a comprehensive metabolic workup is warranted. Appropriate screening may identify a subgroup of children with a previously unrecognized syndrome of allergy, apraxia, and malabsorption who are responsive to nutritional interventions in addition to traditional speech and occupational therapy. Controlled trials in apraxia and autism spectrum disorders are warranted. (*Altern Ther Health Med.* 2009;15(4):34-43.)

This article appears courtesy of *Alternative Therapies in Health and Medicine*, © 2009

[Read the full article here.](#)



## Progressing information and research in the treatment of Apraxia

One of ApraxiaResearch's ongoing goals is the dissemination of information on Apraxia and related disorders in children. We hope that these research publications, articles and study findings will help you in your quest.



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Explore links to abstracts and some full texts of scientific articles on the relationship between fatty acids and apraxia, and related discussions.

### [Intestinal disaccharidase activity in patients with autism:](#)

#### [Effect of age, gender, and intestinal inflammation.](#)

*Kushak RI, Lauwers GY, Winter HS, Buie TM, Harvard Medical School, Boston, MA.*

Intestinal disaccharidase activities were measured in 199 individuals with autism to determine the frequency of enzyme deficiency. All patients had duodenal biopsies that were evaluated morphologically and assayed for lactase, sucrase, and maltase activity. Frequency of lactase deficiency was 58% in autistic children  $\leq 5$  years old and 65% in older patients. As would be expected, patients with autism at age  $5 >$  years demonstrated significant decline in lactase activity (24%,  $p = .02$ ) in comparison with  $\leq 5$  years old autistic patients. Boys  $\leq 5$  years old with autism had 1.7 fold lower lactase activity than girls with autism ( $p = .02$ ). Only 6% of autistic patients had intestinal inflammation. Lactase deficiency not associated with intestinal inflammation or injury is common in autistic children and may contribute to abdominal discomfort, pain and observed aberrant behavior. Most autistic children with lactose intolerance are not identified by clinical history.

### [2008 Pediatric Academic Societies' Annual Meeting](#)

*Morris CR, Geng L, Agin MC. Pediatric Academy Societies, 2008.*

Program for the 2007 PAS Annual Meeting which included studies in Omega-3 and apraxia.

### [2007 PAS Annual Meeting Late-Breaker Abstract Presentations](#)

*Morris CR, Agin MC. Pediatric Academy Societies, 2007. Late Breaker Abstract Presentation # 5570.8.*

Abstracts of late-breaking scientific presentations including Claudia Morris and Marilyn Agin's presentation, "Impact of Vitamin E and Omega 3 Supplementation in Children with Verbal Apraxia" on page 6.

### [The Oxford-Durham Study: A Randomized, Controlled Trial of Dietary Supplementation with Fatty Acids in Children with Developmental Coordination Disorder](#)

*Richardson AJ, Montgomery P. Pediatrics, 2005;115 (5):1360-1366.*

"Fatty acid supplementation may offer a safe efficacious treatment option for educational and behavioral problems among children with DCD."

### [The "late talker"—when silence isn't golden](#)

*Agin MC, Nicholl MJ, Geng LF. The Late Talker. New York: St. Martin's Press; 2004.*

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#### Syndrome of Allergy, Apraxia and Malabsorption:

Characterization of a neurodevelopmental phenotype that responds to Omega 3 and Vitamin E supplementation.



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