WELLNESS @ DICKINSON

#### VITAMINS, MINERALS, AND HERBS

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#### WELLNESS @ DICKINSON

- 1) What are vitamins and minerals and where do we find them?
  - 2) Should we be taking supplements?
- 3) How do we know if the supplements are safe and effective?





Vitamins and minerals... Examples **B Vitamins** Calcium Iron Vitamin C Vitamin D

#### **B Vitamins**

- Thiamin (B1): Energy metabolism
- Niacin (B3): Energy metabolism
- Riboflavin (B2): Energy Metabolism
- Vitamin B6: create neurotransmitters, involved in immune function, heme production, and amino acid conversion
- Folic Acid (B9): tissue turnover, cell division, production of DNA
- Vitamin B12: energy metabolism, function of brain, nerves, blood cells
- Pantothenic Acid (B5): energy metabolism
- Biotin (B7): energy metabolism, skin health

#### **B Vitamins**

Deficiency

B12 & folic acid - anemia

Folic acid - neural tube defect

**B12** - tingling and numbness in extremities

**B6** - cardiac disorders; depression,

inflammation



#### **B Vitamins**

Sources

Animal products: meat, fish, eggs, dairy

Plant sources: green veggies, beans, peas

Fortified foods: cereals, breads



- Involved in muscle function, nerve function, vascular function, hormonal secretion, and cellular signaling, bone structure (ODS, 2018)
- supplement forms include carbonate and citrate. Carbonate absorbed most efficiently with food. Citrate can be taken with or without food.
- Calcium is stored in bone and teeth
- Absorption in doses 500mg or less



#### Calcium Deficiency

- Deficiency occurs as function of disease in renal failure, gastric surgery, diuretic use
- Concern for deficiency in postmenopausal women, amenorrheic women (female athlete triad), those allergic/intolerant to cows milk, vegetarians
- Symptoms of deficiency: muscle cramps, tingling fingers, convulsions, lethargy, impaired appetite, cardiac arrhythmia, death, osteopenia, osteoporosis, bone fracture



In the Diet

Table 1: Recommended Dietary Allowances (RDAs) for Calcium [1]

| Age          | Male     | Female   | Pregnant | Lactating |
|--------------|----------|----------|----------|-----------|
| 0-6 months*  | 200 mg   | 200 mg   |          |           |
| 7-12 months* | 260 mg   | 260 mg   |          |           |
| 1-3 years    | 700 mg   | 700 mg   |          |           |
| 4-8 years    | 1,000 mg | 1,000 mg |          |           |
| 9-13 years   | 1,300 mg | 1,300 mg |          |           |
| 14-18 years  | 1,300 mg | 1,300 mg | 1,300 mg | 1,300 mg  |
| 19-50 years  | 1,000 mg | 1,000 mg | 1,000 mg | 1,000 mg  |
| 51-70 years  | 1,000 mg | 1,200 mg |          |           |
| 71+ years    | 1,200 mg | 1,200 mg |          |           |

<sup>\*</sup> Adequate Intake (AI)



#### In the Diet

Table 2: Selected Food Sources of Calcium [2]

