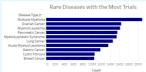
RARE DISEASE TRIALS

FINDING BETTER TREATMENTS FOR PATIENTS

Our goal was to find what makes rare disease clinical trials successful. We defined trial
SUMMARY success as a trial that reached phase four. We completed a series of analyses to see
what could impact trial success in order to bring more treatments to market. We found
that the following factors were statistically splitteral in determining whether at rial
would reach phase four; age group, study type, intervention type, and funding type.





MULTIPLE MYELOMA

PREDICTORS

Age Success Rate By Age

97.49%

Trials involving children only, nearly double trial success

Funding Type



12.97%

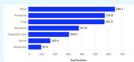
Trials involving only private func-have a 12.97% higher chance to succeed over the average trial

6.79% Cooking at intervention types , drug studies had the highest success rate at 6.79% whereas generic and radiation interventions are the lowest both under 1%

0%

Decreasing the Duration of Trials

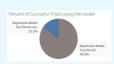
This graph highlights average duration the clinical trials took to be completed by intervention type. We found the shortest average trial duration was behavioral with 97 days. This is because behavioral studies do not require large amounts of interventions. They are less invasive in that they just monitor the behavior of the nations. ney just minimic the behavior of the patients. The other intervention types such as device, diagnostic test, biological, drug, and procedure require more invasive methods which extends the duration..



data set removing observational studies because they have a 0% success rate and,

Regression Model





If we only run the top 5% of trials from the mo 15.2%

RUN MORE SUCCESSFUL TRIALS TO SAVE MORE

using the model, if we remove the bottom 5% of trials, success rate increases by half a percent which would decrease the cost per average trial by \$21,737, from \$456,556 to \$434,819. This will allow us to have more money to fund trials with a higher likelihood of success, in order to find better treatment for patients

\$21,737