A Hypothetical Software Engineering Behavioral Analysis on COVID-19 to Find a Viable Cure

Status: In Progress!
Latest update: 10.18.2020

This hypothetical study on COVID-19 examines the behavior of COVID-19.

→ The behavior of COVID-19 is going to be analyzed in three stages:

→ 1. As COVID-19 moves in search of a viable host.

→ 2. After COVID-19 enters a host.

→ 3. Before COVID-19 causes an infection in the host.

→ I am trying to understand how COVID-19 is identifying hosts to enter based on its behavioral tendencies. A behavioral tendency is just a different way of saying pattern of behavior.

→ A different way of viewing this is: How is COVID-19 seeing the world to only infect particular people in the population?

COVID-19 can be interpreted as a piece of software.

→ This allows the possibility for it to be broken down into individual modules for further analysis.

→ Once the break down process begins, COVID-19's behavior before it infects a person, can be abstracted away from the behavior the human body creates during a COVID-19 infection.

→ This gives us two sets of behaviors to examine for a potential cure or treatment.

→ At a minimum, it helps bring a bigger perspective into what COVID-19 could be doing as it searches for a host.

→ Thus, I am reverse-engineering COVID-19's 1st Set of Behaviors to understand COVID-19's 2nd Set of Behaviors.

COVID-19's Hidden Sets of Behaviors

COVID-19's 1st Set of Behaviors

→COVID-19's first set of behaviors derive from COVID-19 before it causes an infection in a human.

→This is the behavior that can be analyzed to gain a sense of how COVID-19 behaves before a human host displays any symptoms of infection.

→ This is the set of behavior that I will analyze.

→ In my analysis, I will freely move back and forth between the COVID-19's 1st Set of Behaviors and its 2nd Set of Behaviors.

→ This type of analysis can easily be done without getting too technical about medical information or software engineering.

→ Essentially, all I am doing is looking at how COVID-19 moves between hosts and writing down what I think COVID-19 is doing.

COVID-19's 2nd Set of Behaviors

→COVID-19's second set of behaviors are the human body's response to COVID-19 infection.

→This is the behavior that can be treated by medical doctors.

→This is the behavior that can be treated with Hydroxychloroquine and other treatments.

→This is the set of behaviors that move from the invisible hypothetical and theoretical realms to the visible theoretical and scientific realms.

COVID-19 3rd Set of Behaviors (Optional)

An Optional 3rd Set of Behaviors

→ You could argue there is a third set of behaviors.

→ This would be how an individual responds to COVID-19 infection as the body itself responds to COVID-19 infection.

→ How could you argue this? Easy. Where do we exist along with COVID-19, if COVID-19 exist at the molecular level, but it is able to identify human host well enough to infect them?

→ Are our physical bodies the 'molecular level' for other life forms?

→ How can people say "expand your mind" when the mind does not have any physical borders to constrict its growth?

→ Take this line of thinking further if you wish, but this type of abstract and philosophical thinking could prove useful in understanding COVID-19's behavior.

How this Hypothetical Study was Created

→ This hypothetical study on COVID-19 was created using publicly available sources usually found on the Internet. Some minor college coursework could help, but I do not think it is required. I have made things as easy as possible to explain (at least I hope I did) to avoid any type of confusion.

COVID-19 Weaponization

COVID-19 Weaponization

→ I am currently in the process of exploring COVID-19's weaponization potential. For the moment, I do not see the current iteration of COVID-19 as an actual bioweapon itself. COVID-19 was politicized, and it was weaponized by China, so maybe this could be added to the definition of weapon.

→ There might be a cultural issue or perhaps a language barrier in what the Chinese whistleblowers consider a bioweapon, and what I consider a bioweapon. However, I do not have the last say in this regard, especially since China's behavior was very suspect at the beginning of the pandemic.

→ Further, modifying COVID-19 for any type of weaponization ability would require expensive laboratory equipment and people with specialized abilities or training. Any type of fears in COVID-19's ability as a bioweapon should be reevaluated as COVID-19 is not your usual everyday type of academic and scientific endeavor. COVID-19 does have very questionable timing, however, this does not mean I do not think it is real because it is real, but any fears resulting from COVID-19's politicization should be reevaluated.

→ I think the real issue with COVID-19 is why would a country allow it to spread in the first place, and why not ask for international assistance? Unless of course, the intention was to spread COVID-19 for one reason or another.

→ Reverse-engineering COVID-19's abilities for any potential weaponization aspects is still in progress.

→ It seems as if something caught the Chinese off guard in relation to the pandemic. I'm still trying to figure out what that could be using publicly available sources. If I am not able to determine something in relation to this feeling that I have, then perhaps the Chinese were expecting a mass casualty event and maybe they actually were scared or perhaps they felt delight that their geopolitical strategy actually worked when in fact it did not work as intended. This is too hard to determine right now.

Disclaimer

→ This is a hypothetical analysis on COVID-19's general behavioral tendencies that have been documented through various public sources.

→ I am trying to gain a sense of how COVID-19 'sees' the world, to then determine how it adjust its behavior, to then determine how it identifies people to infect.

→ This analysis is not medical advice. This analysis does mention certain health issues, but I try to stay as general as possible so that I only contribute the minimum information required to understand a concept.

→ I do try to provide a source on most of the information in this analysis.

→ To understand this analysis, it is ideal to change your perception of COVID-19 from something that has the ability to infect people, to something that has the ability to identify people with certain characteristics.

→ Thus, COVID-19 can identify someone having certain characteristics, and after identifying them, COVID-19 appears to enter their body. This can result in an infection, that is, the human body appears to respond negatively to COVID-19's presence inside of it.

→ To identify who to infect, COVID-19 appears to be relying on a combination of certain hormones or vitamin and mineral levels or fat levels or certain health problems that some people may have. This aspect of COVID-19 is learned through observing its behavior and reverse-engineering the effects that COVID-19 has on the body.

→ All of these elements change as people age. There could be other things that COVID-19 uses to identify people.

→ COVID-19 software 'given' as-is from China. There are no directions or special instructions on how to operate it or reverse-engineer it.

→ COVID-19 is being reverse-engineered using the behavior it has displayed according to various public sources.

Disclaimer Cont.

→ How is COVID-19 still able to identify people to infect?

→ For this ability, I think COVID-19 is relying on instincts that are encoded in its DNA based on many years of evolution.

→ These instincts are also found in other animals. The instincts differ slightly to meet the needs of a particular animal.

→ Further, COVID-19 does not appear to be aware nor does it appear to have the ability to learn.

→ COVID-19 has not learned that we can beat it, and it has not changed its behavior to overcome the knowledge that we have to use against it.

→ As such, COVID-19 appears to be relying on instincts to identify people to infect.

→ The instincts appear to derive from bats, and these instincts do not appear to change over time.

→ As such, COVID-19 appears to be relying on deeply ingrained patterns of behavior that will probably not change.

→ Why will these instincts probably not change?

→ For the instincts to change, COVID-19 would need a greater reward than the rewards it has experienced in the last few millions of years.

→ Since bat DNA, that is, bats, have not changed much from what we recognize as bats, it is safe to assume that there is currently no greater reward in nature that will make bats evolve to develop new behaviors.

Disclaimer Cont.

→ To understand this analysis, a little bit of information about evolutionary theory is helpful. Knowing some information about software engineering is also helpful. However, I have kept things in this analysis as easy as possible to understand so that there is little confusion, and so that nothing seems too out of the ordinary even though COVID-19 may appear out of the ordinary.

→ How did I know to reverse-engineer COVID-19 or that such a thing was possible?

→ I do not know. That part just happened.

→ I think that would be more of a personal quirk, but I do know that many things can be interpreted as systems to then break these systems down for thorough analysis.

→ I just happened to do it to COVID-19, and COVID-19 just happened to be a worldwide pandemic and it just happens to have questionable timing and questionable origins with questionable circumstances surrounding it.

→ COVID-19 is a complicated issue with more layers than just identifying people and infecting them.

→There are a few political layers to COVID-19 that appear to need a thorough examination as COVID-19's potential as a biological agent that can identify people with certain characteristics might have strained some political relations that were maybe already fragile.

Disclaimer Cont.

→ COVID-19 is a virus, but it can also be a certain type of tool.

→ Medications or vitamins, for example, are also certain types of tools. When medications or vitamins are used improperly, certain negative effects may be experienced.

→ COVID-19's ability as a tool with certain properties can have negative consequences for certain people. These people would be the ones that are most vulnerable to COVID-19 infection.

→ COVID-19 appears to be identifying people with certain characteristics in an attempt to try to cure or eliminate any threats to COVID-19's survival within the host body. The ailments or threats within the host body may also be harmful to human survival.

→ Viewed differently and from a hypothetical software engineering perspective, COVID-19 appears to be rudimentary biological identification and tracking software with unfinished curative properties.

→With more research and modifications, COVID-19 may be used for other things that are not related to curing or treating certain human ailments. These other things could be in the field of biological weapons development.

Disclaimer Cont.

→ This hypothetical study assumes that COVID-19, just like other organisms that have DNA, has been trying to survive with the goal of reproducing. This is how most species increase their population numbers.

→ In this study, I mention that COVID-19 is trying to survive inside a host. I mean it is also trying to reproduce inside the host. However, constantly stating the phrase 'survive and reproduce' gets a bit repetitive, so I minimized the phrase to COVID-19 is trying to survive while inside a human host.

→ The idea that COVID-19 is trying to survive and reproduce derives from evolutionary theory. In evolutionary theory, most if not all organisms only care about surviving long enough to reproduce. COVID-19 should not be an exception to this general rule as it is an organism.

→ The problem with COVID-19 trying to survive and reproduce is that it is trying to do this in human bodies while the human is alive.

→ However, COVID-19 appears to make the host body react negatively to it, instead of allowing COVID-19 to try to cure or treat the medical ailments in the host body.

→ Since COVID-19 appears to contain rudimentary host identification properties, it appears that COVID-19 could belong to a larger system of research. That research could be related to biological weapon development, but the research could also be transitioned to be used for its potential curative properties as well.

→ This analysis is ongoing. It should be considered in progress.

→ I reserve the right to update this analysis at my leisure, but when I consider this analysis somewhat complete, I will indicate that somewhere in the analysis.

→ Why am I doing this analysis? For now, it is just something to pad the résumé with that is related to the fields of Software Engineering or Computer Science.

Software Engineering and COVID-19 – A Quick Note

→ This hypothetical study will use some concepts from software engineering to then explain some if not all of COVID-19's behaviors. The main concept that will be used to help illustrate COVID-19's behavior, is the concept of modules or modular programming. Further, I will try to keep this hypothetical study general, but detailed enough to understand the process of breaking down COVID-19 into modules to try to exactly explain what COVID-19 is doing before it causes an infection in the human body.

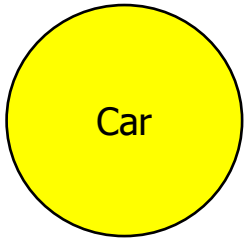
→ Modular programming is a software design technique that emphasizes separating the functionality of a program into independent, interchangeable modules, such that each module contains everything necessary to execute only one aspect of the desired functionality. This means that a large piece of software can be designed one piece at a time, and each piece can work independently from the rest of the pieces, as the program is made. Each piece, that is, module, will function independently from the functions of the other modules.

Source: *Modular programming* https://en.wikipedia.org/wiki/Modular_programming

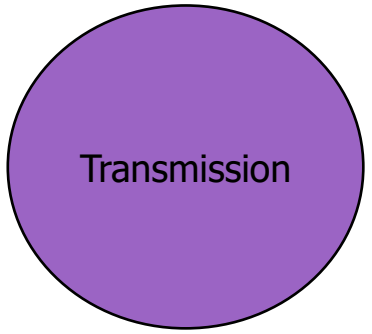
→ Modules may also have submodules within them to further break down a component for easier understanding.

→ A car is a prime example of modular programming because a car's transmission may function at 100% capacity by itself, for example, during the testing stages, while at the same time, a different part of the car, such as the brake system, may not be 100% functional during the testing stages.

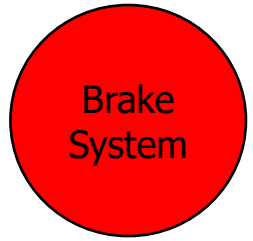
→ Below are example of car modules:



Car Module: will contain all modules related to making a car



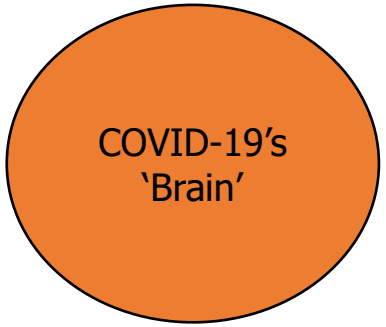
Transmission Module: will contain all functionality and submodules related to being a car transmission



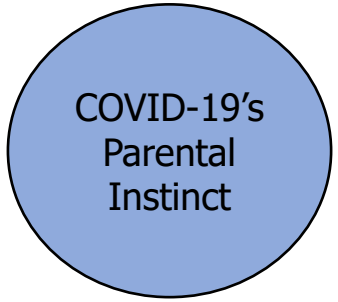
Brake Module: will contain all functionality and submodules related to being a car brake system

Software Engineering and COVID-19 – Modules Identified

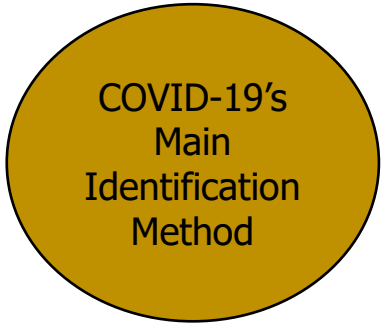
→ In my hypothetical study wherein I reverse-engineer COVID-19 through behavior analysis using a modular approach, the following modules have been established:



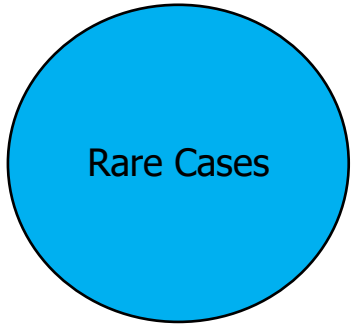
COVID-19 Brain Module:
This module represents COVID-19's main decision making process.



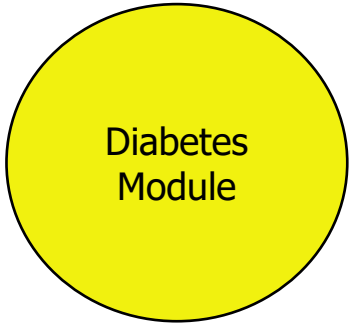
COVID-19 Parental Instinct Module: A module to represent COVID-19 infection of the rare cases



COVID-19 Main Identification Module: A module to represent COVID-19's main method of host identification



Rare Cases Module:
A module to represent COVID-19's functionality and submodules that deal with rare cases of COVID-19 infection.

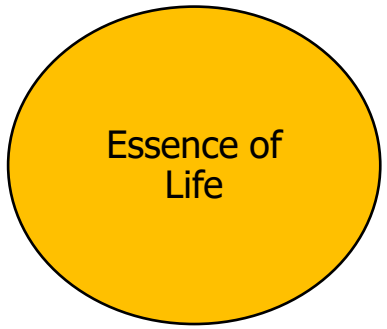


Diabetes Module:
This module represents COVID-19's functionality and submodules that deal with diabetes.

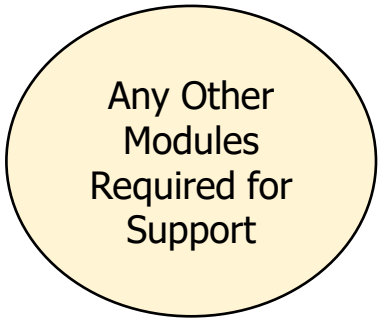
Obesity Module:
This module represents COVID-19's functionality and submodules that deal with obesity or high fat environments.

Software Engineering and COVID-19 – Modules Identified

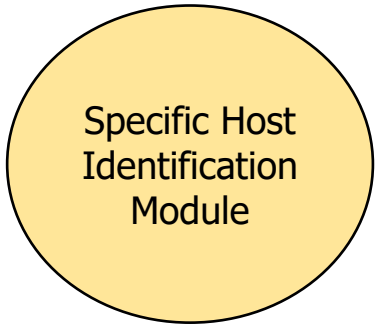
→ In my hypothetical study wherein I reverse-engineer COVID-19 through behavior analysis using a modular approach, the following modules have been established:



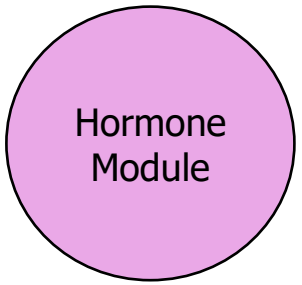
Essence of Life for Non-aware Entities Module: Non-aware entities are things that are living, but not human. Non-aware entities can also be humans up to a certain point in the life of the human.



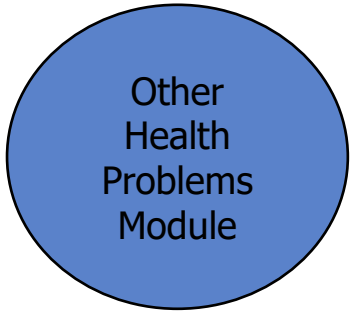
Miscellaneous Support Modules: COVID-19 may require additional modules and functionality as the software near completion. Recall, even though COVID-19 is being treated as software in my hypothetical model, COVID-19 can easily be repurposed for use in other fields.



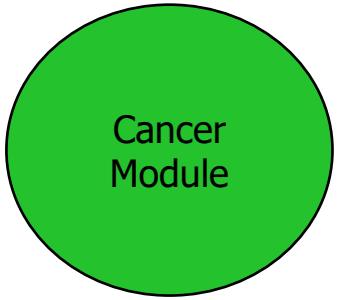
Hypothetical Biological Specific Host Identification Module: COVID-19's current iteration lacks this module. If COVID-19 had this module, the chances of COVID-19 entering a random host could be reduced.



Hormone Module: A module to represent all the functionality and submodules related to COVID-19's ability to detect hormone levels in human hosts.



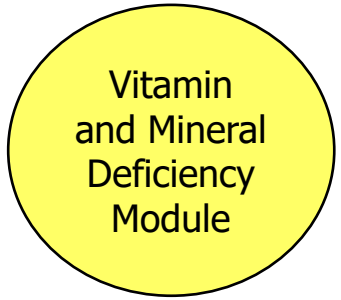
Other Health Problems Module: A module to represent the submodules and functionality of COVID-19's abilities to detect other human ailments that may cause it to infect a host.



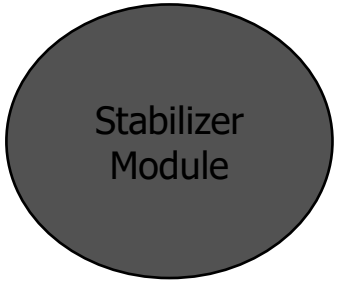
Cancer Module: A module to represent the submodules and functionality of COVID-19's abilities to detect cancer in human hosts.

Software Engineering and COVID-19 – Modules Identified

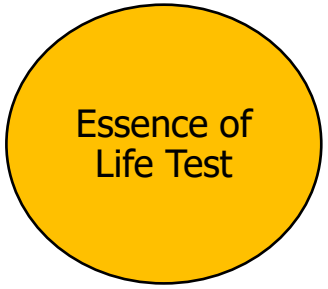
→ In my hypothetical study wherein I reverse-engineer COVID-19 through behavior analysis using a modular approach, the following modules have been established:



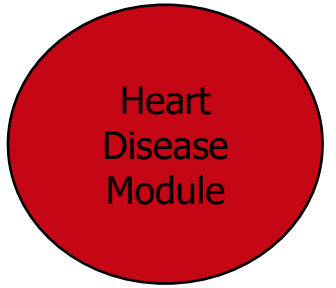
Vitamin and Mineral Deficiency Module: A module to represent all the functionality and submodules related to COVID-19's ability to detect vitamin and mineral levels in human hosts.



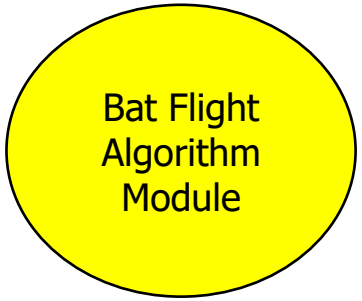
Stabilizer Module: A module to represent all the functionality and submodules related to stabilizing COVID-19's so that it actually has some benefit.



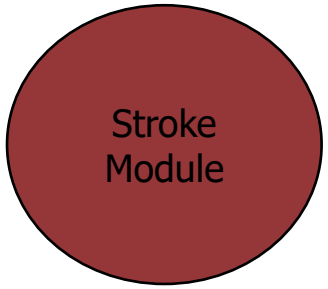
Essence of Life Test Module: A module that represents four basic questions that COVID-19 appears to be basing its decisions-making process on. These four basic questions could be the essence of life for all non-aware entities. Non-aware entities are non-human entities such as animals.



Heart Disease Module: A module to represent all the functionality and submodules related to COVID-19's ability to detect heart disease or heart problems in human hosts.

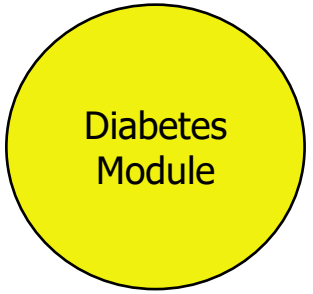


Bat Flight Algorithm Module: A module to represent all the functionality and submodules related to COVID-19's ability to engage in the bat flight algorithm within human hosts.



Stroke Module: A module to represent all the functionality and submodules related to COVID-19's ability to detect human hosts with stroke related health issues.

Preliminary Opinion



→ Based on the behavior I have managed to reverse-engineer using publicly available sources, I think the Chinese are trying to find a cure (or treatment) for diabetes or other diseases, using a mechanism such as COVID-19. This would definitely be worthy of keeping secret at all costs.

→As a result of this, and through my reverse-engineering approach, I have established a Diabetes Module for COVID-19 to serve as an unfinished cure or treatment that COVID-19 currently possessess. The yellow circle above will represent the Diabetes Module, and the module itself will be an abstract representation of the human ailment known as diabetes.

→ If this cure or treatment is also related to extending human life for just even a few more years, then it is safe to assume that they would take every possible measure to keep it a secret. It would also be cutting-edge, if they were able to perfect it.

→ Bats appear to be very deeply linked to a high blood sugar environment to the point where it looks like bats require a high blood sugar environment to survive. This is counterintuitive to how humans respond to high blood sugar levels because humans tend to develop health problems such as diabetes when blood sugar levels get too high for extended periods of time.

→Humans also tend to gain weight with a diet resulting in high blood sugar levels because these foods tend to be classified as unhealthy.

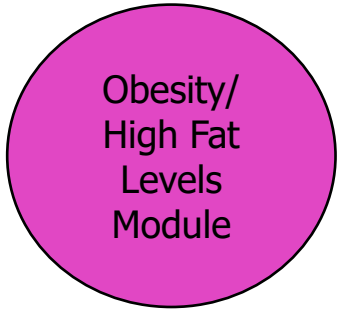
→ Bats appear to have an evolutionary mechanism that protects them from developing diabetes even though they have high blood sugar levels. This special mechanism that bats have may also help them live longer than other mammals when you factor in their size.

→ I am still in the process of deconstructing and reverse-engineering COVID-19 using whatever available public sources I can find, but I do have a vague idea of what the special mechanism could be that may help bats live longer as well as avoid certain diseases.

→That special mechanism appears to be the mammalian ability to fly.

→ As such, a bit more work is required to be done on my end.

Preliminary Opinion Cont.



→ Bats may also be deeply linked to detecting high fat levels in the body. Bats are low in fat and they must remain virtually fatless or they risk losing the ability to fly because of excess weight.

→ COVID-19 may be able to detect high fat levels in the people it infects. Upon detecting the high fat levels, COVID-19 tries to engage in a weight loss algorithm or a weight loss mechanism that is initiated by a Bat Flight algorithm. This is done to make the host lose weight.

→ Unfortunately, it is causing this inside obese or morbidly obese people and their human bodies cannot handle it.

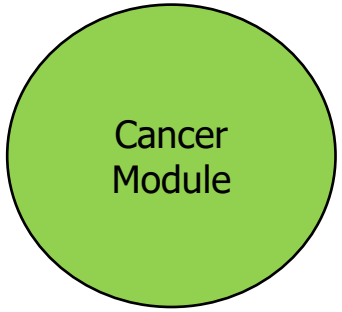
→ Essentially, on a hypothetical level, COVID-19 enters an obese or morbidly obese host, and then 'thinks' to itself, "I have too much fat. My ability to fly is at risk. I must lose the weight quickly or I risk dying out because I cannot fly to search for food. Food is essential to my survival as a species."

→ As COVID-19 thinks this while inside a host, its belief will not change because it is acting on learned evolutionary behavior that has brought it great success in the past, for many years. This behavior is so sharpened to respond to stimuli, that it is a survival instinct.

→ The human body responds negatively to COVID-19's behavior, and people that are obese or morbidly obese get ill. Often times, the results are fatal. However, if there were a way to control this aspect of COVID-19's behavior, it could also serve as a treatment for obesity or morbid obesity just like a stabilized version of COVID-19 can serve as a treatment for diabetes.

→ For the moment, it appears that COVID-19 is part of a larger system of research. That large body of research could have been part of biological weapons development program in a controlled laboratory setting.

Preliminary Opinion Cont.



→ The same general logic and reverse-engineering methodology can be applied to COVID-19 to create a module that applies to cancer survivors or people with cancer. Evidently, these people are also susceptible to COVID-19.

→ COVID-19 can then be viewed as having potential cancer detection abilities because if cancer survivors are at risk of dying from COVID-19, but not at risk of dying from cancer, then COVID-19 may be able to detect cancer at the molecular level to then flush it out using various evolutionary algorithms that prevent bats from getting cancer or allow bats to only get cancer at low rates with typical non-fatal results.

→ COVID-19 then may become a viable cancer detection and cancer fighting technology if it is stabilized.

COVID-19 Hypothetical Study - Preliminary Findings – The Rare Cases

→ COVID-19 has shown that it has a preference for a certain type of host.

→ A key assumption about COVID-19 is that it has been trying to survive since it made contact with humans.

→ Thus, COVID-19 is searching for a viable host for its own survival.

→ There are some rare cases of COVID-19 death and infection that do not appear to fit the traditional mold of people that become victims of COVID-19.

→ COVID-19 has shown a preference for the elderly, and people with certain medical conditions. Every now and then, a young person or a person that does not fit the traditional COVID-19 infection model, becomes infected by COVID-19.

→ For these rare cases, based on the research I have done, and since COVID-19 contains bat DNA, it appears that COVID-19 might sense that its flight ability is at imminent risk.

→ Bats require the ability to fly. This ability is essential to their survival. A bat's flight ability is an instinct programmed by nature into bats.

→ COVID-19 has this same bat flight instincts programmed into its bat DNA.

→ If anything were to place this instinct in imminent threat of being lost, COVID-19 will more than likely engage in whatever measures it has to prevent the instinct from being lost. As a result, some people may experience a very strong form of COVID-19 infection.

COVID-19 Hypothetical Study - Preliminary Findings – The Rare Cases

→ COVID-19 appears to enter hosts that it deems as familiar, that is, the host's body resembles a previous environment that COVID-19 has encoded in its DNA.

→ Since COVID-19 is programmed by nature, and since COVID-19 contains bat DNA, COVID-19 will seek out a familiar environment using its survival instincts.

→ Alternatively, COVID-19 enters a host and if COVID-19 detects anything that can make it think its flight ability is in imminent danger, then COVID-19 will infect the host as severely as possible even if the host environment is different.

→ I think it does this to try to save its flight ability from an imminent threat. A different host environment would be the body of a young person even if COVID-19 bat DNA was derived from very old male bats. This could explain why some young people with certain conditions fall ill to COVID-19.

→ COVID-19 may enter a human host that contains certain medical conditions because COVID-19, with its unique curative properties related to bats, might want to try to cure the human host.

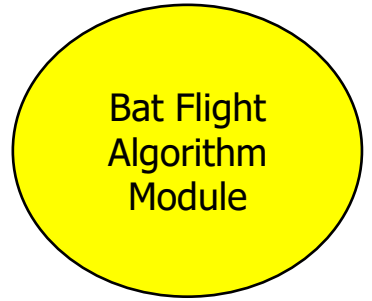
→ The human host reacts negatively to this hypothetical treatment to remove ailments, so a person gets infected. The infection may range in severity.

