Focusing on sustainability in Image Guiding Solutions

Allia™ IGS 5

GE HealthCare

Creating a more sustainable future requires us to care for the planet and its inhabitants

It is essential that we continue to drive progress toward early, precise, and accessible diagnosis and treatment of more patients. For the planet, it is critical that we do so with a reduced impact on precious and rare resources that are imperative to life. We believe that the advancement of precision medicine, greater digitization of healthcare, and increased access to quality care are fundamental to accomplishing this goal.

We support carbon policies that reduce greenhouse gas emissions and promote sustainable development. GE HealthCare has a goal to achieve net zero by 2050. An interim goal is to reduce our operational emissions (Scope 1 and 2) by 42%* and our Scope 3 emissions from purchased goods and services, upstream transportation and distribution, business travel, and use of sold products by 25%** by 2030 compared to a 2022 baseline. In 2024, we received validation on our updated goals from the Science Based Targets initiative (SBTi), a group of visionary corporate leaders taking ambitious climate action. As a result of these efforts, we want to enable a more sustainable health system by addressing not only the environmental impacts of our products but also the challenges healthcare professionals and their patients face with resilient, digital solutions.

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We've set interim goals to reduce Scope 1 and 2 emissions by 42% and Scope 3 emissions by 25%* by 2030.**

* from a 2022 baseline year.
** includes purchased goods and services, upstream transportation and distribution, business travel, and use of sold products from a 2022 baseline year.

Leading a new era in sustainability for a more resilient tomorrow

We’re creating a world where healthcare has no limits, helping to improve access to care and enable better patient outcomes.

Environmental
Using fewer resources for a healthier planet.

Digital
Transforming healthcare through innovation.

Resilience
Building flexibility and dependability across healthcare systems.

Helping to create a more sustainable tomorrow

Our Allia IGS 5 Interventional Image Guiding Solution and its services help ensure clinicians and the patients they serve have the technology necessary to create a more sustainable and resilient tomorrow.

Reducing environmental impact

- Allia IGS systems parts are eligible for the parts refurbishment program , in which they are considered for harvesting to re-use as service parts or repair or recycling.
- The two system user interfaces (Smart Box and TSCC) are replaced by one ergonomic control panel (MCUI) at table side.

Improving care

- Clinical outcomes:
  - AutoRight™ AI-based image chain
  - Reduce dose by up to 25% with InnovaSense™.
- Operations outcomes:
  - Reduce unplanned downtime by up to 36% with OnWatch™ Predict.
- Workflow outcomes:
  - Simplify workflow through ASSIST solutions and Allia control panel and Detector User Interface (UI).

Contributing to a healthier planet

More than half of the healthcare sector's climate footprint, approximately 53%, is attributable to energy use.[1] As a result, we have strengthened our commitment to environmentally conscious design and we are implementing more sustainable practices across our product manufacturing, sourcing, distribution, installation, and service operations. This includes improving energy efficiency, optimizing the use of limited or rare materials, providing digitally enabled service throughout the product lifespan, and offering refurbishment and recycling options at the end of product life.

GE HealthCare environmental management system is ISO 14001 certified	Our production and service operations align to ISO 14001 standards.
We're committed to environmental product design	This product conforms with IEC 60601-1-9:2007.

[1] Health care climate footprint report | Health Care Without Harm (noharm-uscanada.org), based on 2019 report

Materials

GE HealthCare reviews the environmental aspects of the material supply used within our products to increase recyclability and decrease the use of hazardous substances, when possible.

Recyclability

We're committed to high recyclability of our products and reuse when possible.

Allia IGS systems parts are eligible for the parts refurbishment program , in which they are considered for harvesting to re-use as service parts or repair or recycling.

