



## Investigating the Effects of VNS on Central Autonomic Network and Interoception

**Status:** Recruiting

### Eligibility Criteria

**Sex:** Male or Female

**Age Group:** 18 years and over

This study is NOT accepting healthy volunteers

**Inclusion Criteria:**

- enrolled in a health insurance plan that will cover the costs associated with standard health care services and injuries - diagnosis of chronic (at least 2 years) or 4 or more recurrent depressive episodes - VNS therapy recommended for treatment - has not had an adequate response to four or more adequate antidepressant treatments
- enrolled in the REVEAL CSP or REVEAL AP3 research studies

---

**Exclusion Criteria:**

- had a prior implantable stimulation device - currently uses or is expected during the study to use short-wave diathermy, microwave, diathermy, or therapeutic ultrasound diathermy - acutely suicidal or made a suicide attempt within the previous 6 months - additional mental health diagnosis other than depression (study staff will review) - not able or willing to use their dominant arm, or upper arm circumference is greater than 50 cm - do not speak English - women who are pregnant

### Conditions & Interventions

**Conditions:**

Mental Health & Addiction

### More Information

**Description:** This study is being done to find out if vagus nerve stimulation (VNS) affects how different parts of the brain interact with each other and process information. Participants must be in the REVEAL study and have a new VNS device implanted for treatment of depression. The study will last for about 19 weeks after the VNS is implanted.

**Study Contact:** Interventional Psychiatry Lab Study - [ipl@umn.edu](mailto:ipl@umn.edu)

**Principal Investigator:** Ziad Nahas

**IRB Number:** STUDY00021940

---

Thank you for choosing StudyFinder. Please visit <http://studyfinder.umn.edu> to find a Study which is right for you and contact [sfinder@umn.edu](mailto:sfinder@umn.edu) if you have questions or need assistance.