COVID-19 Political Issues – Trying to Figure Out Why the Chinese did What they Did

- → I will try to figure out why China did what it did in regards to the pandemic.
- → Key phrase to help me remember*: It's amateur hour!*
- → For this part of the analysis, I am going to start with the obvious facts or obvious assumptions, and then try to work backwards to see what can be learned from the thought process of the Chinese in relation to their handling of COVID-19.
- → The Chinese had to have known that the way they handled COVID-19 would be scrutinized.
- → The Chinese had to have known that we would notice that they canceled flights within China, but allowed flights out of China. This act appears to be the sole cause of the pandemic.

- → **More to come on this part. This aspect of COVID-19 is another layer for analysis.**

COVID-19 Hypothetical Study - Preliminary Findings Bat Flight Algorithm Module Identified



In my hypothetical study wherein I reverse-engineer COVID-19 through behavior analysis using a modular approach,

I have found the following:

→ The Bat Flight Algorithm – I think COVID-19 is engaging its bat flight abilities on a molecular level, and the effects of this algorithm are what the doctors and nurses are trying to treat.

→ COVID-19 appears to be doing something to the human body on a molecular level, and everything that it has been doing appears to be some sort of process that is affecting the lungs, and making human hosts extremely tired.

→ Mammalian Human Flight- I will assume there is no publicly available science on naturally occurring human flight abilities, but I will assume that the possibility for humans to be able to naturally fly has been entertained in a scientific setting, perhaps even studied in-depth for the sake of scientific inquiry.

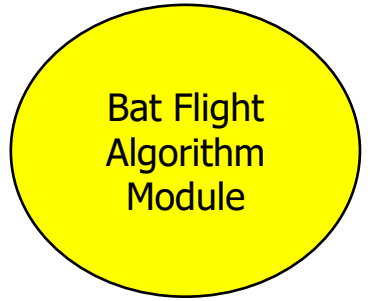
→ For the moment, since there is no public record of comparing naturally occurring human flight abilities to non-human mammalian flight abilities, I will liken a bat's ability to fly to a human's ability to sprint.

→ 3/27/2020 Article - New York city doctor says about COVID-19, "I have never seen anything like this." https://www.medicalnewstoday.com/articles/i-have-never-seen-anything-like-it-says-new-york-city-doctor-about-covid-19

→ 7/27/2020 Video – Trauma nurse says about COVID-19, "Patients are sick in a different way." https://abc13.com/health/30-year-old-dies-after-covid-party-doctor-says/6312899/ This video also shows some young obese kids, but I will focus on them in a later slide under the Rare Cases Module.

→ I think what the doctors and nurses are seeing, and why they appear "to say that the patients are sick in a different way" or "they have never seen anything like COVID-19 before", is because the doctors and nurses are seeing the effects of bat flight on non-animal mammal bodies.

COVID-19 Hypothetical Study - Preliminary Findings Bat Flight Algorithm Module Identified



→ The patients appear to be displaying signs of extreme physical activity that is happening at the molecular level as COVID-19 engages its bat flight abilities while inside human hosts. This could explain why many doctors and nurses are puzzled by some of the illness signs COVID-19 patients display.

→ As COVID-19 enters a human host, it appears that COVID-19 can stimulate various parts of the human body, so that COVID-19 can engage in bat flight at the molecular level. In causing this stimulation, the human host experiences very negative side-effects at the physical level of human existence.

→ **I left off here. In progress. This is a very long study on COVID-19.**

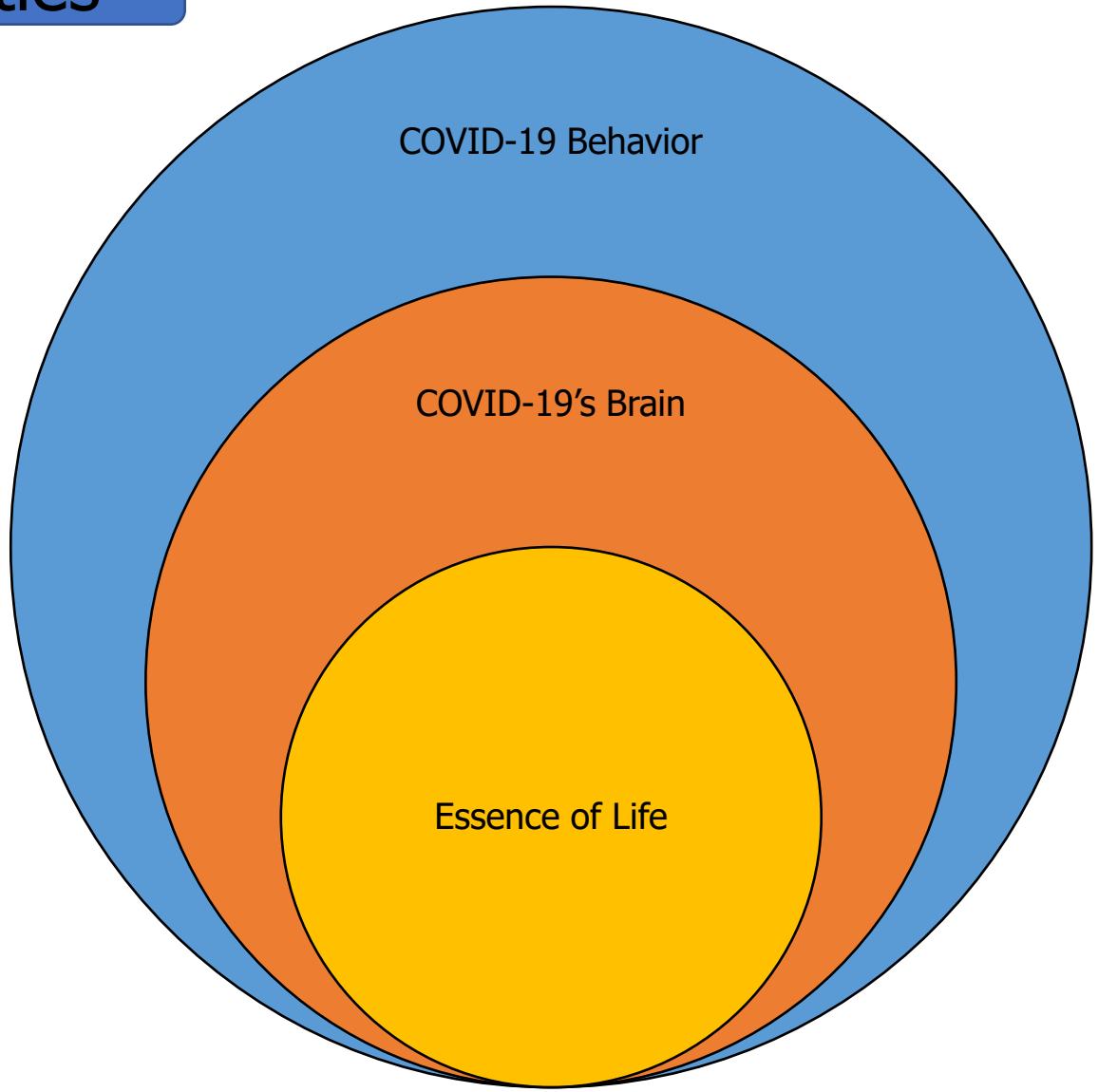
COVID-19's 'Brain's' Discovered – The Essence of Life for Non-Aware Entities

→ I think COVID-19's main behavioral pattern at the molecular level has been identified.
→ That is, I think this is its main thought process as it moves around from one location to another in search of a viable host.
→ You can view this set of behaviors as COVID-19's Brain.
→ Using the module approach, we can see that COVID-19's brain can be viewed as a system.
→ Within COVID-19's brain, four modules in the form of questions have been identified.
→ The four questions can be called **Essence of Life Tests (Questions)**

→ ***The brain of COVID-19 appears to revolve around four questions:**

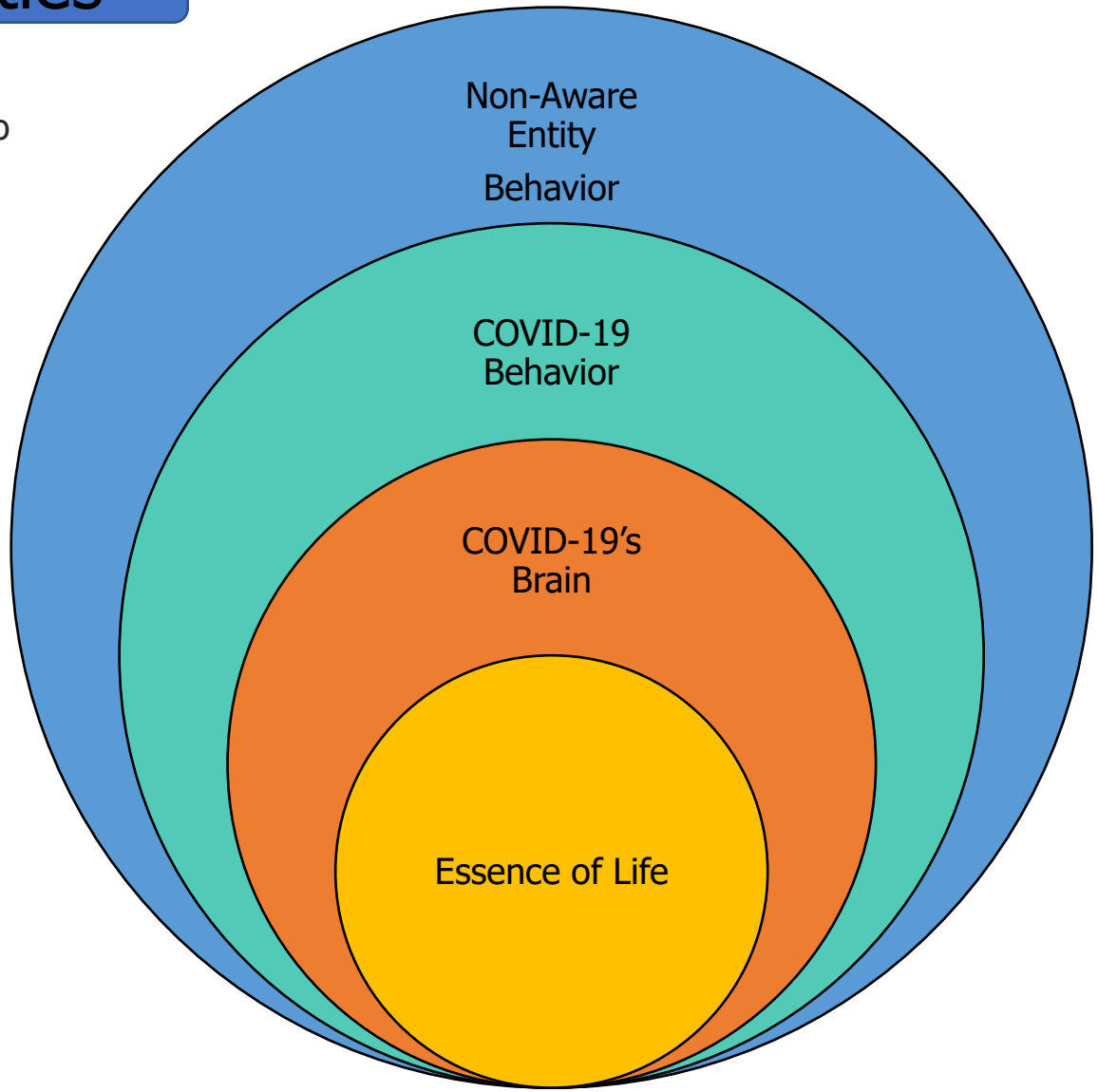
1. Do I detect a large amount of something?
2. Do I need this large amount of something for survival?
3. Do I detect a small amount of something?
4. Do I need this small amount of something for survival?

**I might modify the four questions to a lesser amount of questions.*



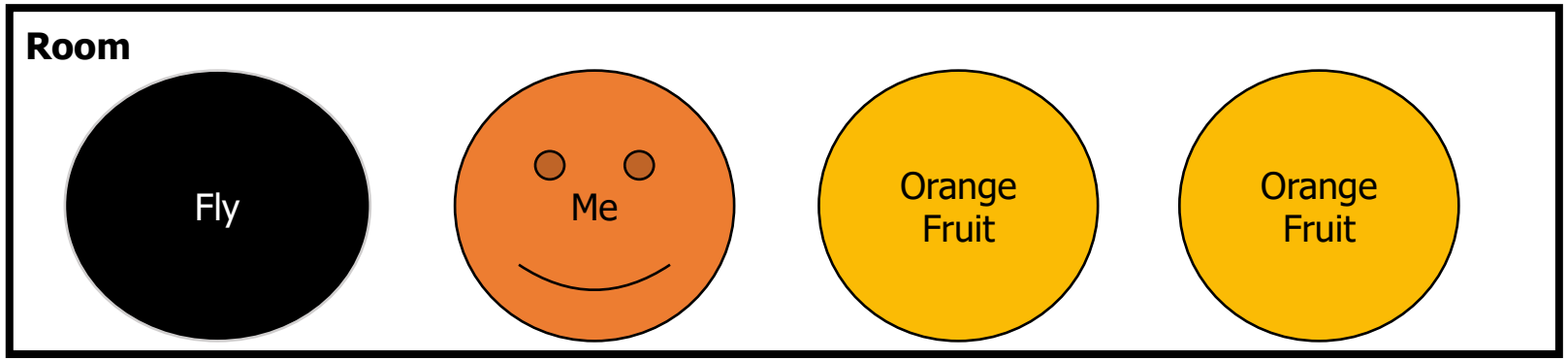
COVID-19's 'Brain's' Discovered – The Essence of Life for Non-Aware Entities

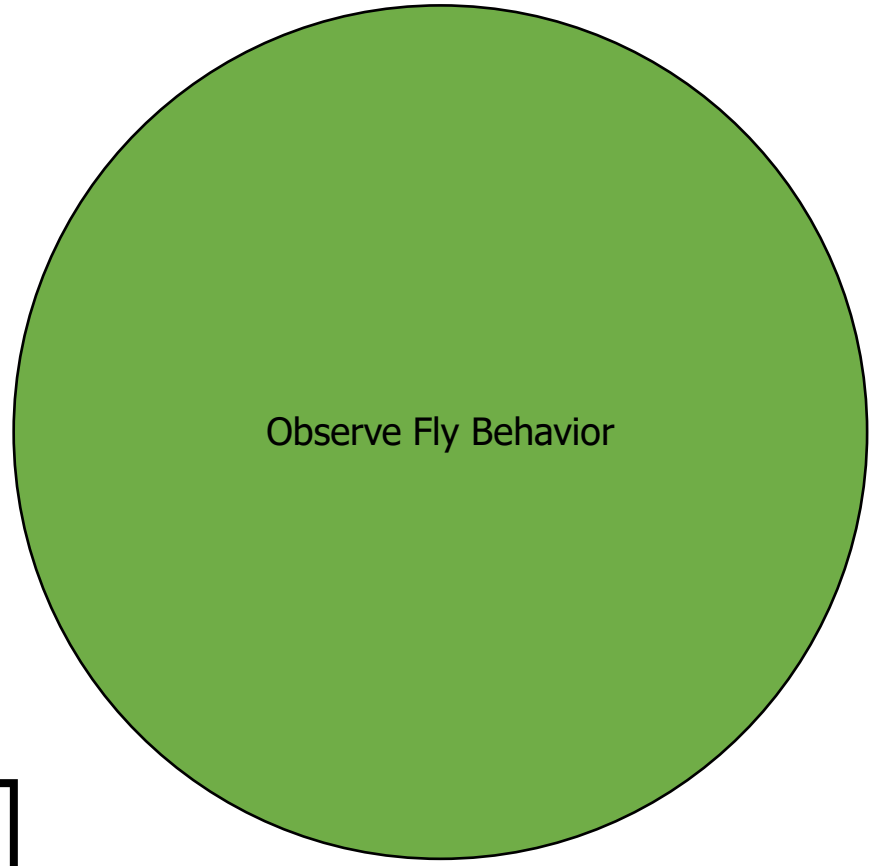
- → Depending on the answers to the four questions is how COVID-19 appears to regulate its behavior to determine who to designate as a viable host.
- → I think the four questions above could be the essence of life for all non-aware beings such as animals, but the four questions could also be the essence of life for humans up to a certain point in the life of a human.
- → For the moment, I will consider the four questions above to be COVID-19's 'brain' because COVID-19 comes from bat DNA and bats are non-aware animals.
- → By saying animals, and bats are non-aware, I mean that they do not posses the same cognitive abilities that humans use to survive.
- → I believe this point should be fairly easy to understand.
- → We do eat like animals eat because we require energy from food, but humans have mental capacities that allow us to live in a civilized manner, most of the time.
- → Animals, for the most part, live in a civilized manner as long as their territory is not encroached.
- → As such, I do not consider COVID-19 to be aware like humans are aware nor do I think COVID-19 has this ability in its DNA.



COVID-19's 'Brain's' Discovered by Observing Fly Behavior

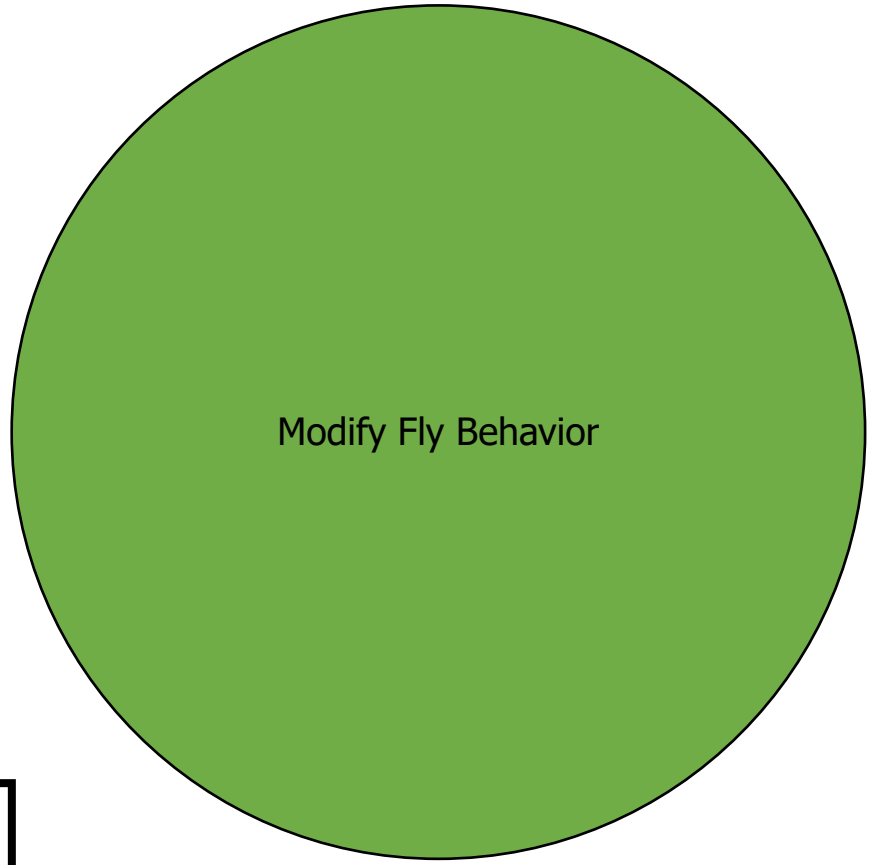
- → I found COVID-19's brain through an uncontrolled behavior modification experiment on flies.
- → The experiment is uncontrolled because I did not perform it in a laboratory setting nor did I plan on learning anything about fly behavior.
- → This experiment was a very random occurrence.
- → I performed the experiment in a regular sized room. The room has four walls, a door, and a ceiling.
- → There is nothing fancy or out of the ordinary about the room, so I do not think the environment within the room would affect the behavior of the flies.
- → This was not my first time noticing this pattern of behavior in flies, but the first time I noticed it, I did not pay much attention to it.
- → I think the first time I did this experiment, I did it without thinking it could lead to anything significant. It was more of a mental reflex.
- → The uncontrolled experiment involves flies, and two oranges.
- → The oranges were cut, and the orange juice was squeezed out of them for consumption purposes.

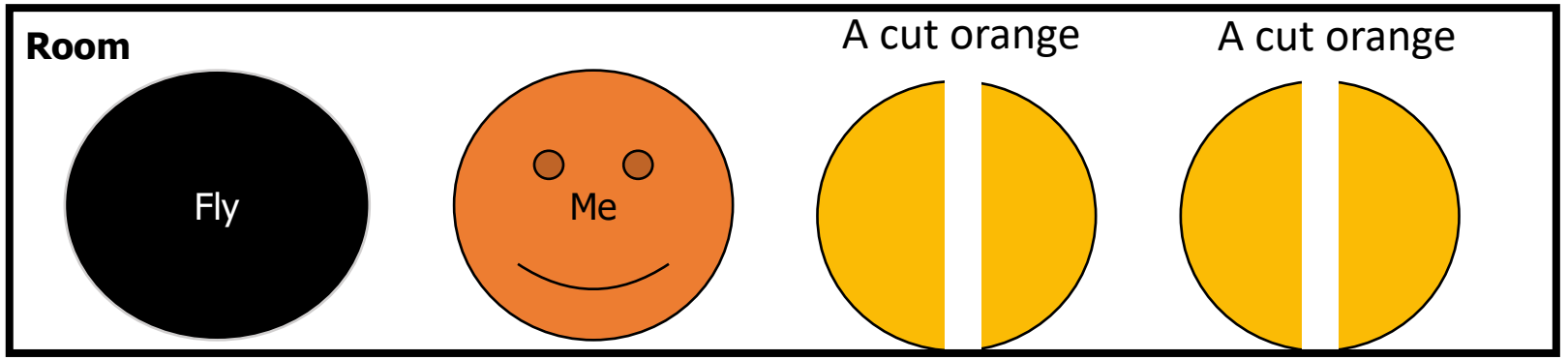




COVID-19's 'Brain's' Discovered by Observing Fly Behavior

- → The oranges were cut in halves, and the orange juice was going to be squeezed out of them into a glass for consumption purposes.
- → The fly was bothering me by flying near me and occasionally landing on my arm.
- → I swatted the fly away, but it kept on bothering me.
- → I was holding the cut oranges in one hand while swatting with the other.
- → I assume the fly wanted to land on the oranges to feed itself.
- → I wanted the fly to leave me alone, and I did not want the fly to land on my orange halves that were freshly cut.
- → To get the fly to leave me alone, I decided to try to modify its behavior.
- → I tried to modify the behavior of the fly immediately more because of a reflex action on my part, and not because I assumed that I could modify the behavior of the fly using scientific principles.
- → My line of thinking for the fly experiment was close to this: This fly is bothering me, let me do this to see if it will leave me alone.



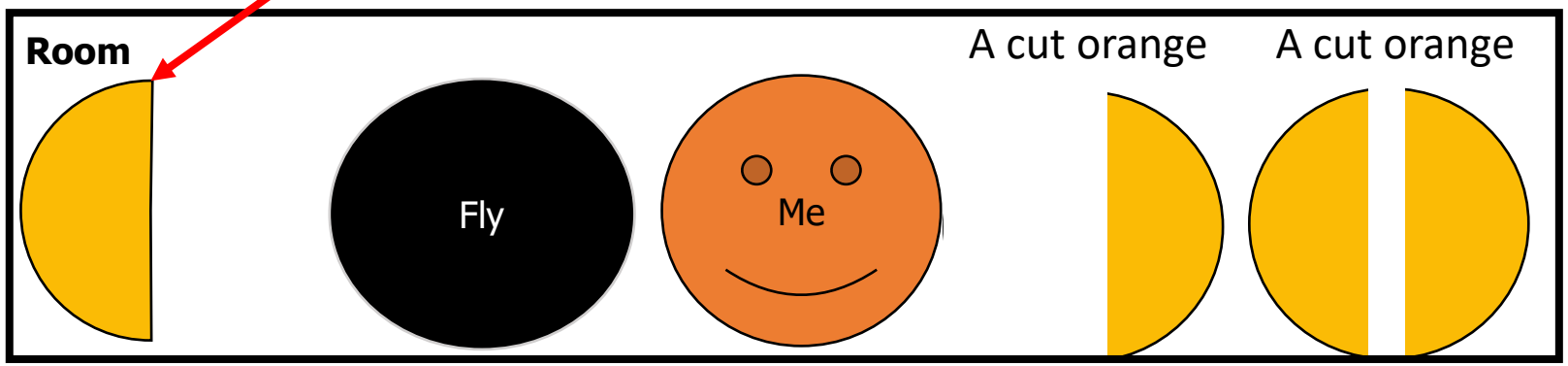


COVID-19's 'Brain's' Discovered by Observing Fly Behavior

→ To modify the fly's behavior so that it would leave me and my oranges alone, I set aside a an orange half that had already been squeezed.
→ My intention was that this single orange half would draw the fly's attention away from me, and the remaining oranges.
→ Unfortunately, the single orange half was not powerful enough to draw the fly's attention away from me.
→ Consequently, the fly kept on bothering me.
→ I decided to change my strategy.

Modifying Fly Behavior: The Trick

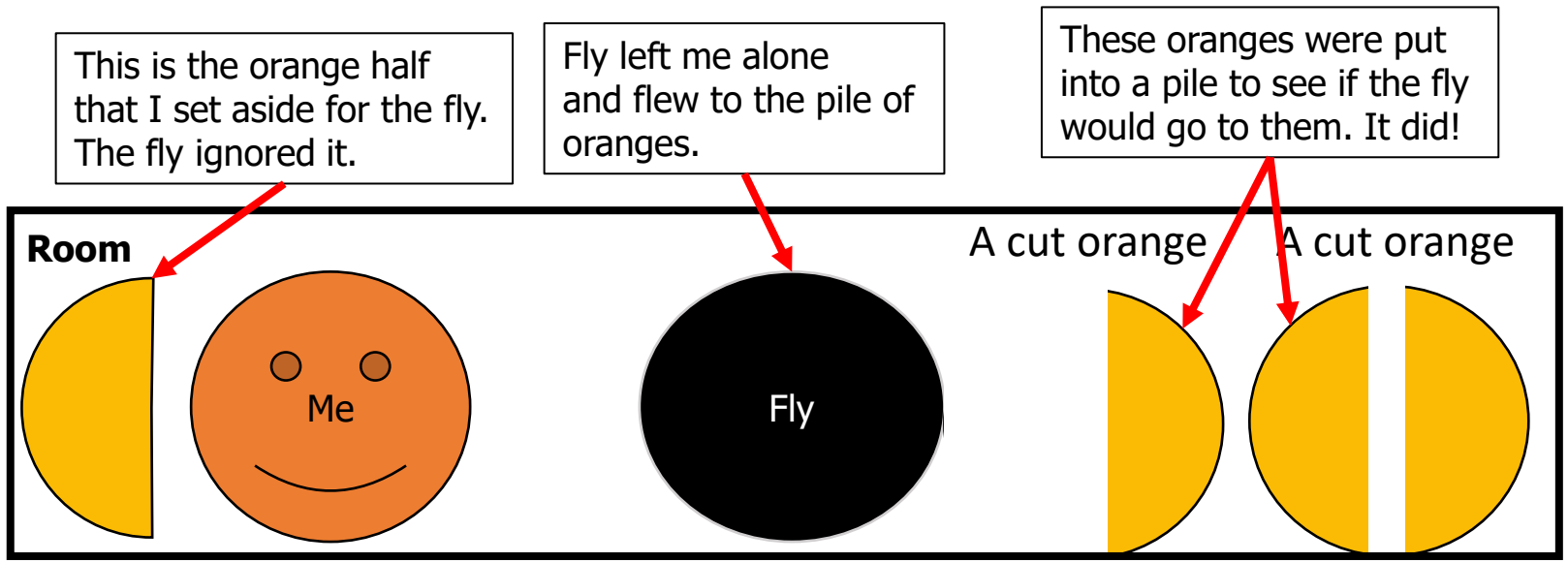
This is the orange half that I set aside for the fly. The fly ignored it.



