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|  | At this point in time, there are no real solutions, that will help to completely eradicate the problem of resistance. However, it is possible to slow their rate of evolution and weaken their resistance factors. To keep bacteria from evolving so quickly, antibiotics must be prescribed correctly by the medical community and used correctly by patients. Some patients fail to take antibiotics when they have an infection, and therefore, the infection does not get completely eradicated. Those few bacteria that are left have the highest resistance, so they multiply and kill the weaker strains. Consequently, this speeds up the process of bacterial evolution and the development of resistance. Also, as mentioned, antibiotics should never be given for viral infections. First off, they do nothing for viruses and second, they help to give rise to stronger bacteria within the patients. Overall, behavior by patients and the medical community must be altered to keep resistance under control.  Another way to fight resistance is to take certain antibiotics out of circulation for a period of time so that the bacteria no longer can build up a resistance to that specific antibiotic. The bacteria will evolve to a point where they are no longer resistant to this drug, and once it is put back in circulation, it will be effective for the time being.  There is currently a lot of medical research being done on the effects of acidity on bacteria. As a bacterial environment becomes more acidic, bacteria have a harder time of surviving. Perhaps, in the future, new drugs will be developed to raise the acidity of the area of infection in order to cure the patient. This way, no drugs would have to be used.  Another area of research being conducted is to find a way to keep bacteria form passing on their resistance traits to non-resistant bacteria. This would hypothetically be done by blocking the path of the information transfer so that bacteria would be unable to evolve, and could be treated with normal antibiotics. The problem that bacteria could evolve to fight this drug is still a possibility.  It is likely that no real solution will be found. Humans will continue to run a race to outwit bacteria, but so far bacteria is continuing to win the race against mankind. |

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