How Healthcare Professionals May Support 5210 Healthy Children

5210 Healthy Children is a community-wide plan to improve child health. It spreads a common message throughout children's communities, where families work, live, and play. The message represents four healthy behaviors children should achieve each day:



5 or more servings of fruits and vegetables 2 or fewer hours of recreational screen time⁺ 1 or more hours of physical activity 0 sweetened beverages

⁺ review guidelines on parenting strategies to ensure quality screen time (AAP, 2015)

Healthcare professionals are natural allies for the 5210 Healthy Children campaign. They may help reinforce the 5210 message from a clinical perspective, lend their expertise to the campaign, and show their support for 5210 activities throughout their communities. The resources assembled in this toolkit are designed to help healthcare professionals promote and support the 5210 message.

The following materials are available for healthcare professionals:

- Tips for Healthcare Professionals handout targets leaders, and provides them with tips to help children in their community increase fruit and vegetable consumption, reduce screen time, increase physical activity, and decrease sweetened beverage consumption.
- 2. **Tips for Healthcare Professionals posters** enlarged versions of the Tips for Healthcare Professionals handout are available in two sizes (27" x 40" and 38" x 56") to hang in highly-visible locations.
- 3. Definitions & Recommendations handout explains the 5210 message and its research basis.
- 4. **Creating a Healthy Office Environment handout** lists simple ideas to promote healthy eating and active living by thinking about the office environment of your clinic.
- 5. **Healthy Eating and Healthy Activity Booklists** provide examples of books for children with content that reinforces the importance of a healthy lifestyle.
- 6. Thirst Quencher! Poster advertises drinking fountain locations.
- 7. How a Clinical Practice May Begin Using 5210 Healthy Children describes how to make easy modifications to standard medical visits to address 5210 in the context of child health.
- 8. **Measuring Weight & Length: 0-2 Year Olds** describe best-practice techniques to standardize the collection of height/length and weight measurements for BMI assessment.
- 9. **Measuring Height and Weight: 2-18 Year Olds** describe best-practice techniques to standardize the collection of height/length and weight measurements for BMI assessment.



as of July 11, 2017

- 10. **5210 Healthy Habits Questionnaire (Ages 2-9)** contains a brief form for parents or patients (depending on their age) to fill out so their practitioner has an at-a-glance look at the patient's health behaviors and the practitioner can initiate motivational interviews to elicit behavior change.
- 11. **5210 Healthy Habits Questionnaire (Ages 10-18)** contains a brief form for parents or patients (depending on their age) to fill out so their practitioner has an at-a-glance look at the patient's health behaviors and the practitioner can initiate motivational interviews to elicit behavior change.
- 12. Information about motivational interviewing an introduction to the concept of motivational interviewing, why it is good to use in clinical practices, how to conduct motivational interviews to elicit behavior change, and a readiness ruler to ask patients how ready they feel to make changes to their health behaviors.

We recommend hanging the poster in highly-visible locations in the medical office, such as in the waiting area, in the restrooms, and in the clinical exam rooms. In addition, we advise reviewing all of the documents with healthcare staff to provide standardized care to children and adolescents that supports the 5210 Healthy Children campaign. Parent handouts are available in the 5210 Healthy Children toolkit that may be distributed to children and their families in the context of medical appointments or made available in the waiting area. Digital versions of all materials are available and may be inserted into newsletters or emails, and uploaded to websites and via social media.

For more information, visit 5210 online at <u>www.5210.psu.edu</u> or email us at 5210@psu.edu. We will be happy to answer your questions!





Tips for Healthcare Professionals

or more servings of fruits and vegetables

Educate the families in your care about nutrition recommendations for children and the importance of incorporating a variety of fruits and vegetables into their child's diet – regardless of their child's weight status. Provide support to help families apply their knowledge – use motivational interviewing to help them identify barriers preventing them from serving or eating fruits and vegetables, help them problem solve ways to overcome those barriers, and encourage them to set realistic goals they can monitor to improve their fruit and vegetable intake over time.

or fewer hours of recreational screen time⁺

⁺ review guidelines on parenting strategies to ensure quality screen time (AAP, 2015)

Teach youth and caregivers that recreational screen time is free time spent in front of screens – like televisions, video games, and the internet – and that it is possible to get enough physical activity and still engage in an unhealthy amount of screen time.

or more hours of physical activity

Explain age-specific physical activity recommendations to your patients and their caregivers. Use motivational interviewing to help empower ALL family members to be more active – and have fun at the same time!

sweetened beverages

Help children and caregivers understand the importance of drinking fluids to stay healthy while avoiding the extra sugar and calories from sweetened beverages. Coach them to look out for drinks with sugar, honey, syrup (e.g., corn syrup, brown rice syrup), sweetener, and/or ingredients ending in "ose" (e.g., glucose, dextrose).

- Support a healthy introduction of solid food, which includes promoting exclusive breastfeeding for six months and explaining neophobia to caregivers so they know to expose young children to new fruits and vegetables repeatedly!
- Promote healthy eating behaviors teach caregivers how to recognize hunger and fullness cues; encourage them to make nutritious foods available at regular times and allow children to choose whether and how much to eat; and deter caregivers from restricting access to palatable foods, using foods as rewards and punishments, and coercing children to eat.
- Consider hosting a farmers' market at your healthcare center to increase patient access to fruits and vegetables and send the message that nutrition is important for good health!
- Urge parents to remove screens from children's bedrooms and turn off phones and TVs during mealtimes. Explain that children under two years should have NO screen time.
- Promote National Screen-Free Week, usually in early May, in your healthcare center. See <u>www.screenfree.org</u> for details.
- Ask youth to brainstorm active ways to spend their free time. Consider compiling a master list of responses from children in different age groups and making it available to all.
- Encourage using activities instead of foods as incentives a trip to the park, sledding hill, or community pool is a great alternative to the pizza shop to celebrate a job well done!
- Consider keeping a list of activities available for youth in your community and distributing it to your patients.
- Promote stair use in your healthcare center increase appeal with colorful paint, carpeting, music, and artwork.
- Encourage caregivers to make water the norm for quenching thirst by drinking water when thirsty and offering water to thirsty children.
- Present the idea that nonfat and 1% milk and 100% vegetable juices contain beneficial nutrients and calories – they are healthy foods that promote a nutritious diet; they are not beverages to drink when thirsty.
- Lead by example drink water yourself and make it freely available to visitors in your healthcare center!