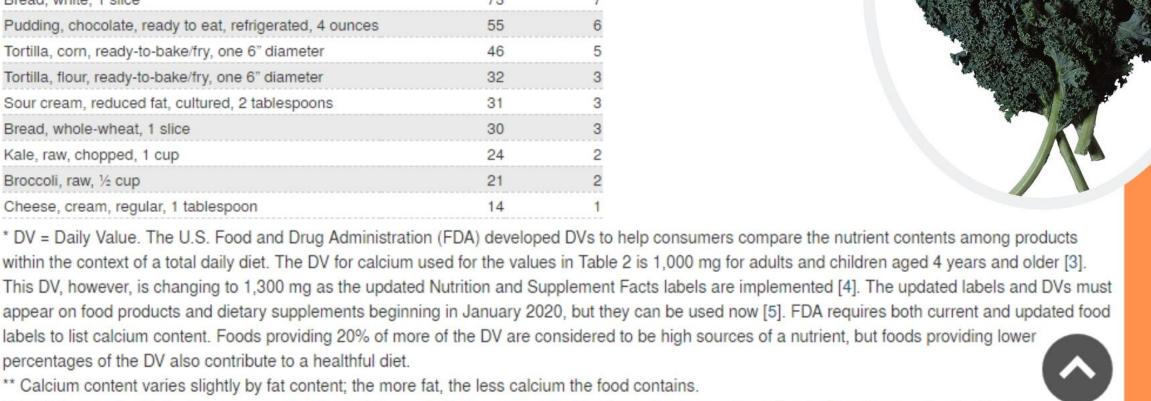
| Food   | Milligrams (mg) | Percent DV/* |
|--|-----------------|--------------|
|  | per serving     | Percent DV*  |
| Yogurt, plain, low fat, 8 ounces                 | 415             | 42           |
| Mozzarella, part skim, 1.5 ounces                | 333             | 33           |
| Sardines, canned in oil, with bones, 3 ounces    | 325             | 33           |
| Yogurt, fruit, low fat, 8 ounces                 | 313-384         | 31–38        |
| Cheddar cheese, 1.5 ounces                       | 307             | 31           |
| Milk, nonfat, 8 ounces**                         | 299             | 30           |
| Soymilk, calcium-fortified, 8 ounces             | 299             | 30           |
| Milk, reduced-fat (2% milk fat), 8 ounces        | 293             | 29           |
| Milk, buttermilk, lowfat, 8 ounces               | 284             | 28           |
| Milk, whole (3.25% milk fat), 8 ounces           | 276             | 28           |
| Orange juice, calcium-fortified, 6 ounces        | 261             | 26           |
| Tofu, firm, made with calcium sulfate, ½ cup***  | 253             | 25           |
| Salmon, pink, canned, solids with bone, 3 ounces | 181             | 18           |
| Cottage cheese, 1% milk fat, 1 cup               | 138             | 14           |
| Tofu, soft, made with calcium sulfate, ½ cup***  | 138             | 14           |
| Ready-to-eat cereal, calcium-fortified, 1 cup    | 100-1,000       | 10-100       |
| Frozen yogurt, vanilla, soft serve, ½ cup        | 103             | 10           |



percentages of the DV also contribute to a healthful diet.

In the Diet

| Turnip greens, fresh, boiled, ½ cup                      | 99 | 10 |
|--|----|----|
| Kale, fresh, cooked, 1 cup                               | 94 | 9  |
| Ice cream, vanilla, ½ cup                                | 84 | 8  |
| Chinese cabbage, bok choi, raw, shredded, 1 cup          | 74 | 7  |
| Bread, white, 1 slice                                    | 73 | 7  |
| Pudding, chocolate, ready to eat, refrigerated, 4 ounces | 55 | 6  |
| Tortilla, corn, ready-to-bake/fry, one 6" diameter       | 46 | 5  |
| Tortilla, flour, ready-to-bake/fry, one 6" diameter      | 32 | 3  |
| Sour cream, reduced fat, cultured, 2 tablespoons         | 31 | 3  |
| Bread, whole-wheat, 1 slice                              | 30 | 3  |
| Kale, raw, chopped, 1 cup                                | 24 | 2  |
| Broccoli, raw, ½ cup                                     | 21 | 2  |
| Cheese, cream, regular, 1 tablespoon                     | 14 | 1  |

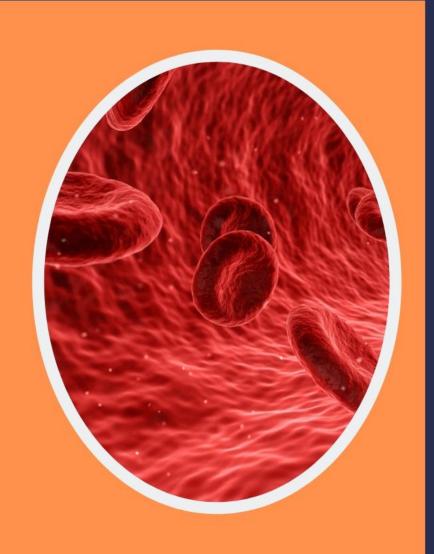


<sup>\*\*</sup> Calcium content varies slightly by fat content; the more fat, the less calcium the food contains.

