

l o n g e v i t i [®]

Education & Services

A C L E A R

A D V A N C E M E N T I N

N E U R O I M A G I N G



Our Story

The use of Longevity ClearFit® implants enables post-operative ultrasound for neurological observation, allowing neuro-intensivists, neuro-radiologists, surgeons, nurses, physicians assistants, and patients to overcome the “hurdles” of the skull.

By using ultrasound through ClearFit® implants, hospitals and systems have demonstrably mitigated some common costs and obstacles associated with patient imaging and transport for pathologies such as Hydrocephalus, oncology, traumatic brain injuries, and more.



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Why Ultrasound?

Because ultrasound is the most common medical imaging modality, adult neurosonography, enabled by sonolucent cranial implants, allows for point-of-care transcranio-plasty ultrasound (TCUS) to prompt patient care.

Safe

Bedside TCUS does not require patient transport.

Repeatable

Ultrasound exams are performed on demand as needed, emits no radiation, and uses no harmful contrast agents, such as gadolinium.

Mobile

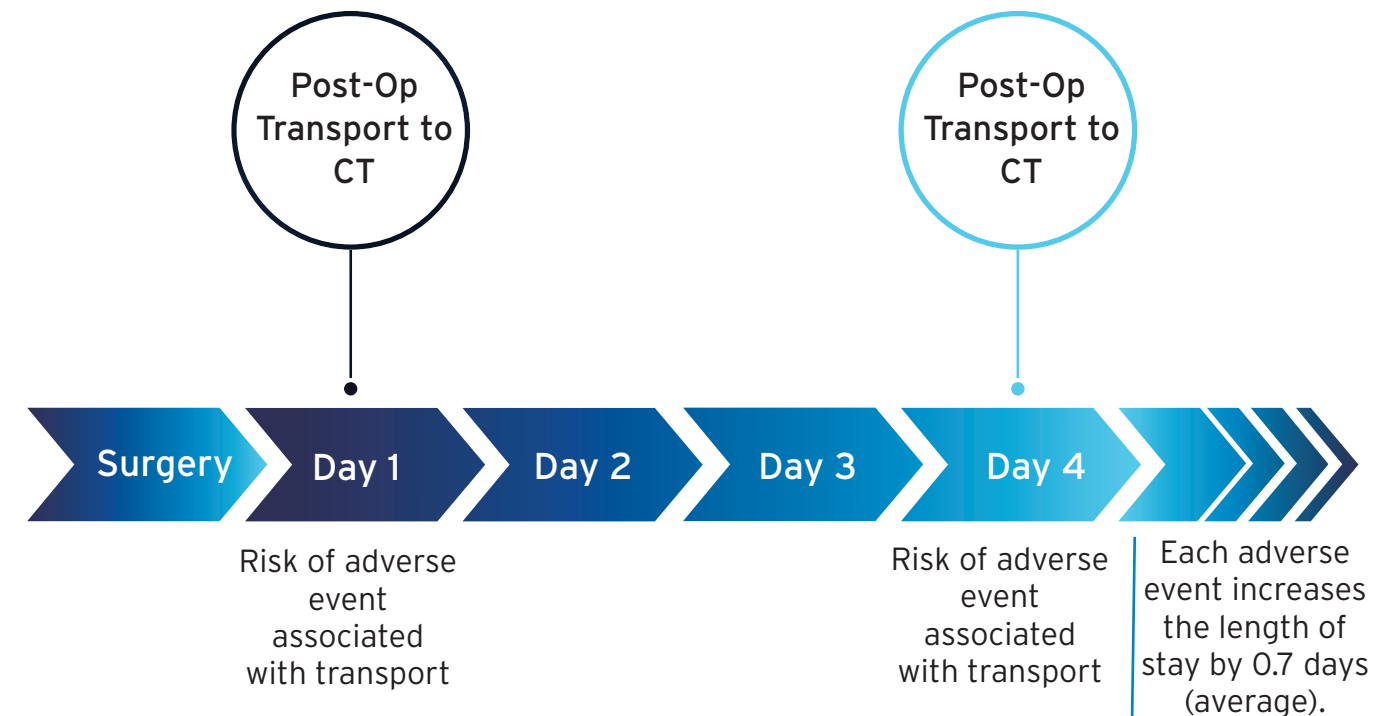
Point-of-care ultrasounds are readily available in most intensive care units (ICU).

Real-Time

Ultrasound provides immediate clinical data to help clinicians make real-time medical decisions.

Issues Related to Standardized Neurological Imaging

Traditional neurological imaging options can be expensive and require patient transport, increasing the risk of an adverse event that can result in an increase of the patient's length of stay and hospital costs.