Contact 5210 at 5210@psu.edu or <u>www.5210.psu.edu</u> for help identifying programs and resources targeting nutrition, physical activity, and screen time!

CLEARINGHOUSE FOR MILITARY FAMILY READINESS SOUND SCIENCE - STRONGER SERVICE A FERN STATE APPLIED RESEARCH CENTER

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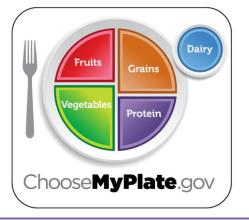
Definitions & Recommendations



One serving of fruits and vegetables is: 1 medium fruit ½ cup of chopped, canned, or cooked fruit

¼ cup of dried fruit

- 1 cup of raw leafy greens
- 1/2 cup of raw or cooked vegetables 1/2 cup of 100% fruit or vegetable juice





or fewer hours of recreational screen time⁺

⁺review guidelines on parenting strategies to encourage quality screen time (AAP, 2015)

Recreational screen time is free time spent sitting or reclining in front of televisions, computers, tablets, and similar screens. The Dietary Guidelines for Americans 2010¹ provide the following recommendations:

- Increase fruit and vegetable intake.
- Eat a variety of vegetables, especially dark-green, red, and orange vegetables, and beans and peas.

The American Academy of Pediatrics² has the following recommendations for consuming fruit juice:

- Do not give juice to infants younger than 12 months.
- Limit juice to 4 oz per day in children under 4 years.
- Limit juice to 4-6 oz per day in children 4 to 6 years.
- Limit juice to 8 oz per day in children and adolescents 7 years and older.
- Fruit juice offers no nutritional benefits over whole fruits, and whole fruits provide fiber and other nutrients.

The United States Department of Agriculture recommends that half of a person's plate should be fruits and vegetables³. This recommendation is reflected on the current U.S. Food Guidance System, MyPlate, which is shown to the left.

- 1. U.S. Department of Agriculture & U.S. Department of Health and Human Services. (2010). *Dietary Guidelines for Americans 2010*. Retrieved from http://www.cnpp.usda.gov/DGAs2010-PolicyDocument.htm
- 2. Heyman, M. B., & Abrams, S. A. (2017). Fruit Juice in Infants, Children, and Adolescents: Current Recommendations. *Pediatrics*, e20170967.
- 3. U.S. Department of Agriculture. (n.d.). *ChooseMyPlate.gov.* Retrieved from <u>http://choosemyplate.gov</u>

Children will engage in screen time as fully as they do in any other activity and screen time can have its positive and negative effects. So, the American Academy of Pediatrics¹ makes these recommendations:

- Become involved in children's media use and set limits around screen time.
- Help children learn to distinguish and choose programs that contain quality content.
- Become role models for children, demonstrating the value of productive time spent away from screens.
- Attempt to keep children under the age of 2 years away from screens entirely.

1. Brown, A., Shifrin, D.L (2015). Beyond turn it off: How to advise families on media use. *American Academy of Pediatrics News*, *36*(10), 1-1.





or more hours of physical activity

Physical activity is any movement of the body that raises one's heart rate above resting.

Structured physical activities are planned, and unstructured physical activities are freeplay.

Aerobic physical activities involve moving large muscle groups. Moderate and vigorous aerobic activities make a person's heart, lungs, and muscles work noticeably harder. Examples include bicycling, swimming, and playing chasing games, like tag.

Muscle-strengthening physical activities include climbing and swinging on playground equipment, doing sit-ups and push-ups, and resistance training.

Bone-strengthening physical activities create an impact on bones, such as hitting a tennis ball, jumping rope, or practicing gymnastics. For children 5 years and younger, the National Association for Sport and Physical Education¹ has developed the following recommendations:

- Infants under 12 months of age should engage in structured and unstructured physical activities each day that are devoted to exploring movement and developing motor skills.
- Toddlers (12 to 36 months old) should engage in structured physical activities for at least 30 minutes per day plus unstructured physical activities for at least 60 minutes (and up to several hours) per day.
- Preschoolers (3 to 5 years old) should engage in structured physical activities for at least 60 minutes per day plus unstructured physical activities for at least 60 minutes (and up to several hours) per day.

For children and adolescents 6 years and older, the U.S. Department of Health and Human Services² provides the following recommendations:

- Children and adolescents (6 to 17 years old) should engage in 1 hour of physical activity per day.
 - Most of the 1 hour should be moderate- or vigorous-intensity aerobic physical activities.
 - Muscle-strengthening physical activities should be included at least 3 days per week.
 - Bone-strengthening physical activities should be included at least 3 days per week.
- 1. National Association for Sport and Physical Education. (2009). Active Start: A Statement of Physical Activity Guidelines for Children From Birth to Age 5. Retrieved from

http://www.aahperd.org/naspe/standards/nationalGuidelines/ActiveStart.cfm 2. Office of Disease Prevention & Health Promotion, U.S. Department of Health

and Human Services. (2008). 2008 Physical Activity Guidelines for Americans. Retrieved from http://www.health.gov/paguidelines/guidelines/default.aspx

sweetened beverages

Sweetened beverages are fruit drinks, sodas, sports drinks, and other beverages with caloric sweeteners like sugars and syrups. Researchers from the Robert Wood Johnson Foundation Healthy Eating Research program¹ made the following conclusion following an examination of current evidence:

- Reducing sweetened beverage intake "would have no negative effect on children's health and would reduce the risk of childhood obesity and many other health problems, including type 2 diabetes, poor nutrition, excess caffeine consumption, and dental decay."
- 1. Gortmaker, S., Long, M., & Wang, Y. C. (2009). *The Negative Impact of Sugar-Sweetened Beverages on Children's Health*. Retrieved from http://www.rwjf.org/en/research-publications/find-rwjf-research/2009/11/the-negative-impact-of-sugar-sweetened-beverages-on-children-s-h.html

For more information visit us at <u>https://5210.psu.edu</u> or email at 5210@psu.edu.





