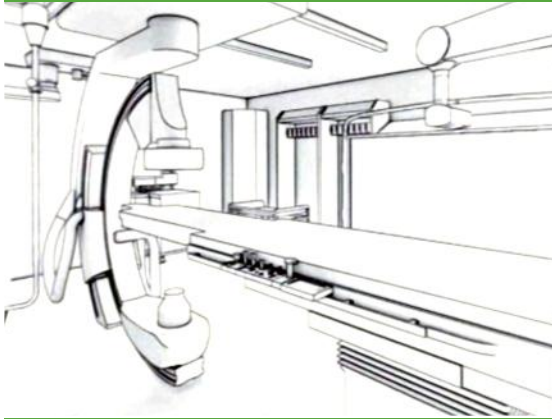


Let's Get to the Heart of the Matter...



**The Case for Expanding
NorthBay Heart & Vascular**



FIRST THE FACTS

- NorthBay Health's catheterization labs are in dire need of new equipment.
- Our volume keeps our two cath labs extremely busy, and with our community growing, the demand will only increase. Procedures can take anywhere from one hour to five hours or more, so it's difficult to say how many cases are handled daily, but it can range anywhere from six to 14 cases a day.
- Our highly skilled physicians – with credentials from Mayo Clinic, Stanford Health Care, Cleveland Clinic and UCSF – have raised the bar so high that NorthBay Health is now offering an incredible array of highly advanced medical procedures right here in Solano County and in many cases is the only hospital in the region to do so.
- NorthBay Health Medical Center not only handles cardiac catheterization cases, but also important vascular and peripheral cases, along with critical interventional radiologic procedures to save lives. We will begin offering electrophysiology services in 2023.
- Our services are scattered through our Fairfield hospital, which makes work flow less than optimal.
- There is space in the vacated surgery wing on the first floor of NorthBay Health Medical Center. It is the perfect size to accommodate a new state-of-the-art Heart & Vascular suite.

SOME BACKGROUND

NorthBay has been caring for the hearts of Solano County since 1992, when our first diagnostic catheterization lab opened at NorthBay Health Medical Center.

A \$3.6 million upgrade for that lab came in 2009, along with construction of a dedicated cardiovascular operating room. The program brought together the region's top cardiac surgeons, supported by trained and highly skilled clinical staff – to provide care from the emergency room to the operating room to recovery and beyond, effectively ending the need to transfer critically ill patients out of the county for care. That same year, NorthBay became Solano County's first and only nationally accredited Chest Pain Center, and remains so to this day. NorthBay was also designated as Solano County's first STEMI receiving center in 2011.

A second cath lab specifically for cardiac procedures was added in 2013.

STAYING AHEAD OF THE CURVE

While we have added new services over the years, the original cath lab's equipment is now 13 years old, and maintenance support for it must be provided by a third-party vendor.

- Siemens no longer supports or maintains parts and equipment that old.
- The second cath lab's equipment is nearly 10 years old and will also soon require support from a third-party vendor.
- Imagine using the same smart phone for 10-plus years. Sure it works, but the newer models are so improved! New cath lab equipment will make all procedures more precise and efficient. And better precision means significantly less radiation to the patient and team during procedures.
- Earlier plans to upgrade equipment were scuttled when the COVID-19 pandemic hit.

Today our need for new equipment is greater than ever.

CONSIDER THESE STATISTICS

Despite aging equipment, NorthBay still successfully treats more than 1,700 patients each year, and the demand continues to increase. In the first six months of 2022, NorthBay:

- Treated 849 patients in the cath lab;
- Performed 373 diagnostic heart catheters and placed stents in 138 patients;
- Treated 46 patients who needed emergent procedural intervention due to an evolving heart attack; and
- Completed 227 vascular and 120 interventional radiology cases

HERE'S HOW WE SAVE LIVES

Here are some of the procedures we currently offer in our cath labs:

- **TAVR:** Transcatheter Aortic Valve Replacement is a minimally invasive procedure to replace a narrowed aortic valve, using a catheter rather than surgery.

