



SUPPORTING YOUR

IMMUNE

SYSTEM

DIGITAL GUIDE

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Support Your Immune System

HOW YOUR IMMUNE SYSTEM WORKS

- We have **innate immunity** what we are born with...
- Adaptive immunity what we develop- this is our opportunity

KEY PLAYERS

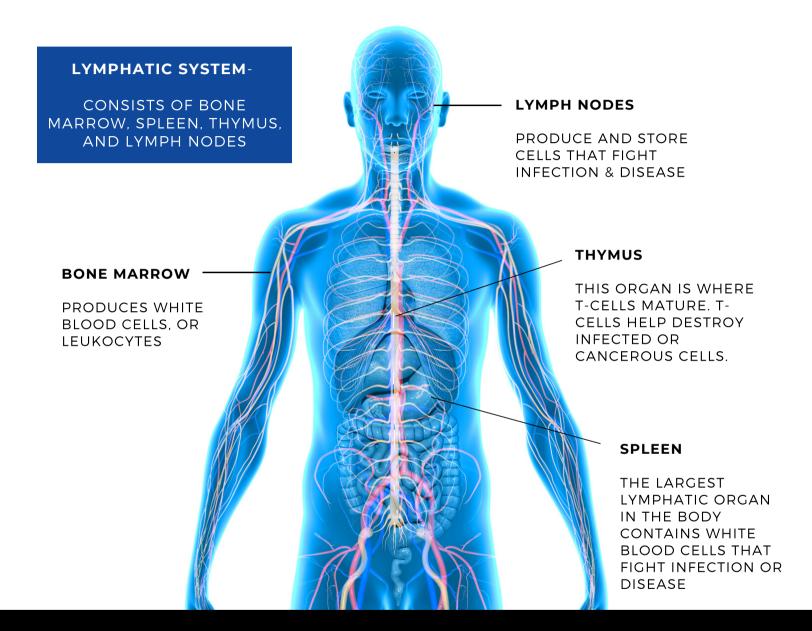
- Your Gut is the largest immune organ
- The Gut Immune System is the most important element of maintaining immunology

ADDITIONAL PLAYERS

- White blood cells
- T cells
- B cells
- NK cells
- Neutrophils
- Monocytes
- Macrophages
- Antibodies

- Complement factors
- Lymphatics
- Spleen
- Bone Marrow
- Thymus
- Adenoids
- Skin Liver

IMMUNE SYSTEM DIAGRAM

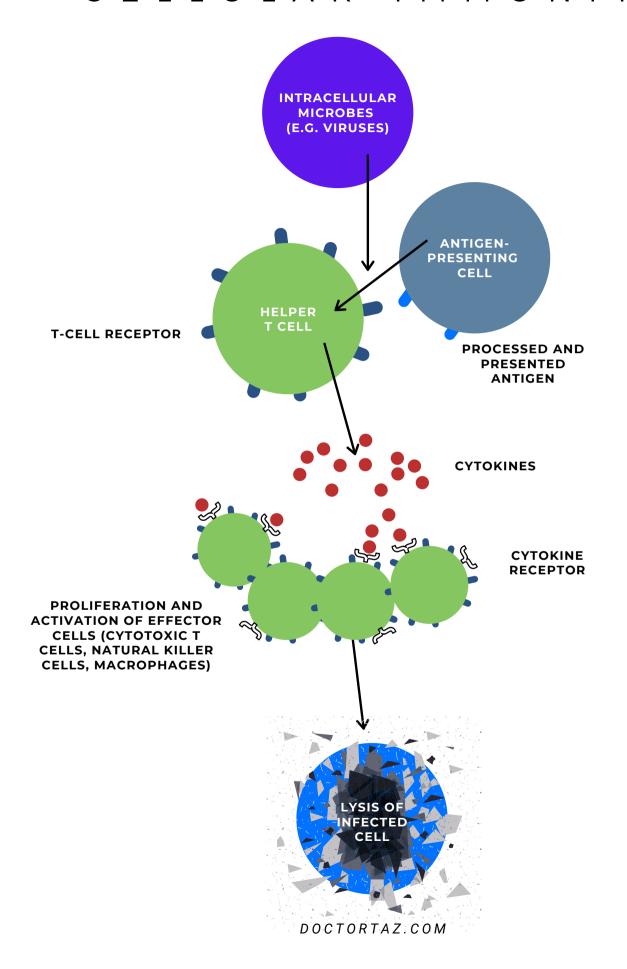


LYMPHOCYTES AND LEUKOCYTES

THESE SMALL WHITE BLOOD CELLS PLAY A LARGE ROLE IN DEFENDING THE BODY AGAINST DISEASE. THE TWO TYPES OF LYMPHOCYTES ARE B-CELLS, WHICH MAKE ANTIBODIES THAT ATTACK BACTERIA AND TOXINS, AND T'CELLS, WHICH HELP DESTROY INFECTED OR CANCEROUS CELLS.

LEUKOCYTES ARE WHITE BLOOD CELLS THAT IDENTIFY AND ELIMINATE PATHOGENS.