<sup>\*\*\*</sup> Calcium content is for tofu processed with a calcium salt. Tofu processed with other salts does not provide significant amounts of calcium.

#### Iron

- Involved in creation of hemoglobin and myoglobin which is used to carry oxygen in red blood cells from the lungs to the body including muscles. Also involved in some hormones and connective tissue (ODS Consumer Fact Sheet, 2016)
- Take with vitamin C to aid absorption
- Symptoms of deficiency: fatigue, increased infections, poor concentration and memory, impaired ability to control body temperature



## ron In the Diet

Table 1: Recommended Dietary Allowances (RDAs) for Iron [5]

| Age               | Male     | Female   | Pregnancy | Lactation |
|-------------------|----------|----------|-----------|-----------|
| Birth to 6 months | 0.27 mg* | 0.27 mg* |           |           |
| 7-12 months       | 11 mg    | 11 mg    |           |           |
| 1-3 years         | 7 mg     | 7 mg     |           |           |
| 4-8 years         | 10 mg    | 10 mg    |           |           |
| 9-13 years        | 8 mg     | 8 mg     |           |           |
| 14-18 years       | 11 mg    | 15 mg    | 27 mg     | 10 mg     |
| 19-50 years       | 8 mg     | 18 mg    | 27 mg     | 9 mg      |
| 51+ years         | 8 mg     | 8 mg     |           |           |



<sup>\*</sup> Adequate Intake (AI)

## ron In the Diet

Table 2: Selected Food Sources of Iron [17]

| Food  | Milligrams | Deveent DV* |
|---|------------|-------------|
| Food  |            | Percent DV* |
| Breakfast cereals, fortified with 100% of the DV for iron, 1 serving  | 18         | 100         |
| Oysters, eastern, cooked with moist heat, 3 ounces                    | 8          | 44          |
| White beans, canned, 1 cup  | 8          | 44          |
| Chocolate, dark, 45%-69% cacao solids, 3 ounces                       | 7          | 39          |
| Beef liver, pan fried, 3 ounces                                       | 5          | 28          |
| Lentils, boiled and drained, ½ cup                                    | 3          | 17          |
| Spinach, boiled and drained, ½ cup                                    | 3          | 17          |
| Tofu, firm, ½ cup   | 3          | 17          |
| Kidney beans, canned, ½ cup   | 2          | 11          |
| Sardines, Atlantic, canned in oil, drained solids with bone, 3 ounces | 2          | 11          |
| Chickpeas, boiled and drained, ½ cup                                  | 2          | 11          |
| Tomatoes, canned, stewed, ½ cup                                       | 2          | 11          |
| Beef, braised bottom round, trimmed to 1/8" fat, 3 ounces             | 2          | 11          |
| Potato, baked, flesh and skin, 1 medium potato                        | 2          | 11          |
| Cashew nuts, oil roasted, 1 ounce (18 nuts)                           | 2          | 11          |
| Green peas, boiled, ½ cup   | 1          | 6           |
| Chicken, roasted, meat and skin, 3 ounces                             | 1          | 6           |
| Rice, white, long grain, enriched, parboiled, drained, ½ cup          | 1          | 6           |
| Bread, whole wheat, 1 slice   | 1          | 6           |