NorthBay is the only hospital in Solano County to offer this procedure.

- **Lead extraction:** We remove implant leads from pacemakers/implantable defibrillators that have been in the body for a long time. NorthBay is the only hospital in Solano County to perform these complex cases.
- **Cardiac implants:** We implant devices, including pacemakers, implantable cardioverter defibrillators, ICD and Cardiac Resynchronization Therapy (CRT).
- **Insertions:** We insert ports, tunneled lines, dialysis catheters, feeding and nephrostomy tubes.
- **CardioMems implants:** We insert a device the size of a dime into the pulmonary artery of heart failure patients, which feeds data directly to their doctor, allowing them to monitor the heart's performance and offer treatment before a heart attack occurs.
- **Shockwave Intravascular lithotripsy:** A procedure to blast severely calcified plaque in coronary and peripheral arteries.
- **Removal of clots:** A whole team has been created to jump into action when a life-threatening blood clot forms in the lungs. We are able to use Inferior Vena Cava filters to stop clots from going into the lungs, and the Inari Flow Trierer to remove blood clots in the pulmonary arteries.
- **Transesophageal Echocardiogram** – Also called TEE, it involves sending a special scope down the throat to give the physician a better picture of the patient's heart structures.
- **Peripheral vascular and vascular cases** – We treat a wide variety of disease processes of the blood vessels that supply blood throughout the body, such as arteries to the legs and within the neck. We also treat aneurysms, swelling, varicose veins and create hemodialysis access for patients with end-stage renal disease.

PROCEDURES COMING INTO THE LAB IN THE NEAR FUTURE:

Patent Foramen Ovale Closure: This is a minimally invasive procedure that can prevent a patient from experiencing recurring strokes. It involves closing a small hole that forms

between the top section of the right and left side of the heart. Some individuals with this condition don't realize they have it, because they can be asymptomatic for years. The symptoms – when they occur – are usually mini-strokes or actual strokes.

Cardiac Contractility Modulation Implant: This device uses electrical pulses to improve the contraction of the heart.

Electrophysiology Procedure: This test identifies and potentially eliminates abnormal heart rhythms, most commonly atrial fibrillation or A-fib. NorthBay will be the only hospital in Solano County to offer this procedure.

WHAT'S OUR PLAN?

Our vision calls for constructing three new cath labs in a state-of-the-art suite. The build-out would allow us to bring together our cardiovascular interventional radiology and vascular programs, diagnostic testing, such as echocardiograms and stress testing, our electrophysiology program and an observation unit with pre- and post-procedure beds, where patients can be closely monitored before transfer elsewhere in the hospital or discharge.

We have the perfect space for it. When NorthBay opened the North Tower in 2019, with eight new state-of-the-art surgical suites on the third floor, it created a vacancy on the first floor near the Emergency Department.

To maximize space and efficiencies, we teamed with Boulder Associates, an architectural firm, to create a blueprint for a suite that is work-flow friendly and welcoming for patients. The collaborative effort involved pairing their architects and our clinicians and the cath lab team on a project to transform one-dimensional blueprints into a highly efficient and patient-friendly workspace, using cardboard, tape and a whole lot of imagination.

PROJECTED COST/TIMELINE

NorthBay has set aside \$18 million for the project. It is the job of NorthBay Health Foundation to raise \$12 million, through the generous donations of our philanthropic community, to make up the difference.

All design work was completed by October 2022; construction documents and the permitting process is expected to continue through the end of 2023. According to plans, construction will begin in 2024 and conclude in 2025.

Please partner with us to help NorthBay Health bring its Heart &

Vascular program up to date with the most technologically advanced equipment that will allow our amazing team of physicians to continue to offer top-notch advanced medical programs in Solano County. Your partnership will help save lives and improve the health of our friends, family and neighbors here in Solano County.

**FOR MORE
INFORMATION**

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