

## Pilot study to determine safety of lower extremity injection of agitated saline for echocardiography of the heart.

**Status:** Recruiting

### Eligibility Criteria

**Sex:** Male or Female

**Age Group:** 18 years and over

This study is NOT accepting healthy volunteers

**Inclusion Criteria:**

1. 18 years or older 2. "bubble study" i.e. echocardiography with agitated saline injection ordered

---

**Exclusion Criteria:**

1. enrolled in another drug or medical device study within 30 days of study enrollment. 2. liver failure in past 6 months

### Conditions & Interventions

**Conditions:**

Heart & Vascular

**Keywords:**

Echocardiogram, PFO

### More Information

**Description:** Prospective study to compare safety of upper versus lower extremity injection agitated saline (bubble study) using echocardiography of the heart.

**Study Contact:** Beth Jorgenson - [bjorgenson@healtheast.org](mailto:bjorgenson@healtheast.org)

**Principal Investigator:** Carmelo Panetta

**IRB**

**Number:** STUDY00016117

---

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.