CELLULAR IMMUNITY



A D A P T I V E I M M U N I T Y

T CELL MEDIATED RESPONSE-

T CELLS LIVE IN THE BONE MARROW AND COME FROM THE THYMUS ***THEY AMOUNT INITIAL VIRAL RESPONSE OR ATTACK**

B CELL MEDIATED RESPONSE
HUMORAL IMMUNITY SECRETE
ANTIBODIES TO FIGHT OFF
INFECTION ***THIS IS HOW
VACCINES WORK**

WE NEED TO FOCUS ON T CELLS SINCE COVID

19 OR FUTURE BUGS ARE ONES WE DONT

RECOGNIZE AND NEED THIS ARM OF OUR

IMMUNE SYSTEM TO WORK

3 PHASES OF IMMUNE RESPONSE

Recognition

Recognize it's foreign- immune response starts

Attack

Activate macrophages, NK cells first, then release of cytokines

Memory

We did this before- lets do it again!



THE CYTOKINES TO KNOW

CYTOKINES ARE A LARGE GROUP OF PROTEINS, PEPTIDES OR GLYCOPROTEINS THAT ARE SECRETED BY SPECIFIC CELLS OF IMMUNE SYSTEM.

INFLAMMATORY CYTOKINES

PROTECTIVE CYTOKINES

TNF ALPHA IL2
IL6 IL12
GCSF IL17
GMCSF IL23
IL1 IL10

THE ULTIMATE GOAL

Improve T cell mediated immunity, increase protective cytokines, and stop the cytokine storm

YOUR CHEAT SHEET



GUT HEALTH

- Intake of probiotics
- Improve II2, il10



FOOD

- Plant based foods- 6-8 servings per day
- High flavonoids foods: green tea, chocolate
- High Vitamin C foods
- High antioxidant foods
- High Vitamin A foods (retinoids)



MICRONUTRIENT SUPPLEMENTATION

- Vitamin D
- Vitamin C
- Zinc



HERBAL SUPPLEMENTS

- Astragalus <u>The Defender</u> is a potent source of Astragulus and other immune-boosting ingredients
- Andrographis paniculata
- Pelagonium sidoisides
- Allium satvum
- Panax ginseng

10 STEPS TO A SUPERCHARGED IMMUNE SYSTEM

1. Balance gut health

the largest immune organ of the body

- Take **Belly Fix** for daily gut support
- Add in probiotics- 50-100 billion cfu daily
- Add healthy fats
- Add gut builders- bone broth, non dairy kefir, kombucha

2. Eat an Immune Support Diet

- Anti inflammatory diet
- Increase plant based foods- leafy greens, carrots, sweet potato
- Add 1 green smoothie per day
- Drink 2-3 cups of green tea per day
- Garlic

3. Add in Immune Support Vitamins

- Vitamin D 2000 IU per day
- Vitamin C 2 grams per day
- Zinc 15 mg
- Additional- B Vitamins, Vitamin A 5000 IU per day

4. Add in Immune Supporting Herbs

- Astragalus 1 gram daily
- Allium Satvum 1 gram
- Elderberry 500 mg daily

5. Prevent Cytokine Storm

follow this after 48 hours of symptoms

Increase the following to 2x per day for 7 days only

- Vitamin D 2000 IU Vitamin C
- 2 grams Zinc 15 mg
- Astragalus- 1 gram
- Andrographis- 1 gram
- Pelagonium sidoisdies 250 mg
- Stop elderberry

10 STEPS TO A SUPERCHARGED IMMUNE SYSTEM

6. Sleep Consistently

- 8 hours per night for adults
- 10 hours for children and teens
- Take **Sleep Savior** to promote a healthy night's rest

7. Hydrate

- Warm water 3x daily to keep secretions and mucus low and support your lymphatics
- Speaking of lymphatics...

8. Don't forget your lymphatics

- Exercise
- Dry Brushing
- Herbal teas- echinacea, indigo root, goldenseal or parsley
- Yoga
- Massage
- Far infrared sauna

9. Lower Your Toxic Load

watch consumption and exposure to:

- Pesticides
- Phthalates
- Parabens
- Organophosphates
- Food Dyes
- Additives

Most common sources- food, body care, household supplies

10. Manage Your Stress/Emotions

• Move from fear to hope

STRESS & EMOTIONS SPECTRUM

JOY FREEDOM
PASSION LOVE
EMPOWERMENT APPRECIATION

ENTHUSIASM POSITIVE EXPECTAION BELIEF

TRUST HOPEFULLNESS OPTIMISM CONTENTMENT

BOREDOM FRUSTRATION IMPATIENCE

DISAPPOINTMENT WORRY
DISCOURAGEMENT BLAME
DOUBT SADNESS

ANGER REVENGE RAGE HATRED

JEALOUSY GUILT INSECURITY UNWORTHINESS

FEAR DESPAIR
GRIEF POWERLESSNESS
DEPRESSION

STAY SAFE, STAY STRONG

Do not let what you cannot do - interfere with what you can do..."

- John Wooden

Check out these videos below to discover some excellent tools for navigating COVID-19

Stop Coronavirus: Supporting Your Immune System

<u>Transforming Your Mindset with Celebrity Health</u>
<u>Coach Koya Webb</u>

Breathwork: How to Reduce Stress and Quiet Your
Mind with Ashley Neese

My Relaxing Bath Recipe