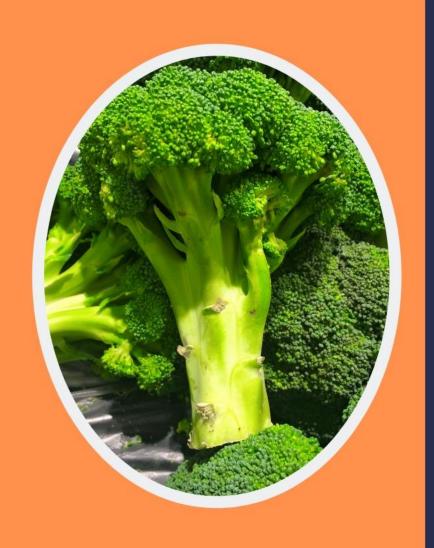
### ron In the Diet

| Bread, white, 1 slice                            | 1 | 6 |
|--|---|---|
| Raisins, seedless, 1/4 cup                       | 1 | 6 |
| Spaghetti, whole wheat, cooked, 1 cup            | 1 | 6 |
| Tuna, light, canned in water, 3 ounces           | 1 | 6 |
| Turkey, roasted, breast meat and skin, 3 ounces  | 1 | 6 |
| Nuts, pistachio, dry roasted, 1 ounce (49 nuts)  | 1 | 6 |
| Broccoli, boiled and drained, ½ cup              | 1 | 6 |
| Egg, hard boiled, 1 large                        | 1 | 6 |
| Rice, brown, long or medium grain, cooked, 1 cup | 1 | 6 |
| Cheese, cheddar, 1.5 ounces                      | 0 | 0 |
| Cantaloupe, diced, ½ cup                         | 0 | 0 |
| Mushrooms, white, sliced and stir-fried, ½ cup   | 0 | 0 |
| Cheese, cottage, 2% milk fat, ½ cup              | 0 | 0 |
| Milk, 1 cup                                      | 0 | 0 |

<sup>\*</sup> DV = Daily Value. The U.S. Food and Drug Administration (FDA) developed DVs to help consumers compare the nutrient contents of products within the context of a total diet. The DV for iron is 18 mg for adults and children age 4 years and older [18,19]. FDA requires food labels to list iron content. Foods providing 20% or more of the DV are considered to be high sources of a nutrient, but foods providing lower percentages of the DV also contribute to a healthful diet.

#### Vitamin C

- Water Soluble, essential (we cannot produce it internally)
- possibly prevent or delay onset of cancer because of antioxidant properties
- Helps with iron absorption
- Those at greatest risk for deficiency include smokers, infants fed boiled or evaporated milk (heat destroys vitamin C), those with limited food intake/variety, those with certain diseases like renal disease, those who abuse drugs and alcohol



#### Vitamin C

• Symptoms of deficiency: scurvy (within 1 month of deficiency), fatigue, impaired carnitine biosynthesis, inflammation of gums, weakened connective tissue, joint pain, impaired wound healing, depression, iron deficiency anemia



## Vitamin C In the Diet

Table 1: Recommended Dietary Allowances (RDAs) for Vitamin C [8]

| Age         | Male  | Female | Pregnancy | Lactation |
|-------------|---|--------|-----------|-----------|
| 0-6 months  | 40 mg*  | 40 mg* |           |           |
| 7-12 months | 50 mg*  | 50 mg* |           |           |
| 1-3 years   | 15 mg   | 15 mg  |           |           |
| 4-8 years   | 25 mg   | 25 mg  |           |           |
| 9-13 years  | 45 mg   | 45 mg  |           |           |
| 14-18 years | 75 mg   | 65 mg  | 80 mg     | 115 mg    |
| 19+ years   | 90 mg   | 75 mg  | 85 mg     | 120 mg    |
| Smokers     | Individuals who smoke require 35 mg/day more vitamin C than nonsmokers. |        |           |           |

<sup>\*</sup> Adequate Intake (AI)



#### Vitamin C In the Diet

Table 2: Selected Food Sources of Vitamin C [12]

|                                    | • •                         |                 |
|------------------------------------|-----------------------------|-----------------|
| Food                               | Milligrams (mg) per serving | Percent (%) DV* |
| Red pepper, sweet, raw, ½ cup      | 95                          | 158             |
| Orange juice, ¾ cup                | 93                          | 155             |
| Orange, 1 medium                   | 70                          | 117             |
| Grapefruit juice, % cup            | 70                          | 117             |
| Kiwifruit, 1 medium                | 64                          | 107             |
| Green pepper, sweet, raw, ½ cup    | 60                          | 100             |
| Broccoli, cooked, ½ cup            | 51                          | 85              |
| Strawberries, fresh, sliced, ½ cup | 49                          | 82              |
| Brussels sprouts, cooked, ½ cup    | 48                          | 80              |
| Grapefruit, ½ medium               | 39                          | 65              |
| Broccoli, raw, ½ cup               | 39                          | 65              |
| Tomato juice, ¾ cup                | 33                          | 55              |
| Cantaloupe, ½ cup                  | 29                          | 48              |
| Cabbage, cooked, ½ cup             | 28                          | 47              |
| Cauliflower, raw, ½ cup            | 26                          | 43              |
| Potato, baked, 1 medium            | 17                          | 28              |
| Tomato, raw, 1 medium              | 17                          | 28              |
| Spinach, cooked, ½ cup             | 9                           | 15              |
| Green peas, frozen, cooked, ½ cup  | 8                           | 13              |
|                                    |                             |                 |