COVID-19's 'Brain's' Discovered by Observing Fly Behavior

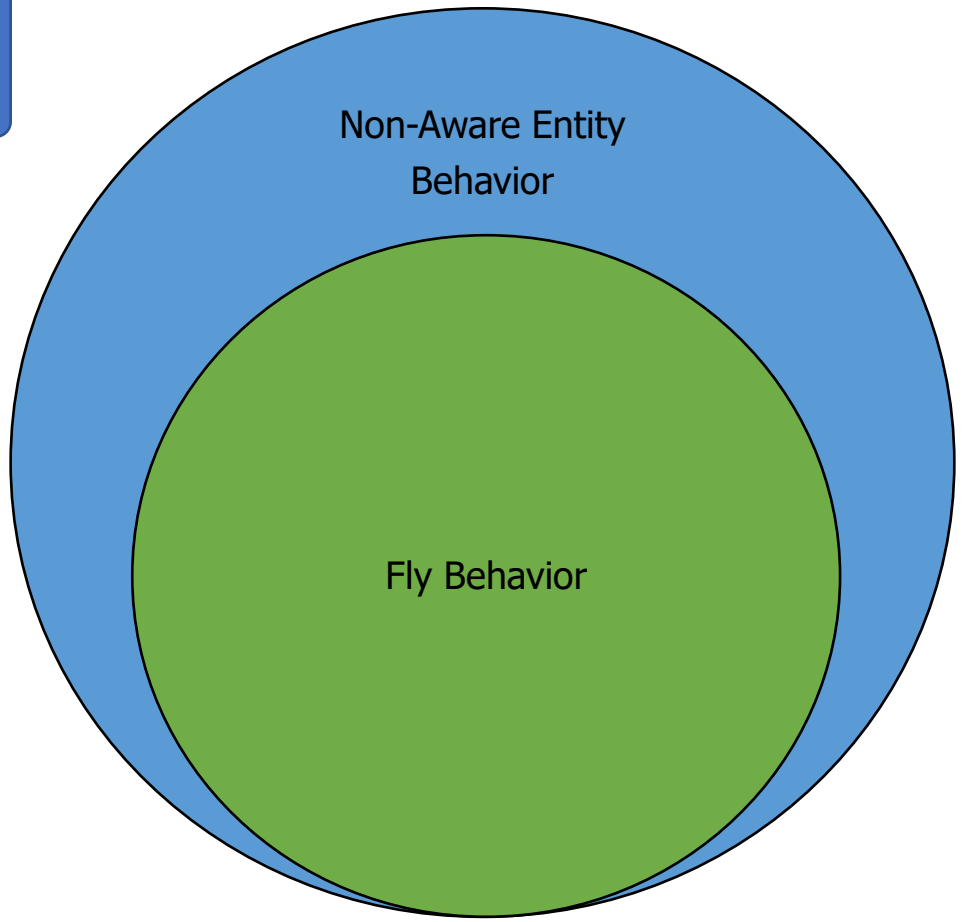
- → I quickly squeezed out all of the juice from the remaining oranges.
- → Then, I set aside these remaining oranges into a small pile as I drank my freshly squeezed orange juice.
- → Immediately after I set the pile of cut oranges off to the side away from me and from the single orange half, the fly immediately flew to the pile of oranges, and landed on the oranges.
- → The fly stayed on the pile of oranges for quite some time.
- → Goal achieved! The fly left me alone, and I modified its behavior by making it fly to the pile of oranges.
- → However, this was always the fly's intentions, I just was not aware.
- → Experiment ends. What was learned in the process?

Modifying Fly Behavior: The Trick worked. Eureka!



COVID-19's 'Brain's' Discovered by Observing Fly Behavior

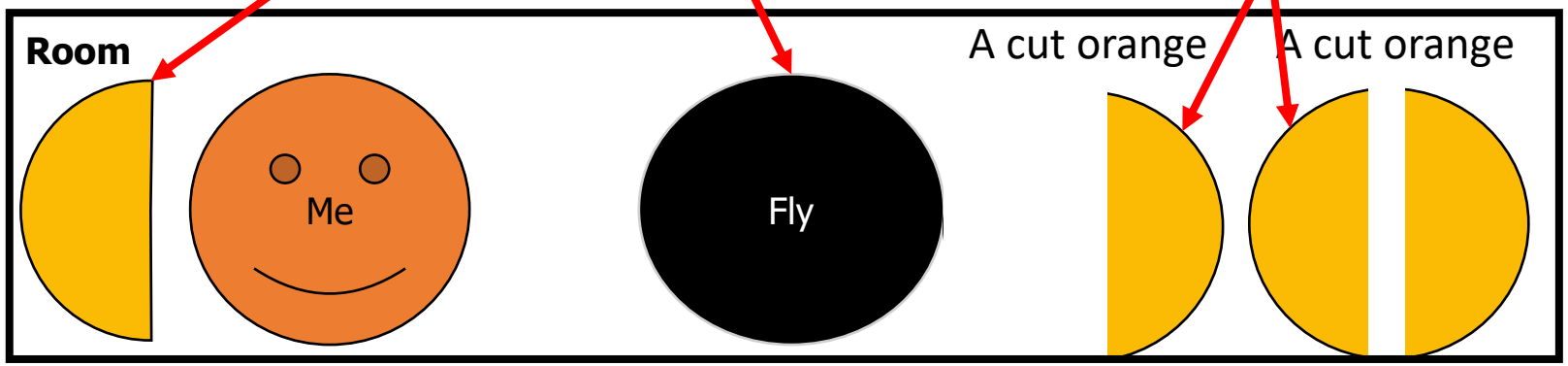
- → In the process of this experiment, I learned that a fly's behavior can be modified almost instantaneously.
- → Why did this behavior modification happen?
- → I think the fly engaged in this behavior because it was able to detect the larger pile of oranges, and nature has programmed its instincts to be automatically drawn to piles of things that are larger in size.
- → Flies, and all animals rely on instincts to survive because they are entities that are not aware like humans are aware of the world.
- → Flies might have the ability to detect when there is more of something they need for survival.
- → Flies might have the ability to detect when there is less of something they need for survival.



This is the orange half that I set aside for the fly. The fly ignored it.

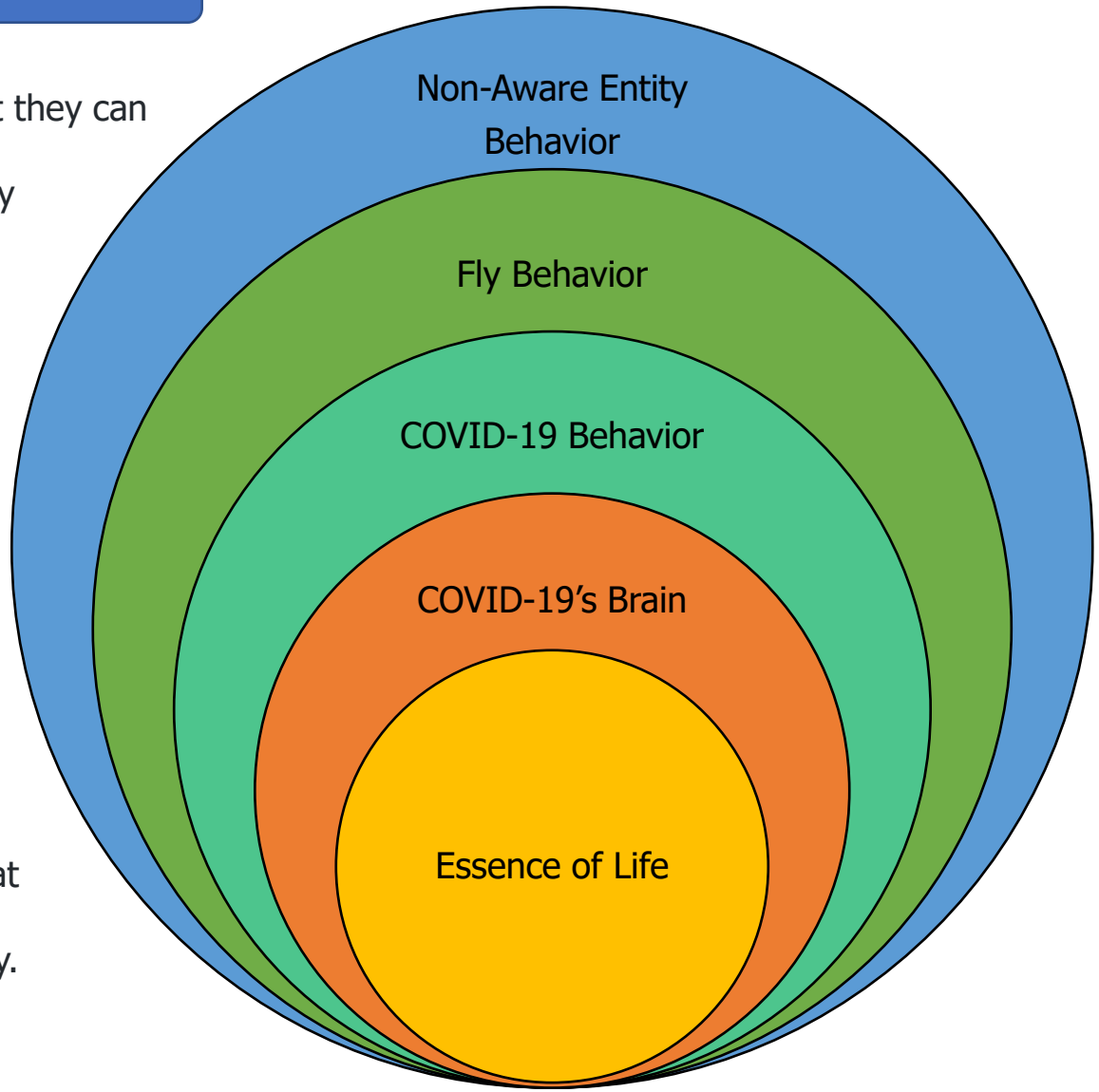
Fly left me alone and flew to the pile of oranges.

These oranges were put into a pile to see if the fly would go to them. It did!



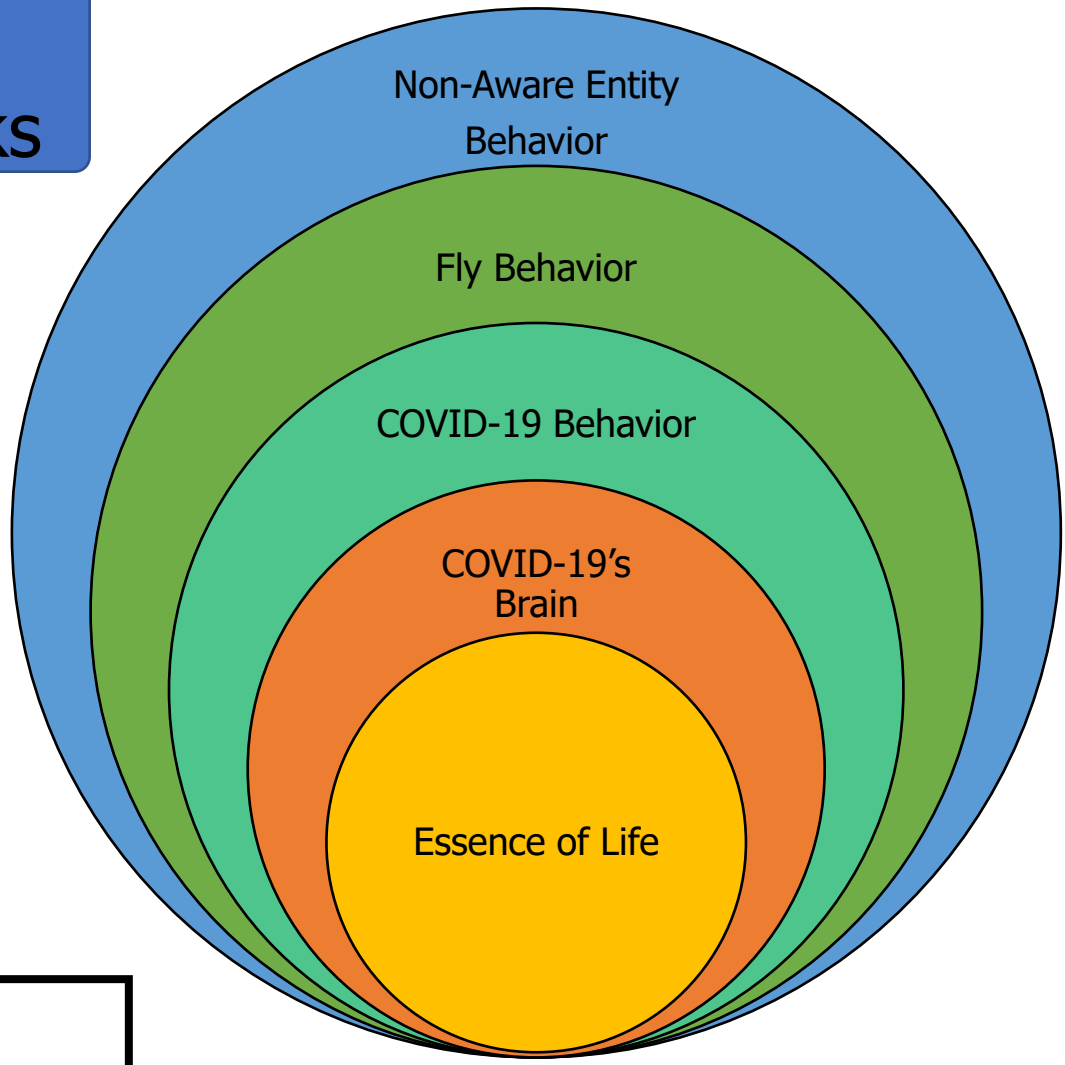
COVID-19's 'Brain's' Discovered by Observing Fly Behavior

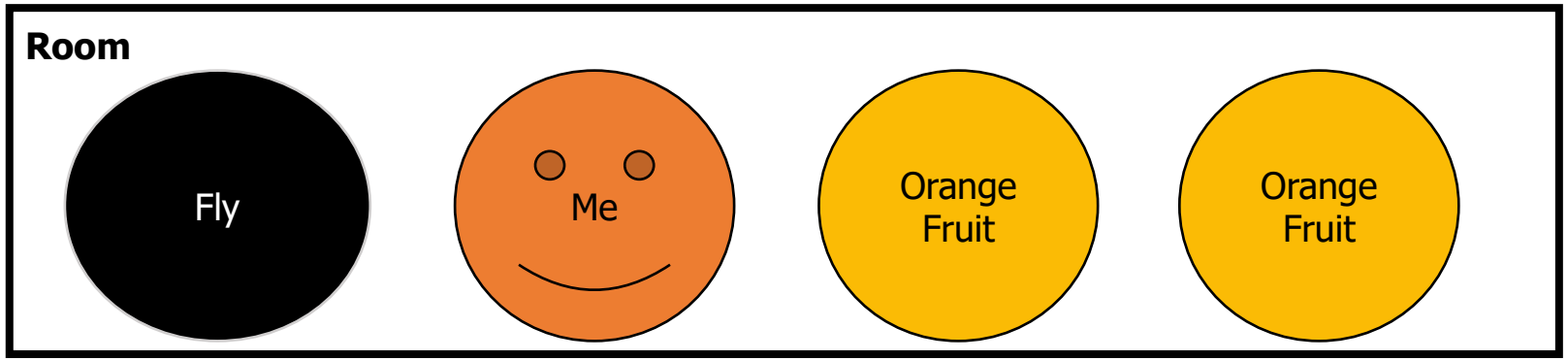
- → I think animals and insects might have similar abilities to that of flies in that they can detect the presence of something they need for survival.
- → The interesting point about this ability is that animals and insects, since they are non-aware entities, do not know they have this behavioral trait.
- → Since COVID-19 contains bat DNA, it is assume that it has animals instincts programmed into its DNA.
- → Just like nature programs animals and insects with survival instincts, nature has programmed the bat DNA in COVID-19 with survival instincts.
- → COVID-19 has been trying to survive, using its instincts, by searching for a viable host.
- → COVID-19's bat DNA appears to use different clues in nature to find a viable host.
- → Similar to how the flies in my experiment were able to identify the large pile of freshly cut and freshly squeezed orange halves because they were a large molecular build-up of something needed for their survival, I think COVID-19's bat DNA is able to identify large molecular build-ups of things needed for their survival.
- → The interesting thing is that COVID-19 is doing this without being aware that it is doing it.
- → Thus, COVID-19 does posses the essence of life, but it is a non-aware entity.



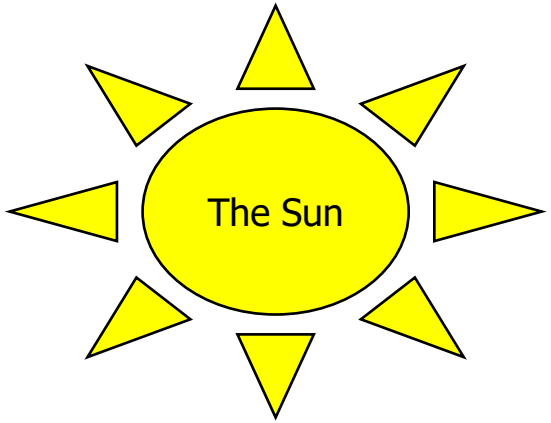
COVID-19's 'Brain's' Discovered by Observing Fly Behavior – Some Remarks

- → The fly did not gravitate to orange halves that were freshly cut, but consisted only of orange peels, even if the peels were piled up.
- → Flies appear to be more interested in consuming the orange itself instead of the orange peel.
- → I only tested this on a single fly that was within my reach on two different occasions.
- → I assume the flies in both separate instances of this experiment were not the same fly.
- → The flies had not been trained to seek out piles of freshly cut or freshly squeezed oranges.
- → The flies were regular flies found in nature.

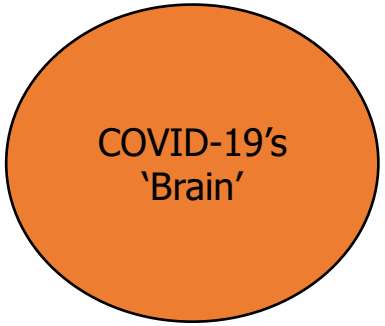




COVID-19's 'Brain's' and The Sun Test

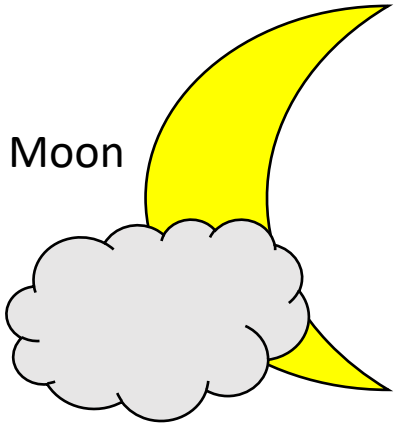


- → I think COVID-19 is able to survive just enough in out in direct sunlight to find a viable host.
- → Finding a viable host is the process of infecting a human. So this tells us that while the Sun might actually be destroying COVID-19 on a molecular level, it is not completely neutralizing it.
- → How do we know the Sun is destroying COVID-19? All of humanity is still here, and not everyone was infected by COVID-19.
- → However, some people were infected by COVID-19, so COVID-19 might have some mechanisms to prevent itself from being completely destroyed by the Sun.
- → The sun is known to raise Vitamin D levels in humans. By extension of humans being mammals, I will assume that the Sun raises Vitamin D levels in mammals.
- → Bats are mammals, and COVID-19 contains bat DNA.
- → The Sun is not completely killing COVID-19, just like the Sun does not completely kill off bats. Eventually, the Sun will kill off bats.
- → The death of the bats, we assume, will not be directly caused by the Sun.
- → The death of bats will be caused by some other factor related to being out in the Sun.
- → I do need to verify if the Sun raises Vitamin D levels in all mammals, however, Vitamin D appears to play an important role in the survival of various organisms. For now, I will assume Vitamin D plays an important role in the development of life on Earth.

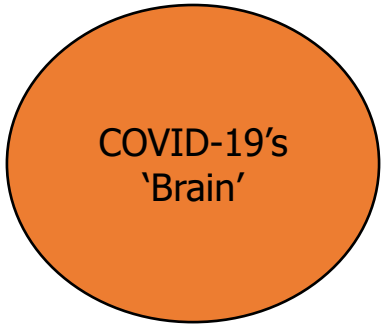


Source: *The weird history of vitamin D — and what it actually has to do with sun*
https://www.washingtonpost.com/news/speaking-of- science/wp/2016/05/12/the-weird-history-of-vitamin-d-and-what-it-actually-has-to-do-with-sun/

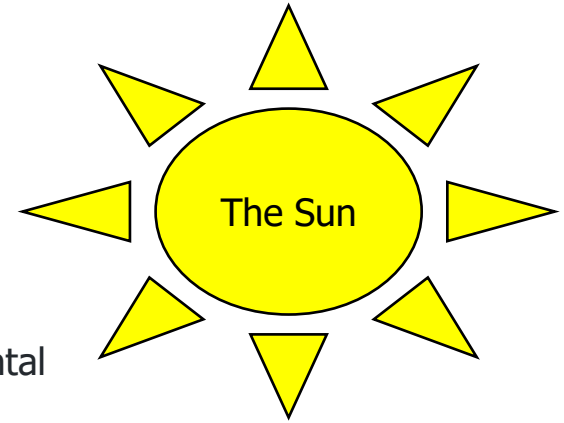
COVID-19's 'Brain's' and The Sun Test



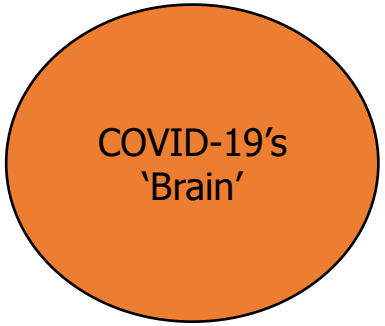
→ The Sun raises Vitamin D levels, but bats usually have low Vitamin D levels as a result of their lifestyle habits.
→ Bats typically only fly at night, and bats typically spend most of their time indoors. Further, bats require low
→ Vitamin D levels because they cannot have strong bones.
→ Vitamin D works together with calcium to create strong bones.
→ Strong bones, by definition of being strong bones, will be heavy.
→ Bats cannot risk having heavy bones or they risk losing their ability to fly.
→ Bats also require the ability to make intricate movements with their wings as they fly.
→ High Vitamin D and calcium levels would create strong bones in bats.
→ Consequently, bat wings would not necessarily be able to make some of the intricate flight movements that are required for bat flight.
→ Hence, bats are relatively flimsy bone structured animals, but their flimsy bone structure allows them to make intricate flight movements that help them survive as a species.
→ As long as this goal is met, their flimsiness is not a weakness, but an evolutionary advantage.



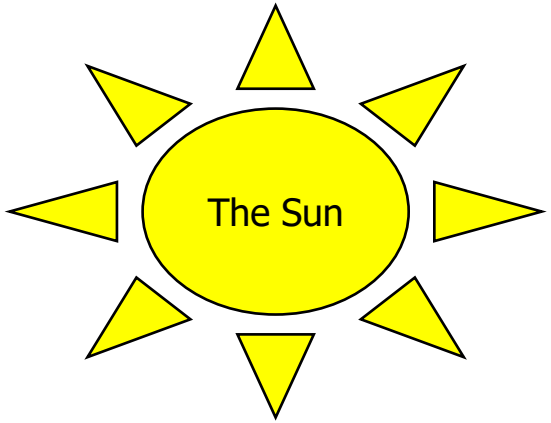
COVID-19's 'Brain's' and The Sun Test



- → COVID-19, while being in the Sun, we assume that its Vitamin D levels are being raised on a molecular level because this is what happens when mammals are out in the Sun.
- → However, being out in the Sun is not an environment that bats are accustomed to because it is detrimental to their survival. By extension of COVID-19 containing bat DNA, being out in the Sun is also detrimental to its survival.
- → So COVID-19 is possibly identifying who to infect based on low Vitamin D levels because low Vitamin D levels indicate that you are away from the Sun and conducive to bat survival.
- → If you are conducive to bat survival, then by extension of COVID-19 containing bat DNA, you are also conducive to COVID-19 survival.
- → When President Trump got infected by COVID-19, he possibly had low Vitamin D levels, or low enough levels that COVID-19 was able to identify him, and enter his body.
- → This could have happened as President Trump prepared for his debate. If he stayed indoors a lot for his preparation leading up to the debate, or he was away from sunlight leading up to the debate, his Vitamin D levels could have lowered just enough for COVID-19 to detect them, and identify him as a viable host.
- → This could also account for anyone that was with him leading up to the debate, and why they, too, tested positive for COVID-19.



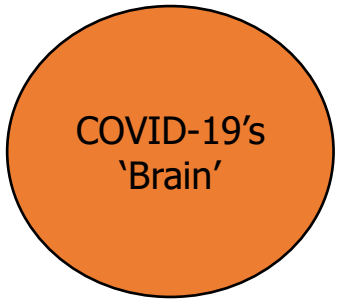
COVID-19's 'Brain's' and The Sun Test – How Exactly Could the Sun Test Work?

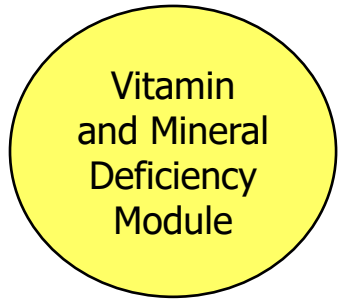


→ Bats often use their sense of smell to identify their offspring.
→ Bats may also use their sense of smell to identify other bats.
→ Animals relying on their sense of smell to identify other animals, or the emotions of other animals is not a strange concept.
→ Mice rely on this ability. Mice use pheromones for survival.
Source: *Darcin in Mice Urine Attracts Other Mice* https://scitechdaily.com/darcin-in-mice-urine-attracts-other-mice/
Source: *The Scent That Makes Mice Run Scared* https://www.sciencemag.org/news/2010/05/scent-makes-mice-run-scared

→ Sharks also rely on this ability to use pheromones.
→ **Source:** *The smell of dead sharks is helping to keep surfers safe from attack* https://www.wired.co.uk/article/shark-attacks-2018-smell-podi

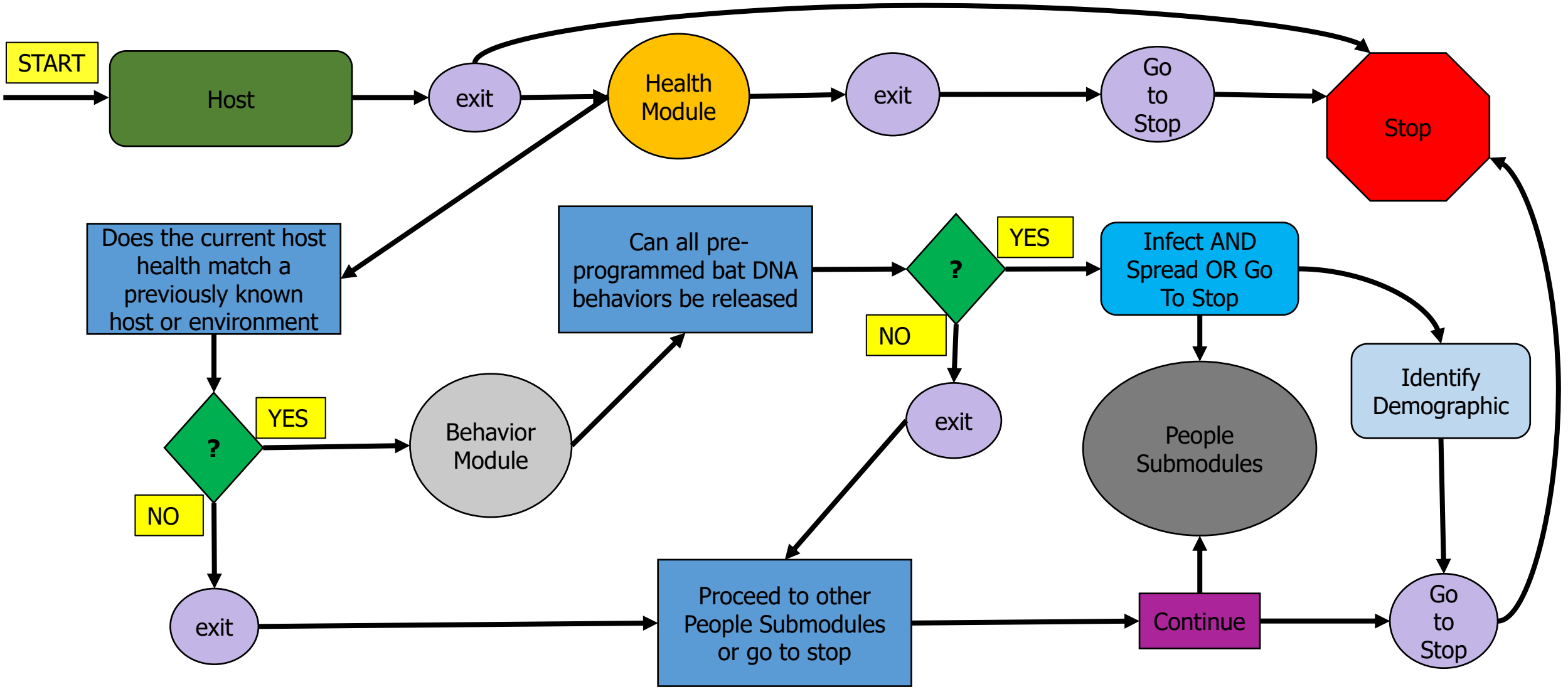
→ Assume that the bat DNA in COVID-19 also has the ability to use its sense of smell, since it is bat DNA after all.
→ When a human has low Vitamin D levels, on a molecular level or some level that humans cannot detect, the humans may give off a sense of smell that is detectable by COVID-19.
→ Likewise, when a human has high Vitamin D levels, on a molecular level or some level that humans cannot detect, the humans may give off a sense of smell that is detectable by COVID-19.
→ COVID-19, using the sense of smell at the molecular level or some other level undetectable by humans, could exactly explain how COVID-19 is identifying human hosts to infect by smelling for Vitamin D levels that are low.
→ I do include a Vitamin and Mineral Deficiency Module in my hypothetical model of COVID-19's behavior to account for low Vitamin D and calcium levels. This is how The Sun Test could work to exactly explain how COVID-19 is identifying hosts.





