

A Novel Encapsulation Device for Mouse Neural Stem Cells

The Universal Healthcare Controversy in the United States

An Undergraduate Thesis Portfolio  
Presented to the Faculty of the  
School of Engineering and Applied Science  
In Partial Fulfillment of the Requirements for the Degree  
Bachelor of Science in Biomedical Engineering

by

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May 7, 2020

## **Preface**

Among developed countries, the United States has relatively poor access to healthcare. Both medical and policy innovations can diminish barriers to access.

Cell and gene therapies require cell encapsulation, but the existing encapsulation process is laborious and time intensive. The research team designed a prototype device that automates multilayer cell encapsulation. The project was interrupted by the COVID-19 pandemic, but future researchers can use the project report to complete the prototype. A successful device would accelerate cell encapsulation and reduce costs, improving access to cell and gene therapies.

While universal healthcare would improve access to care in the U.S. it is controversial. Such proposals divide interest groups and advocacies. Advocates of universal healthcare evoke values associated with social equity, while critics contend that it threatens competition, undermines personal responsibility, and diminishes choice.

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