\*DV = Daily Value. The U.S. Food and Drug Administration (FDA) developed DVs to help consumers compare the nutrient contents of products within the context of a total diet. The DV for vitamin C used for the values in Table 2 is 60 mg for adults and children age 4 years and older [13]. This DV, however, is changing to 90 mg as the updated Nutrition and Supplement Facts labels are implemented [14]. The updated labels and DVs must appear on food products and dietary supplements beginning in January 2020, but they can be used now [15]. FDA requires current food labels to list vitamin C content, but this requirement will be dropped with the updated labels. Foods providing 20% or more of the DV are considered to be high sources of a nutrient, but foods providing lower percentages of the DV also contribute to a healthful diet.

The U.S. Department of Agriculture's (USDA's) National Nutrient Database & lists the nutrient content of many foods and provides a comprehensive list of foods containing vitamin C arranged by nutrient content and by food name.



#### Vitamin D

- **Deficiency**: poor bone health, muscle spasms, impaired immune system
- Needs 600-800IU depending on age



#### Vitamin D In the Diet

Table 3: Selected Food Sources of Vitamin D [11]

|  | IUs per  | Percent |
|--|----------|---------|
| Food   | serving* | DV**    |
| Cod liver oil, 1 tablespoon  | 1,360    | 340     |
| Swordfish, cooked, 3 ounces  | 566      | 142     |
| Salmon (sockeye), cooked, 3 ounces   | 447      | 112     |
| Tuna fish, canned in water, drained, 3 ounces  | 154      | 39      |
| Orange juice fortified with vitamin D, 1 cup (check product labels, as amount of added vitamin D varies)                                       | 137      | 34      |
| Milk, nonfat, reduced fat, and whole, vitamin D-fortified, 1 cup   | 115-124  | 29-31   |
| Yogurt, fortified with 20% of the DV for vitamin D, 6 ounces (more heavily fortified yogurts provide more of the DV)                           | 80       | 20      |
| Margarine, fortified, 1 tablespoon   | 60       | 15      |
| Sardines, canned in oil, drained, 2 sardines   | 46       | 12      |
| Liver, beef, cooked, 3 ounces  | 42       | 11      |
| Egg, 1 large (vitamin D is found in yolk)  | 41       | 10      |
| Ready-to-eat cereal, fortified with $10\%$ of the DV for vitamin D, $0.75-1$ cup (more heavily fortified cereals might provide more of the DV) | 40       | 10      |
| Cheese, Swiss, 1 ounce   | 6        | 2       |
|  |          |         |

<sup>\*</sup> IUs = International Units.

<sup>\*\*</sup> DV = Daily Value. The U.S. Food and Drug Administration (FDA) developed DVs to help consumers compare the nutrient contents of products within the context of a total diet. The DV for vitamin D used for the values in Table 3 is 400 IU for adults and children age 4 years and older [15]. This DV, however, is changing to 20 mcg as the updated Nutrition and Supplement Facts labels are implemented [16]. The updated labels and DVs must appear on food products and dietary supplements beginning in January 2020, but they can be used now [17]. FDA does not currently require food labels to list vitamin D content unless a food has been fortified with this nutrient, but it requires vitamin D content to be listed on the updated labels. Foods providing 20% or more of the DV are considered to be high sources of a nutrient, but foods providing lower percentages of the DV also contribute to a healthful diet.