COVID-19 General Behavior Flowchart Before COVID-19's Brain Discovered

- → This general flowchart was designed at the beginning of the reverse-engineering process. I started trying to figure out COVID-19's behavior based on any available research found online.
- → This flowchart is not as complex because I was still trying to understand how COVID-19 was behaving before causing an infection in a host.
- → In this flowchart, I am trying to define COVID-19's behavior.
- → Go to START, and follow the arrows.

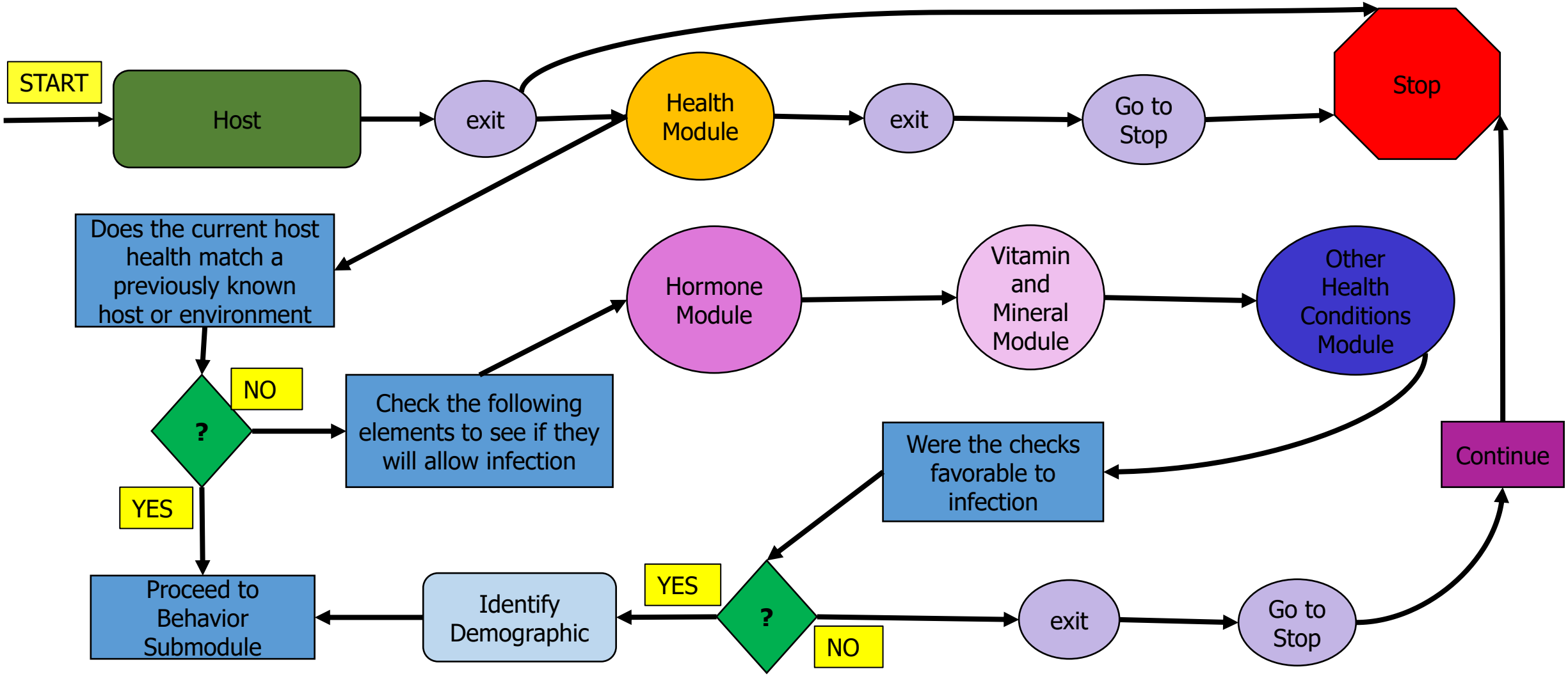


COVID-19 General Behavior Flowchart Before COVID-19's Main Modules Discovered

→ Directions: Go to START, and follow the arrows.

→ For this general flowchart, I started to identify modules to begin to define the process that COVID-19 was using to distinguish males, females, and various age groups.

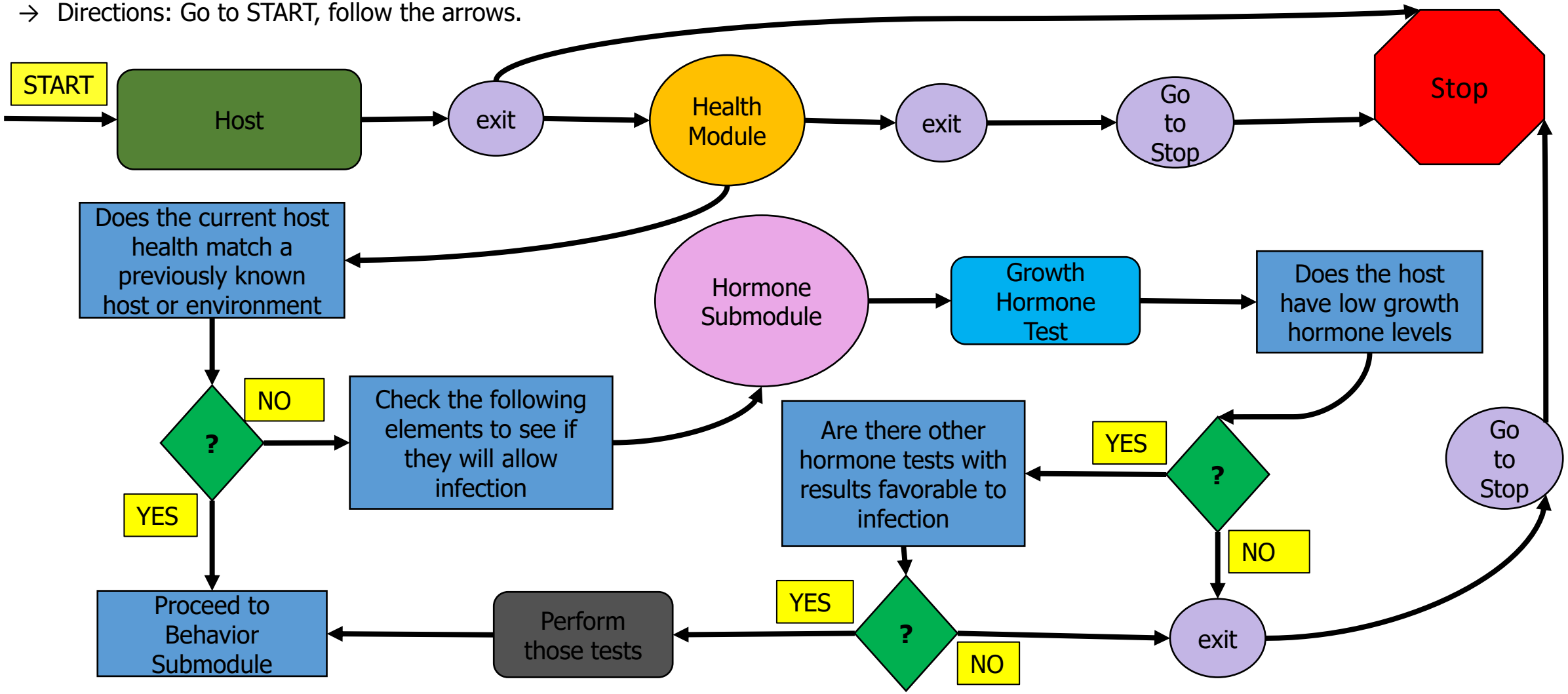
→ People at various ages in their lives, will usually have different levels of hormones, vitamins and mineral, and they may also have various health problems depending on their age.



COVID-19 General Behavior Flowchart Before COVID-19's Main Modules Discovered

- → In my model, COVID-19 is following a series of steps, and making decisions at each step.
- → Directions: Go to START, follow the arrows.

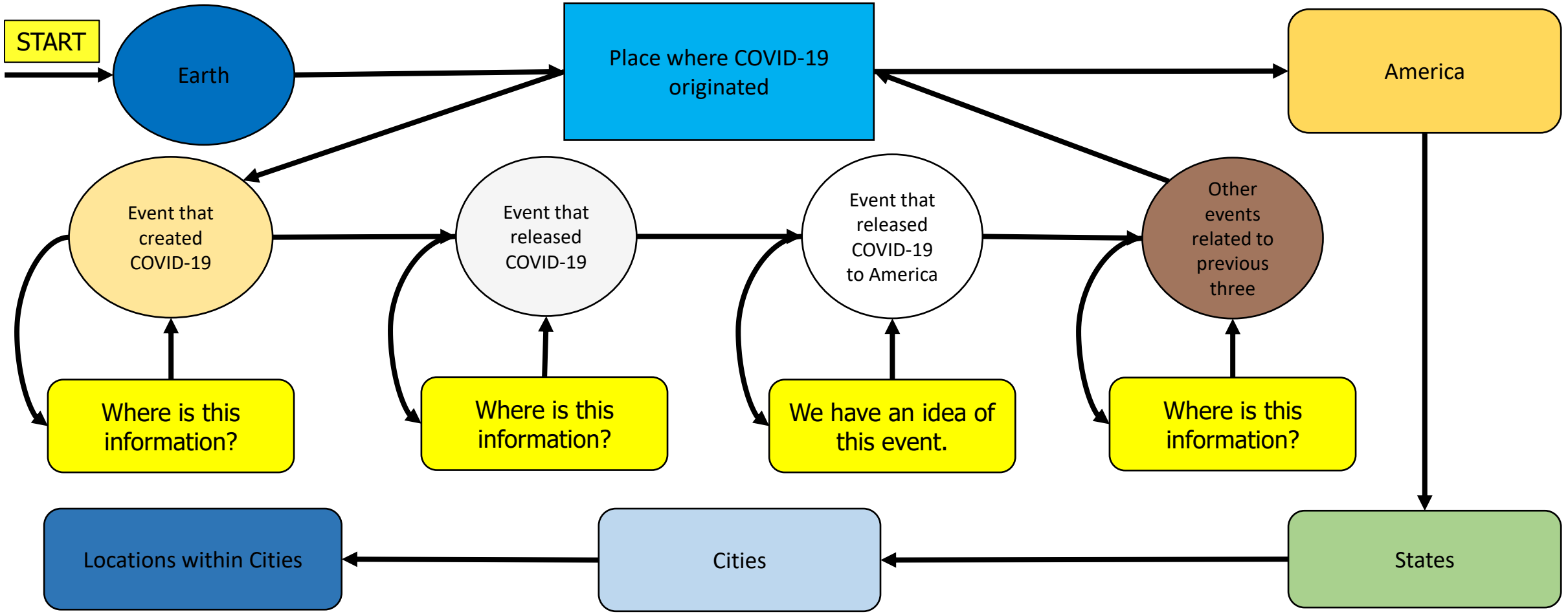
- → In this flowchart, I started to get an idea of how COVID-19 was identifying people to infect.
- → I suspected that COVID-19 was using growth hormone levels to check which age groups to infect.
- → Things were getting narrowed down, but not quite. Some work was still required on my end.



COVID-19 Trajectory

→ Only focusing on travel path to America, but Italy seems to be heavily involved in the path. I might look into Italy's potential role.
→ I started with Earth to help me get a grasp on things to then begin the process of learning about COVID-19 by reverse-engineering it using its behavioral tendencies.
→ Essentially, for any disease or ailment that is found within Earth, the cure or treatment must also exist within Earth. We just have to find it.

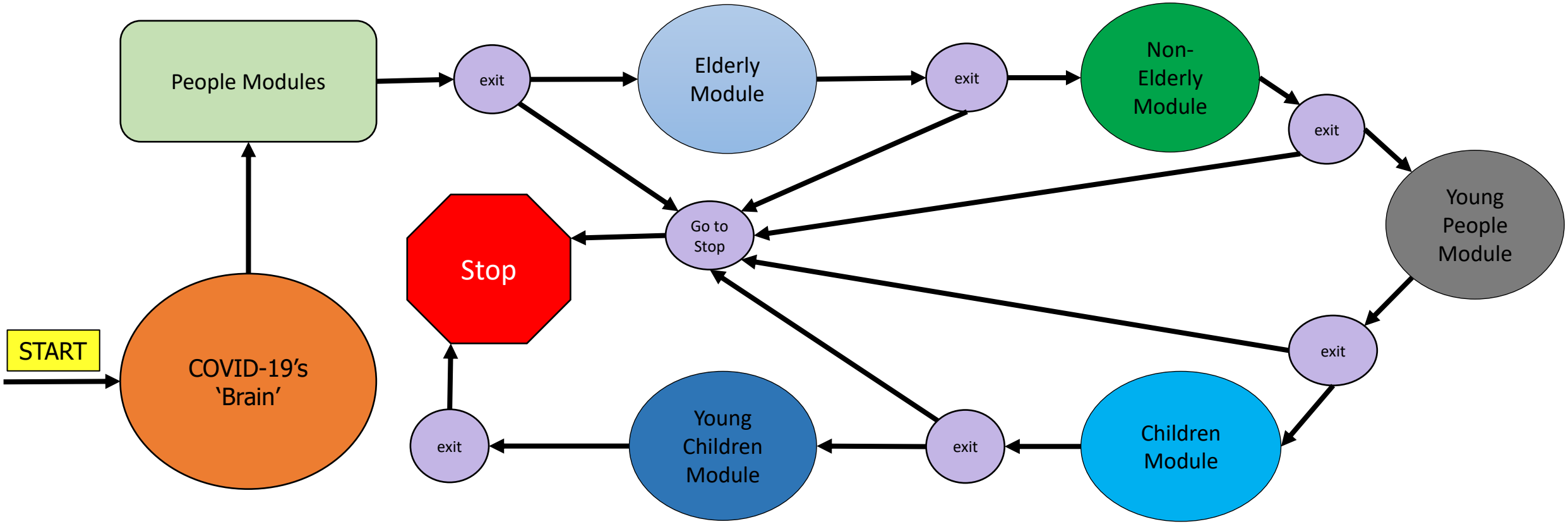
→ Start at Earth and follow the arrows to learn COVID-19's trajectory.
→ "Where is this information?" – means exactly that because publicly we do not fully know what happened to allow COVID-19 to release.



COVID-19 General Behavior and Trajectory

- → Why would COVID-19 have preferences?
- → It is difficult to say now, but this might be related to its origins.
- → Why doesn't the flu have a preference like COVID-19?
- → This is difficult to answer, but the solution may lie in the differences between COVID-19 and the flu as well as their origins.

- → How is COVID-19 able to determine who to infect?
- → I suspect COVID-19 is able to determine who to enter by conducting various tests to determine if a person is a viable host.
- → Does it have a preference?
- → COVID-19 appears to have preferences, but some people run more of a risk of contracting COVID-19 than others.
- → Start at COVID-19's Brain, and follow the arrows to trace its trajectory.
- → COVID-19 does not infect everyone, so an "Exit" and eventual "Stop" are required to trace its path.

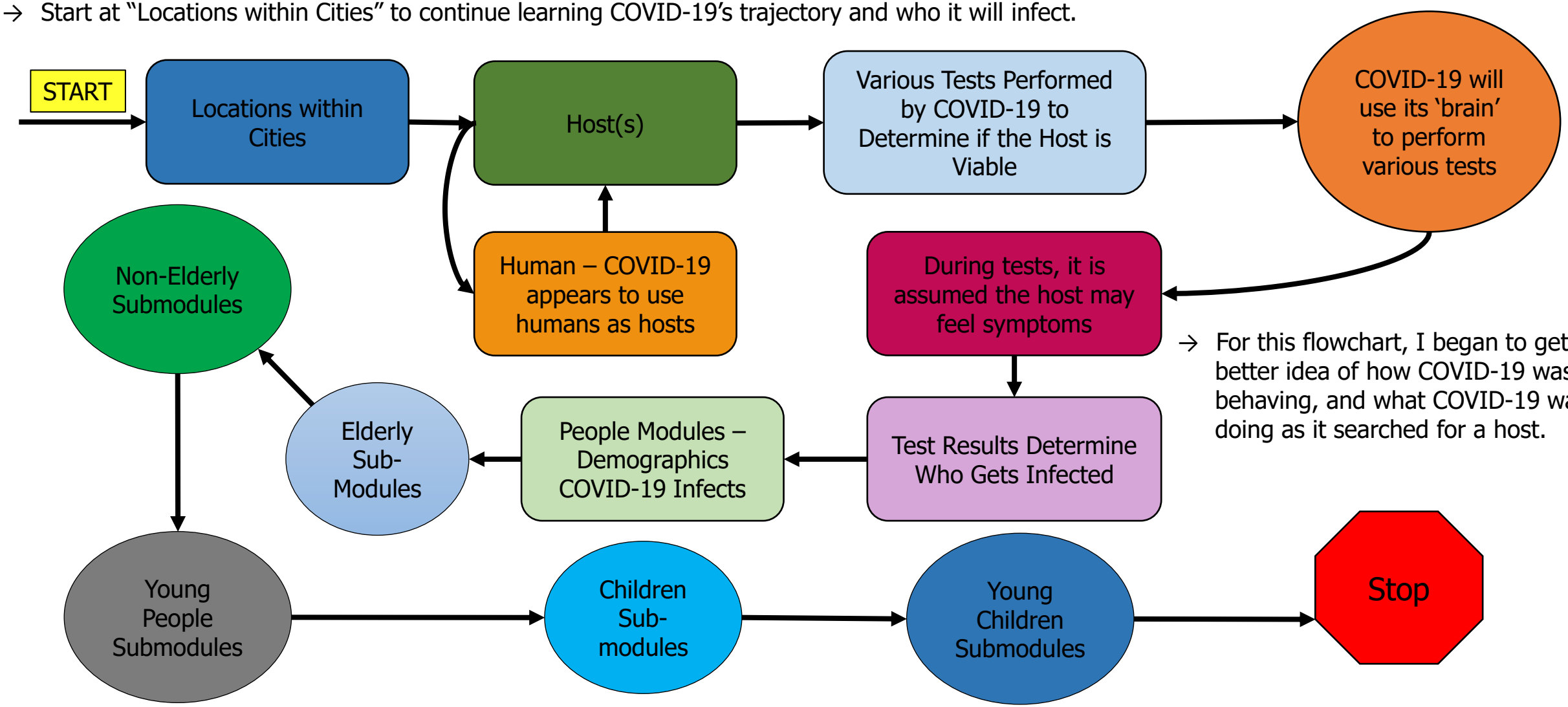


COVID-19 Behavior and Trajectory

→ The hypothetical tests that COVID-19 will perform to find a viable host are tests that check certain levels of various things that COVID-19 uses for survival. Since COVID-19 was derived from bats, the bat DNA in COVID-19 is searching for the environment found within a bat's body.

→ COVID-19 is using various tests to find this environment. For the moment, I refer to the tests as "Essence of Life Tests."

→ Start at "Locations within Cities" to continue learning COVID-19's trajectory and who it will infect.



→ For this flowchart, I began to get a better idea of how COVID-19 was behaving, and what COVID-19 was doing as it searched for a host.

Extreme High Risk Groups to COVID-19 - Obesity

→ **What is obesity?**

→ Obesity is a disease involving excessive amounts of body fat. Obesity increases the risk of heart disease, diabetes, certain cancers, and high blood pressure. There could be others.

Source: https://www.mayoclinic.org/diseases-conditions/obesity/symptoms-causes/syc-20375742

→ **What is morbid obesity?**

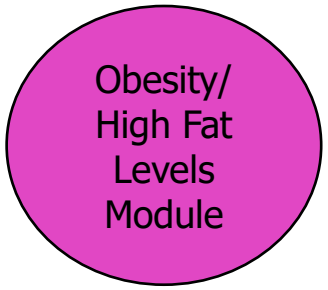
→ Morbid obesity is a serious health condition that can interfere with walking and breathing. Further, those who are morbidly obese, are at greater risk of other serious health problems such as diabetes, sleep apnea, heart disease, and cancer, just to name a few.

Source: https://www.urmc.rochester.edu/highland/bariatric-surgery-center/journey/morbid-obesity.aspx

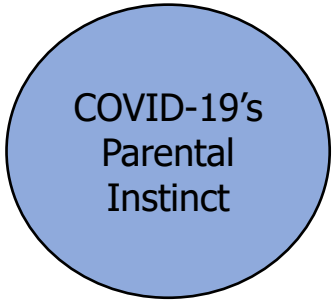
Obesity – a stabilized version of COVID-19 can be possibly be used to treat obesity.

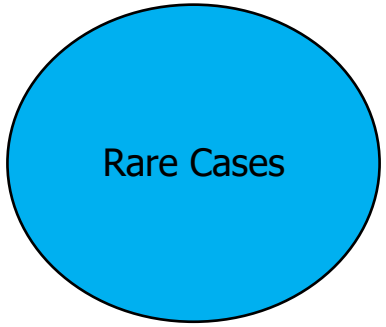
→ Morbid Obesity – a stabilized version of COVID-19 can possibly be used to treat morbid obesity.

→ Possibly Other Medical Treatments – a stabilized version of COVID-19 may have other medical benefits.



Extreme High Risk Groups to COVID-19 - Obesity





→ **Obesity** – people that are obese or morbidly obese.

Source: Scientists are urging the government to strengthen public Health efforts to address the Obesity epidemic in the prevention against the CCPVirus as more studies find that people with obesity have higher risks of dying from COVID19.

https://twitter.com/EpochTimes/status/1300567795596496896

Source: Obesity seems to be tied to getting very sick from a coronavirus infection, and doctors are trying to figure out why.

https://twitter.com/APHealthScience/status/1303375447821111307

Rare Cases

→ 30-Year-Old Teacher Dies of Coronavirus After Her Symptoms Were Dismissed as a Panic Attack https://people.com/health/teacher-dies-coronavirus-after-her-symptoms-dismissed-panic-attack/

→ 28-Year-Old South Carolina Teacher Dies from Coronavirus 3 Days After Testing Positive https://people.com/health/south-carolina-third-grade-teacher-dies-coronavirus/

→ Both teachers appear to be obese, possibly morbidly obese. With obesity and morbid obesity, I think it is safe to assume there will be other health problems.

→ For the rare cases of COVID-19 infection, these cases appear to show that COVID-19 has a parental instinct that is activated.

Extreme High Risk Groups to COVID-19 - Diabetics

→ **Diabetes** – people that have diabetes (and maybe people that have a family with a history of diabetes even though they themselves might not be diabetic)

Source: *First study of COVID-19 patients with diabetes shows that 10% die within seven days of hospital admission*

https://medicalxpress.com/news/2020-05-covid-patients-diabetes-die-days.html

Source: *Diabetes increases risk for poorer prognosis in COVID-19* https://medicalxpress.com/news/2020-04-diabetes-poorer-prognosis-covid-.html

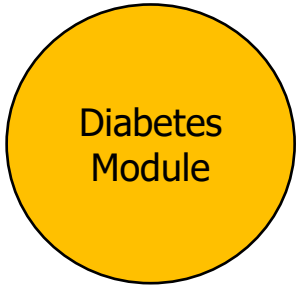
Diabetes – a stabilized version of COVID-19 may treat diabetes successfully to the point of curing it. From the research that I have done on COVID-19's behavioral tendencies, I would not be surprised if a stable diabetic treatment results from COVID-19. I am fairly optimistic about this possibility, I do hope it materializes.

→ Type 1 Diabetes – a chronic condition in which the body produces little or no insulin.

→ Type 2 Diabetes - a chronic condition that changes the way the body metabolizes sugar (glucose).

Source: https://www.healthline.com/health/and-after-effect-eating-blood-sugar#insulin

Source: https://www.mayoclinic.org/diseases-conditions/type-1-diabetes/symptoms-causes/syc-20353011



Extreme High Risk Groups to COVID-19 – Vitamin and Mineral Deficiency

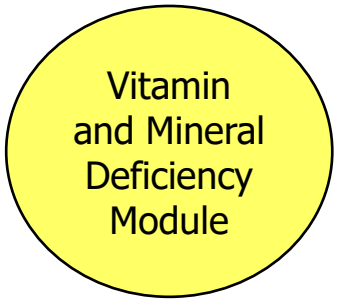
→ **Vitamin and Mineral Deficiency** – people that lack certain vitamins and minerals.

Source: Vitamin D deficiency raises COVID-19 infection risk by 77%, study finds https://www.upi.com/Health_News/2020/09/03/Vitamin-D-deficiency-raises-COVID-19-infection-risk-by-77-study-finds/7001599139929/

Source: New Study: Vitamin D reduces risk of ICU admission 97% https://covid.us.org/2020/09/03/new-study-vitamin-d-reduces-risk-of-icu-admission-97/

→ Regarding the vitamin and mineral deficiency group, I do have a module planned out for this group of people.

→ I am not surprised, based on my hypothetical model, that certain groups of people such as those with a Vitamin D deficiency, for example, are at increased risk of COVID-19 infection.



Extreme High Risk Groups to COVID-19 – Vitamin and Mineral Deficiency

Vitamin D is known as the "sunshine vitamin".

→ It is well known that bats avoid sunlight.

→ It is in a bat's best interests to avoid sunlight, so that it can survive as a species.

→ Avoiding sunlight is instinctual behavior to bats.

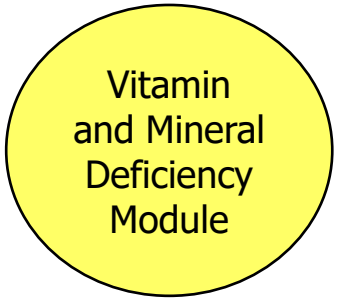
→ Bats spend most of their time flying at night, or sleeping and living in a cave away from sunlight.

→ Thus, we can hypothesize that they will probably have low Vitamin D levels most of the time.

→ Since COVID-19 is derived from bats (or contains bat DNA), we can hypothesize that people with low Vitamin D levels could be at increased risk to contracting COVID-19 because their low Vitamin D levels could help COVID-19 infect them easier by creating a familiar environment for it.

→ That is, COVID-19 will detect the low Vitamin D levels, and 'remember' the same levels from a previous environment.

→ Upon doing this, COVID-19 decides to infect the host and unleash its full potential.



Extreme High Risk Groups to COVID-19 – Vitamin and Mineral Deficiency

Vitamin and Mineral Deficiency Module

→ **<u>Calcium Deficiency</u>** – people with calcium deficiencies might be at increased risk to COVID-19 infection similar to how some people that have low Vitamin D levels are at increased risk to COVID-19 infection.

→ Both Vitamin D and calcium work together to build strong bones for humans. Vitamin D plays an important role in protecting your bones, both by helping your body absorb calcium and by supporting muscles needed to avoid falls.

Source: *Calcium and Vitamin D* <u>https://www.nof.org/patients/treatment/calciumvitamin-d/</u>

→ Currently, there are scientific papers on low calcium levels increasing the risk to COVID-19 infection.

→ A condition called hypocalcemia, in which there are lower than average levels of calcium in the body, has been found to be prevalent, and may even predict hospitalization in COVID-19 patients.

