


CHRONIC DISEASES


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Diabetes

 *Problem:*

 Juvenile diabetes Type 1, but also Type 2 diabetes. It is difficult to both detect and inject insulin in children.

 *Possible solutions:*

 Detecting blood sugar levels in a convenient ways and injecting insulin in children, so that it is less of a hindrance to their lives.

Organ Failure



Problem:



When fixing one organ, you are simultaneously affecting other organs.



Solution:



Artificial immune system. Independent medication that does not depend on the immune system.



Releasing interferons to protect cells of other organs.

Hepatitis C



Problem:



A viral disease that destroys the liver.



Solution:



Destroy the protein that makes up the virus and then the viral infection would not kill off the liver cells.



Coming up with a vaccine.

Cancer



Problem:



To avoid chemotherapy. People die from the treatment rather than the actual disease.



Solution:



Looking for a medication that does not bring about the side effects of current chemotherapy. Looking at the signaling pathways and look for any abnormal use of a singular pathway. Mapping the pathway, and then turning it off.

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