



Medtronic's Minimed 670G

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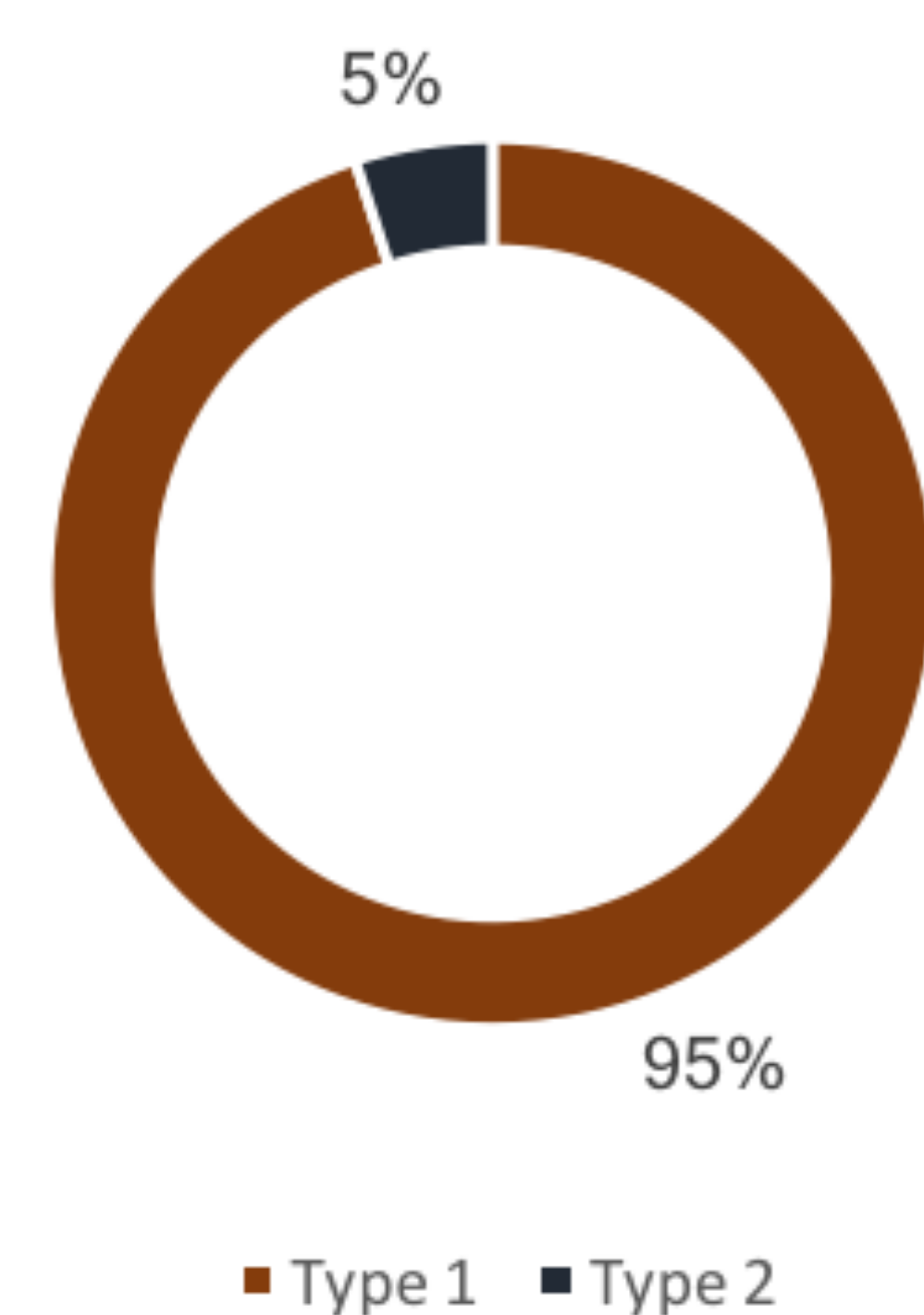


INTRODUCTION

Having type 1 diabetes means constantly measuring glucose by finger pricks several times a day, and balancing insulin with multiple daily injections. This can be very redundant and life threatening. However, the FDA just approved Medtronic's new artificial pancreas, the Minimed 670G. The Minimed will automatically monitor both glucose and insulin levels, using an insulin pump, a glucose sensor, and a program that lets the two communicate with each other.