Source: *Hypocalcemia is highly prevalent and predicts hospitalization in patients with COVID-19*

<u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7292572/</u>

→ We can hypothesize that since calcium builds strong bones, bats would have low levels of calcium just like they have low levels of Vitamin D, because bats need to remain light and flimsy in order to fly and strong bones might weigh them down.

→ Since COVID-19 contains bat DNA, the bat DNA will be more likely to infect a host with low Vitamin D levels, but also low calcium levels as both of these factors could make COVID-19 'think' it has found a familiar environment. In this case, it is an environment with flimsy or weak and brittle bones. Low Vitamin D and low calcium levels are typically found in elderly people.

Extreme High Risk Groups to COVID-19 – Vitamin and Mineral Deficiency

→ People with certain vitamin and mineral deficiencies are at increased risk of COVID-19 infection because the bat DNA in COVID-19 might detect these levels, and assume it has found a suitable host that can engage in bat flight.

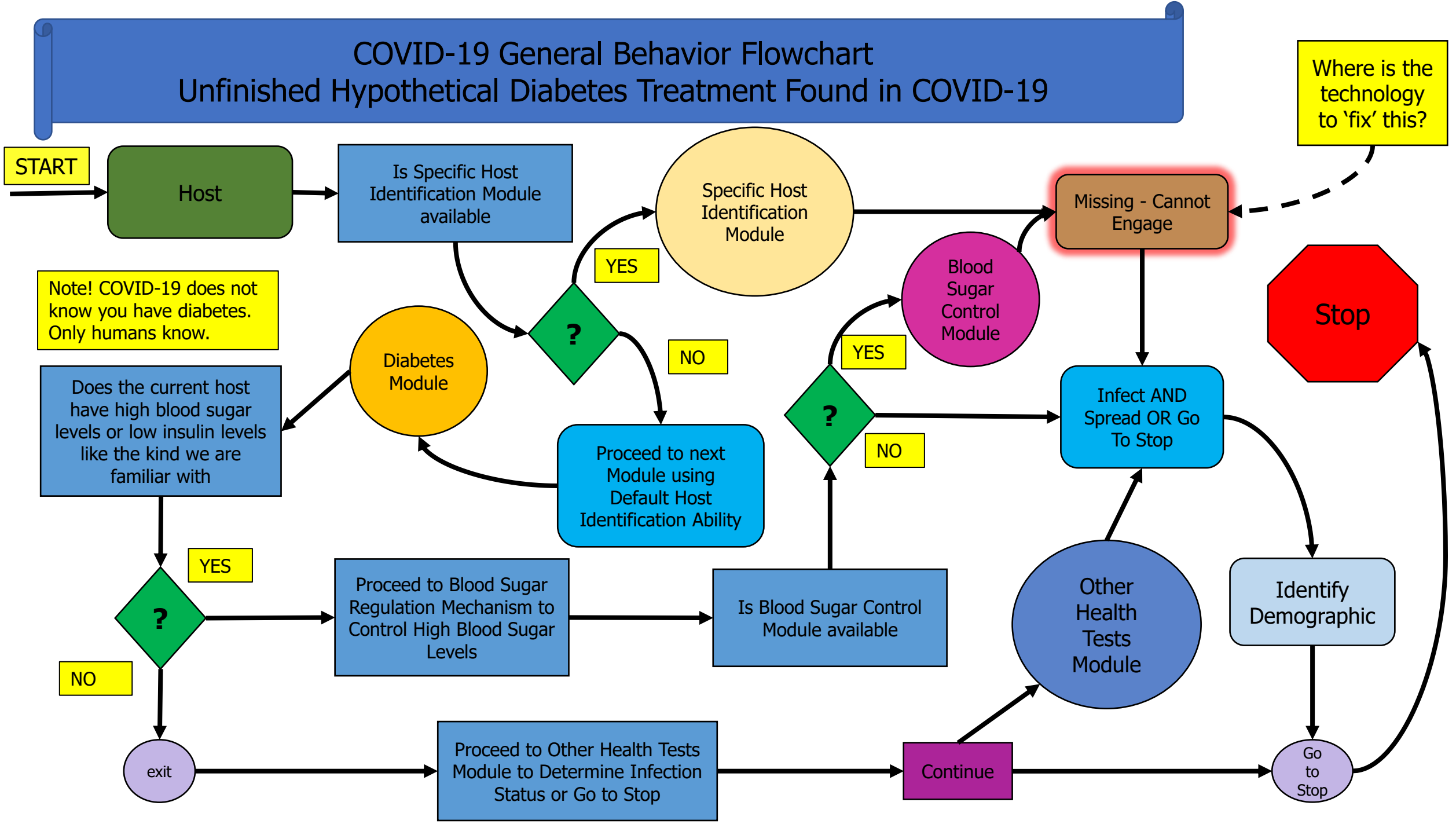
→ COVID-19, upon detecting low vitamin and mineral levels, might 'think' that because a particular human host has these low levels, the human host can then engage in bat flight because the low levels of calcium and Vitamin D might make COVID-19 'think' the host has a weak or flimsy bone structure to then allow the bone structure to successfully perform the intricate wing movements required for bat flight.

→ Birds, when compared to bats, have a rigid bird wing. This rigidness is efficient at providing lift. However, the flexibility or flimsiness of the bat wing, allows for greater maneuverability. Bats can position their wings into different shapes, changing the degree and direction of lift very quickly. From this, we infer that bats require a flimsy bone structure to allow them to be able to perform the intricate moves required for successful bat flight.

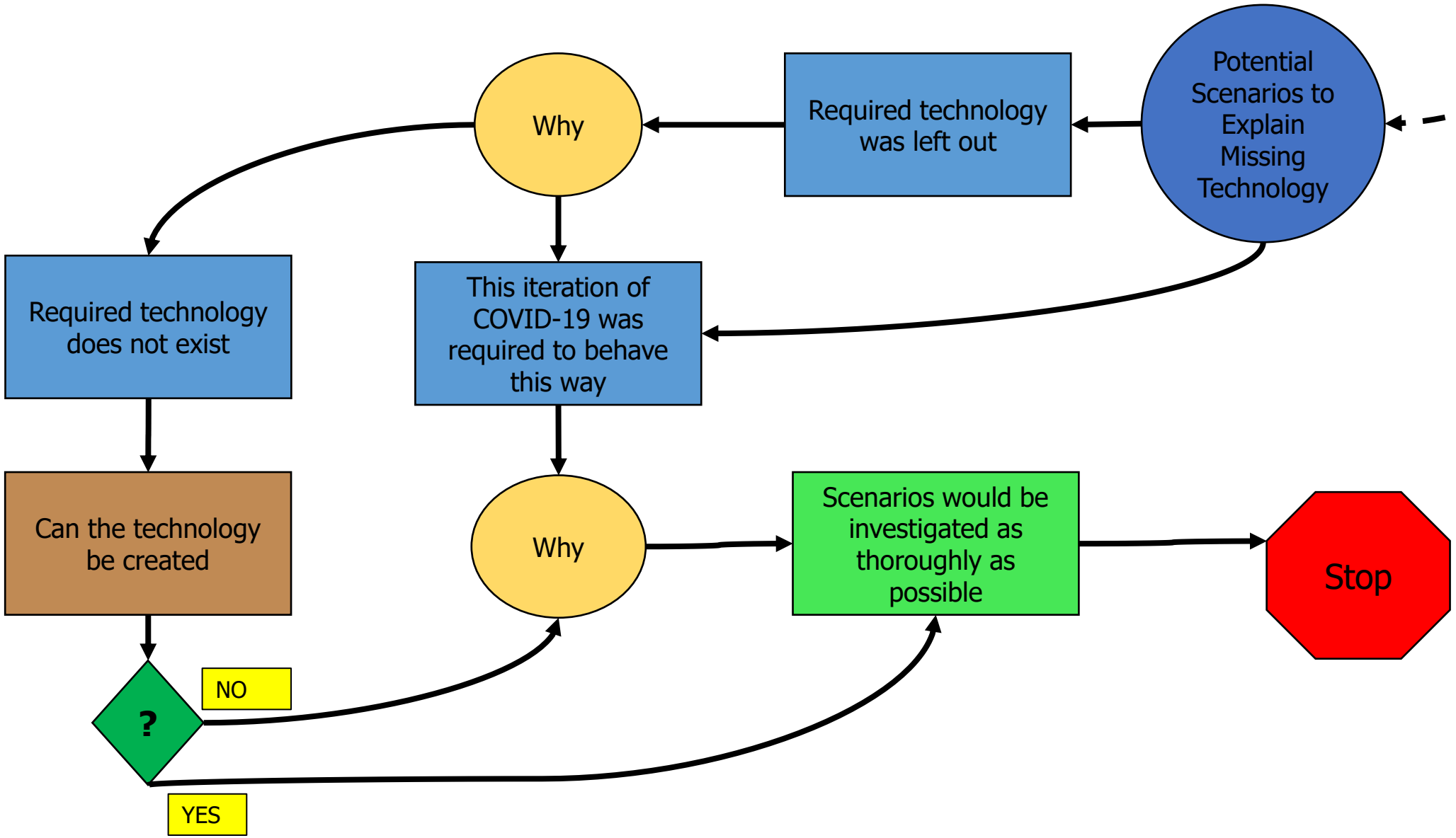
Source: *How Bats Work* https://animals.howstuffworks.com/mammals/bat1.htm

Vitamin and Mineral Deficiency Module

COVID-19 General Behavior Flowchart
Unfinished Hypothetical Diabetes Treatment Found in COVID-19



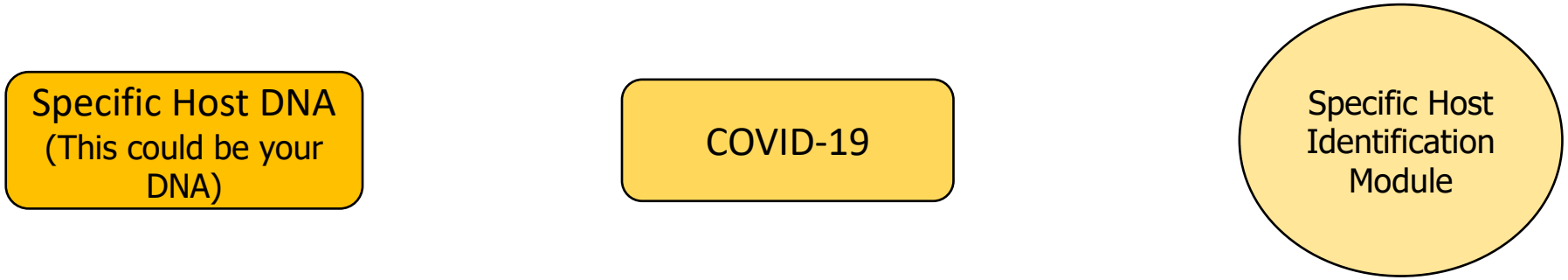
COVID-19 General Behavior Flowchart
Unfinished Hypothetical Obesity Treatment Found in COVID-19



Hypothetical Specific Host Identification Module Missing from COVID-19

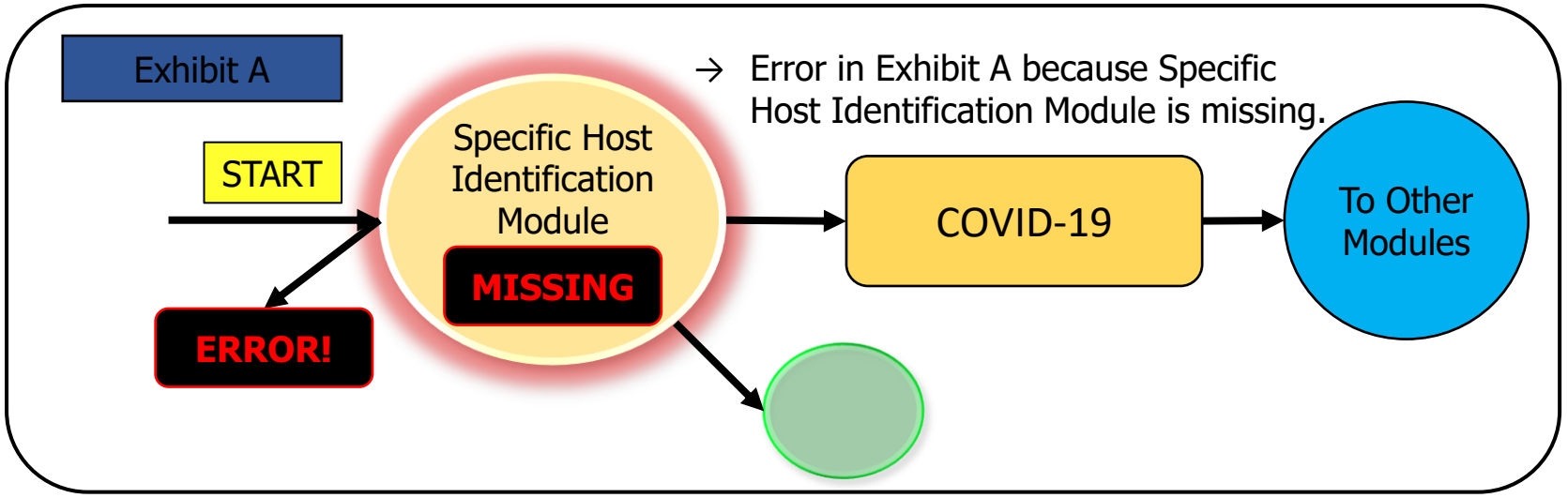
COVID-19 Application: Biological Agents for Autonomous Identification and Tracking

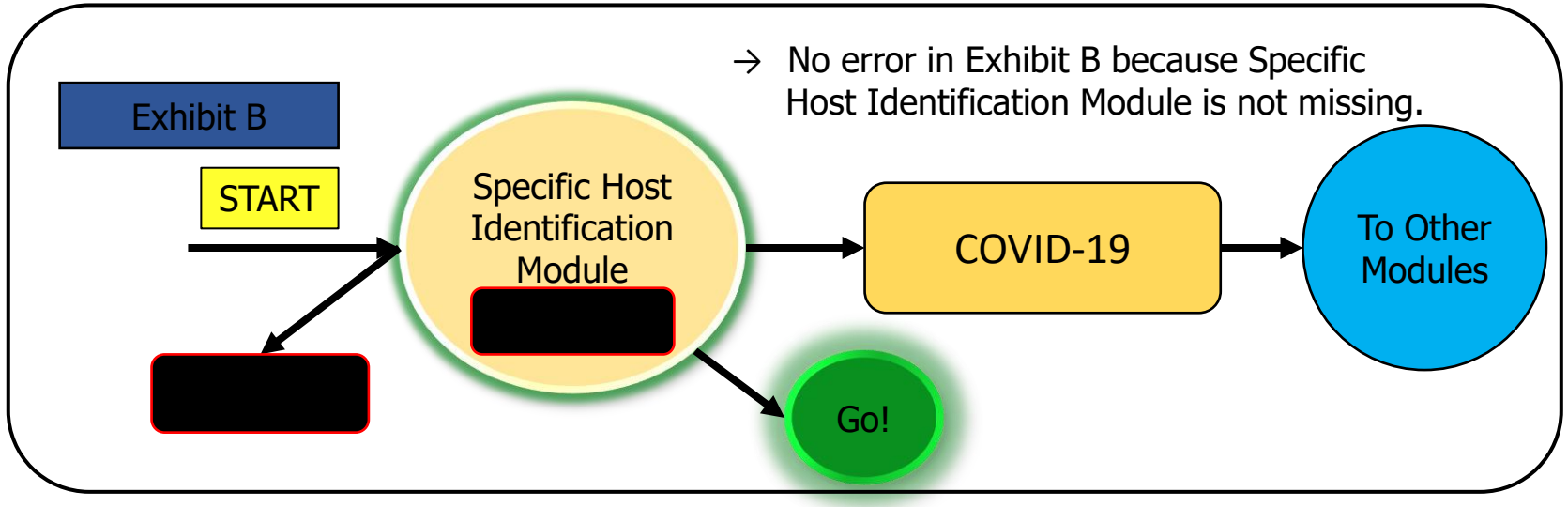
→ Spawned from my COVID-19 reverse-engineering research wherein I apply some minor software engineering principles and some other stuff to COVID-19, in hopes of figuring out what it is doing.
→ COVID-19, by itself, is useless for the most part.
→ With certain modifications in a scientific setting, it could prove beneficial and spawn off many new technologies.
→ The technologies should be so unique that they are patent worthy.
→ One such technology is to use COVID-19's biological abilities to identify and track people with precision as long as a current DNA sample of the person is available to use as a target sample.
→ If there is no current DNA sample of a person, then unconventional means of extracting DNA will be required. However, that is a different, but related project.
→ This small project is focusing strictly on what has been learned from reverse-engineering COVID-19's behavioral tendencies using publicly available sources.



Hypothetical Specific Host Identification Module Missing from COVID-19

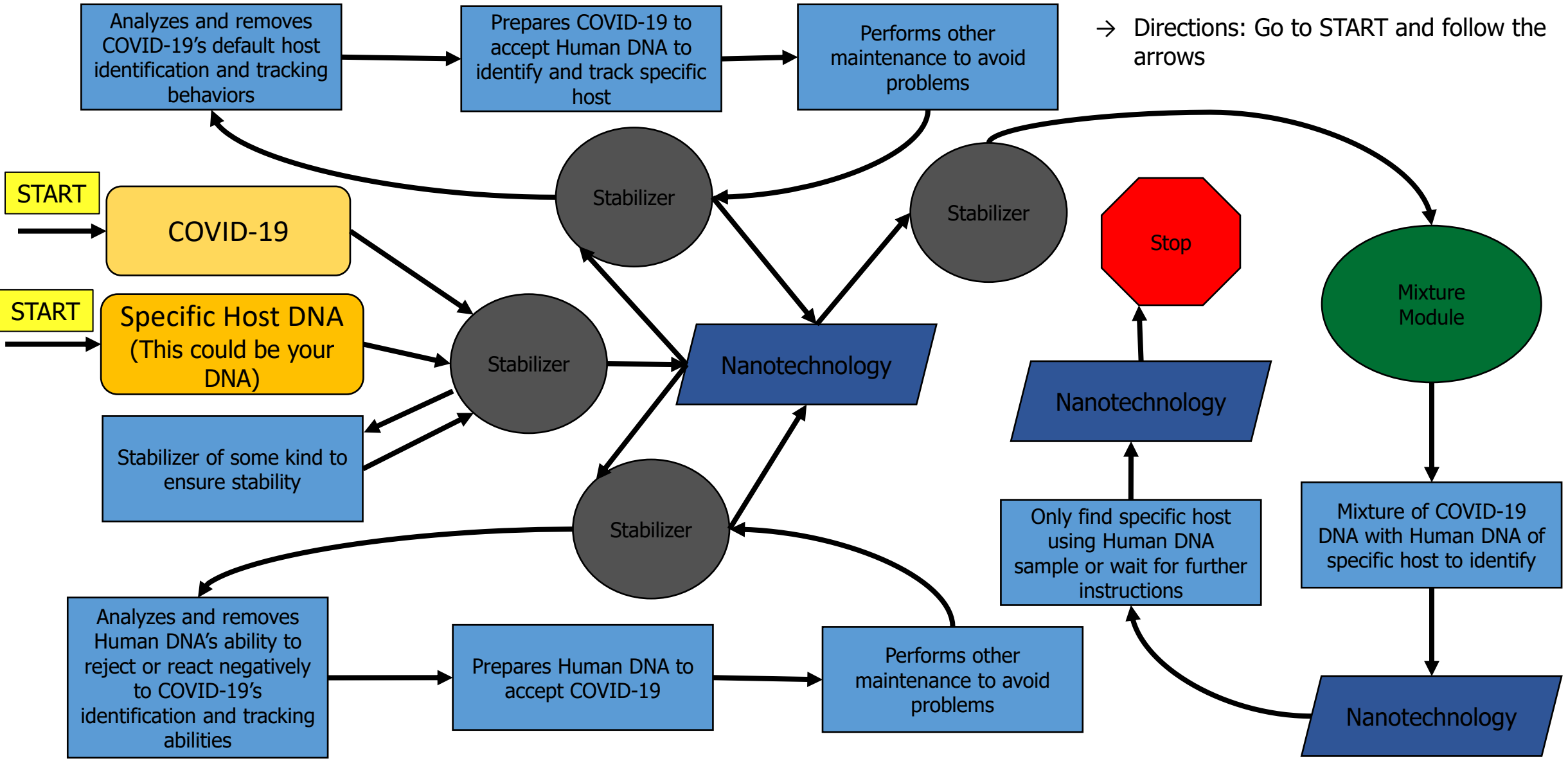
Missing from COVID-19: Some type of module to identify a specific host.





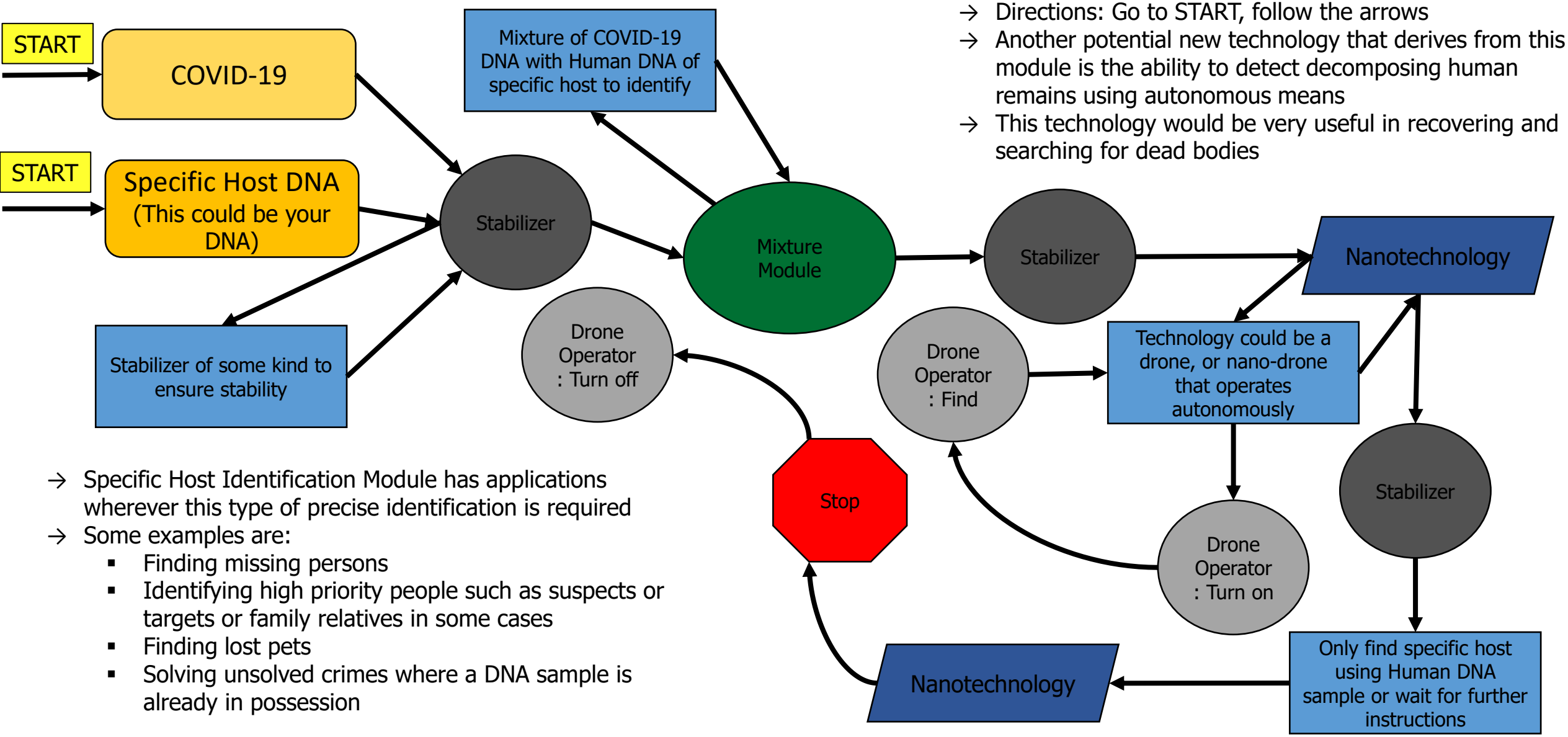
- → This module alone has many applications!
- → COVID-19 appears to be missing this module. If COVID-19 had this module, it could possibly identify specific hosts, and possibly be controlled.
- → COVID-19's current behavior without this module is uncontrolled, but slightly predictable in that we now have a good idea of who it will seek out as a viable host.
- → Based on my hypothetical model, we also now have a good idea of how COVID-19 is identifying hosts to enter to then infect.
- → A secondary project that follows from this module is the ability to extract human DNA from unconventional sources using unconventional methods.

Behavior Flowchart of Hypothetical Specific Host Identification Module Missing from COVID-19



Hypothetical Specific Host Identification Module Application: Autonomous Biological Identification and Tracking Drone or Nano-drone

→ Directions: Go to START, follow the arrows
→ Another potential new technology that derives from this module is the ability to detect decomposing human remains using autonomous means
→ This technology would be very useful in recovering and searching for dead bodies



→ Specific Host Identification Module has applications wherever this type of precise identification is required
→ Some examples are:
- Finding missing persons
- Identifying high priority people such as suspects or targets or family relatives in some cases
- Finding lost pets
- Solving unsolved crimes where a DNA sample is already in possession

Preliminary Missing Modules for Diabetes and Obesity Treatments

Missing from COVID-19: Bat Flight Algorithm Module and everything it does to the bat's body to then successfully replicate it in a human body.

→ For now, I assume the Bat Flight Algorithm is similar to an aerobic process in the human body, and not necessarily an anaerobic process in the human body.

→The lungs are typically involved in aerobic activities.

→Given my hypothetical model of COVID-19, I am not surprised it affects the lungs, but the human body responds negatively to it.

→ Aerobic activities require more oxygen than anaerobic activities.

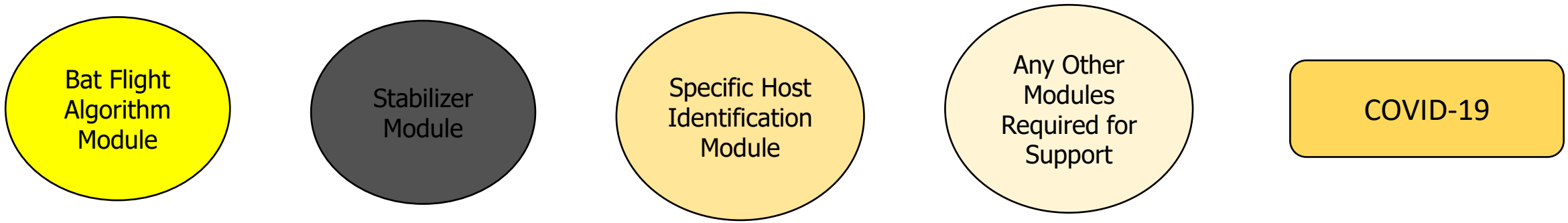
Technology required to implement and Control the Bat Flight Algorithm

→ Some type of stabilizer in the form of nanotechnology or some other technology.

Missing from COVID-19: Some type of stabilizer to keep it stable.

Missing from COVID-19: Some type of module to identify a specific host.

Missing from COVID-19: Any other modules required for support.



Reverse-Engineering COVID-19 to Recreate Any Weaponization Abilities - Weapon Version #1

→ COVID-19 has the ability to be used as a bioweapon. However, there might be some differences in how the Chinese whistleblowers view bioweapons, and the way I view bioweapons. These difference might be due to cultural differences, but I will try to entertain the few scenarios that are possible in using COVID-19 as a bioweapon. There are not too many scenarios, so this should not be too difficult.

→ COVID-19 Bioweapon Version #1 – using COVID-19 as-is with no types of added modifications, modules, or research. This form of COVID-19 is not necessarily a bioweapon by itself. It would require assistance in the form of propaganda to help create the idea of a deadly virus that spreads easily and is deadly. Thus, a government can be held accountable because the propaganda created to increase panic and fear would be very questionable, and it would be difficult to assume the government itself is not leading the propaganda efforts to increase fear throughout the world.

→ This type of weaponization is the type that the current iteration of COVID-19 has, and China appears to have leveraged propaganda to increase fear throughout the world as well as gain an advantageous economic position in relation to its business relationships with the world. In some cases, China even tried to appear to be the savior of certain countries, namely Italy, and a few others.