The number of CT scans performed in the U.S. in a year are likely to cause an estimated 29,000 future cancers.

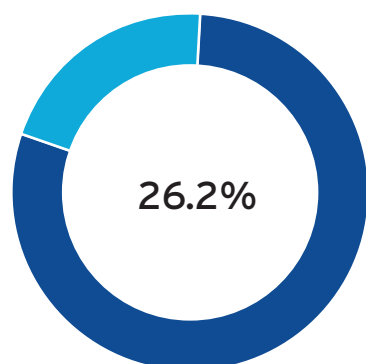
(The National Cancer Institute)

<https://dceg.cancer.gov/research/public-health-impact/ct-scans>

Mitigating Risk of Adverse Events

The costs associated with neurological care, transporting a patient, and complications create a significant burden. ICU transport, on average, is the cause of 26.2% adverse events.

Risk of Adverse Event in Patient Transport



The ability to obtain neuronal data from bedside ultrasound rather than transporting a patient within a hospital, can decrease the risk of adverse events associated with patient transport.

In summary, neurosonography (ultrasound diagnostics of the brain and function) may not only decrease patient transport costs during the global period, but also increases reimbursable diagnostics in the clinic, creating a better experience for the patients and their loved ones.

Centers for Medicare & Medicaid Services. (CMS). (n.d.). Retrieved October 6, 2022, from <https://www.cms.gov/>

Ultrasound Services

Patient Imaging

Longeviti provides on-site technical experts to support transcranioplasty ultrasound (TCUS) for neurosurgical teams post-operatively.

TCUS
Validation

Clinical Ultrasound Training

Our clinical specialists and consultants can train surgeons, support staff, and radiology teams to optimize post-operative imaging enabled by Longeviti products.

TCUS
Training

Longeviti Sonography Services

Our team of trained sonographers is available to demonstrate ultrasonography of the brain, transcranial Doppler (TCD), and carotid investigation, in your clinic.

TCUS Clinic
Service

Neurosonography Training

Longeviti has made significant investments in training resources, including:



On-Site transcranioplasty ultrasound (TCUS) simulation and phantom-based training.



Virtually accessible courses ranging from fundamentals to specific neurological pathologies in TCUS.



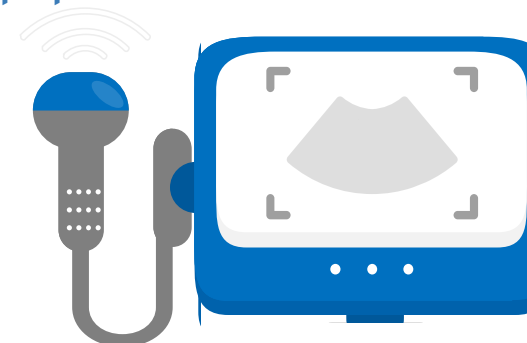
Consultants who can deliver peer-to-peer educational talks on their experience with ClearFit devices and TCUS.

Ultrasound Resources

In-patient & Out-patient
Imaging Services



Equipment Placement & Sales



Imaging Protocols:

- A. Sterile Precautions
- B. Neuroanatomy
- C. Neurovascular, e.g. Bypass & TCD
- D. Doppler Assessment

Longeviti has partnered with industry leading imaging companies to remove ultrasound capital as a roadblock to performing ultrasound exams. Ask your local representatives about the purchase or placement of ultrasound equipment in your clinic!

Coding

Reimbursable Neurosonography:

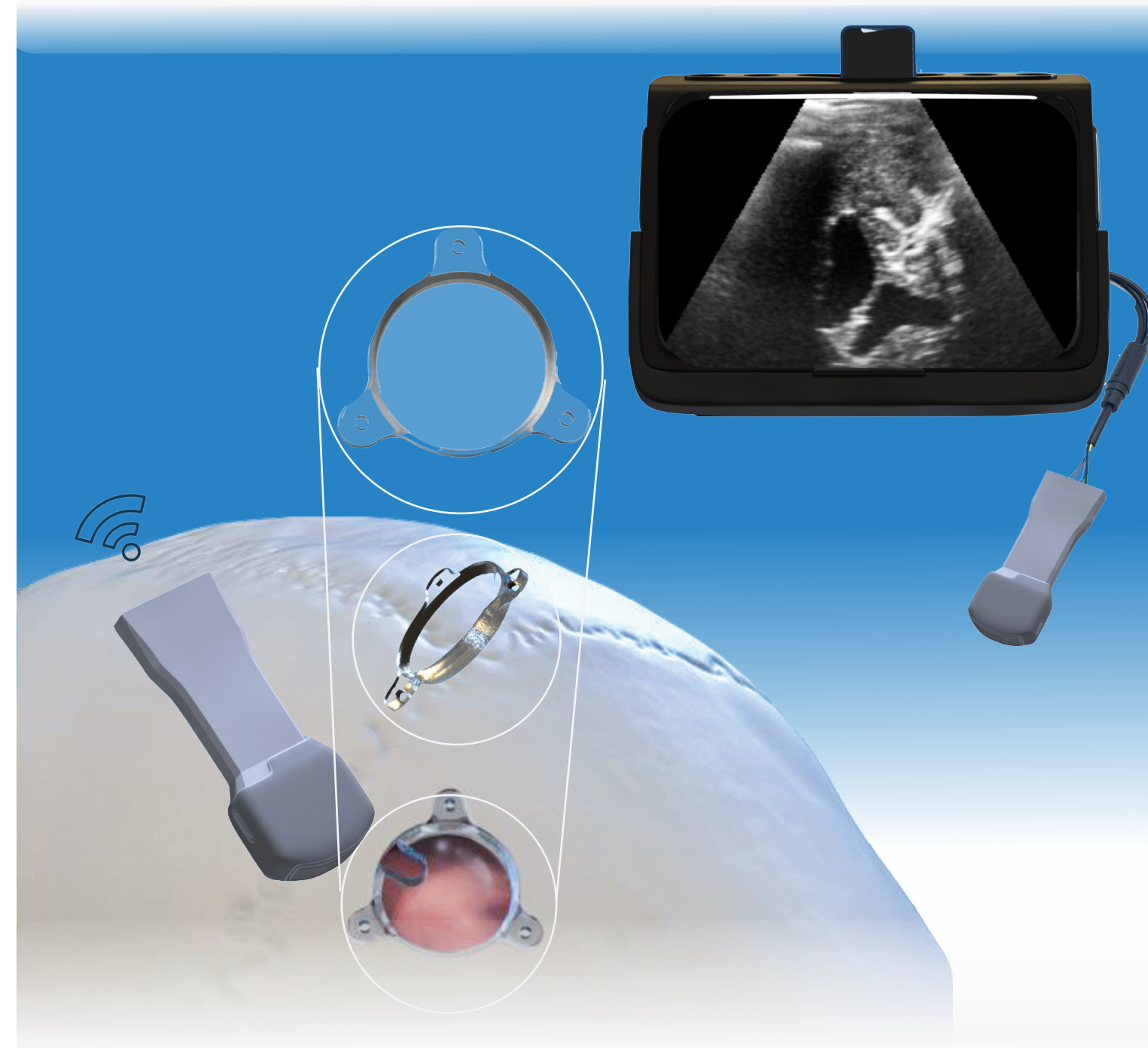
Neurosurgery clinics can perform diagnostic ultrasound exams on ClearFit surgical patients. This provides clinical value for management of surgical patients.

CPT Code	CPT Name	CPT Description
76506	Brain Ultrasound	Diagnostic intracranial ultrasound (also known as "baby head ultrasound" but applies to all ages)
76536	Head and Neck Ultrasound	Soft tissue ultrasound of head and neck
93880	Carotid (complete)	Bilateral duplex scan of extracranial arteries (imaging and doppler)
93882	Carotid (limited)	Unilateral or limited scan of extracranial arteries (imaging and doppler)
93886	TCD (complete)	transcranial doppler study of intracranial arteries (bilateral)
93888	TCD (limited)	Unilateral or limited transcranial doppler study of intracranial arteries

Existing CPT codes applicable to transcranioplasty ultrasound

DISCLAIMER: Longeviti Neuro Solutions provides this information for background purposes only. It does not constitute legal advice or a recommendation regarding clinical practice. Information provided is gathered from third-party sources and is subject to change without notice. The provider has the responsibility to determine medical necessity and to submit appropriate codes and charges for care provided. Longeviti Neuro Solutions makes no guarantee that the use of this information will prevent differences of opinion or disputes with Medicare or other payers as to the correct form of billing or the amount that will be paid to providers of service. Please contact your Medicare contractor, other payers, reimbursement specialists and/or legal counsel for interpretation of coding, coverage and payment policies. Any decision regarding specific coding is at the discretion of the healthcare professional. Provision of this information does not guarantee or facilitate reimbursement. Consult with your billing advisors or payers regarding any billing questions or concerns.
<https://data.cms.gov/provider-summary-by-type-of-service/medicare-physician-other-practitioners/medicare-physician-other-practitioners-by-geography-and-service>

Future Proofing Your Patients



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ClearFit® Neurosonography

Because "Time is tissue"



CONTACT US TO LEARN MORE

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