Other Supplements and Functional Foods/Ingredients

#### Examples

# Fish Oil/Omega 3 Weight loss supplements

#### Probiotics

#### Research based uses

- Digestive issues
- Allergic issues
- Oral health problems
- Liver disease
- Common cold



#### Probiotics

In food

- Yogurt
- Kefir
- Fermented foods such as non-pasteurized sauerkraut and kimchi



#### Omega 3

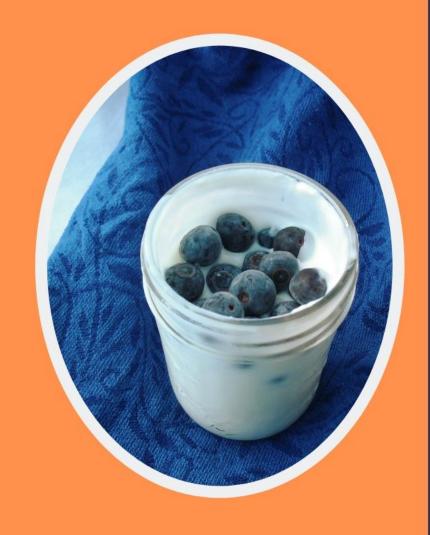
#### Research based uses

- ESSENTIAL nutrient meaning body can't create it from other nutrients
- Cardiovascular benefits
- Anti inflammatory properties
- Improved pulmonary function
- Possible mental health benefits



## Omega 3 Infood

- shrimp, tuna, sardines, anchovies, salmon, catfish, mackerel, herring
- flax seed, flax oil
- walnuts, walnut oil



#### WHAT ABOUT

Weight Loss?



| Common ingredients in wei            | ight-loss dietary supplements | ODS Fact Sheet |  |
|--------------------------------------|-------------------------------|----------------|--|
| INGREDIENT                           | DOES IT WORK?                 | IS IT SAFE?    |  |
| + African mango                      |                               |                |  |
| + Beta-glucans                       |                               |                |  |
| + Bitter orange                      |                               |                |  |
| + Caffeine                           |                               |                |  |
| + Calcium                            |                               |                |  |
| + Capsaicin                          |                               |                |  |
| + Carnitine                          |                               |                |  |
| + Chitosan                           |                               |                |  |
| + Chromium                           |                               |                |  |
| + Coleus forskohlii                  |                               |                |  |
| + Conjugated linoleic acid (Cl       | LA)                           |                |  |
| + Fucoxanthin                        |                               |                |  |
| + Garcinia cambogia                  |                               |                |  |
| + Glucomannan                        |                               |                |  |
| + Green coffee bean extract          |                               |                |  |
| + Green tea and green tea ext        | ract                          |                |  |
| + Guar gum                           |                               |                |  |
| Guarana (see the section or          | n <u>Caffeine</u> )           |                |  |
| + Hoodia                             |                               |                |  |
| ☐ Kola (or cola) nut (see the s      | ection on <u>Caffeine</u> )   |                |  |
| ☐ Mate (see the section on <u>Ca</u> | ffeine)                       |                |  |
| + Probiotics                         |                               |                |  |
| + Pyruvate                           |                               |                |  |
| + Raspberry ketone                   |                               |                |  |
| + Vitamin D                          |                               |                |  |
| + White kidney bean/bean poor        | d                             |                |  |
| Yerba mate (see the section          | on <u>Caffeine</u> )          |                |  |
| + Vohimbo                            |                               |                |  |



Some spices, herbs, and aromatics have medicinal properties

- Antioxidants
- Anti-inflammation
- Disease prevention
- Antimicrobial and antifungal

#### Antioxidants

In food

- Cinnamon
- Cloves
- Cumin
- Ginger
- Oregano
- Tumeric
- Dill
- Marjoram
- Peppermint
- Rosemary
- Sage



In food

 Tumeric: cancer prevention, lower cholesterol, reduce platelet aggregation; possible remission of ulcerative colitis



In food

- Capsaicin: ingredient in chili peppers
  - anti-cancer (pancreas, breast, lung, prostate, colon, brain, liver, stomach, skin, bladder)