During the product lifecycle, 64% of our tube parts (in value) are reused components:

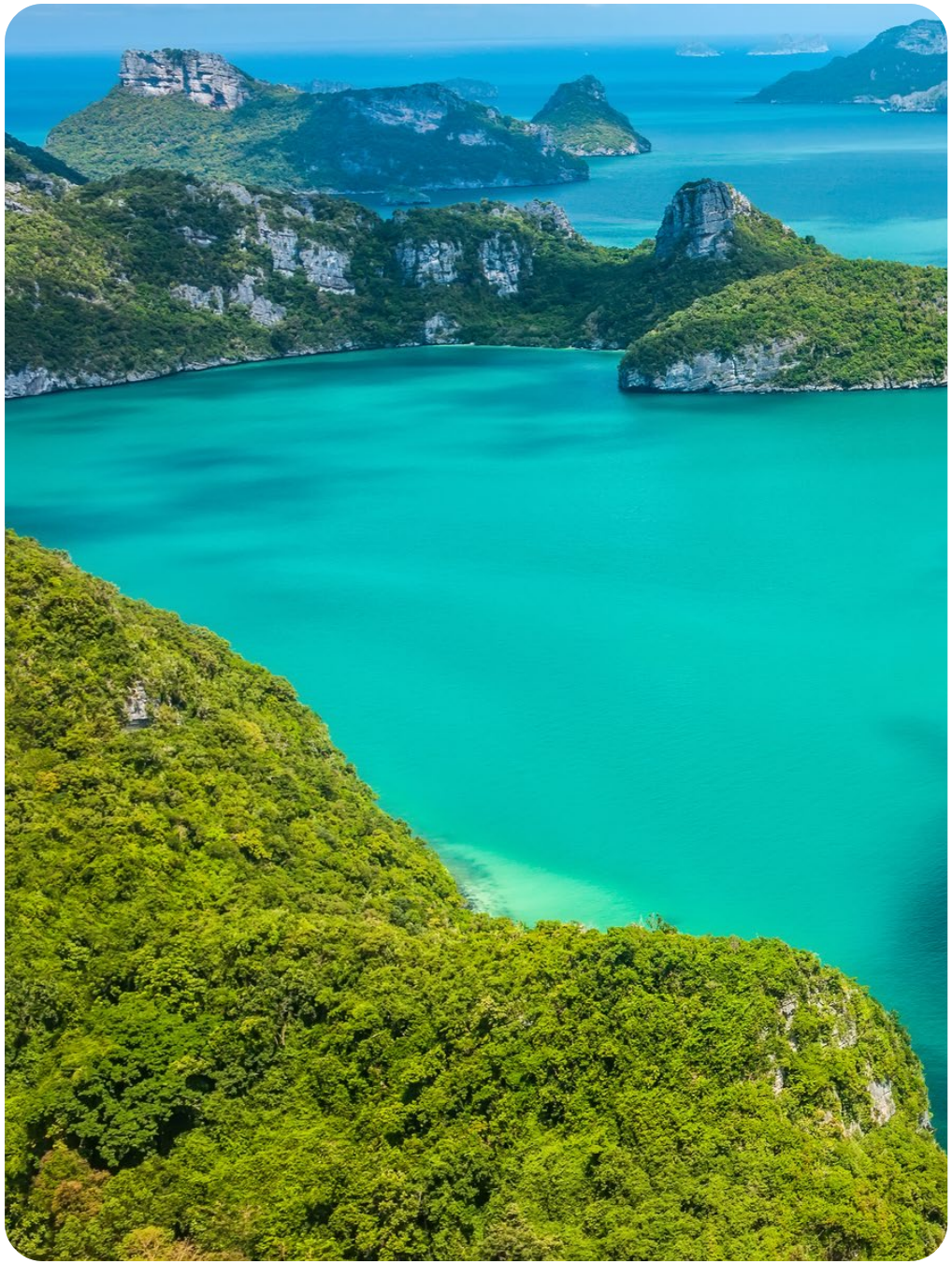
- 4% of parts are harvested components from de-installed systems.
- 13% of parts are repaired in our facilities.
- 47% of parts are certified as new (tubes).

75% of the weight of Performix 160A tubes is recycled back into the new tubes manufacturing.

Reduce the use of hazardous substances

REACH (EC) 1907–2006

GE HealthCare collaborates with the suppliers to ensure that imported articles and those manufactured inside the European Union conform with the REACH regulation (EC) No 1907/2006, Article 33.



Manufacturing

Through our environmental reviews, we also focus on implementing more renewable energy and reducing waste, when possible.

Renewable electricity	Power consumption is managed at the manufacturing site level and includes tubes, generators, AW workstations, mammography, and IGS systems.
	We are committed to efforts in reducing electricity consumption in our facilities.

Packaging and distribution

GE HealthCare imaging equipment has a robust and multi-sourced supply chain for systems and spare parts across our product portfolios.

