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Extended Abstract

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Why our body acts against facts of physics in fever

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According to the facts of physics, if temperature increases, thermal expansion of an object is positive it will expand and with decrease of temperature it will shrink. Pressure will increase due to increase of temperature. On the contrary, during fever we can see blood vessels and skin are shrunk, pressure decreases, body shivers, sleep increases, motion decreases, inflammation increases, body pain increases, blood circulation decreases, dislike cold substances etc... In fever, the firing rate of Warm sensitive neurons decreases, and the firing rate of Cold sensitive neurons increases. At the same time if we apply hotness from outside by thermal bag or if we drink hot water, our body acts according to the Facts of Physics- increase of temperature pressure will also increase, expands blood vessels and skin, body sweats, motion will increase , inflammation will decrease , body pain will decrease, blood circulation will increase, like cold substances etc.. During fever, why our body acts against Facts of Physics? when disease increases, pressure and temperature will decrease. Blood circulation will decrease due to decrease of pressure. If the essential temperature of the body is going out, essential temperature and pressure will further decrease. This will further endanger the life or action of organ. when disease increase, it is the sensible and discreet action of brain that tends to act against facts of physics to sustain life or protect organ .There is no way other than this for a sensible and discreet brain to protect the life or organ. We will get a clear answer if we find out the purpose of fever, sensible and discreet action of brain . No medical books clarify this During fever, if the temperature of fever is not a surplus temperature or if it is not suppose to be eliminated from the body, the shrinking of skin and blood vessels, shivering of body, dislike towards cold substances etc are a protective covering of the body to increase blood circulation to important organs of the body it is against the facts of physics.

Normally body temperature is 37 °C and atmospheric temperature is 33 °C in Kerala. During fever, body temperature increase to 40 °C and body starts shivering, even with the difference in temperature is just 7 °C. But without fever body may start shivering only if the atmospheric temperature is going below 17 °C, at temperature difference of 20 °C. So during fever just a 7 °C difference in temperature causes shivering, but without fever more than 20 °C required to shiver, why? Facts of Physics According to the facts of physics, if temperature increases, thermal expansion of an object if positive it will expand and with decrease of temperature it will shrink. Pressure will increase due to increase of temperature. On the contrary, during fever we can see the following situations - blood vessels and skin are shrunk, pressure decreases, body shivers, sleep increases, motion decreases, inflammation increases, body pain increases, blood circulation decreases, dislike to have cold substances etc. The temperature increasing and decreasing controlled by brain. Disease or cause of diseases stimulates the brain to create fever and shivering. In temperature increasing hyperthermia, the firing rate of warm sensitive neurons increases, and inhibit cold sensitive neurons. Contrary to this during fever the firing rate of warm sensitive neurons decreases and the firing rate of cold sensitive neurons increases. In temperature decreasing hypothermia, as in fever the firing rate of warm sensitive neurons decreases and the firing rate of cold sensitive neurons increases. If the aim of cold sensitive neurons increasing their firing rates in hypothermia is to increase blood circulation, then the aim of cold sensitive neurons increasing their firing rates during fever is also to increase blood circulation. If the aim of shivering in hypothermia is to increase blood circulation, then the aim of shivering during fever is also to increase blood circulation. If set point is below there is no necessary of shivering to increase temperature. At the same time, if we apply heat from outside by thermal bag or if we drink hot water, our body acts according to the Facts of Physics -which means, if temperature increases pressure will also increase, expands blood vessels and skin, body sweats, motion will increase, inflammation will decrease, body pain will decrease, blood circulation will increase, like to have cold substances etc. We will get a clear answer if we find out the purpose of fever, sensible and discreet action of brain. No medical books have ever clarified this till date. When disease increases, pressure and temperature will decrease. Blood circulation will decrease due to decrease of pressure. If the essential temperature of the body is going out, essential temperature and pressure will further decrease. This will further endanger the life or action of organs.
When disease increases, it is the sensible and discreet action of brain that tends to act against facts of physics to sustain life or protect organs. There is no way other than this for a sensible and discreet brain to protect the life or organ. During fever, if the temperature of fever is not a surplus temperature or if it is not supposed to be eliminated from the body, the shrinking of skin and blood vessels, shivering of body, an aversion towards cold substances etc. are a protective covering of the body to increase essential blood circulation to important organs of the body and this action is against the facts of physics. In all diseases, which decreases essential blood circulation, our body will acts against the facts of physics to increase essential blood circulation.

Bottom Note: *This work is partly presented at 14th World Congress on Infection Prevention and Control December 06-07, 2018, Valencia, Spain*