→ So something about COVID-19 during the initial stages made China launch a propaganda campaign. I am still not too sure why this happened on a geopolitical scale other than they were actually trying to obfuscate the origins of COVID-19.

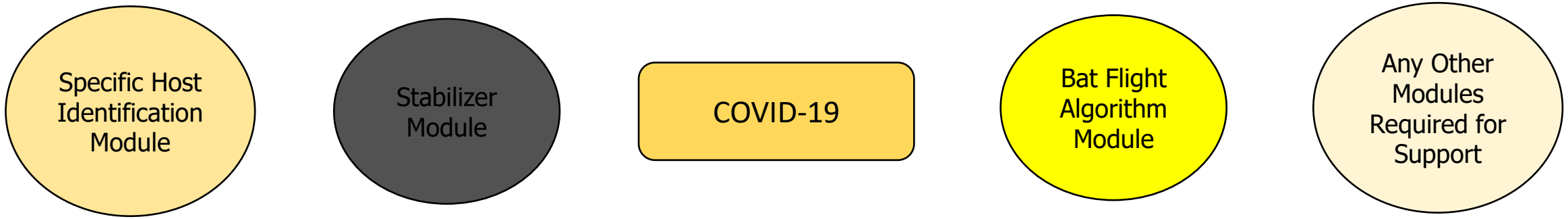
→ I would not exactly call this version of COVID-19 a bioweapon. This version of COVID-19 appears to have been more of a political weapon than an actual bioweapon. You could argue the pandemic was weaponized to try to achieve a certain political outcome in an American election. However, the version of COVID-19 that the world is seeing, is the non-laboratory version that has possibly been influenced, altered, or weakened by sunlight as well as environmental elements.

COVID-19

Reverse-Engineering COVID-19 to Recreate Any Weaponization Abilities - Weapon Version #2

→ COVID-19 Version #2 is an improved version.

→ **In progress!**

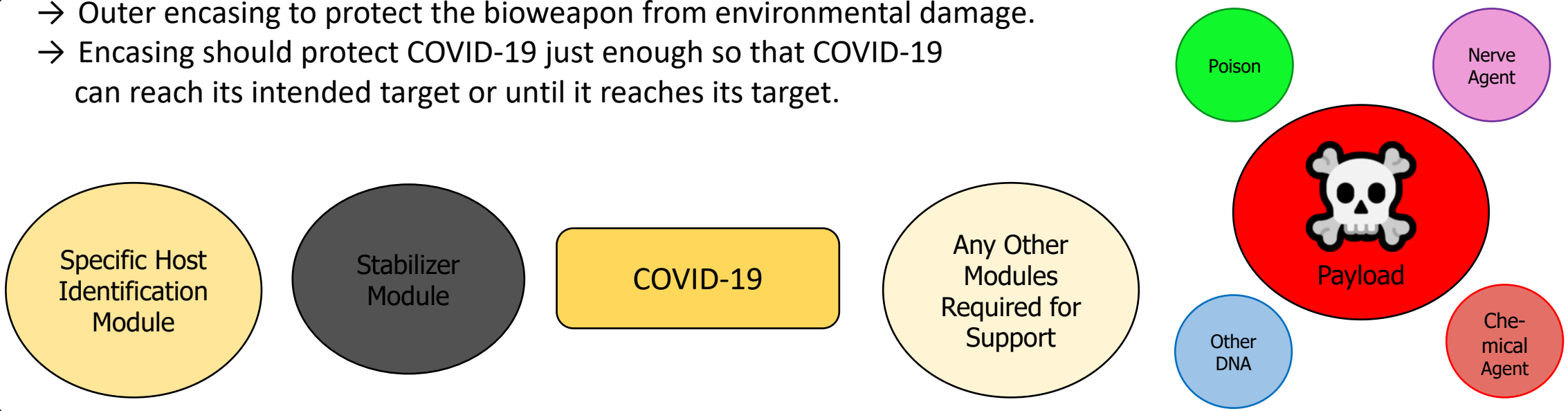


Reverse-Engineering COVID-19 to Recreate Any Weaponization Abilities - Weapon Version #3

→ COVID-19 can be repurposed as a bioweapon after some research and modification. This version of COVID-19 assumes the ability to carry an extra payload is added to COVID-19. The ability to survive in a non-laboratory setting will also be required of COVID-19.

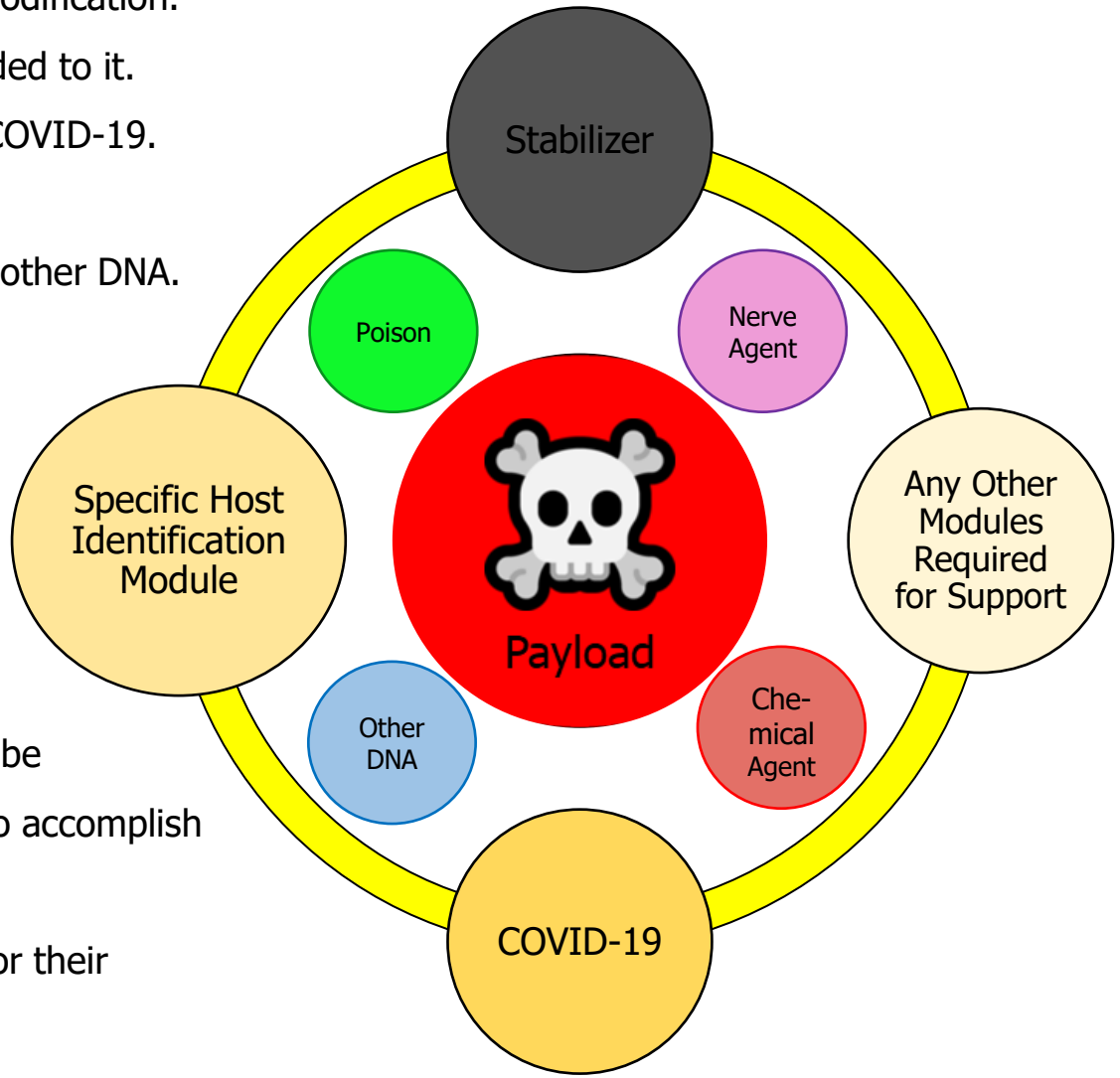
→ Depending on the usage required of this version of COVID-19, the payload would be some type of chemical or nerve agent or poison or other type of DNA. The bioweapon would have to be ordered in such a way that the payload is the last module to execute inside the host body. For added security, it should be possible to structure the payload so that it does not engage in the host body if certain requirements are not met.

→ Outer encasing to protect the bioweapon from environmental damage.
→ Encasing should protect COVID-19 just enough so that COVID-19 can reach its intended target or until it reaches its target.



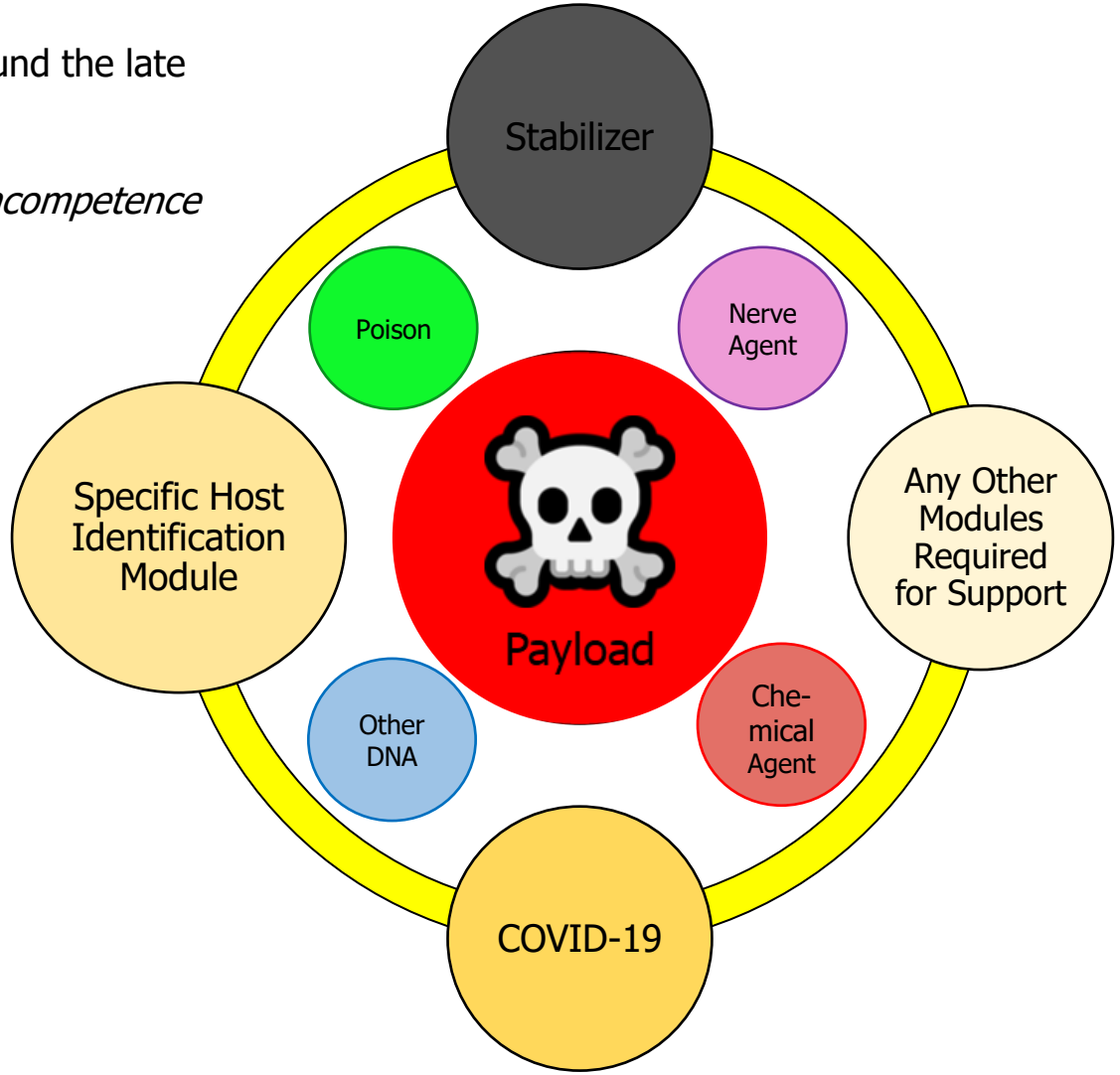
Reverse-Engineering COVID-19 to Recreate Any Weaponization Abilities - Weapon Version #3

- → COVID-19 can be repurposed as a bioweapon after some research and modification.
- → COVID-19 Version #3 assumes the ability to carry an extra payload is added to it.
- → The ability to survive in a non-laboratory setting will also be required of COVID-19.
- → Depending on the usage required of this version of COVID-19, the payload would be some type of chemical or nerve agent or poison or other DNA.
- → The bioweapon would have to be structured in such a way that the payload is the last module to execute inside the host body.
- → For added security, it should be possible to structure the payload so that it does not engage in the host body if certain requirements are not met.
- → The ideal payload should be something discreet that would not arouse suspicion. If suspicion is aroused, propaganda campaigns would possibly be required to obfuscate what the bioweapon is actually doing. China tried to accomplish this part. They failed in this regard.
- → China went so far as to invoke racism if anyone questioned their actions or their rhetoric during the initial stages of the pandemic.



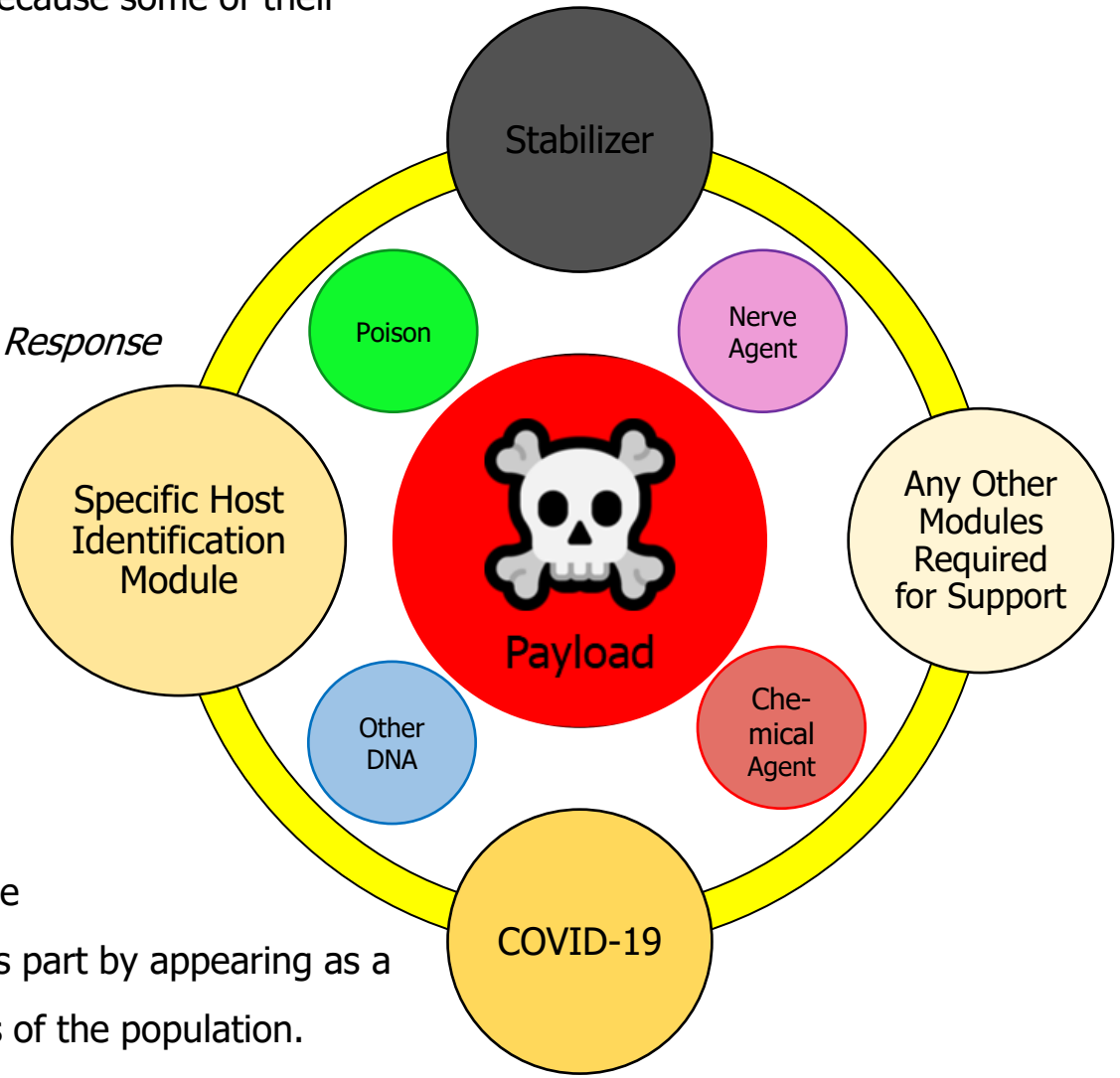
Reverse-Engineering COVID-19 to Recreate Any Weaponization Abilities - Weapon Version #3

- → China invokes racism as a defense against President Trump.
- → The source below does not have a visible date, but it should be from around the late February to early March timeframe.
- → Source: *China to Trump: Racism is not the right tool to cover your own incompetence* *https://panatimes.com/china-to-trump-racism-is-not-the-right-tool-to-cover-your-own-incompetence*
- → In an interesting move, China tried to blame the origins of COVID-19 on the U.S. Army. The article below is an opinion piece from 3/16/2020.
- → Source: *Expel China's ambassador over coronavirus lies* https://www.washingtonexaminer.com/opinion/expel-chinas-ambassador-over-coronavirus-lies
- → Source: *Trump is 'Racist' For Blaming Beijing For Coronavirus* https://summit.news/2020/03/18/hilary-clinton-amplifies-chinese-propaganda-that-trump-is-racist-for-blaming-beijing-for-coronavirus/



Reverse-Engineering COVID-19 to Recreate Any Weaponization Abilities - Weapon Version #3

- → China invoking racism during the initial stages of the pandemic is ironic because some of their actions in their home country can be viewed as racist, if not worse.
- → Source: *Racism Is Alive and Well in China* *https://thediplomat.com/2020/04/racism-is-alive-and-well-in-china/*
- → China persecutes certain groups based on their religious affiliations.
- → Source: *Worsening Religious Persecution in China Requires Stronger U.S. Response* https://freedomhouse.org/article/worsening-religious-persecution-china-requires-stronger-us-response
- → China has been shown to operate internment camps to hold certain segments of the population.
  Source: *China's Repression of Uighurs in Xinjiang* *https://www.cfr.org/backgrounder/chinas-repression-uighurs-xinjiang*
- → The ideal payload should blend in naturally with any health issues the human body may experience due to naturally occurring elements in nature such as viruses. The current iteration of COVID-19 tries to accomplish this part by appearing as a respiratory virus that can have severe consequences for certain segments of the population.



COVID-19 Weaponization Issues to Consider

→ Based on my hypothetical model of COVID-19, we have seen that it has a preference for certain people in the population because these people possess certain characteristics.

→ We assume that COVID-19 is performing this ability for two reasons:

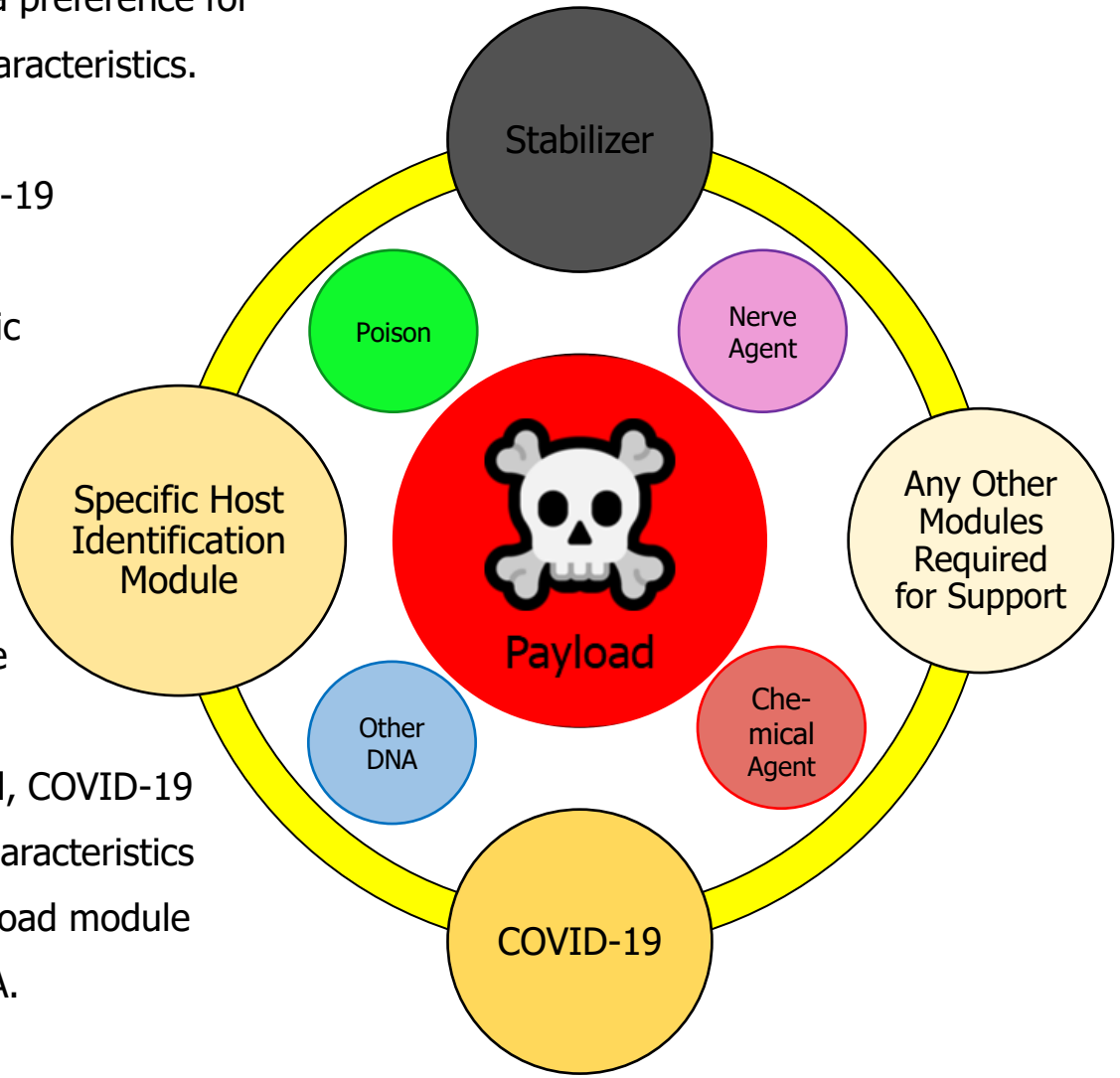
1. COVID-19 was designed or modified in a laboratory setting and COVID-19 somehow exited the laboratory setting.

2. COVID-19 is missing a module to identify a specific host using a specific DNA sample that is provided before COVID-19 is launched.

→ However, even if COVID-19 had a module in place to identify a specific host, some precautions would need to be taken to ensure that once COVID-19 is launched to find a specific host, COVID-19 only identifies and targets the intended host. This type of ability would require extensive refinement.

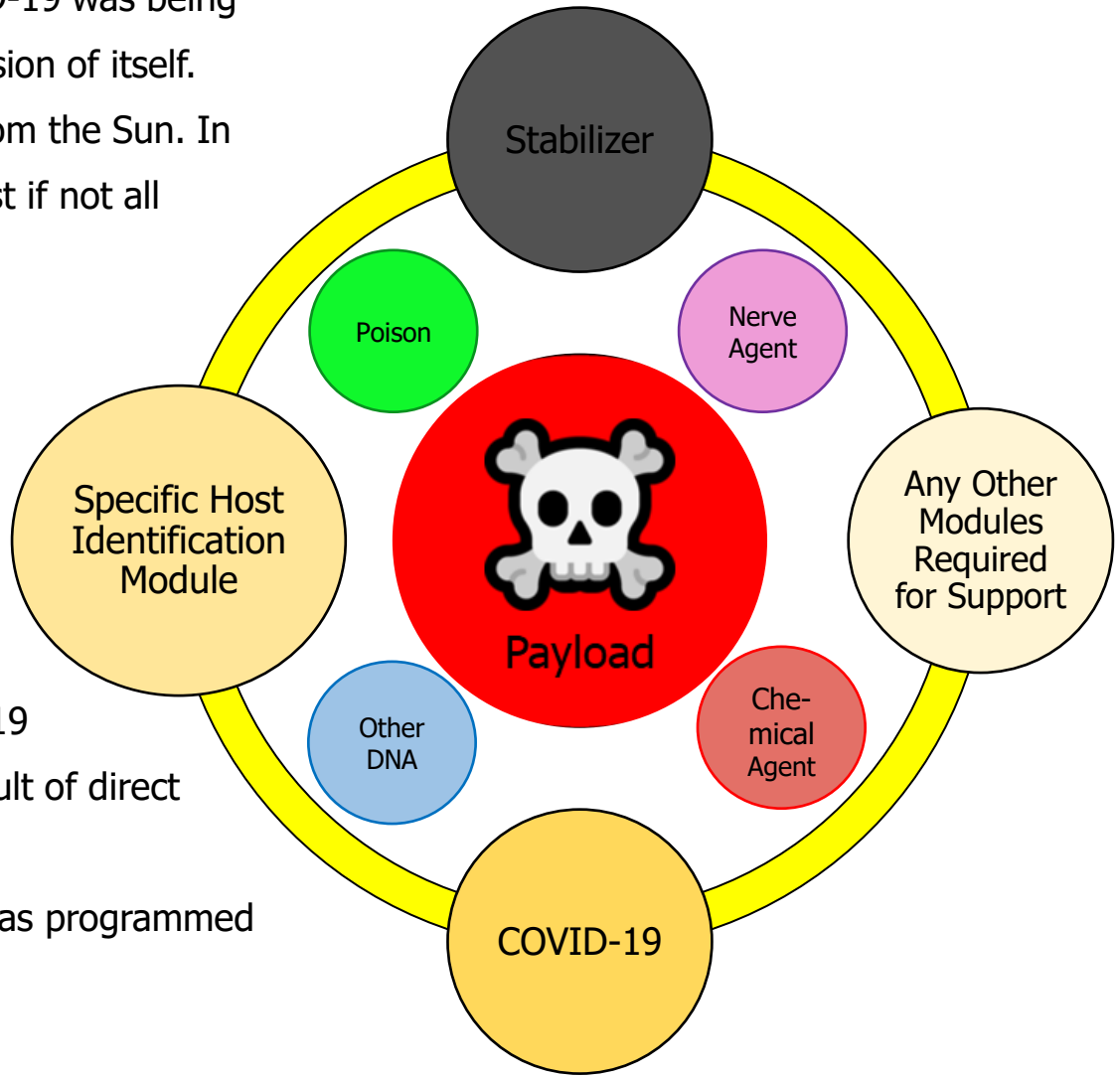
→ If COVID-19's ability to target a specific host is not fine tuned and refined, COVID-19 could default to identifying and infecting other hosts that have familiar characteristics conducive to its survival. This would be really bad if COVID-19 has a payload module in it to deliver the poison or chemical or nerve agent or other type of DNA.

→ What do I mean by saying COVID-19 could default?



