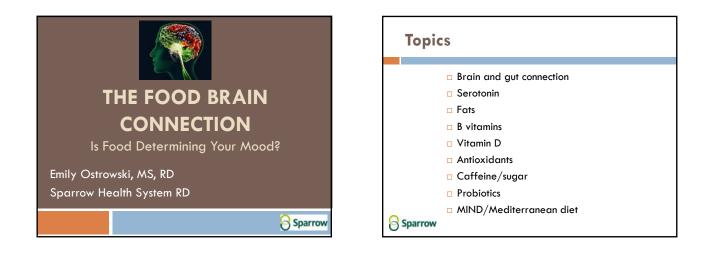
Nutrition for your Noggin: Foods and Brain Health

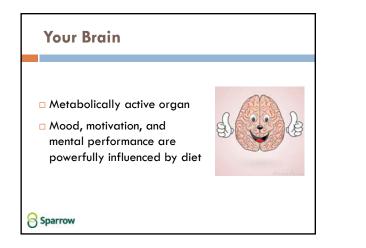
Emily Ostrowski Emily.Ostrowski@sparrow.org

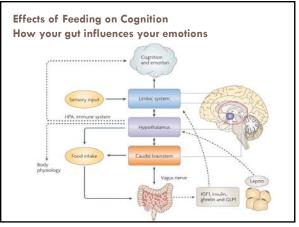
Objective:

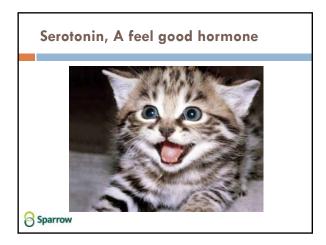
Identify advances in clinical assessment and management of selected healthcare issues related to persons with developmental disabilities

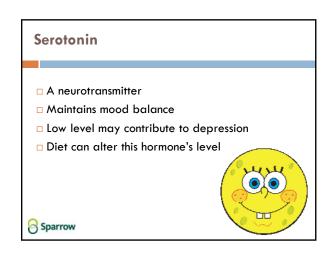
Notes:

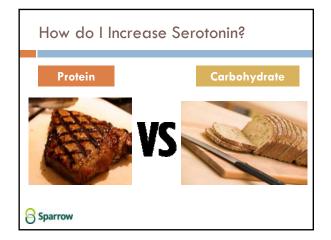


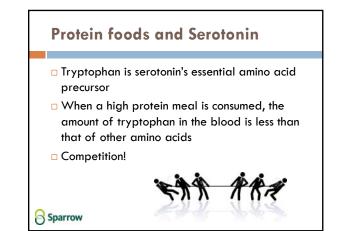


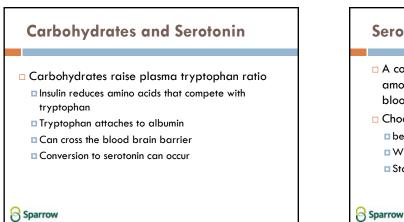




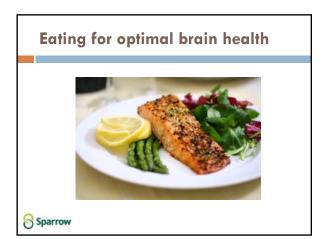


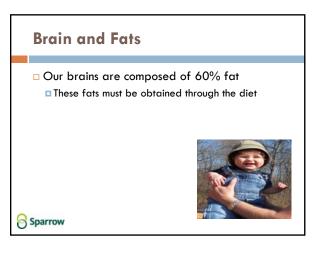


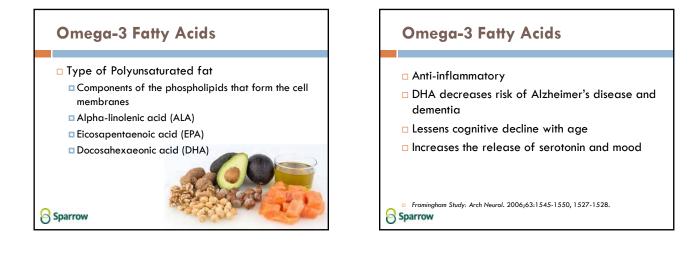


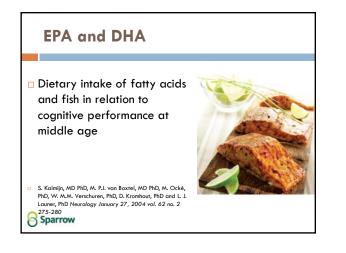


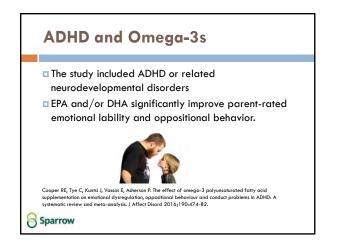


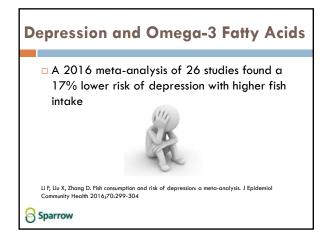


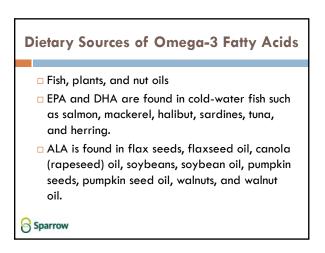












Omega-3 Fatty Acids

Good Sources:

 Fish (2-3 weekly servings of salmon, tuna, mackerel, sardines), walnuts, flaxseeds, canola oil





Sparrow

Sparrow

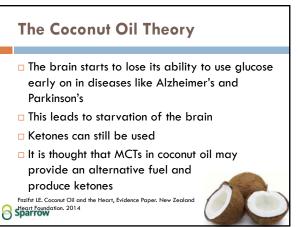
Monounsaturated Fats

- Help to maintain a healthy blood flow
- May lower blood pressure which promotes brain function





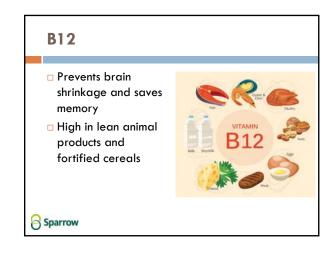












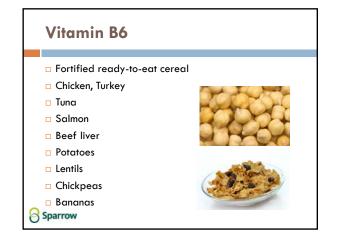
Folate

Sparrow

- Crucial for proper brain function and plays an important role in mental and emotional health
- Low levels may lead to forgetfulness and mental sluggishness
- Low levels may be related to depression
- Spinach, dark leafy greens, and fortified grains







Choline Fat-like B vitamin May enhance memory, reaction time, and decrease fatigue Intake may decrease with age Adults 71+ consume ½ adequate intake

Choline

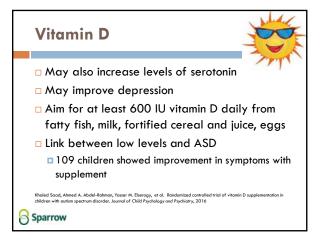
Good Sources:

- Eggs (yolk)
- Wheat germ
- Beans
- Cauliflower, peas, Spinach
- Nuts
- Meat and fish

Sparrow



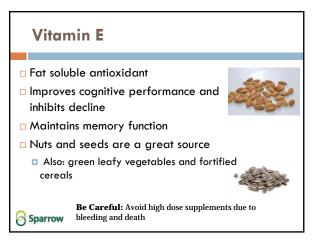




Antioxidants

- Aid in learning and memory performance
- Protect brain cells from everyday damage
- Good Sources: berries, dark green and orange vegetables, nuts

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Blueberries

- □ A powerful antioxidant
- Blueberries can decrease symptoms of depression
- Can also enhance memory and learning
 - May be able to fight Alzheimer's and Parkinson's