Improved packaging	Incoming: Returnable packages between suppliers and manufacturing
	Toward the customer: Recyclable cardboard packaging for tubes replacing wooden crate
Product transportation	Truck transport: 14% Air transport: 86%

Product utilization

Our imaging products are designed to help enable energy efficiency through dedicated features and advanced applications to reduce the environmental impact. Ergonomic design can help to enhance health and potentially reduce environmental impacts, such as reducing waste and saving energy.

Ergonomically designed

Patient setup and positioning

Enjoy easy patient access and wide anatomy coverage at each and every working position.

Utilize commands at your fingertips wherever you are:

- Compact and flexible user interface at table side or on flexible arm support
- Direct access on detector for C-arm, table,[2] and detector motions
- IGS Control Center[3] for ergonomic access from any position

The new workplace respects ergonomics standards of human upper body postures and gestures in 95% of the population, according to standards ISO 11226:2000 and BS EN 1005-4:2005+A1:2008, for typical working positions.

Reduce noise

Perception of tube noise reduction is noted after redesign of the tube mounting interface.[4]

[2] Table motion not available for IGS 520 configuration
[3] Option available with Innova-IQ table
[4] Comparison of customer noise reduction perception on IGS 5, IGS 6 and IGS 7 systems with and without tubeholder.

Product utilization

Reduce staff burden	Create a personalized workplace to adapt to clinical needs & preferences.
	Clinician profile is tailored to unique needs and preferences with up to 50 personalized user profiles.
	Increase operating comfort with smartphone-like interactions on the touch panel.
	AutoRight, the first AI-based interventional image chain in the industry,[5,6] allows automatic adjustment of up to seven parameters[7] in real time to optimize image quality and dose.
Reduce energy consumption	Instructions are provided for use of the equipment to minimize the environmental impact during installation, use, and operation.
	GE Healthcare recommends shutting down the system when unused.
Reduce energy consumption during use	Standby power mode results in a 20% reduction in energy when idle.
	High Image Quality optimization and dose reduction features result in reduced power consumption: • myIQ[8] allows to noise reduction up to 53% or increased contrast up to 29% in Dynamic[9] across the image looks without increasing the dose. • myIQ allows noise reduction up to 77% or increased contrast up to 70% in Fluoroscopy across the image looks without increasing the dose.

[5] Autoright refers to intelligent image chain features of GE HealthCare's Interventional x-ray systems, from image acquisition to image processing and display.
[6] Based on competitive research, among major players in Interventional Imaging.
[7] One of the parameters is InnovaSense, an option applicable to Allia IGS 5 (IGS 530 configuration).
[8] IGS 520 configuration equipped with 20 cm detector, IGS 530 configuration equipped with 30 cm detector. System comes with Omega table (Omega IV table is only availablewith 20 cm configuration) or with InnovaIQ table. "IQ improvement is measured on Allia IGS 520, Allia IGS 730 with phantoms using various Plexiglas Thicknesses, acquisition parameters, 4 myIQ image looks and the NEMA spoke wheel tool (ref 1), calculating the contrast of moving wires and adjacent background noise. The amount of IQ improvement related to myIQ depends on the acquisition parameters, clinical task, patient size, amount of motion in the image, anatomical location, and clinical practice. Ref1: A new tool for benchmarking cardiovascular fluoroscopes; S. Balter, Radiation Protection Dosimetry, Vol. 94, No. 1–2 pp. 161–166 (2001)"
[9] Applicable to all regional variations of "Dynamic": Dynamic/Cine/Record.

End of product life

We are increasingly putting our retired products' materials back into the supply chain to maximize efficient use and minimize unnecessary waste. This circularity model enables our imaging products to extend their clinical impact through longer lifespans while reducing the environmental footprint. Additionally, we offer our customers support for upgrades and services throughout a product's lifespan, when available, to maintain optimal performance and help drive better patient outcomes.

Our refurbishment programs involve an extensive inspection and testing process, designed to bring equipment back to its original certified manufacturing specifications. If the system is not suitable for refurbishment, eligible parts are harvested for reuse after quality and performance testing, while the remaining parts are returned to dedicated recycling facilities.