In food

Cinnamon

 may improve blood sugar control



In food

- Ginger
  - reduce nausea and vomiting
  - reduce platelet aggregation
  - improve blood pressure
  - improve blood sugars

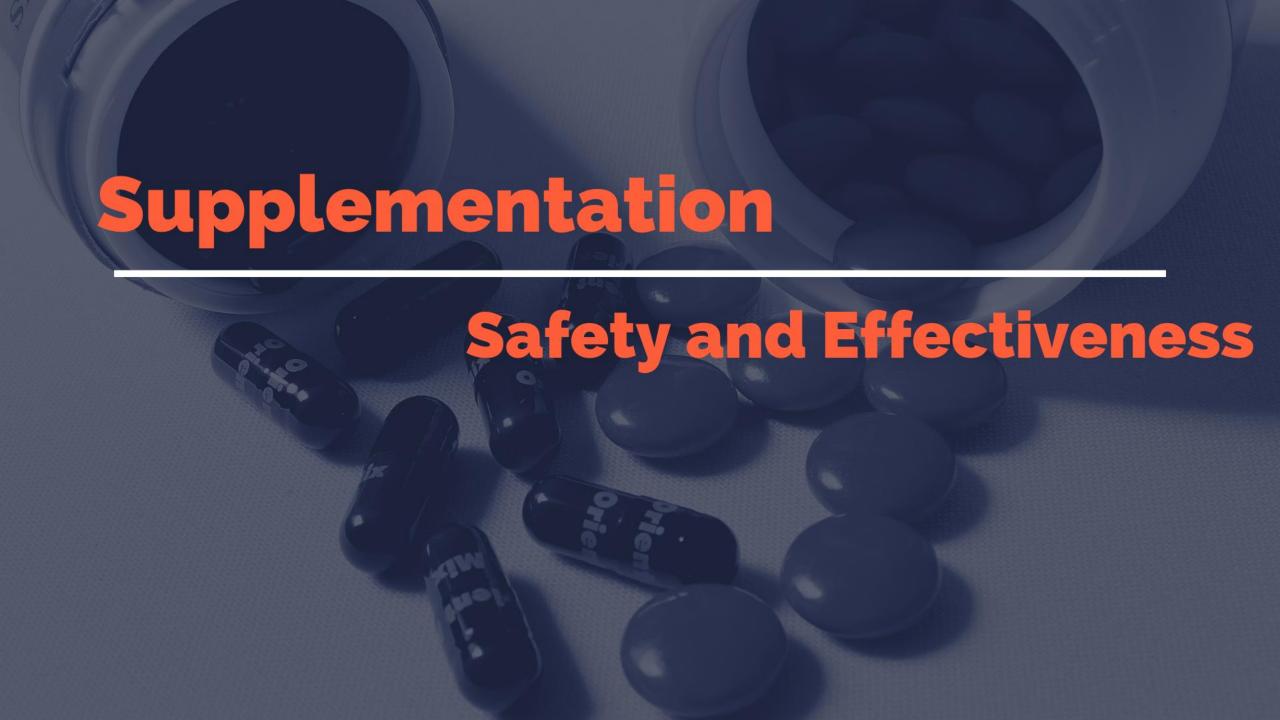


#### Anti-Microbe and Anti-Fungal

#### In food

 Chili peppers, garlic, onion, anise, cinnamon, coriander, cumin, ginger, lemongrass, tumeric







A step-by-step guide to understanding the supplement label and the assurances of the USP Verified Mark

#### Look for the USP Verified Mark

USP stands for the "United States Pharmacopeia" —a scientific, nonprofit organization that sets federally recognized public standards of quality for medicines, dietary supplements, and foods. The USP mark means the supplement has been independently tested to confirm the product meets USP quality standards.





% Daily Value

indicates the percent of the Reference Daily Intake (RDI) or Daily Reference Value (DRV) of a dietary ingredien

potency—that is, the strength or amount of the ingredient—matches what is declared on the label.