COVID-19 Weaponization Issues to Consider

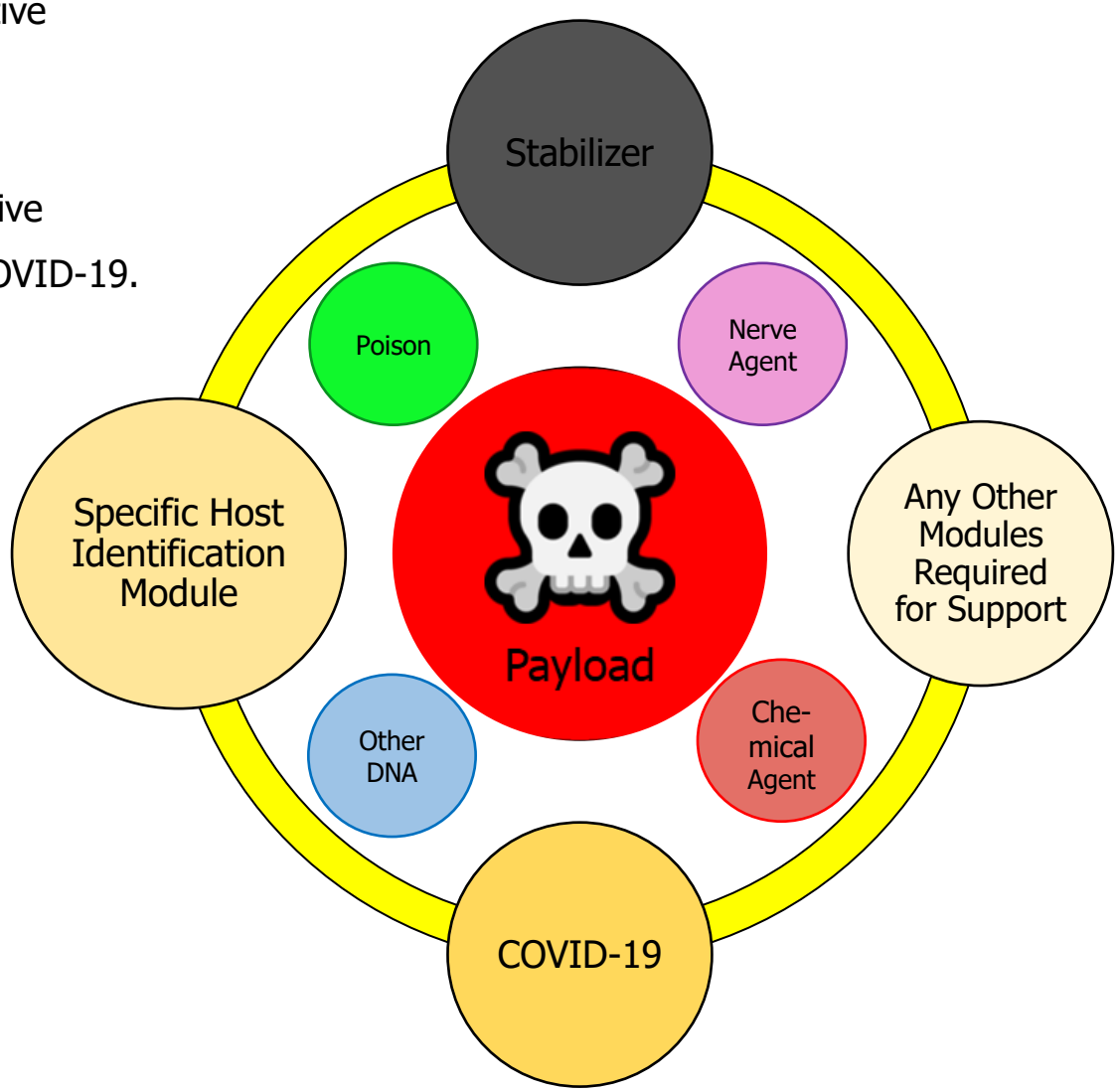
- → Assuming COVID-19 did exit from a biolab in China, and assuming COVID-19 was being modified in the laboratory, it could have exited as a slightly stabilized version of itself.
- → The problem with COVID-19 is that it was in a laboratory setting away from the Sun. In the laboratory setting, COVID-19 could function as intended because most if not all variables of the experiment are controlled to a certain extent.
- → If appropriate measures are not taken when working with something like COVID-19, it could have unintended consequences when introduced to a non-laboratory setting.
- → In COVID-19's case, this setting was the outside world, this would be our world, and one of the many variables of the outside world that could alter COVID-19's behavior is natural sunlight.
- → Given COVID-19's behavior under direct sunlight, it appears that COVID-19 has been altered or modified to its default behavioral tendencies as a result of direct exposure to sunlight.
- → The default behavioral tendencies are behavior patterns that COVID-19 has programmed into its bat DNA through many years of evolution.



COVID-19 Weaponization Issues to Consider

→ Defaulting to programmed behavior patterns of survival could have negative consequences, if COVID-19 is modified to have a Payload module.

→ If the current iteration of COVID-19 had a Payload module with a poison, for example, inside of it, it could have consequences that are more negative than the consequences that have resulted from the current iteration of COVID-19.

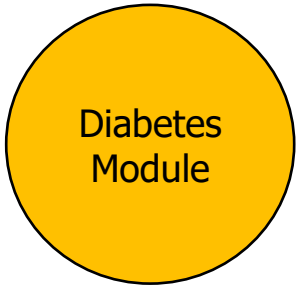


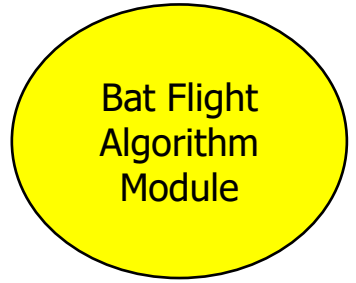
COVID-19 Unfinished Diabetes Treatment

→ COVID-19 has a unfinished potential diabetes treatment or cure within its current iteration.

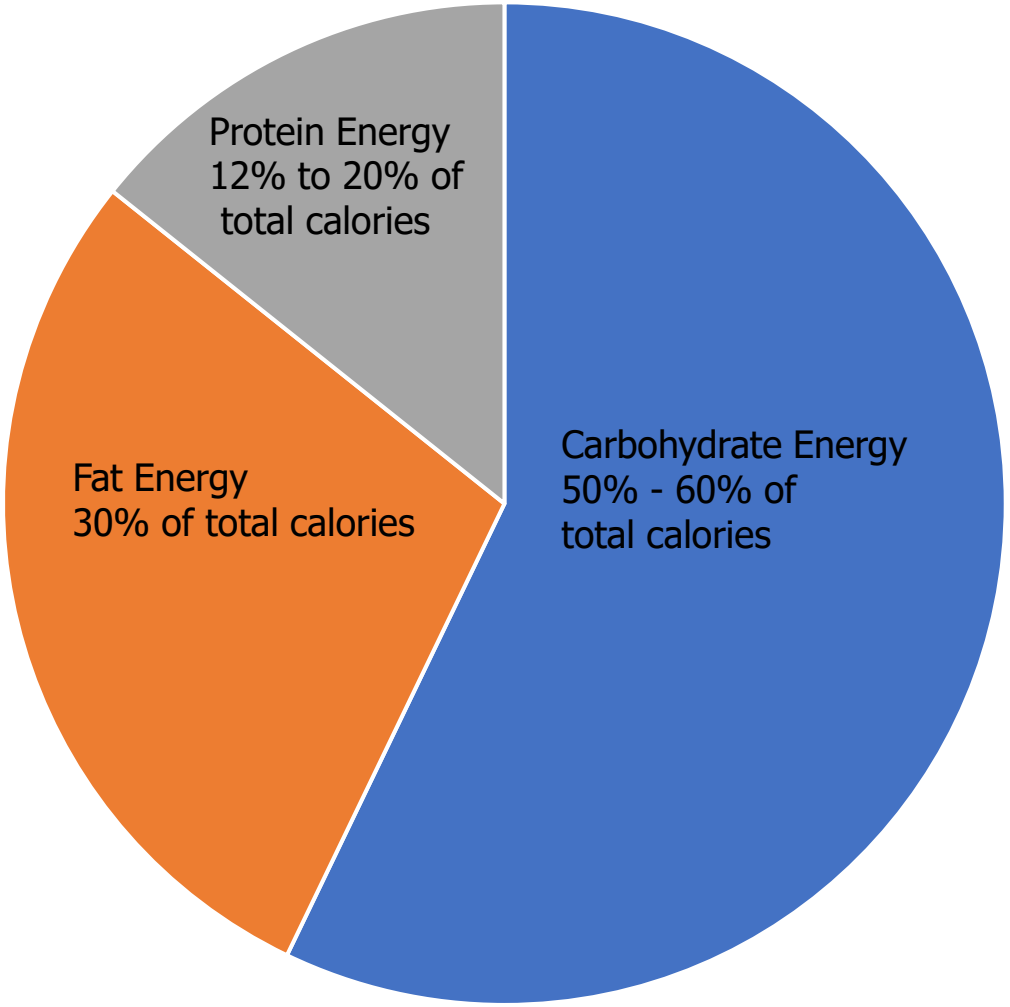
→ The Diabetes module will operate in parallel with the Bat Flight Algorithm.

→ **In progress!**





General Information: Sources of Energy for Humans



Humans have Three Sources of Energy

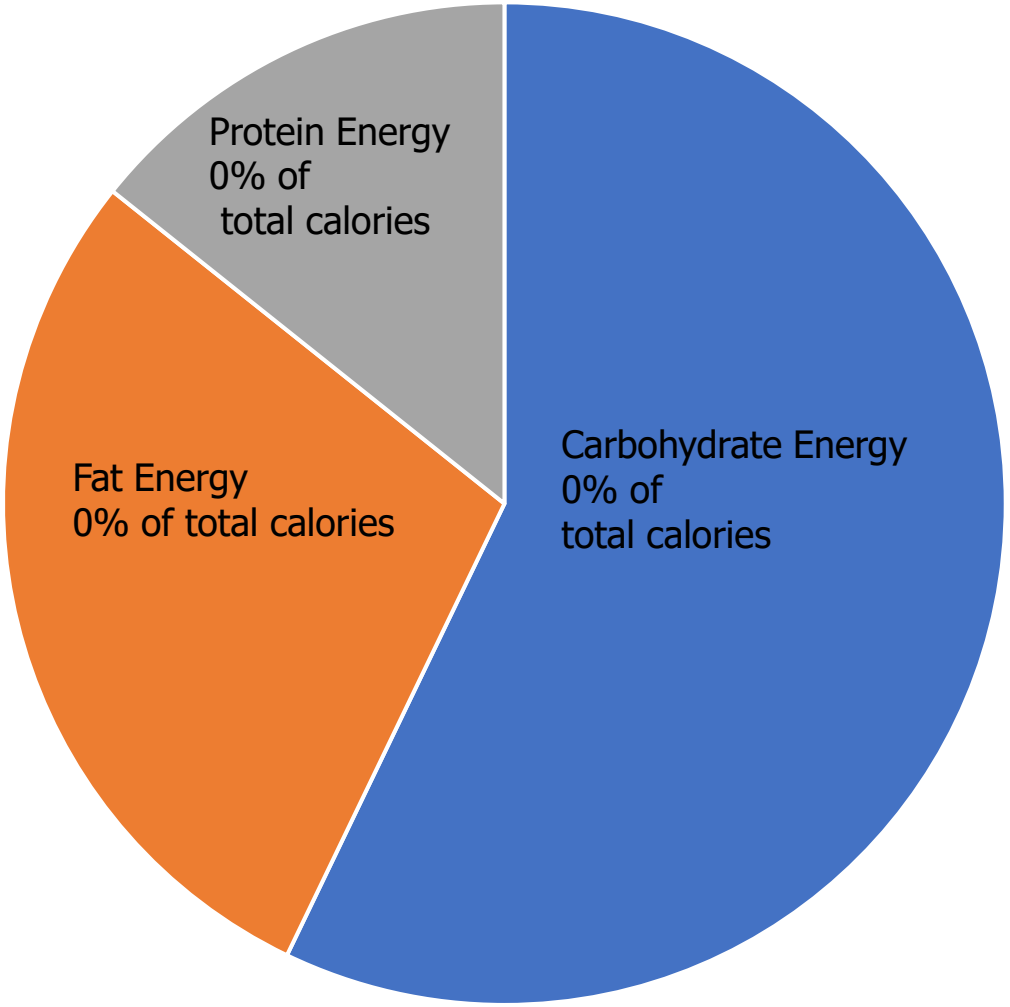
→ Carbohydrates (carbs): give the human body energy it can use immediately. Extra carbs are stored in the liver as glycogen. They are released when the body needs it. Too many carbs can result in fat accumulation. Body changes 100% of carbs into glucose.

→ Proteins: the body needs protein for growth, maintenance, and energy. Protein is used mainly by the muscles.

→ Fats: give the body energy as well, but only 10% is changed into glucose. Alone, it does not impact blood sugar levels much. Fat eaten with carbs can slow the rise in blood sugar. Fat also slows down digestion. It can keep blood sugar levels higher for longer periods of time.

Source:
https://wa.kaiserpermanente.org/healthAndWellness?item=%2Fcommon%2FhealthAndWellness%2Fconditions%2Fdiabetes%2FfoodBalancing.html

General Information: Sources of Energy for Bats



Bats as Mammals have Three Sources of Energy

In progress. The amount of fats, protein and carbohydrates that bats require for energy will differ from non-animal mammals.

→ Carbohydrates (carbs):

→ Proteins:

→ Fats:

General Information: Sources of Energy for Humans Cont.

How Humans Turn Food into Energy

→ All parts of the body need energy to work. The energy comes from food. The same can be said about bats, since they are living organisms classified as mammals.

→ The human body breaks down carbohydrates (sugars and starches) into another form of sugar, called glucose. The body absorbs glucose and releases it into the bloodstream.

→ Glucose can then be used immediately for energy or stored in our bodies for later use.

→ The body needs insulin to store glucose for energy. Without insulin, glucose stays in the bloodstream, thus, keeping blood sugar levels high. This will eventually result in diabetes if not corrected.

Insulin is a Hormone

→ Beta cells in the pancreas make insulin. They are sensitive to the amount of glucose in the bloodstream. Beta cells check blood-glucose levels every few seconds to determine if they need to speed up or slow down the production of insulin that is then released into the body.

→ When foods that are high in carbs are consumed, the glucose levels in the blood rise, and the beta cells trigger the pancreas to release more insulin into the bloodstream.

→ Insulin travels into the bloodstream to the body's cells, and signals to the body's cells to open up so that glucose can be let inside. Then, the glucose is converted into energy for use right then or stored for later use.

Source:
https://wa.kaiserpermanente.org/healthAndWellness?item=%2Fcommon%2FhealthAndWellness%2Fconditions%2Fdiabetes%2FfoodProcess.html

General Information: Sources of Energy: How Humans Turn Food Into Energy

How Humans Turn Food into Energy

→ All parts of the body need energy to work. The energy comes from food. The same can be said about bats, since they are living organisms classified as mammals.

→ The human body breaks down carbohydrates (sugars and starches) into another form of sugar, called glucose. The body absorbs glucose and releases it into the bloodstream.

→ Glucose can then be used immediately for energy or stored in our bodies for later use.

→ The body needs insulin to store glucose for energy. Without insulin, glucose stays in the bloodstream, thus, keeping blood sugar levels high. This will eventually result in diabetes if not corrected.

Insulin is a Hormone

→ Beta cells in the pancreas make insulin. They are sensitive to the amount of glucose in the bloodstream. Beta cells check blood-glucose levels every few seconds to determine if they need to speed up or slow down the production of insulin that is then released into the body.

→ When foods that are high in carbs are consumed, the glucose levels in the blood rise, and the beta cells trigger the pancreas to release more insulin into the bloodstream.

→ Insulin travels into the bloodstream to the body's cells, and signals to the body's cells to open up so that glucose can be let inside. Then, the glucose is converted into energy for use right then or stored for later use.

Source:
https://wa.kaiserpermanente.org/healthAndWellness?item=%2Fcommon%2FhealthAndWellness%2Fconditions%2Fdiabetes%2FfoodProcess.html

General Information: Sources of Energy: How Humans Turn Food Into Energy

How Humans Turn Food into Energy Cont. (Insulin)

→ As glucose moves from the bloodstream into the cell, blood sugar levels begin to drop. The body can sense this is happening, so it slows down the production of insulin and it also slows down the amount of insulin going into the bloodstream. Finally, the amount of glucose going into the cells also slows down.

→ The rise and fall of insulin happens many times throughout the full 24-hr day. When the body is working correctly, it can keep blood sugar levels normal, give or take a few rises and drops in blood sugar according to individual diet and individual physical activity such as exercise.

→ Insulin helps the body convert glucose into energy, and it helps the body store extra glucose for use later. Insulin also helps the body store fat and protein.

Diabetes Changes the Body's Insulin Usage

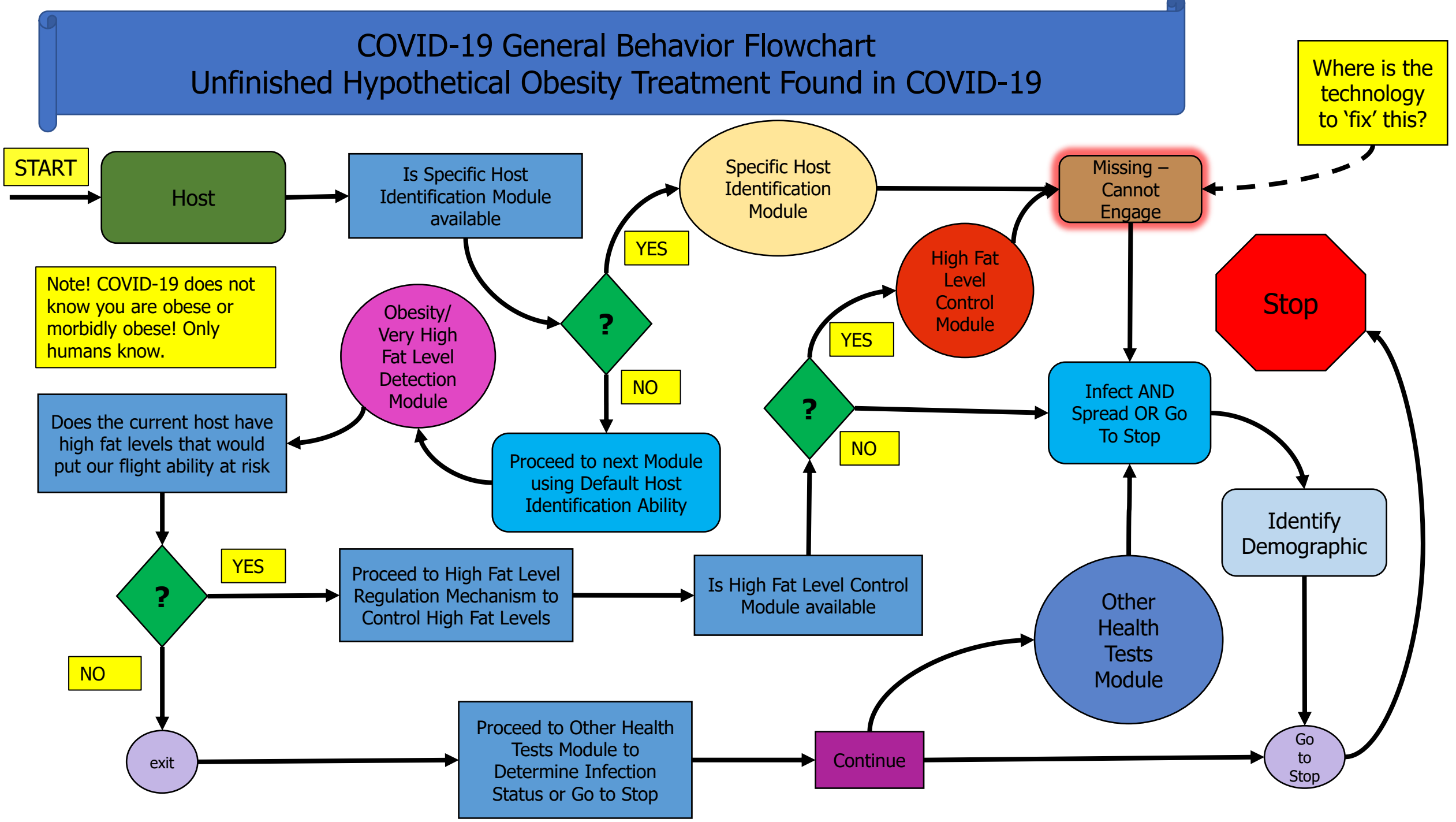
→ Diabetes means the body has stopped making insulin, slowed down the amount of insulin it is making, or is no longer able to use its insulin efficiently.

→ Glucose cannot enter the cells where it is required, so glucose levels in the bloodstream continue to rise, often resulting in high blood sugar levels.

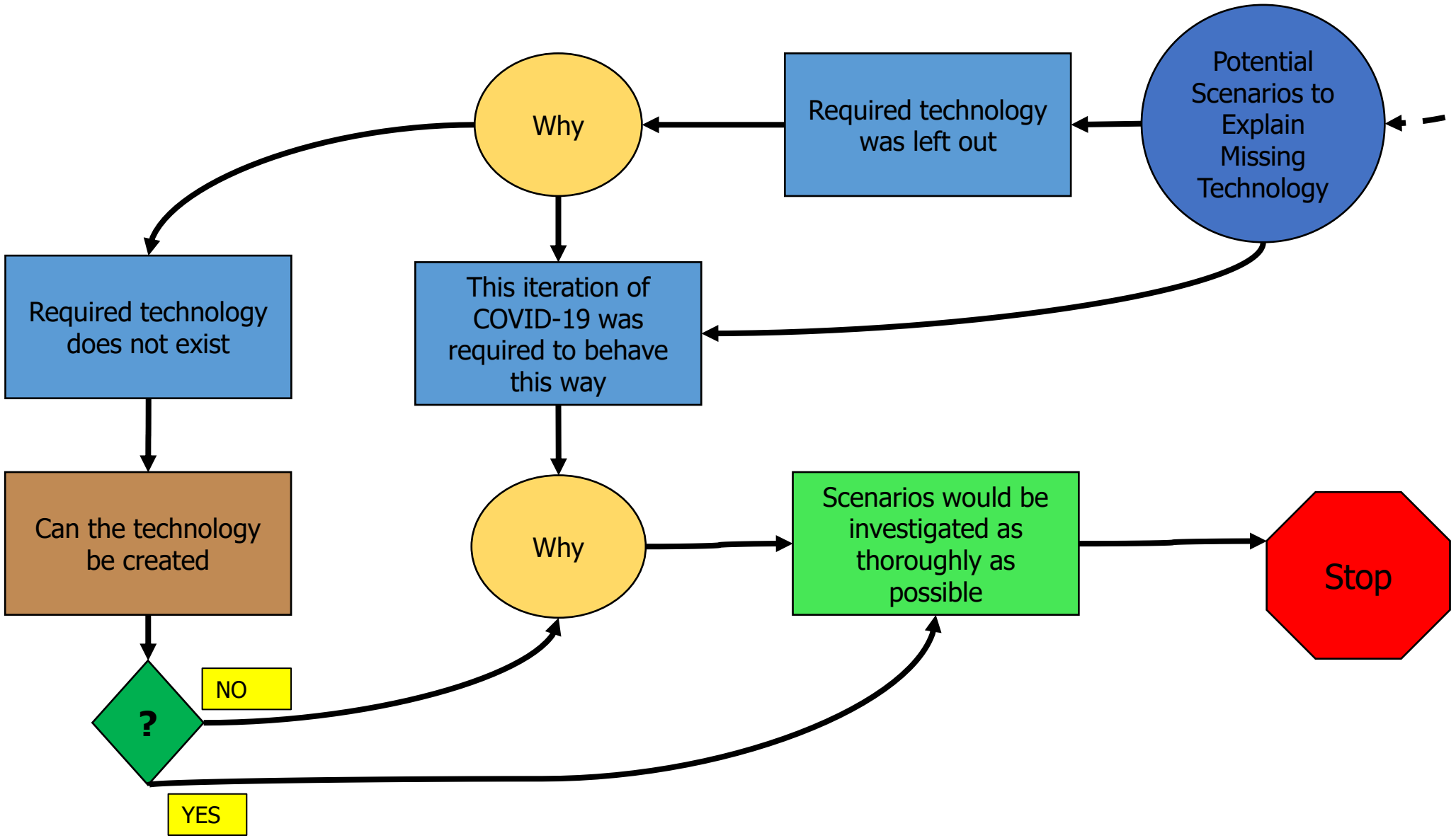
→ Type 1 diabetics need an insulin shot to control their blood sugar levels. Type 2 diabetics can usually control their blood sugar levels with diet, and exercise, but may require diabetes pills, insulin shots, or both as part of their diabetes care plan.

Source:
https://wa.kaiserpermanente.org/healthAndWellness?item=%2Fcommon%2FhealthAndWellness%2Fconditions%2Fdiabetes%2FfoodProcess.html

COVID-19 General Behavior Flowchart
Unfinished Hypothetical Obesity Treatment Found in COVID-19

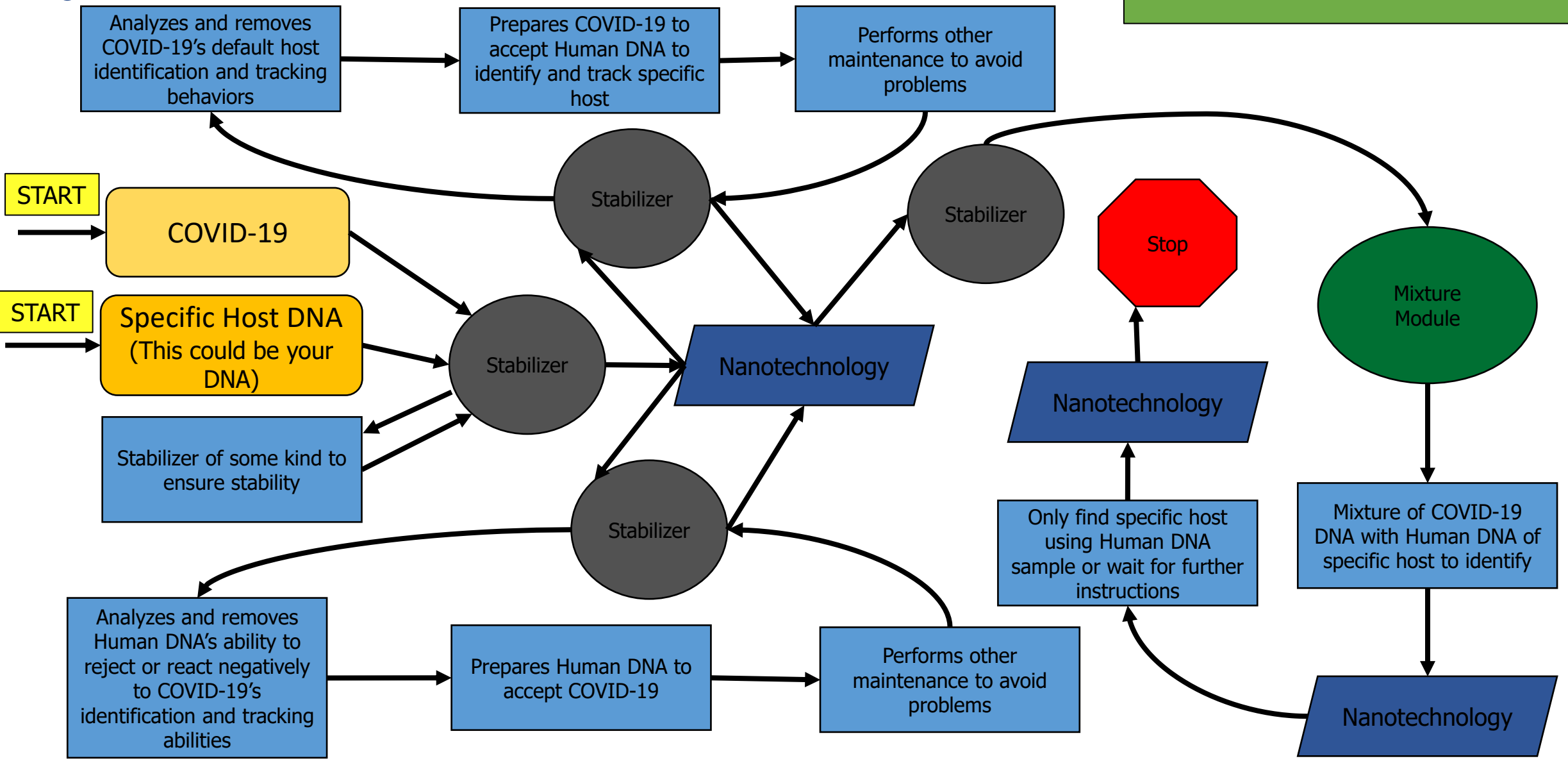


COVID-19 General Behavior Flowchart
Unfinished Hypothetical Obesity Treatment Found in COVID-19



Hypothetical Specific Host Identification Module Missing from COVID-19

COVID-19 appears to be missing this module. If it had this module, it could possibly identify specific hosts and possibly be controlled. This module alone has many applications!



Keyword Cloud

The keyword cloud of this study is a name that I use to organize all of the words that came to mind as I brainstormed about COVID-19's behavior. There may be other keywords that could belong inside the keyword cloud. The size of the keyword cloud may expand for more words or phrases.