Creating a Healthy Office Environment

The physician's office is a worksite that can be a powerful tool to communicate healthy eating and active living messages.

- Hang physical activity and nutrition posters in waiting areas and in examination rooms; make them as prominent as vaccination posters
- Create a 5-2-1-0 bulletin board:
 - Monthly or quarterly updates can feature patient activities in their communities
 - Post resources and news articles for parents and children
 - Post seasonal activities
 - Feature a fruit or vegetable of the month
- Play videos that show children taking part in nontraditional sports and other physical activities
- Play videos of children trying new fruits and vegetables
- Display books, puzzles and activity sheets that support healthy eating and active living to entertain children
- Replace lollipop and candy rewards with stickers, bookmarks and other nonfood items
- Incorporate WiiFit or other active video games

Work with your staff to make healthy eating and active living a part of their lives.

- Sample a fruit or vegetable of the month—select items of different cultures to try
- Host a healthy lunch
- Provide 10-minute physical activity or walk break during the work day

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by Acredolo, Linda	Board Book	\$6.99	Age 6 mo-1 yr	ISBN: 0060090731
Through baby signing that parents when something is too hot, or ever				when they want more,
Eat by Intrater, Roberta Grobel	Board Book	\$4.95	Age 9 mo-2 yr	ISBN: 0439420067
A group of babies enjoys some fav they eat.	orite foods—along v	vith making as l	big as mess on their fac	es as possible while
My Food/Mi Comida by Emberley, Rebecca	Hardcover	\$6.99	Age 9 mo-2 yr	ISBN: 0316177180
Labeled illustrations introduce vari	ous familiar foods an	d their names i	n English and Spanish.	
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Animals and young children enjoy hidden beneath the flaps.	the same types of fo	ods, including c	bats, oranges, and fish, i	in a book with pictures
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Rhyming text describes which mea words, such as banana, cup, and p		is hungry for, w	hile labeled illustration	s introduce related
The Carrot Seed by Krauss, Ruth	Board Book	\$6.99	Age I-2	ISBN: 0694004928
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Give Me My Yam	ated in a song song in		na spanisn.	
by Blake, Jan	Paperback	\$3.99	Age 2-4	ISBN: 0763608734
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by Ehlert, Lois	Board Book	\$ 6.95	Age 2-4	ISBN: 0152061762
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Blueberries for Sal	Dependent	¢7.00	Ago (7	
by McCloskey, Robert	Paperback	\$7.99	Age 6-7	ISBN: 014050169X
Little Bear and Sal both go berryin the other one's mother.	ng with their mothers	s, but after sitting	g down to rest, the	y each end up following
I Will Never Not Ever Eat a	Tomato			
by Child, Lauren	Paperback	\$6.99	Age 6-7	ISBN: 0763621803
Fussy eater Lola makes it perfect				
her that carrots are really orange	twiglets from Jupiter	and mashed pot	tatoes are actually f	Yount Fuji cloud fluff.
The Edible Pyramid by Leedy, Loreen	Paperback	\$6.95	Age 6-7	ISBN: 0823420752
Animal characters learn about goo offers the foods grouped in section need each day.	od eating every day ir	n a restaurant cal	lled The Edible Pyra	amid, where the waiter
The Seven Silly Eaters				
by Hoberman, Mary Ann	Paperback	\$7.00	Age 6-7	ISBN: 0152024409
Seven fussy eaters find a way to s	urprise their mother.			
How to Make an Apple Pie o	and See the World			
by Priceman, Marjorie	Paperback	\$6.99	Age 6-8	ISBN: 0679880836
Since the market is closed, the re	ader is led around th	e world to gathe	er the ingredients fo	r making an apple pie.
The Sweet Tooth by Platini, Margie	• Hardcover	8/08 07/09 \$16.95	6-8	ISBN: 0689851596
Stewart's loud, obnoxious sweet control of the situation.	tooth constantly gets	him into trouble	e, until Stewart uses	a healthy diet to take
Cloudy With a Chance of Me by Barrett, Judi	e atballs Paperback	\$6.99	Age 7-10	ISBN: 0689707495
Life is delicious in the town of Ch storms of hamburgers—until the			nd juice, snows mas	hed potatoes, and blows
Gregory, the Terrible Eater by Sharmat, Mitchell	Paperback	\$4.99	Age 7-8	ISBN: 0590433504
Mother Goat, alarmed by Gregor boxes and tin cans—consults Dr.				
Sun Bread	Demonshered	¢(00	A 7 9	
by Kleven, Elisa During the dreary winter, a baker the sun itself.	Paperback decides to bring war	\$6.99 rmth to her town	Age 7-8 n by baking bread a	ISBN: 0142400734 s golden and glorious as
Everybody Cooks Rice				
by Dooley, Norah	Paperback	\$6.95	Age 7-9	ISBN: 0876145918
A child is sent to find a younger br the many different ways rice is pre				res through encountering
Good Enough to Eat	-			
0	Paperback	\$6.99	Age 7-9	ISBN: 006445174
by Rockwell, Lizzy		and health how	they work in the b	ody, and what foods
by Rockwell, Lizzy Describes the six categories of nu provide each.	itrients needed for go		,	,
	utrients needed for go		,	
Describes the six categories of nu provide each.	utrients needed for go Paperback	\$4.99	, Age 7-9	ISBN: 0794516238

