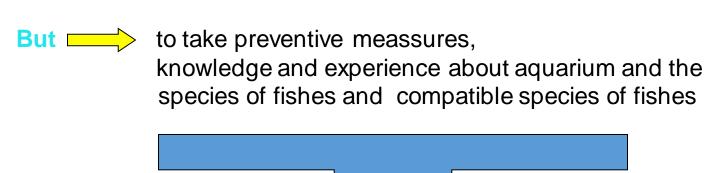
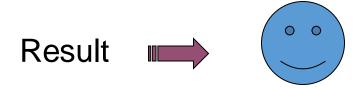
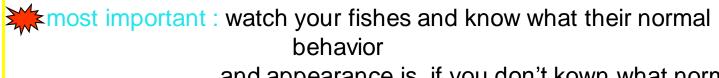
TO SUCCEED IN AQUARIUM= THE PROCESS MORE THAN 60 DAYS WITHOUT THE MEDICAL AGENTS OR DRUGS IN THE AQUARIUM

the generally preference = immediately to be rescue the sick fish/fishes and then purchase new fish/fishes



to prevent a great many of diseases





and appearance is, if you don't kown what normal is, you can't know what sick is

most important: never buy a sick fish from a store, especially don't buy fishes and plants form a tank



to observation two important criterions

- 1) if any fish shows signs of disease in the tank
- 2) or there are medical agents and drugs in the tank



chemical substances are made aquarium water colorful



most important: before purchasing a fish

ask how long the fish have been in the store

new arrivals may be carrying diseases that have not shown up yet

it is better to wait at least two weeks before purchasing the fish

for reliable quarantine

this time is enough for reliable quarantine

Some of the most common factors may be effecting the healty of a fish choosing fishes

capacity of aquarium number of fishes

numbers of male and female fishes

water temparature

water pH

cleaning aquarium: cleaning filter

cleaning bottom of aquarium pebble or small stones,

sand

bottom water of aquarium pulling with a hose or siphon



no diseases in aquarium _____ the volume of withdraw water is not more than 25 % total volume

choosing and intensity of water plants

lighting ______ time and type

fish nutrition type of feed (dry or live feed) and withdraw and portion

toxic and garbage subtances in the aquarium

New fish and plants these can carry diseases into a aquarium

intensity of fish leading appeared the diseases in aquarium

intensity is cause of squared greatly garbage sustances insufficient oxygen to discord(fight) between species stress leading to contact in fish group to fight for feed

curious and particular (fastidious) hobbyist takes notes to each various knowledge about the fishes



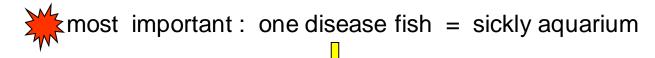
watch your fishes and know what their normal behavior and appearance is, if you don't kown what normal is, you can't know what sick is



a good hobbyist must watch daily and weekly observations

generally, diseases are occured one or a few fish and short time (acute) or long time (chronic)

A good hobbyist same as quickly to be thicking



pathogens are almost present in aquarium and disease agents are infected to water by porter fish / fishes

some generally syptoms of a sick fish:

the motion style become different

the fish swims slowly or speedy

the fish floats, sinks, wirls, or swim sideways

the fish excessive shivering (moves from side to side without forward)

the fish is shown a normally active and abnormally active respectively

the fish is very active

normal behaviour become different

the fish suddenly bloats up, and it's not due to eggs or young

the fish is kept stones, decorations and plants in long time

the fish is scratching against aquarium decorations

the fish is lean to one side

some abnormally morphological signs

fins are held abnormally closed to body, and ragged

there are visible spots, lesions, or different colors (red, white, yellow, gry,

green etc.) patches on the body

fins are ripped

abdomenal region is swollen

nutrion of fish become different
the fish eats either to small or nothing
the fish refuses its usual food for more than two days

the fish gasps at the surface of water number and volume of breath are increase

flashing scraping up against the decorations in the tank. Many fish do this occasionaly, but when they do it continuously you need pay attention

head standing swimming with the head down tail standing swimming with the tail down

listing leaning to one side or the other

not forgetting: above syptoms are generally, but these are shown a problem in the aquarium

Some of the general symptoms of a sick fish

Motion decreases, hiding, escape
Abdomen can be swollen
Fish can lie on the side
Changes in the surface of the body
Forward - backward and irregular swimming
Rubbing bottom or rubbing rocks
Increased number and frequency of respiration
Less food or no food

It should not be forgotten; these are very general symptoms But it's still a problem

Quarantine Aquarium

Purpose; 1) Treatment of sick fish

2) waiting for new fish and plants to remain before putting in the aquarium

Newly acquired fish can be kept in the quarantine aquarium depending on the breed and timing. This period may be prolonged, but most bacterial, viral and parasitic diseases complete the prepatent periods during this period.

The size or volume of the quarantine tank varies depending on the purpose and density of the fish

There should be no sand and gravel in the bottom

A non-flowing filter system is used. In the excessive flowing sick fish is more tired

The water temperature must be at the optimum level and must be fixed

The amount of O2 in the medicated water decreases.

Air flow should be regular

There must be hiding places where the fish can feel safe

Lighting should be done at regular intervals

Vitamin complexes must be given

Quarantine aquarium water should change everyday or every other day

The materials used in the quarantine tank should not be used in other aquariums. If used, it must be sterilized.