VITAMINS & MINERALS: HOW TO INCREASE ABSORPTION

Presented by: Riley Healey, DTR, CPP Dietetic Intern

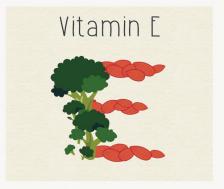
WHAT ARE VITAMINS AND MINERALS?

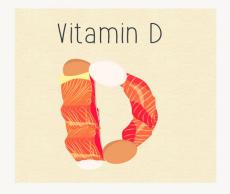


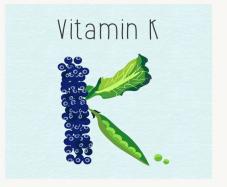
- Vitamins:
 - Organic compounds that are essential micronutrients needed to carry out body processes.
- Minerals:
 - Inorganic compounds found naturally on earth with crystalline structures.

FAT SOLUBLE VITAMINS









- Vitamins A, D, E, & K
- Dissolved in fats and
- Better absorbed if eaten with a source of dietary fat.
- Excess fat-soluble vitamins are stored in the liver and fatty tissues for future use.

WATER SOLUBLE VITAMINS

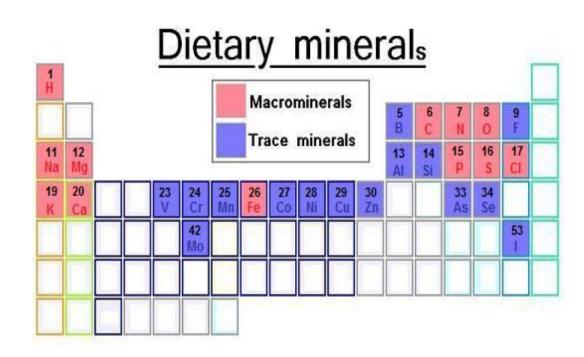
- Dissolved in water
- Absorbed quickly into tissues for immediate use.
- Not stored in the body
- Excess will be excreted in urine.

Water Soluble Vitamins	
Vitamin:	Name:
B1	Thiamine
B2	Riboflavin
B3	Niacin
B5	Pantothenic Acid
B6	Pyridoxine
B7	Biotin
B9	Folate
B12	Cobalamin
С	Ascorbic Acid

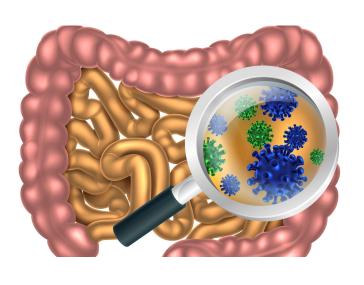
MINERAL NUTRIENTS

Most common include:

- Calcium
- Sodium
- Phosphorous
- Potassium
- Zinc
- Iron
- Magnesium
- Iodine



HOW DOES NUTRIENT ABSORPTION WORK?



- Digestive bacteria and enzymes break down your food into molecules.
- These molecules travel into your small intestine and absorbed into the bloodstream.
- Making sure that you're absorbing nutrients properly is important for overall health.

TIPS TO IMPROVE ABSORPTION

- Add a source of fat to your vegetables
- Avoid drinking alcohol often with food
 - Wait 3-4 hours
- Take time to chew your food thoroughly
- Include intake of probiotics
 - Yogurt, Kimchi, kombucha, apple cider vinegar, Miso



LET'S TALK ABOUT FOOD SYNERGY...



Synergy:

- the interaction of two or more substances to produce a combined effect greater than the sum of their separate effects.
- How you combine foods can have a major impact on how well your body absorbs the vitamins and minerals.

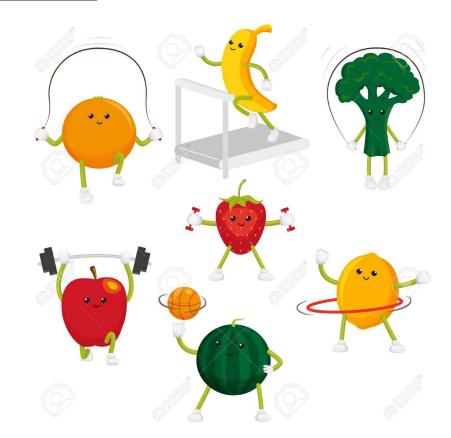
PAIRINGS THAT MAXIMIZE ABSORPTION:



- Vitamin C increases absorption of Iron
- Vitamin D increases
 absorption of Calcium
- Acid increase absorption of Vitamin B12

PAIRINGS THAT INTERFERE/MINIMIZE ABSORPTION:

- Calcium interferes with
 Iron absorption.
- Vitamin E interferes with
 Vitamin K absorption.
- Iron + Zinc + Copper all compete with each other for absorption.



WHAT ABOUT TAKING MULTIVITAMINS?



- Generally used to provide nutrients that you may not be getting in your diet or to treat vitamin deficiencies.
- Eating more fruits and vegetables would be better investment in our health.
- We should strive to get our nutrients from foods not pills.
- Moral of the story, taking a multivitamin does not mean it will make you healthy if you eat poorly.

IN CONCLUSION:

- Integrating whole, healthy foods into your diet on a regular basis is key.
- Even if you eat all the right things you might not feel any healthier if these nutrients aren't being properly absorbed by your body.
- This is why practicing food synergy is so important to make sure your body gets the most out of what you put into it!

QUESTIONS?

RESOURCES:

https://whatsgood.vitaminshoppe.com/nutrients-to-pair-together/

https://www.simplemost.com/6-food-combinations-help-body-absorb-nutrients/

https://www.hyperbiotics.com/blogs/recent-articles/76292739-improving-nutrient-absorption-what-you-need-to-know