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Market Day by Ehlert, Lois	Paparhadi	\$6.95	٨ ٢٥ ٦ ٢	
•	Paperback	-	Age 2-6	ISBN: 0152168206
On market day, a farm family expe		and excitement of g	oing to and from	the farmers market.
The Little Red Hen (Hen Mak by Sturges, Philemon	raperback	\$6.99	Age 2-6	ISBN: 0142301892
In this version of the traditional tale but do get to participate when the			e to help the Littl	e Red Hen make a pizza
An Island in Soup by Levert, Mireille	Paperback	Need to buy used.	Age 3-6	ISBN: 088899505
Staring at the fish soup he doesn't whe conquers a fierce pepper drago unexpectedly discovers that the dr	n only to be barra	aged by a wealth of te		
Feast for 10 by Falwell, Cathryn	Paperback	\$6.95	Age 3-6	ISBN: 0395720818
Numbers from one to ten are used	to tell how mem	nbers of a family shop	o and work toget	her to prepare a meal.
Grover's Guide to Good Eatin by Kleinberg, Naomi	g Hardcover	\$6.99	Age 3-6	ISBN: 037584063X
Little ones can join their host Grov good nutrition and healthy eating!	er and his assistan	nt Elmo in the Good	Eats Cafe where	they will learn all about
Little Pea by Rosenthal, Amy Krouse	Hardcover	\$14.99	Age 3-6	ISBN: 081184658X
Little Pea hates eating candy for dir plate, in a story that many children		nts will not let him ha	we his spinach de	essert until he cleans his
Good for Me and You by Mayer, Mercer	Paperback	\$3.99	Age 5-6	ISBN: 0060539488
Little Critter learns that a healthy li	festyle includes a	balanced diet and ex	ercise.	
Muncha! Muncha! Muncha! by Fleming, Candace	Hardcover	\$17.99	Age 5-6	ISBN: 0689831528
After planting the garden he has dr bunnies from eating all his vegetabl		rs, Mr. McGreely trie	s to find a way to	o keep some persistent
Two Eggs, Please by Weeks, Sarah	Paperback	\$7.99	Age 5-7	ISBN: 141692714X
A harried waitress at the local dine			of orders from de	emanding patrons—all of
whom want eggs, in a lively introdu				
	Hardcover	\$16.99	Age 6-7	ISBN: 0803731469
whom want eggs, in a lively introdu An Orange in January	Hardcover om where bees fea			
whom want eggs, in a lively introdu An Orange in January by Aston, Dianna Hutts An orange begins its life as a blosso	Hardcover om where bees fea			





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Healthy Activity Booklist

Row, Row, Row Your Boat						
by Kubler, Annie	Board Book	\$4.99	Age 9 mo-2 yr	ISBN: 0859536580		
In this traditional nursery rhyme, a group of babies and their toy animal friends row merrily down the stream.						
Wiggle Waggle						
by London, Jonathan	Board Book	\$5.95	Age 9 mo-2 yr	ISBN: 0152165886		
Describes how various animals walk, from the wiggle waggle of a duck to the boing, boing, boing of a kangaroo to the bumble roll, bumble roll of a bear.						
On the Go!						
by Stockham, Jess	Board Book	\$6.99	Age 9 mo-2 yr	ISBN: 1846430496		
Animals move by stretching, jumping action.	g, and climbing, and	l readers can fl	ip the page to see babi	es doing the same		
Head, Shoulders, Knees and To						
by Kubler, Annie	Board Book	\$4.99	Age 9 mo-2 yr	ISBN: 0859537285		
An illustrated version of the song wh	nich identifies parts	of the body.				
Eyes, Nose, Fingers, and Toes by Hindley, Judy	Board Book	\$6.99	Age 9 mo-2 yr	ISBN: 0763623830		
A group of toddlers demonstrate all feet—and everything in between.	the fun things that	they can do w	ith their eyes, ears, mo	ouths, hands, legs,		
Bear About Town						
by Blackstone, Stella	Board Book	\$6.99	Age I-3	ISBN: 1841483737		
The big, friendly bear goes on his da nearby.	ily walk through hi	s neighborhood	d, meeting the people v	who live and work		
I Went Walking						
by Williams, Sue	Board Book	\$11.99	Age I-3	ISBN: 0152056262		
During the course of a walk, a young	g boy identifies anir	mals of differen	t colors.			
Skippyjon Jones Shape Up by Schachner, Judy	Board Book	\$6.99	Age I-3	ISBN: 0525479570		
Skippyjon Jones, a Siamese cat who	thinks he is a Chihi	uahua dog, exe	rcises using objects of	different shapes.		
Jumping Day						
by Esbensen, Barbara Juster	Paperback	\$8.95	Age 2-4	ISBN: 1563978539		
The pleasures of jumping, running, skipping, and hopping are celebrated as a little girl starts her day, goes to school, and comes home to play.						
Doing the Animal Bop						
by Ormerod, Jan	Paperback	\$9.99	Age 2-4	ISBN: 0764178997		
Various animals dance to the animal compact disc.	l bop, including os	triches, elepha	nts, and monkeys; incl	udes read-along		
I'm as Quick as a Cricket						
by Wood, Audrey	Board Book	\$6.99	Age 2-4	ISBN: 0859536645		
A young boy describes himself as lou	ud as a lion, quiet a	s a clam. tough	as a rhino, and gentle	as a lamb.		