Product utilization

Power consumption	Off mode: 0.4 kW·h Standby mode (no scan): 4.5–7.5 kW·h Scan mode: 5.5–8.5 kW·h (5% of Standby time)
Guidance for end of lifecycle	Equipment instructions are provided to minimize the environmental impact for disposal or recycling.
Upgradeable hardware and software options are provided as a solution to extend the product lifespan.	Innova™ IGS 5 underscore (5.3) and Autoright (AR) releases can be upgraded to an Allia IGS 5 system by replacing the gantry, cabinet, detector and table user interfaces and thus extending the lifespan.[10] Other hardware and softwares are either kept or refreshed.
Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions.	Allia IGS systems parts are eligible for the parts refurbishment program , in which they are considered for harvesting to re-use as service parts or repair or recycling
Waste reduction	This system is in accordance with Waste Electrical and Electronic Equipment (WEEE) regulations.

[10] The installed product lifespan is extended by upgrading the gantry, cabinet, user interfaces on site.

Digitizing healthcare through transformative innovations for a more resilient tomorrow

We are committed to investing in digital capabilities that help accelerate clinical decision making, optimize imaging operations, and drive efficiencies in exam workflows, all of which can improve patient outcomes. Enabling digital transformation will further enhance our predictive and maintenance service operations for the life of your products.

We are also dedicated to driving a more resilient and sustainable future in healthcare. Many factors, including the pandemic, climate-related weather disasters, and supply-chain issues amplified this need. Managing operations through these challenges requires resilience and perseverance.

Helping clinicians advance patient outcomes

Advanced applications and cutting-edge tools provide personalized data to drive actionable insights, helping healthcare professionals make fast, accurate clinical decisions for care pathways.

Gain actionable clinical insights quicker for earlier diagnosis	Interactive control of the IQ/dose trade-off with AutoRight cockpit[11]
	ASSIST Advanced applications (attachment rate 90%+)
	ASSIST solutions[12] provides advanced tools with simplified workflow to perform complex procedures.
Keep your imaging equipment up to date with advanced clinical applications	ASSIST packages are fully backward compatible
	For previous generation products, upgrade packages are available in order to keep imaging equipment up to date with advanced clinical applications.
Help improve patient outcomes with improved image quality	Legacy systems can be upgraded to the latest Allia™ IGS 5 version while reusing the existing tube (conditions apply) on site.

[11] Autoright refers to intelligent image chain features of GE HealthCare's Interventional x-ray systems, from image acquisition to image processing and display. IGS 520 configuration equipped with 20 cm detector, IGS 530 configuration equipped with 30 cm detector. System comes with Omega table (Omega IV table is only availablewith 20 cm configuration) or with InnovaIQ table.

[12] ASSIST solutions are composed of multiple medical devices. For more information, please refer to GE HealthCare's web site. www.gehealthcare.com/assist

Helping clinicians advance patient outcomes

Drive advancements with precision health

AutoRight, the first AI-based interventional image chain in the industry,[13,14] allows automatic adjustment of up to seven parameters[15] in real time to optimize image quality and dose

Intuitive ASSIST solutions[16] to significantly reduce radiation dose and contrast media.[17,18]

- Liver ASSIST Virtual Parenchyma
- Embo ASSIST AI
- Needle ASSIST

[13] Autoright refers to intelligent image chain features of GE HealthCare's Interventional x-ray systems, from image acquisition to image processing and display.
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[15] One of the parameters is InnovaSense, an option applicable to Allia IGS 5 (IGS 530 configuration).
[16] ASSIST solutions are composed of multiple medical devices. For more information, please refer to GE HealthCare's web site www.gehealthcare.com/assist.
[17] Outcomes will vary depending on the system, settings, clinical task, patient size, anatomical location, clinical practice and ASSIST solutions.
[18] Performance obtained from following publicly available peer reviewed papers: Novel integrated 3DCT and fluoroscopy fusion for LAAC. Value of Image Fusion Coronary angiography for the detection of CABG, Impact of Hybrid rooms with Image fusion on radiation exposure during endovascular Aortic repair, Percutaneous Bone Biopsies: comparison between CBCT and CT guidance, Significant patient radiation exposure reduction during complex liver IR procedures using a new generation angiography imaging room, Comparison of the number of image acquisitions and procedural time required for TACE of Hepatocellular Carcinoma with and without tumor feeder detection SW."