STATISTICS

Diabetes in Children



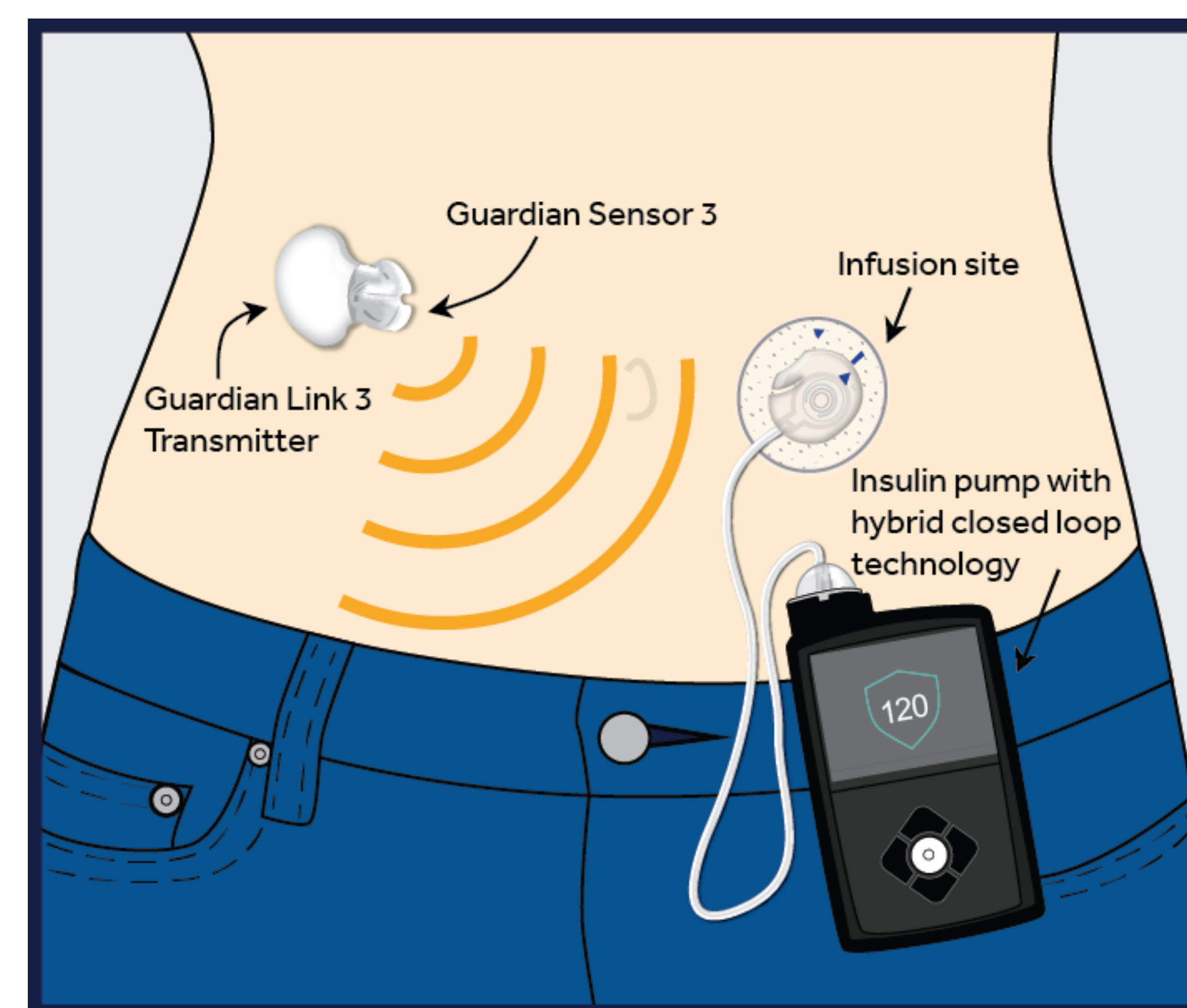
- 5 million people in the U.S. are expected to have type one diabetes by 2050
- Type one diabetes is associated with an estimated loss of life expectancy of up to 13 years

OBJECTIVES

- Transform diabetes care
- Greater freedom and health
- To create a device that minimalizes daily inconveniences
 - Reduce finger pricking
 - Reduce insulin injections
 - Reduce glucose monitoring

SOLUTION

- Guardian Sensor 3
 - Controls insulin dosing
 - Easy to insert
 - Flexible design
 - Know where your glucose levels are reading at all times
- Minimed 670G Pump
 - First hybrid closed-loop system
 - Waterproof
 - Fewer shots
 - Easy access to glucose and insulin information



IMPROVEMENTS

- Eliminate finger pricking all together
- Widen the age range
- More affordable
- Better insurance coverage

CONCLUSION

Overall, the Minimed 670G is a huge step in the advancement of medical devices for type one diabetes. While there are still some improvements that could be made to make this device more accessible and available, there is not yet another device on the market that has these kind of accommodations for type one diabetes.

ACKNOWLEDGEMENTS

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