(continued on next page)

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Get Moving with Grover by Tabby, Abigail	Hardcover	\$6.99	Age 2-4	ISBN: 0375830464
Grover and Elmo show young read ning around, and dancing around th		n be fun, encouragir	ng exercises ir	volving jumping over, run-
Duck on a Bike				
by Shannon, David	Hardcover	\$16.99	Age 2-4	ISBN: 0439050235
A duck decides to ride a bike and s	oon influences all th	e other animals on	-	de bikes too.
From Head to Toe				
by Carle, Eric	Big Paperback	\$24.99	Age 2-6	ISBN: 0061119725
Encourages the reader to exercise	by following the mo	vements of various	animals.	
Froggy Learns to Swim				
by London, Jonathan	Paperback	\$5.99	Age 3-6	ISBN: 0140553126
Froggy is afraid of the water until h	is mother, along witl	n his flippers, snork	e, and mask,	help him learn to swim.
Нор Јитр				
by Walsh, Ellen Stoll	Paperback	\$6.99	Age 4-6	ISBN: 015201375X
Bored with just hopping and jumpir	ng, a frog discovers o	dancing.		
Froggy Plays Soccer		<u></u>		
by London, Jonathan	Paperback	\$5.99	Age 5-6	ISBN: 0140568093
Although Froggy is very excited wh on the field that almost costs the te		plays for the city so	occer champic	onship, he makes a mistake
Puddles				
by London, Jonathan	Paperback	\$6.99	Age 5-6	ISBN: 0140561757
When the rain stops falling and the	skies clear up, it's tir	me to put on boots	and go outsic	le to play in the puddles.
Get Up and Go!		<u></u>		
by Carlson, Nancy L.	Paperback	\$5.99	Age 5-6	ISBN: 0142410640
Text and illustrations encourage rea walk, dance, and engage in sports a			n off the telev	vision and play games,
Animal Exercises				
by Ross, Mandy	Paperback	\$7.99	Age 5-6	ISBN: 1846430445
A collection of poems describes ho	w familiar animals ko	eep in shape.		
l Love Yoga by Chryssicas, Mary Kaye	Hardcover	Need to buy used	Age 5-8	ISBN: 0756614007
Presents young readers with simple fun through basic poses explained i	e instructions for the	practice of yoga, d		
The Busy Body Book	in step-by-step seque	ences.		
by Rockwell, Lizzy	Paperback	\$6.99	Age 6-8	ISBN: 0553113747
		n body can do, this	book is desig	
Exploring all the many moves, twist		an af seathing a set of		
move around, use their bodies, and		ce of staying active	y fit.	
		ce of staying activel	Age 6-9	ISBN: 0688088090
move around, use their bodies, and Anna Banana	l learn the important Paperback	\$7.99	Age 6-9	
move around, use their bodies, and Anna Banana by Cole, Joanna	l learn the important Paperback	\$7.99	Age 6-9	
move around, use their bodies, and Anna Banana by Cole, Joanna An illustrated collection of jump rop	l learn the important Paperback	\$7.99	Age 6-9	







The focus is on healthy behaviors. Ι.

It's important to remember the focus should be on healthy behaviors and NOT on the weight. Healthy behaviors include 5-2-1-0, plus setting structured mealtimes, eating less fast food, and getting enough sleep.

2. The 5-2-1-0 Healthy Habits Questionnaire.

The first thing to institute in your practice is this questionnaire at all well-child checks for children 2 years and older. Questions to consider:

- When and where will the survey be handed out?
- Who will the patient/parent give the survey back to?
- Where will the survey be placed in the chart?

3. Goal setting with patients and families.

It's important to have patients and families work on one area at a time. Simple, easily attainable goals are the key to success. An example is reducing intake of sugar-sweetened beverages.

Parent information. 4.

It's important to have information for parents on how they can make simple changes in their lives to be healthier. The 5210 Healthy Children toolkit has many handouts available for your patients and their families. Questions to consider:

- What handouts are you going to use?
- Where will the handouts be stored/displayed?
- Who is responsible for ordering/stocking handouts?

Measuring BMI can be complicated. 5.

Here are some things to consider:

- How does your office currently measure patients' height and weight? Who does the measuring? Is it standardized throughout the office?
- Can the person who does the measuring also calculate the BMI and determine the BMI percentile and weight classification? (Usually one person does all of this.)
- Where will the BMI percentile and weight classification be documented?
- Are the appropriate staff members trained in BMI calculations and documentation?

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6. The language we use is very important when working with patients and families on healthy behaviors.

First ask permission and then focus on positive, healthy behaviors, not on the weight.

- A BMI of less than 5% is medically termed "underweight".
 - □ Instead of using the term "underweight", try saying, "Your child may not be getting enough calories every day."
 - \Box Ask the child about his/her daily eating habits.
 - Discuss the 5-2-1-0 behaviors and encourage healthy eating habits.
 - \Box If you think it is applicable, you could begin the conversation around a positive body image.
- A BMI of 5-84% is medically termed "healthy weight". It is still important to talk about healthy behaviors with this group.
- A BMI of 85-94% is medically termed "overweight".
 - □ Instead of using the term "overweight", try reviewing the BMI growth chart with the child/parent. Use wording such as "Your child might be carrying a little extra weight. It might not mean he/she has extra fat."
 - Quickly steer the conversation to the 5-2-1-0 behaviors.
 - Ask the child/parent if there is one behavior they would like to work on.
 - \Box Use the survey to help elicit interest.
 - \Box If they are not interested in making a change now, stay positive and encourage them to pick a behavior to start thinking about.
- A BMI of 95% and above is medically termed "obese".
 - □ Instead of using the term "obese", try "Your child has put on more weight than they have grown tall," or "Your child is carrying around extra weight and this can put them at risk for health conditions such as heart disease and diabetes."
 - \Box Once again, quickly move the discussion to healthy behaviors.

