

Project Name: The State of a Bipolar

Team Number: Melrose High School 197

Team Members: Tatum Trollinger, Kendal Burnett, Jared Lee.

Project description:

The effects of bipolar disorder will be explored and explained, as well as represented.

Importance:

In our own personal experiences, we have been exposed to many mental illness issues. The majority of that has been bipolar disorders in family and community members. This model should shed light on what a sufferer goes through in life and how daily activities affect them differently than a 'normal' person.

Plan of Action:

- 1- Research.
- 2- Consultations with programmers.
- 3- Model development.
- 4- Report planning.
- 5- Validation from social workers.
- 6- Report finalized.

Model description:

A NetLogo model will be developed that shows the actions and interactions of agents representing individuals with differing states of manic and depressed bipolar tendencies. The agents and their behavioral patterns will be controlled by an algorithm, and will be affected by their interactions with other agents and environmental influences.

Variables used:

Environmental influences, the degrees of depression, the extents of the manic state, and the positions and interactions of the agents.