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https://www.100test.com/kao_ti2020/503/2021_2022_08_E5_B9_B4_E8_81_8C_E7_A7_c91_503793.htm 10 . Inhalable Water Droplets

可吸入水滴 You think that the biggest threat to your health when taking a shower comes from slipping on a bar of soap? Well, guess again. Preliminary studies by engineers at the University of Cincinnati and the Oak Ridge Institute for science and education, also in Cincinnati, indicate that some water-saving shower nozzles produce water droplets so small they can be inhaled, exposing anyone using the shower to several different health hazards. Using a device called an optical particle counter the researchers tested a number of shower nozzles, both of adjustable and fix-spray styles. They found that some products create droplets less than 10 microns in diameter-small enough to be inhaled. That's problem, the researchers theorise, because the water may contain trace of chemicals used by treatment facilities to kill microbes and bacteria in the water. These organic compounds are relatively safe to take in by drinking, but may not be safe to inhale. Another threat may be possible as well. Previous research has shown that the droplets can contain microbes that live inside the warm, wet interior of shower nozzles. When the faucet is turn on, these microbes are swept out through the nozzles. If these droplets are inhaled, the microbes could pose a threat to people who are with asthma and other respiratory problems. All of this doesnt mean you should skip your morning shower just yet. More research is needed, cautious oak

ridge institute scientist Virendra Sethi says, before anyone can determine just how serious or insignificant these health risks may be. Moreover, not all water-conserving nozzles produce inhalable droplets. "It all depends on the design of the nozzle," says Sethi. Right now there is no way for consumers to know which nozzle produce these tiny drops. "We are working to develop specifications for shower head designs that would not generate droplets in the inhalable size range," he adds. 100Test 下载频道开通，各类考试题目直接下载。详细请访问 www.100test.com