It's important to set a good example. 7.

Practices can set a good example by having healthy snacks available for office staff and avoiding junk food and soda.

8. Potential limitations on the use of the BMI. BMI does not directly measure fat, it measures weight.

That said there have been numerous studies determining BMI to be a good screening tool to identify children who have an increased percentage of body fat and who are at risk for medical conditions, such as heart disease and diabetes.

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Measuring Weight & Length 0-2 Year Olds

What children should I take length measurements for?

Length is measured lying down. Height is measured standing up. Typically, length (lying) down) is measured in children 0-2 years old. The charts are normalized for this age group. The CDC recommends that health care providers use the WHO growth standards to monitor growth in infants and children ages 0-2 year old in the U.S. The CDC recommends using their growth charts for children age 2 years and older in the U.S¹.

Why should I measure weight-for-length?

- The CDC recommends that health care providers use the WHO growth standards to monitor growth for infants and children between 0 and 2 years old in the United States.
- BMI is not a unit of measurement under the age of two. Under the age of two the length measure is used to track growth. BMI uses height not length in its calculation. Length and height cannot be used interchangeably.
- Weight-for-length percentile charts allow clinicians to determine the trend of weight gain as compared to length gain over time (the measurement cannot stand on its own). Any abnormal patterns can help clinicians identify those children who need early dietary intervention.
- This important information is harder to appreciate when plotting weight-for-age and length-for-age with infants.
- Many older children and adolescents with BMI > 95 percentile have been overweight since infancy, so early identification in the first 2 years can have large preventive effects.

Measuring Weight

Infants should be weighed using a hospital-grade platform scale. This may be a beam balance scale or a digital (electronic load cell or strain gauge) scale. Check your equipment regularly to make sure you are getting accurate measurements. Scales should be calibrated on a routine basis. Calibration involves putting known weight on the scale to check accuracy. Be sure the scale is placed on a flat, uncarpeted floor.

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Procedure:

- 1. Remove shoes, clothing, and diaper from the infant.
- 2. Place the scale in the "zero" position before you place the infant on the scale.
- 3. Make sure the child is on the center of the platform.
- 4. Record the measurement to the nearest decimal fraction.
- 5. Remove the child from the scale.

Measuring Length^{2, 3}

Best Practice: A platform with an attached yardstick, a fixed head plate, and a movable footplate is required. The footplate can be adjusted so it comes up to the bottom of infant's heels. This apparatus should be used on a flat surface and requires two people to operate.

Procedure:

- 1. Remove shoes, clothing, and diaper from the infant.
- 2. Lay the child on the platform.
- 3. Have one person hold the head of the infant.
- 4. The other person should keep the infant's knees straight and bring the adjustable footplate up to the infant's heels.
- 5. Secure the footplate.
- 6. Remove the infant from the surface.
- 7. Record the measurement on the yardstick to the nearest $1/8^{th}$ of an inch.

Common Practice: Many clinicians measure infants by laying the patient on the paper covering the exam table and marking the positions of the head and the feet on the paper. They then remove the patient and use a measuring tape to quantify the distance between the two pen markings. While this procedure can be very inaccurate due to the incorrect positioning of the infant, movement and crumpling of the paper and failure to get perpendicular markings by the pen there are a few tips to getting good length data if this method is used in your office:

- Ask the caregiver who is with the patient to hold the patient as still as possible.
- Measure the length three times and use the average.
- If you notice a leveling off or a decline in the patient's length consider a more precise measurement such as the best practice noted above.

Reference:

¹ Centers for Disease Control and Prevention: Growth Charts (www.cdc.gov/growthcharts) ² Lifshitz, Fima. *Pediatric Endocrinology Fifth Edition: Volume 2 Growth, Adrenal, Sexual,* Thyroid, Calcium, and Fluid Balance Disorders. 2007: 4-6.

³ Wales, Jeremy K.H., Rogol, Alan D., Maarten Wit, Jan. Color Atlas of Pediatric Endocrinology and Growth. 1996: 2-3.

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Measuring Height & Weight 2-18 Year Olds

Measuring Weight

Children should be weighed using a platform scale. This may be a beam balance scale or a digital (electronic load cell or strain gauge) scale. Check your equipment regularly to make sure you are getting accurate measurements. Scales should be calibrated on a routine basis. Calibration involves putting known weight on the scale to check accuracy. Be sure the scale is placed on a flat, uncarpeted floor.

Procedure:

- I. Ask the child to remove shoes and bulky clothing.
- 2. Place the scale in the "zero" position before the child steps on the scale.
- 3. Ask the child to stand still with both feet in the center of the platform.
- 4. Record the measurement to the nearest decimal fraction.
- 5. Have the child step off the scale.

Measuring Height

A standing height board or stadiometer is required. This device has a vertical ruler with a sliding horizontal rod that adjusts to rest on the head. It also has a permanent surface to stand on or the entire device is mounted on the wall of a room with a level floor.

Procedure:

- Before you begin, ask the child to remove shoes, hats, and bulky clothing, such as coats and sweaters. Ask the child to
 remove or undo hair styles and hair accessories that interfere with taking a measurement. In rare cases, a child may be
 unwilling to undo an intricate or costly hairstyle. In these situations, care should be taken to locate the actual crown of
 the head.
- 2. Direct the child to stand erect with shoulders level, hands at sides, thighs together, and weight evenly distributed on both feet. The child's feet should be flat on the floor or foot piece, with heels comfortably together and touching the base of the vertical board. There are four contact points between the body and the stadiometer: head, upper back, buttocks, and heels.
- 3. Ask the child to adjust the angle of his/her head by moving the chin up or down in order to align head into the Frankfort Plane. The Frankfort Plane is an imaginary line from the lower margin of the eye socket to the notch above the tragus of the ear (the fleshy cartilage partly extending over the opening of the ear). This is best viewed and aligned when the viewer is directly to the side of and at the eye level of the child. When aligned correctly, the Frankfort Plane is parallel to the horizontal headpiece and perpendicular to the vertical back piece of the stadiometer. NOTE: When the chin is correctly positioned, the back of the head may not make contact with the board. In fact, in a very few individuals, only two points will make contact with the vertical back piece.
- 4. Ask the child to breathe in and maintain his/her position. Lower the headpiece until it firmly touches the crown of the head and is at a right angle with the measurement surface. Check contact points to ensure that the lower body stays in the proper position and the heels remain flat. Some children may stand up on their toes, but verbal reminders are usually sufficient to get them in proper position.
- 5. Record height to the nearest 1/8th of an inch.