Optimizing imaging operations

Our AI-based and advanced digital solutions are designed to increase efficiencies across the radiology spectrum without increasing the administrative and training burden on radiologists and technologists.

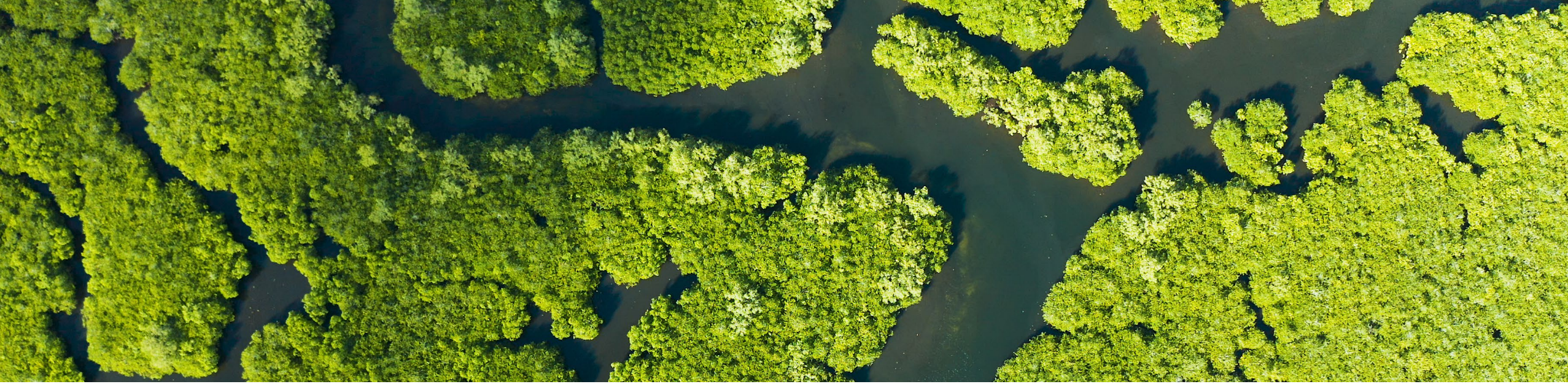
Reduce downtime	Clinical and operational capabilities are updated with Continuity™.
	Continuous and customizable clinical application training to optimize performance.
	ASSIST provides advanced tools with a simplified workflow to perform complex procedures.
Reduce downtime	Costs associated with downtime are reduced to a minimum thanks to OnWatch™ Predict Remote Services.
Cybersecurity	GE HealthCare's Design Engineering Privacy and Security (DEPS) process follows GDPR, HIPAA, NIST 800-53, NIST 800-30, ISO 27001, and NIST CSF requirements.
	DEPS (Design Engineering Privacy and Security) that includes NIST 800-53 and ISO 27001 security controls.
	Compliance with general data protection regulation (GDPR) and HIPAA. System and application hardening through DOD STIGs.

Enabling intelligent exam workflows

Intelligent automation features help to drive consistency, enable fast, easy exams, and improve workflow with fewer resources, all while achieving similar or improved outcomes.

Reduce setup time	Create a personalized workplace to adapt to clinical needs and preferences.
	Clinician profile is tailored to unique needs and preferences with up to 50 personalized user profiles.
Reduce exam time	Allia provides an offset C-arm to enable head-to-groin coverage without moving the gantry and easy access to patients for anesthesia and nursing needs.
Ease of use	Increased operating comfort with smartphone-like interactions on the Touch Panel.
	Compact and flexible user interface at table side or on flexible arm support
	Direct access on detector for C-arm, table,[19] and detector motions
	IGS Control Center[20] for ergonomic access from any position
Cleanability	Allia is based on a rail-free design for improved hygiene.
	Our equipment is designed to be cleaned and disinfected easily. We continue to test and approve new cleaning and disinfecting agents. Visit *Cleaning.GEHealthCare.com* for updates.

[19] Table motion not available for IGS 520 configuration
[20] Option available with Innova-IQ table



Creating a healthy world to help enable better patient outcomes.

GEHealthCare.com/about/sustainability

Not all products or features are available in all geographies. Check with your local GE HealthCare representative for availability in your country. Commercial availability of GE HealthCare medical systems is subject to meeting local requirements in a given country or region. Not all features are included in the standard system configuration. Contact a GE HealthCare representative for more information. Intended for healthcare professionals only.

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