



when the largest organ in the body (the skin) becomes regularly dehydrated.

Hydration can be tested by pinching the skin on the back of your hand. If it springs back to its original shape, chances are your hydration is satisfactory. If a small ridge remains for a few seconds you may be lacking fluid.

A major reason for poor hydration as we get older is the gradual decline of the thirst mechanism in the brain. When we are young and get thirsty, there is no stopping us when we want a drink. However over time, by ignoring the signal or responding to the signal for fluid with food or dehydrating drinks (such as coffee or alcohol) the signal will decline. For most people this will occur as early as their teenage years. Therefore the issue becomes not how much fluid we intake but how well the uptake of that fluid occurs. By improving uptake the water will reach all cells in the body and provide the twin benefits of supplying nutrients to the individual cells and flushing the cells clear of toxins which may have built up.

This is what is known as long path hydration and short path hydration.

Short path hydration means the fluid will follow a path from the mouth, to the stomach, into the small intestines, into the circulation, into the kidneys, into the bladder and out of the body. This process will actually tend to stress the body, particularly the kidneys, rather than assist the hydration of tissues.

Long path hydration means the fluid

will follow a similar path to the circulation, but will then flow into organs and tissues before flowing into the cells.

Recently our company, AquaConneXions has developed specific technology that promotes this pathway of correct long path hydration. The core technology, which has since been patented, contains homoeopathic dilutions of several herbs, combined as a concentrate. This concentrate is added to a drink to promote cellular uptake of fluid.

However there are some other good simple techniques that, when used daily, will also assist fluid uptake. The best is a combination of apple juice and water. Apple juice contains a lot of fructose — a key sugar which opens path ways for water to infiltrate cells. Another good vehicle for hydration, which may surprise most people, is cola, diluted 1-1 with water. This is used by a lot of athletes because the caffeine, at a diluted level, will help the body uptake water.

Other soft drinks have other common sugars, which, while not quite as good as fructose, will improve the uptake when diluted with water.

If the body is lacking electrolytes, for instance after an extended period of exercise, then the plethora of sports drinks play their role. Again they are at their most effective when diluted with water. However it is also important to monitor electrolyte levels. Those who tend to perspire a lot may require a lot more electrolytes than someone who did the same amount of exercise but didn't perspire as much.

Hydration Solutions for Everyday Health

The best: Apple juice and water, plus herbal or homeopathic additions

Second choice: Apple juice and water

Third choice: Other non-citrus juices and water

Next: Pure Spring water and mineral water; various soft drink diluted with water

Finally: Concentrated Sports drinks.

Dr Jaroslav Boublik is the scientific director of AquaConneXions, a natural products research and development service.