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Healthy Habits Questionnaire

(Ages 2-9)

We are interested in the health and well-being of all our patients. Please take a moment to answer the following questions.

Patient Name:	Ag	e: Today's [Date:	
I. How many servings of fruits or vegetables of One serving is most easily identified by the size of the				
2. How many times a week does your child e	at dinner at the table together with the	family?		
3. How many times a week does your child ea	it breakfast?			
4. How many times a week does your child ea	t takeout or fast food?			
5. How many hours a day does your child wat	ch TV/movies or sit and play video/com	puter games?		
6. Does your child have a TV in the room where he /she sleeps?				No 🗆
7. Does your child have a computer in the room where he /she sleeps?				No 🗆
8. How much time a day does your child spen	d in active play (faster breathing/heart r	rate or sweating)?		<u></u>
9. How many 8-ounce servings of the followin	g does your child drink a day?			
100% Juice Water	Fruit drinks or sports drinks Whole milk	Soda or punch Nonfat or redu	uced fat milk	
10. Based on your answers, is there <u>ONE</u>	thing you would like to help your c	hild change now? Plea	se check on	ne box.
 Eat more fruits & vegetables. Take the TV out of the bedroom. Play outside more often. 	 Spend less time watching TV/mov and playing video/computer game Drink less soda, juice, or punch. 	es. 🗌 Dr	t less fast foc ink more wa vitch to skim	
	P	lease give the complete	ed form to y	our clinician. Thank you.
For more information visit us at and the	ial is based upon work supported by the National Institute of Food a e Office of Family Policy, Children and Youth, U.S. Department of Da leveloped in collaboration with The Clearinghouse for Military Fami	efense under Award No. 2010-48709-2186		

5210 Healthy Children is adapted from Let's Go! www.letsgo.org.



Healthy Habits Questionnaire

(Ages 10-18)

We are interested in the health and well-being of all our patients. Please take a moment to answer the following questions.

Patie	nt Name:		Age:	Today's Da	ite:	
I.	How many servings of fruits or vegetables do you eat a day? (One serving is most easily identified by the size of the palm of your hand.)					
2.	How many times a week do you eat dinner at the table together with your family?					
3.	How many times a week do you eat brea	ıkfast?			<u> </u>	
4.	How many times a week do you eat take	out or fast food?				
5.	How many hours a day do you watch TV	/movies or sit and play video/comput	ter games?			
6.	Do you have a TV in the room where you sleep?				Yes 🗆	No 🗆
7.	Do you have a computer in the room where you sleep?			Yes 🗆	No 🗆	
8.	How much time a day do you spend in active play (faster breathing/heart rate or sweating)?					
9.	How many 8-ounce servings of the follow	ing do you drink a day?				
	100% juiceFrui WaterWh		a or punch nfat (skim), Iow-fat	t (1%), or re	duced-fat	(2%) milk
10.	Based on your answers, is there ON	thing you would be interested	in changing nov	v? Please cl	heck one	box.
	 Eat more fruits & vegetables. Take the TV out of the bedroom. Play outside more often. 	 Spend less time watching TV/ and playing video/computer g Drink less soda, juice, or punction 	ames.	🗌 Drinl	ess fast foo < more wat ch to skim	-
		F	Please give the co	mpleted for	m to your	clinician. Thank you
or more	FOR MULTARY FAMILY READINESS	s based upon work supported by the National Institute of Fooc ffice of Family Policy, Children and Youth, U.S. Department of I	• • •			

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developed in collaboration with The Clearinghouse for Military Family Readiness at Penn State University. 5210 Healthy Children is adapted from Let's Go! www.letsgo.org.



What is Motivational **Interviewing?**

Motivational Interviewing (MI) is a guiding style of communication that provides patients with the opportunity to create change in behaviors by providing a nonjudgmental atmosphere. This atmosphere invites patients to consider making changes in their behaviors and elicits intrinsic motivation for change (as opposed to providers telling patients what they must change). (Miller & Rollnick, 2002).

MI is a paradigm shift for many of us, especially those trained in a prescriptive style of communication. We engage in MI as we dialogue with people about many areas of behavior change. MI is not a technique, and it is not a switch that we turn on and off.

We talk about the "Spirit of Motivational Interviewing" which includes the following:

- Person-centered approach;
- Invitation to a collaborative partnership between patient and provider;
- Listening more than telling:
 - eliciting information rather than instilling;
- Placing the responsibility for change with the patient and not the provider;
- Being respectful:
 - asking permission,
 - honoring autonomy,
 - resourcefulness, and
 - providing the ability to choose or make decisions;
- Avoiding coerciveness;
- Increasing intrinsic motivation through thoughtful dialogue and careful listening.

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Why Use Motivational Interviewing

There are several reasons to use Motivational Interviewing (MI); the most compelling however, are research outcomes:

• Through this research, we know that MI plus "*active treatment*" works exceptionally well.