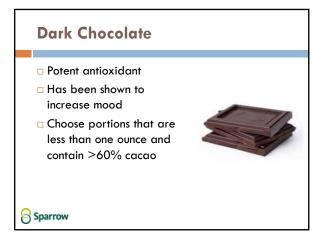




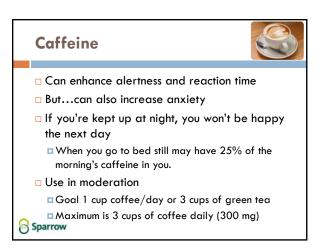
Curcumin

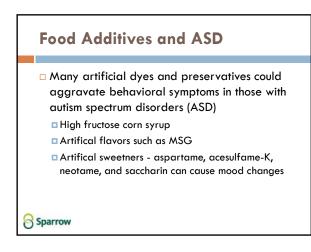
- Important antioxidant
- Traditional Indian preservative and medicinal herb
- Lowers memory deficit, Alzheimer's, and brain trauma
- Lower prevalence of Alzheimer's in India
- □ Use cumin as a spice in your favorite recipes

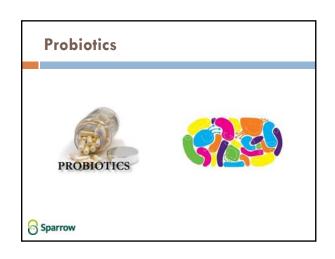








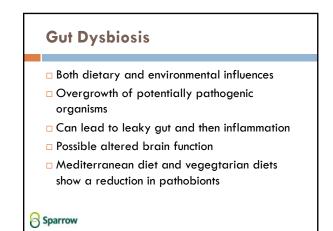


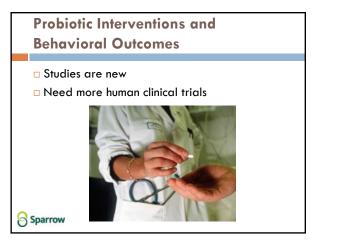


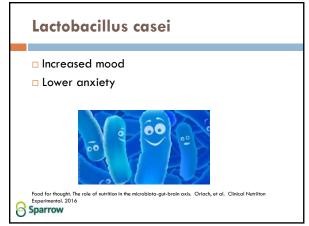
Microbial Imbalance

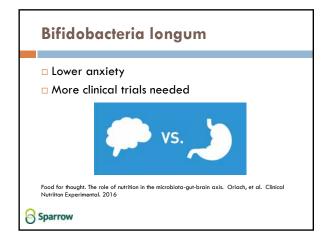
 Dysbiosis of gut microbial function has been associated with behavioral and neurophysical deficits

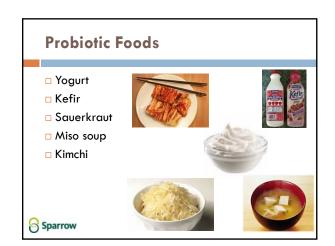










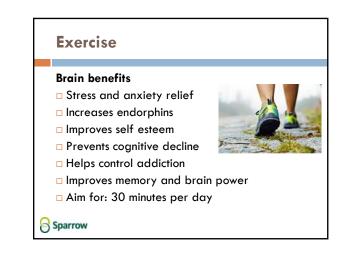


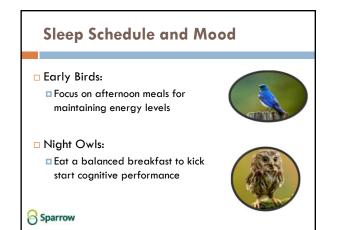
Eating Breakfast

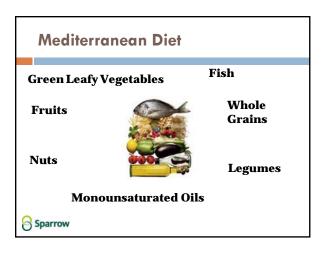
- Helps enhance focus, learning, memory, energy, and calmness
- Skipping breakfast can cause over eating at lunch, in addition fatigue and anxiety
- Choose fiber (oatmeal, fruit), lean protein (eggs, Greek yogurt), whole grains











Mediterranean Diet Lower rates of depression May be related to the high B12 and folate Less blood vessel damage to the brain Reduced risk of developing mild cognitive impairment Can help reduce the risk of Alzheimer's disease

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MIND Diet

- If followed closely may reduce chance of developing Alzheimer's by 53%
- If followed moderately, may still decrease risk by 35%
- High in vitamin E (potent antioxidant)
 Nuts, plant oils, seeds, leafy greens
- \square High in DHA