#### **Get the Facts–Check the Back**

The back of the label is where you will find a wealth of information. In addition to items required by law\*—like the manufacturer's address, lot number, or notice of potential allergens—USP verifies the label claims for accuracy and requires additional information to help you make an informed choice.

Serving Size 1 Tablet

Amount Per Serving %Daily Value\* (
Vitamin D3 400 IU, USP 500%

OTHER INGREDIENTS: Cellulose gel, Croscarmellose Sodium, Magnesium Stearate Manufacturer's Contact Information: Distributed by: Company Name Company Address, Phone Number and Website

CAUTION: Consult with your physician before taking this product if you are pregnant.

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

#### Suggested Use and Serving Size

Dietary supplements are regulated as food, so the recommended amount is listed in terms of "Serving Size"—often in the form of the number of tablets or capsules to be consumed. USP tests each product for performance to ensure it will break down and releas the ingredients into the body as intended.

#### Supplement Facts

The supplement label lists the individual ingredients contained in each tablet or capsule. USP tests products to positively confirm the identity and purity of each ingredient.

**Supplement Facts** Servings Per Container 50

#### Marini D3 400 IU, USP 500% Marini B3 (ei Hydrochfordio) 10 mg 100% Calcium (sc Calcium Chrisio) 500 mg 20 mg Magnosium Cale Magnosium Coxio) 1 mg 67% Zinc (az Zinc Coxio) 10 mg 50 mg Scolum S mg Lees then 1% Green Tea La Expiration Date

USP requires participants to provide expiration date information and tests the

#### Cautions & Warnings

Where applicable, this information helps you understand who should avoid or take precautions when taking certain products. USP requires cautionary statements who cautionary statements wher appropriate as part of participation in our program

\* For additional information about FDA labeling requirements, see http://www.fda.gov/Food/GuidanceRegulation/GuidanceDocumentsRegulatoryInformation/ DietarySupplements/ucm070597.htm#4-59

Learn more at: www.quality-supplements.org

From the Experts...

"Dietary supplements are not intended to treat, diagnose, mitigate, prevent, or cure disease."

Office of Dietary Supplements

#### **Supplements defined**

- A product that is intended to supplement the diet
- contains one or more dietary ingredients,
- is intended to be taken by mouth as a pill, capsule, tablet, or liquid,
- and is labeled on the front panel as being a dietary supplement

Dietary Supplement Health and Education Act,

# **Mineral**

Herbs/ Botanicals Contains One or More Dietary Ingredients...

**Vitamin** 

**Amino Acid** 

### SAFETY CONCERNS

Ephedra: A Case Study

- Plant ingredient popular in 1990's Weight loss, athletic performance
- Stimulate nervous system, suppress appetite
- Banned in 2004 by the FDA due to safety

20,000+ emergency room visits yearly related to supplements



## BE SURE YOU SEE A LABEL

Third Party Certification







Vitamins and minerals... More Better

# Reference Recommended Intakes

# RDA

Recommended daily intake for a healthy person

% on food & supplement label to aid in comparing products

## UL

Recommended daily intake for a healthy person

# Nutrient and Drug Interactions

Certain nutrients interfere with absorption or effectiveness of certain drugs.

# Some examples:

- Vitamin K reduces effectiveness of warfarin/coumadin

- Tetracycline has poor absorption with iron, calcium, zinc, or magnesium

- Levodopa is less effective when taken with amino acids from

diet/supplements

- Many medications including those for high blood pressure, high cholesterol, "fluid pills", and sertraline, a common anti-depressant are actually MORE biologically available when also consuming grapefruit, grapefruit juice, tangelos, and seville oranges. This may be a problem because the dose may end up being too high!

#### CONCLUSION:

- 1) What are vitamins and minerals and where do we find them?

  (Food First+ Supplements)
- 2) Should we be taking supplements? (Deficient or at risk for deficiency? In need of extra due to disease? Get tested and talk to a doctor or dietitian!)
  - 3) How do we know if the supplements are safe and effective?
- (Check for third party labeling, check Office of Dietary Supplements fact sheets, and check with doctor or dietitian!)



# Extra Links and Info

- Soy for hot flashes, etc.
- <u>Echinacea</u> for colds/immune system