Active treatment can include MI plus:

- I. Nutrition education
- 2. Physical therapy
- 3. Exercise program/support
- 4. General health education
- We also know that there is a larger effect size (i.e. works better with) with minority samples than with Anglo/White samples. We think this outcome is true because
 - I. MI is congruent with cultural values of many minority populations.
 - 2. The power hierarchy is diminished when engaging in MI.
- We also know that the very first meeting matters and that **MI can** make a difference in just one 15-minute interaction.

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Barriers to Utilizing MI

Barriers/Concerns	Suggestions/Comments
I have a checklist of things to get through during my patient visits – how can I incorporate MI in such a short amount of time?	Finish everything on the checklist first. Then start using MI. As you get more practice with MI, it becomes easier to incorporate MI into all aspects of the visit.
How can I effectively give the patient information I deem important while also doing MI?	Using both MI and active treatment (nutrition info, physical therapy, etc.) has proven to be quite effective. Aspects of MI are not always appropriate, and you should use your clinical judgment when determining if instruction should be used.
I've been a practicing physician for 20 years and I have a certain way of doing things. How can I start including MI now?	Though it is hard to change our routine habits, it is best to start slow and work towards incorporating MI at your visit. It doesn't have to happen all at once!
My patients don't want to make these decisions. They are coming to me for expert advice and direction.	Some patients are not receptive to MI, so it is important to understand their expectations when they come in for a visit. Though you may be the clinical expert, they are the expert on themselves. It is best to work together by joining your clinical expertise and their personal knowledge.
MI takes too much time.	MI does not really take any longer than other visits and the first visit is always the most important. Patient outcomes can be influenced in the first 15 minutes of a visit.
MI leaves too much of the process up to the patient – I need to make sure that they actually change so they can get healthier.	It is not your responsibility to make the changes. You are there to facilitate the process. Your role is to help the patient identify the problem. If they identify it, then they usually feel responsible to change. If you identify it, however, they are more likely to resist and make excuses for their behaviors.
When using MI, patients see it as talking down to them.	MI is a genuine practice – it is not about convincing people or about tricking them into doing something. Patients know you have an agenda, so it is best to practice transparency. After all, isn't your agenda to foster a healthier patient population? Try to get the patients involved by giving them options and truly listening to their concerns.

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Traditional Encounter

Scene: Provider Office Characters: Provider and Overweight Adolescent

Greetings and small talk

Provider: Your weight continues to gradually climb. If this keeps up, you'll be at risk for serious complications like diabetes and heart disease. Do you understand how important it is to change your lifestyle?

Adolescent: Yes, I do, but it's really hard.

Provider: Now is the time to make changes. You need to increase your physical activity levels and eat healthier foods. You should be getting at least one hour of physical activity every day.

Adolescent: Okay.

Provider: Here are some handouts about the importance of physical activity and healthy foods.

Adolescent: Okay. *sigh*

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MI Encounter

Scene: Provider and overweight adolescent. Part of a Well-Child visit **Time:** < 3 minutes

Physician: Do you mind if we take a few minutes to discuss ways to stay healthy and energized?

Adolescent: Okay.

Physician: How do you feel about your health and energy levels?

Adolescent: Alright, I guess. I know I'm overweight, but I'm just not sure what to do about it. People always tell me to eat more vegetables, but I don't like them. Also, I don't usually have a lot of energy.

Physician: Ah, so you know you are overweight and your energy levels are low.

Adolescent: Yeah.

Physician: Would you be interested in learning about ways to achieve a healthy weight and have more energy?

Adolescent: I guess so. As long as it's not just "Eat more vegetables".

Sure. Let's explore some different things. One thing that is often associated with Physician: overeating and sedentary behavior is screen time. Could we talk about that?

Adolescent: Okay. What do you mean by screen time?

Physician: I mean TV, movies, videos games and computer.

Adolescent: Ah, yes. I watch a lot of TV.

Physician: Do you think you watch too much TV?

Adolescent: Yeah, probably. I watch it when I get home from school and then before I go to bed. There's usually nothing good on, there's just nothing else to do.

Physician: You know you watch a lot of TV, but it sounds like it's out of habit or boredom a lot of the time. Did I hear you correctly?

Adolescent: Yes.

Physician: Would you like to consider reducing your screen time?

Adolescent: Yes.

Physician: Great. Let's discuss some next steps . . .

Invite adolescent to come back for a planned visit around healthy weight. At this planned visit, the provider would have time to further delve into the spirit of Motivational Interviewing.

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Elicit Behavior Changes

Open-ended:

- \rightarrow Can you tell me a little more about ?
- \rightarrow What things do you do on a regular basis to stay healthy?
- \rightarrow Can you describe activities that you and your family do that are physically active?
- \rightarrow What is it like to live with diabetes?
- \rightarrow If you made the decision to _____, what are the steps you would take?
- \rightarrow What would be different about your life 3 months down the road if you make (or don't make) this change?
- \rightarrow How would you benefit from making a change?
- \rightarrow Why would you want to ?
- \rightarrow Highs & Lows Explain something that's really good and something that is bad.

Affirming:

- \rightarrow I understand how hard it can be to talk about these things and I appreciate you opening up.
- \rightarrow I think you're making a great choice in wanting to improve your health.
- \rightarrow Wow! I'm impressed by your motivation to make some life changes.
- \rightarrow You're doing great!

Reflective Listening:

- \rightarrow You are making legitimate lifestyle changes, but it doesn't feel like it's making a difference.
- \rightarrow You really want to make some changes, but you're not sure how those changes will fit with your current schedule.
- \rightarrow It sounds like has actually complicated things.
- \rightarrow You are very worried about .

Summary:

 \rightarrow Do I understand this correctly?

Focused Advice:

- \rightarrow Ask permission
- \rightarrow Do you have any ideas on how to facilitate the change?
- \rightarrow Some things have worked well for other patients, including
- \rightarrow Gauge client's reaction: how do you feel about the things we've discussed/my advice?

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