- → anti-aging
- → anti-aging cocktails
- → bat genome
- → bat reproductive systems
- → bat research
- → bats
- → bats are mammals
- → biohacking
- → bloodwork test for healthy bats
- → bloodwork test for healthy humans
- → calcium
- → caves
- → echolocation
- → elderly
- → evolution
- → faint
- → fountain of youth
- → genes
- → genetics
- → genomes
- → growth hormone
- → hair restoration
- → hormone levels
- → hormones
- → human genome
- → human growth hormone
- → humans are mammals
- → immortality
- → live longer
- → mammals
- → mineral levels
- → Minerals
- → nanotechnology
- → nursing homes
- → output
- → pre-existing conditions
- → reproduce
- → reproductive hormones
- → restore young appearance
- → restore youthfulness
- → software
- → software differences
- → software similarities
- → sunlight
- → sunshine vitamins
- → survive
- → thyroid hormone
- → Vitamin D
- → vitamin levels
- → vitamins
- → zinc

COVID-19 Goals

→Survive – it is assumed that COVID-19 is trying to survive.
→Find a Familiar Environment – it is assumed that COVID-19 is searching for a familiar environment.
→Reproduce – it is assumed that COVID-19 wants to reproduce to increase the size of its species. It still thinks it is a bat when it is actually COVID-19. I do not think this aspect of the bat DNA can be unlearned, but maybe with nanotechnology, the behavior can be controlled.
→ We have to prevent COVID-19 from achieving its goals.
→ In this regard, I do not think COVID-19 will adapt to learn our strategy to try to defeat it because it is a non-aware entity.

COVID-19 Modules

→ People modules – modules shall serve to identify the people that COVID-19 infects.
→ Behavior modules – module shall contain the logic that COVID-19 uses to match bat behavior in its DNA with locations in the human host that it thinks can perform these behaviors.
→ Hormone Module – module shall contain the logic that COVID-19 uses to read the hormone levels of its host.
→ Vitamin and Mineral Module – module shall contain the logic that COVID-19 uses to read the vitamin and mineral levels of its host.
→ Other Health Problems Module – module shall serve to identify other health problems that increase the risk of COVID-19 infection.
→ There may be other modules. – reserved in the event other modules are required.

Virus Submodules

→ Elderly people – module to identify elderly people.
→ Non-elderly people – module to identify non-elderly people.
→ Young people – module to identify young people.
→ Teenagers – module to identify teenagers.
→ Children – module to identify children.
→ Young Children – module to identify young children.
→ There may be other submodules.

COVID-19's Behavior

→ COVID-19 does not appear to be aware.
→ COVID-19 appears to be relying on preprogrammed behavior by nature.
→ COVID-19 appears to be incapable of learning.
→ COVID-19 has not learned to infect non-elderly, young people, teenagers, children, and young children like it infected some elderly people. For the moment, I do not think COVID-19 will evolve.
→ COVID-19 has an aggressive preference for the elderly.
→ COVID-19 has an even more aggressive preference for diabetics.
→ COVID-19 has a slightly aggressive preference for cancer survivors. I'm not sure if this includes current cancer victims because a cancer survivor's body might differ from a current cancer victim's body on a molecular level. COVID-19 may be able to detect such a difference.
→ COVID-19 appears to have a special evolutionary ability to determine a viable host for infection. I believe COVID-19 may be able to detect hormone levels of viable host. It may be able to detect the levels of other elements, such as vitamin and mineral levels, of potential hosts.
→ By checking the hormone levels in the host, COVID-19 will reveal its preferred age group of infection.
→ By checking the vitamin and mineral levels of the host, COVID-19 will reveal its preferred age group of infection.
→ By checking for other medical conditions in the host, COVID-19 will reveal its preferred age group of infection as well as any other groups vulnerable to infection.
→ COVID-19 checks these elements using evolutionary mechanisms for survival. It has bat DNA; Bat DNA appears to be the dominant DNA in COVID-19.
→ Evolutionary mechanisms for survival are found in other species. Mice and sharks also use evolutionary mechanisms to ensure their survival.

COVID-19's Behavior

→ Male house mice, like many animals, produce volatile pheromones that influence the reproductive physiology and behavior of females.
Source: *Pheromones and social status: Macho mice smell better* https://phys.org/news/2019-03-pheromones-social-status-macho-mice.html
Source: *The Scent That Makes Mice Run Scared* https://www.sciencemag.org/news/2010/05/scent-makes-mice-run-scared
→ Sharks detect death scent of other sharks.
Source: *Live Sharks Repelled By Dead Ones* https://www.cbsnews.com/news/live-sharks-repelled-by-dead-ones/
→ COVID-19 is showing us that it prefers to infect very elderly people or very elderly diabetic people or some diabetic people. COVID-19 does not know who is diabetic nor does it know what elderly people look like.
→ COVID-19 appears to be using a special unidentified evolutionary mechanism to find suitable hosts. This is like the mechanism that sharks, and mice unknowingly use to their advantages.
→ COVID-19 appears to be using evolutionary mechanisms to return to a familiar environment, and therefore it appears to be infecting certain age groups.
→ What could this evolutionary mechanism be? It appears that it could be related to the natural protection of DNA from being artificially altered or forced to randomly or suddenly evolve.
→ With COVID-19, it appears the Chinese were trying to alter, or they did alter DNA.
→ Evidently, DNA, might have a protective mechanism against this type of sudden altering even in a scientific setting.
→This could explain COVID-19's erratic yet specific behavior of infecting the elderly population at higher rates than infecting young people and children.
→ I think the one key hormone that is shielding children from COVID-19 infection is growth hormone coupled with a few other factors related to their age. All of these factors combined, might also be shielding some non-elderly people and some young people.
→ Growth hormone levels between children and elderly are going to be starkly different. Growth hormone levels between children and adults will be different also, but not starkly different.

COVID-19's Behavior: Growth Hormone Connection

COVID-19's Behavior: Growth Hormone Connection

→Typical growth hormone levels for adult males are roughly between 0.4 to 10 nanograms per milliliter (ng/ml). This is less than women.

→Typical growth hormone levels for adult females are roughly between 1 to 14 nanograms per milliliter (ng/ml). This is more than men, but less than children. In the beginning stages of the pandemic, it was circulated online that more men than women were falling ill to COVID-19. The slightly higher growth hormone levels in women could explain why.

→Typical growth hormone levels for children are roughly between 10 to 50 nanograms per milliliter (ng/ml). This is higher than men and women.

Source: *Medline Plus Medical Encyclopedia Growth hormone test* https://medlineplus.gov/ency/article/003706.htm

A different source has the following typical growth hormone levels for men, women, and children:

→Men have less than 5 ng/ml. This is less than women and children.

→Women have less than 10 ng/ml. This is more than men, but less than children.

→Children have between 0 to 20 ng/ml. This is typically higher than women and men.

→Newborns have between 5 to 40 ng/ml. This is typically higher than children, women, and men.

Source: *Medscape Drugs & Diseases Laboratory Medicine Growth Hormone* https://emedicine.medscape.com/article/2089136-overview

→Growth hormone levels decline with age. The elderly population has significantly low levels of growth hormone.

Source: *Growth hormone and aging: A challenging controversy* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2682398/

COVID-19's Behavior: Bats and Growth Hormone

→ I could not find anything that explicitly listed the growth hormone levels of bats.
→ This is currently required. I will try to find a way to get this information.
→ We do know that certain bats have a mutation that changes how they respond to growth hormone.
Source: *Genome analysis reveals insights into physiology and longevity of the Brandt's bat Myotis brandtii* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3753542/
Source: *How Tiny Bats Can Help Us Extend Human Life* https://www.businessinsider.com/vampire-bat-genome-longevity-2013-8
→ From this mutation, we infer that bats have growth hormone in their bodies like humans have growth hormone in their bodies.

COVID-19's Behavior: Growth Hormone Connection

→ Growth hormone is responsible for cell growth. It stimulates the growth of essentially all tissues of the body, including bone.
Source: *Growth hormone* https://www.britannica.com/science/growth-hormone

→ Since growth hormone stimulates cell growth, and bats are required to fly to eat food or they risk dying out from starvation, and bats possess growth hormone, bats would need an evolutionary mechanism to allow them to use the benefits of growth hormone without increasing their size.

→ I think this mechanism is in the form of a mutation that bats have related to growth hormone and insulin-like growth-factor 1 receptors.

→ This mutation, along with a few other factors, may give bats their ability to have exceptional lifespans.
Source: *Genome analysis reveals insights into physiology and longevity of the Brandt's bat Myotis brandtii* https://www.nature.com/articles/ncomms3212
Source: *The World Goes Bats: Living Longer and Tolerating Viruses* https://www.cell.com/cell-metabolism/pdf/S1550-4131(20)30314-4.pdf

→ Bats are well known for their long lifespans.

→ Further, growth hormone is known as an anti-aging hormone. However, this topic is currently wildly debated. Some scientists say that growth hormone has no anti-aging benefits, while proponents say that growth hormone does offer anti-aging benefits.
Source: *Human growth hormone (HGH): Does it slow aging?* https://www.mayoclinic.org/healthy-lifestyle/healthy-aging/in-depth/growth-hormone/art-20045735
Source: *Growth hormone and aging: A challenging controversy* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2682398/

→ However, bats with their unique mutation related to growth hormone receptors, appear to have been able to harness the longevity effects of growth hormone without harnessing the cell growth properties of growth hormone. I believe bats achieved this ability using evolutionary mechanisms.

COVID-19's Behavior: Growth Hormone Connection

→If the bat mutation is not the cause of this unique ability that bats have, then bats might have very low levels of growth hormone compared to humans, and these low levels in bats might be close in range to the growth hormone levels of the elderly population.
→The potential low growth hormone levels of bats might be what causes them to remain small but might also contribute to their relatively long lifespan.
→COVID-19, with its preference for the elderly, and its 'distaste' for children, might indicate that its DNA was extracted from very old and relatively unhealthy bats. It has found a familiar host environment in the elderly population because this is the type of environment that is familiar to it.

COVID-19's Behavior: Diabetes and COVID-19 - Why the focus on relatively unhealthy bats?

→I decided to focus on relatively unhealthy bats because the Coronavirus has been infecting specific groups of the population. These are the elderly, population or people that have other medical conditions.
→Elderly people and people that have other medical conditions, often through no fault of their own, might be unhealthy due to their current situational circumstances.
→The elderly are in a position or situation in life that prevents them from receiving proper medical care. This could contribute to creating an unhealthy host environment that COVID-19 could easily infect.
→The same can be said about people that have other medical conditions that make them vulnerable to COVID-19 infection.
→Based on COVID-19's aggressive preference for the elderly and its similarly aggressive preference for some people such as diabetics, it appears that COVID-19 is searching for and infecting host that are familiar to the environment it was extracted from. This environment appears to be elderly bats. The elderly bats could have had medical conditions that made them relatively unhealthy when compared to other bats such as their younger counterparts.
→Alternatively, many animals including bats are used to research potential cures for various ailments that afflict humans. One such ailment is diabetes.

Source: *BATS CAN HAVE THEIR CAKE AND EAT IT*, Journal of Experimental Biology https://jeb.biologists.org/content/215/5/v.2

COVID-19 General Behavior Flowchart Before COVID-19's Brain Discovered

COVID-19's Behavior: Diabetes and COVID-19 - Why the focus on relatively unhealthy bats? (cont.)

→Diabetic people may experience various symptoms associated with diabetes. There are various types of diabetes. However, one thing is common with diabetics and diabetes: diabetes can result in your blood having excess sugar.
Source: *Diabetes*, Mayo Clinic https://www.mayoclinic.org/diseases-conditions/diabetes/symptoms-causes/syc-20371444

→Excess sugar in the blood can also be called high blood sugar.

→High blood sugar levels occur when the body cannot make insulin such as is the case for type 1 diabetes.

→high blood sugar levels also occur when the body cannot respond to insulin properly, such as is the case for type 2 diabetes.
Source: *When Blood Sugar Is Too High*, TeensHealth https://kidshealth.org/en/teens/high-blood-sugar.html

→Thus, it is safe to conclude that diabetes will result in people experiencing high blood sugar levels.

→According to the *Journal of Experimental Biology*, some bats such as nectar-feeding bats, have a high sugar diet and this diet results in these animals having high blood sugar levels. Despite the high sugar levels experienced by these types of bats, they do not experience detrimental sugar-related health problems, and they are exceptionally long lived. That is, they have a long lifespan (for their size).
Source: https://jeb.biologists.org/content/215/5/v.2

→We know bats are mammals and we know humans are mammals.

→We know that humans with diabetes have high blood sugar levels.

→We know that some bats also experience high blood sugar levels, but they do not experience the negative consequences associated with high blood sugar levels.

→COVID-19 appears to have bat DNA. COVID-19 also can easily infect humans using a certain mechanism that makes it easily transmissible. This aspect of COVID-19's behavior is still being researched.

→However, COVID-19 may prefer infecting diabetic hosts because its components related to bat DNA may be able to detect high blood sugar levels in humans. It might be doing this on a molecular level.

→Upon detecting these levels, COVID-19 may recognize a familiar environment to the one where it was extracted from, so it decides to infect the host.

→Since COVID-19 is unaware of whom it is infecting, its behavior is based on many years of evolutionary experience.

COVID-19 General Behavior Flowchart Before COVID-19's Brain Discovered

COVID-19's Behavior: Diabetes and COVID-19 - Why the focus on relatively unhealthy bats? (cont.)

→That experience has preprogrammed COVID-19 to search for a high blood sugar level environment because this is one of the types of environments that could be conducive to its survival. COVID-19 behaves this way because in detecting a high blood level environment, the bat DNA in COVID-19 probably 'thinks' it has found a bat host when it has actually found a human host to infect. Unfortunately, the human hosts that COVID-19 infects tend to be humans with diabetes. This problem is compounded when the infected diabetic person is also elderly.

COVID-19's Behavior: Diabetes, Flight, and Bats

→Flying is beneficial to bats. Flying allows bats to obtain food as they fly to various locations in search of things to eat.

→ Some researchers believe that bats can survive with high blood sugar levels because they can fly.

Source: *BATS CAN HAVE THEIR CAKE AND EAT IT*, Journal of Experimental Biology https://jeb.biologists.org/content/215/5/v.2

→ Bats are the only mammals that can fly. Bats have unique abilities related to flight that allows them to generate different wing shapes and motions that other animals cannot.

Source: *Bats In Flight Reveal Unexpected Aerodynamics*, Science Daily https://www.sciencedaily.com/releases/2007/01/070118161402.htm

→Flying is the most energetically expensive way to get around, but bats appeared to have evolved to meet its challenges because a bat's body, when skinned, reveals that it is predominantly comprised of shoulder and chest muscles.

Source: *Newly discovered bats are related to those associated with the pandemic* https://www.cnn.com/2020/04/22/world/leaf-nosed-bats-discovery-scn/index.html

→Flying is a very taxing ability with a large amount of benefits aimed specifically at helping bats tolerate high blood sugar levels without any detrimental problems.

→Researchers have speculated that certain bats have evolved physiological tolerances to glucose that allows these animals to avoid the negative consequences of high sugar diets, and the shorter lifespan typically associated with it.

Source: *BATS CAN HAVE THEIR CAKE AND EAT IT*, Journal of Experimental Biology https://jeb.biologists.org/content/215/5/v.2

COVID-19 General Behavior Flowchart Before COVID-19's Brain Discovered

COVID-19's Behavior: Diabetes, Flight, and Bats (Cont.)

→The researchers appear to be correct in believing bats have certain advantages that help them not experience negative effects typically associated with high blood sugar level environments.

→For example, bats typically have very little fat, and are mostly shoulder and chest muscles. Shoulder and chest muscles will require energy for maintenance at the cellular level to remain healthy and active.
Source: *What Is The Role Of Glucose In Cellular Respiration?* https://diabetestalk.net/blood-sugar/what-do-animals-use-glucose-for

→Since bats have very little fat, and they must remain light in order to fly, they must have evolutionary mechanisms to lose weight quickly. Apart from having special adaptive abilities to high blood sugar levels, bats often eat very fast to burn up energy, and they also frequently defecate to lose excess weight. This could be the reason that overweight people or obese people could be at greater risk to COVID-19 infection because if COVID-19, using evolutionary mechanisms, is able to detect an excess amount of fat, it could behave very strongly inside the human host. This could cause problems for the human host.

→ We know that bats are mammals. Mammals use Their muscles must be ready for sudden flight all the time either to escape predators or to hunt for food.

→Bats not only have to have the blood sugar levels to maintain their muscles; they must have their blood sugar levels with enough energy to perform the taxing ability of flying as well as flying for long distances.

→ Bats do not have a choice in these matters because they cannot risk dying out. Further, bats must be able to fly for long distances on some occasions.

→Bats do not have the option of using fat for energy the way humans do. Humans have multiple sources for potential energy the body can use. One source is carbohydrates. This is the body's chief source of energy.

→Humans also have the option of using fat for energy, when carbohydrate energy is not readily available. Bats do not have the option of using fat for energy when their main source of energy becomes unavailable. Thus, from an evolutionary standpoint, it would make sense that they compensate for their lack of multiple energy sources by having one large main energy source, that would be, high blood sugar levels.

COVID-19 General Behavior Flowchart Before COVID-19's Brain Discovered

COVID-19's Behavior: Diabetes, Flight, and Bats (Cont.)

→However, we know that high blood sugar levels are dangerous and can cause diabetes in humans. Bats would also need evolutionary mechanisms to prevent the development of diabetes due to elevated blood sugar levels.

→The ability to fly, coupled with a few other factors appear to be what could prevent bats from developing diabetes even though they have high blood sugar levels. The ability to fly just requires so much energy, coupled with the energy requirement to just maintain muscles, then evolutionary mechanisms could allow for bats to have high blood sugar levels because they ensure the bats survival as a species.

→We know that bats are mammals. Mammals use Their muscles must be ready for sudden flight all the time either to escape predators or to hunt for food.

→Bats not only have to have the blood sugar levels to maintain their muscles; they must have their blood sugar levels with enough energy to perform the taxing ability of flying as well as flying for long distances.

→ Bats do not have a choice in these matters because they cannot risk dying out. Further, bats must be able to fly for long distances on some occasions.

→Bats do not have the option of using fat for energy the way humans do. Humans have multiple sources for potential energy the body can use. One source is carbohydrates. This is the body's chief source of energy.

→Humans also have the option of using fat for energy, when carbohydrate energy is not readily available. Bats do not have the option of using fat for energy when their main source of energy becomes unavailable. Thus, from an evolutionary standpoint, it would make sense that they compensate for their lack of multiple energy sources by having one large main energy source, that would be, high blood sugar levels.

COVID-19 General Behavior Flowchart Before COVID-19's Brain Discovered

COVID-19's Behavior: Diabetes, Flight, and Bats (Cont.)

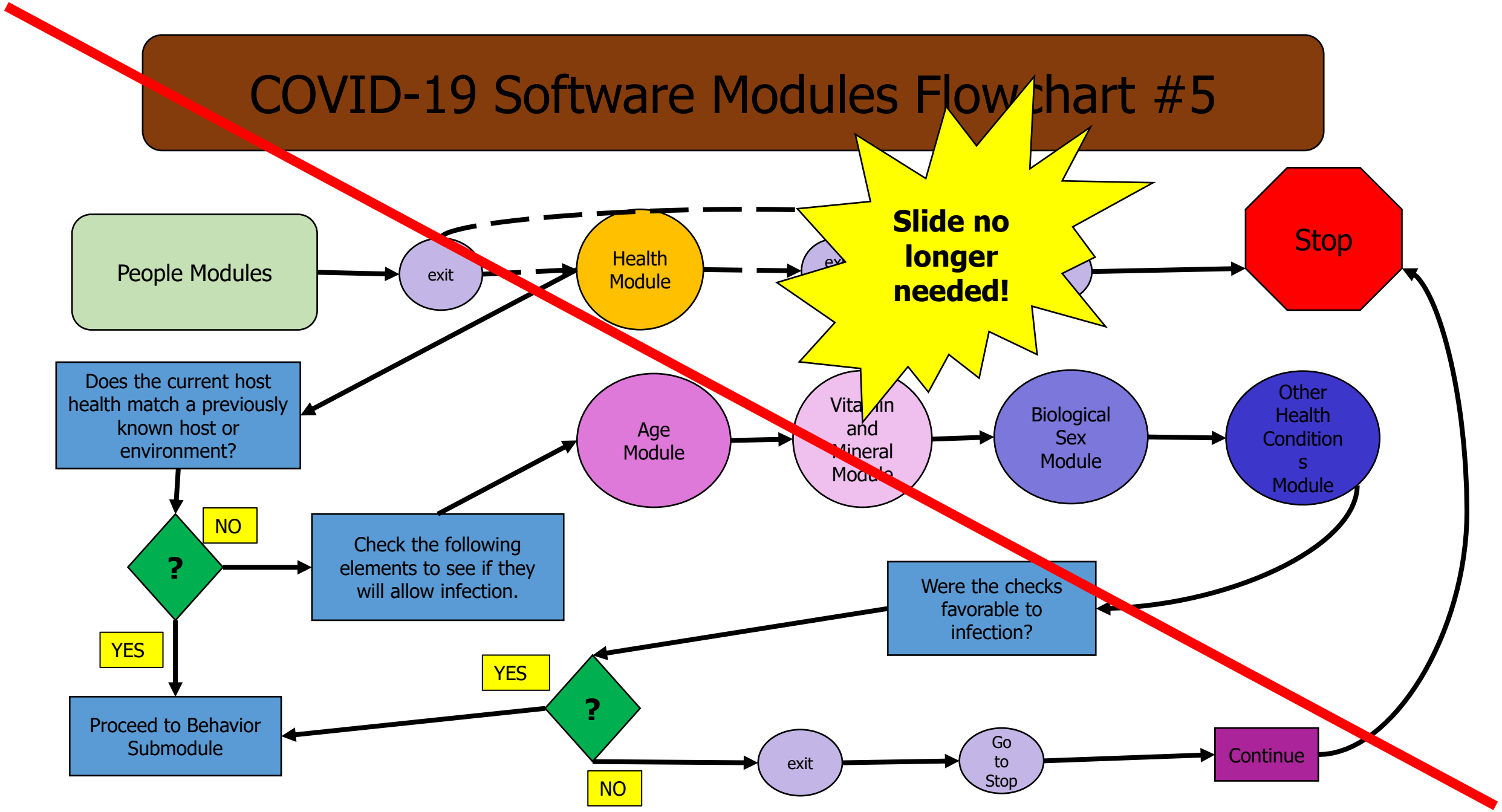
→Argument by analogy.
Source: Argument by Analogy , Wikipedia https://en.wikipedia.org/wiki/Argument_from_analogy
→Bats are mammals.
→Humans are mammals.
→Bat wings are very similar to human hands with a few extra bones.
→Bats have special evolutionary mechanisms that help them tolerate, and possibly require high blood sugar levels for survival.
→Humans experience high blood sugar levels, and often develop diabetes as a result of this condition.
→Humans do not have special evolutionary mechanisms to allow them to tolerate high blood sugar levels.
→Since bats and humans are mammals, and they share some characteristics, perhaps bats can be used as a cure for diabetes.
→How does nanotechnology fit into this cure?
→The nanotechnology, depending on its capabilities, would have to simulate the effects of bat flight inside a human, to then control the blood sugar levels.

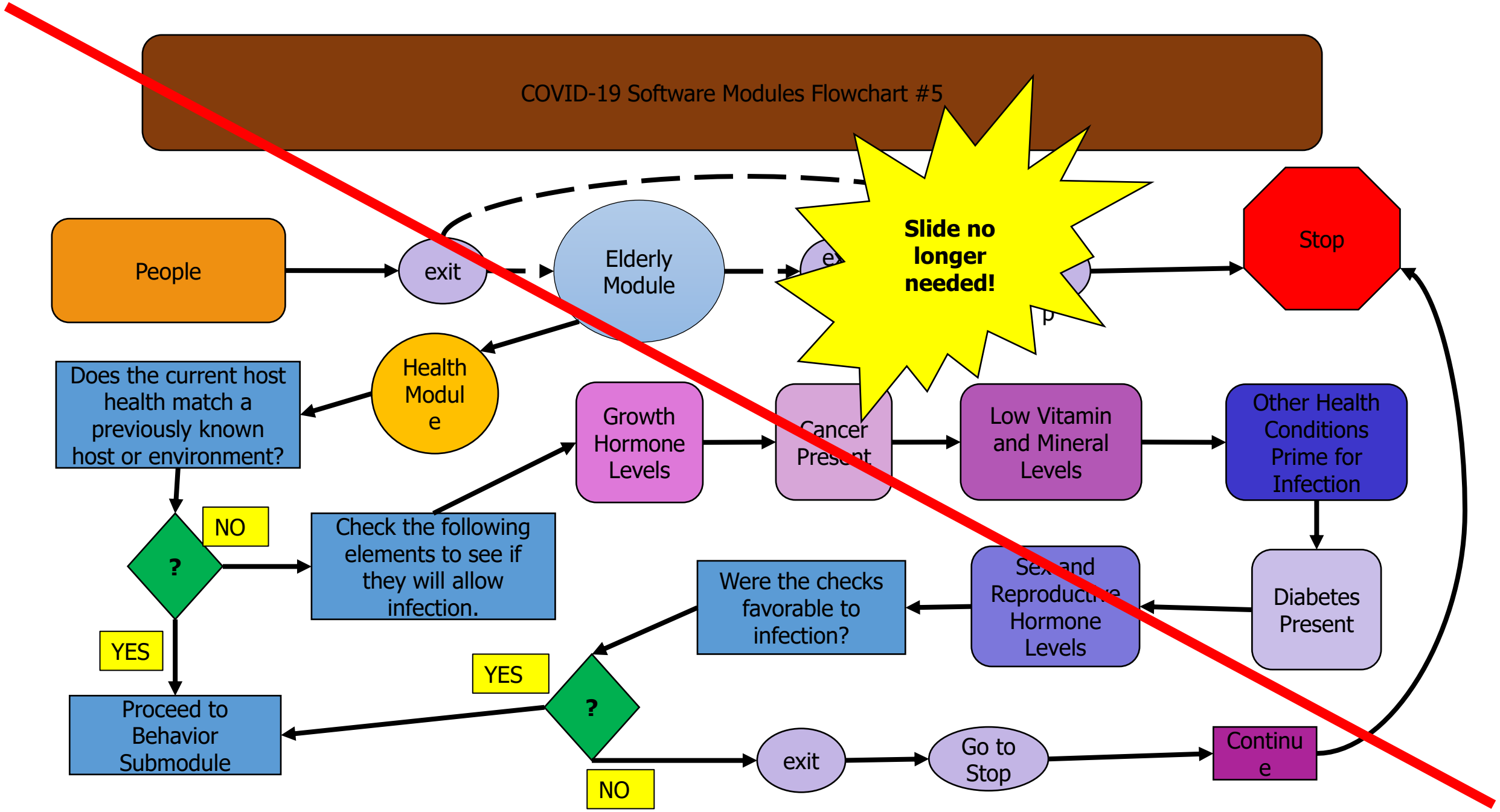
COVID-19 General Behavior Flowchart Before COVID-19's Brain Discovered

COVID-19's Behavior: Diabetes, Flight, and Bats (Cont.)

→ Humans cannot fly. Bats can fly. So what you can do is analyze what happens to bats when they start flying.
→ I would assume the Chinese analyzed bat metabolism, blood sugar levels, possibly hormone levels during bat flight.
→ They would have to analyze everything that happens to a bat during flight, to then generate an algorithm of behavior.
→ This algorithm could be programmed into the nanotechnology to deliver the cure.
→ The cure to diabetes could then be the total combined effects of the bat flight, but not the ability to fly itself.
→ In this sense, the nanotechnology could simulate the effects of bat flight inside a human and control the blood sugar levels without the use of insulin. Insulin could always be a backup.
→ Is bat DNA required to simulate this effect. I am still thinking deeply about this.
→ Minor research into nanotechnology is required.
→ This would require very sophisticated technology.

COVID-19 Software Modules Flowchart #5




COVID-19 Software Modules Flowchart #5
Slide no longer needed!
People
exit
Elderly Module
Stop
Health Module
Does the current host health match a previously known host or environment?
Growth Hormone Levels
Cancer Present
Low Vitamin and Mineral Levels
Other Health Conditions Prime for Infection
NO
?
Check the following elements to see if they will allow infection.
Diabetes Present
Were the checks favorable to infection?
YES
YES
?
Proceed to Behavior Submodule
exit
Go to Stop
Continue
NO