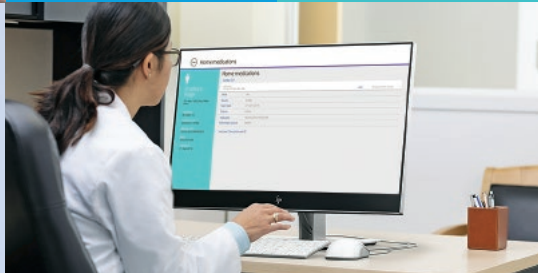
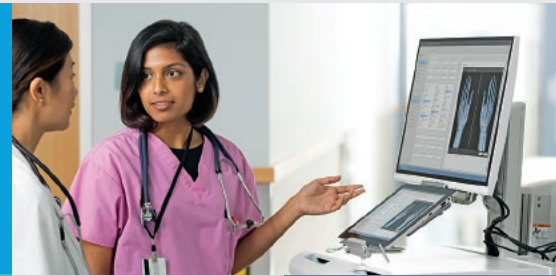


## Solution brief

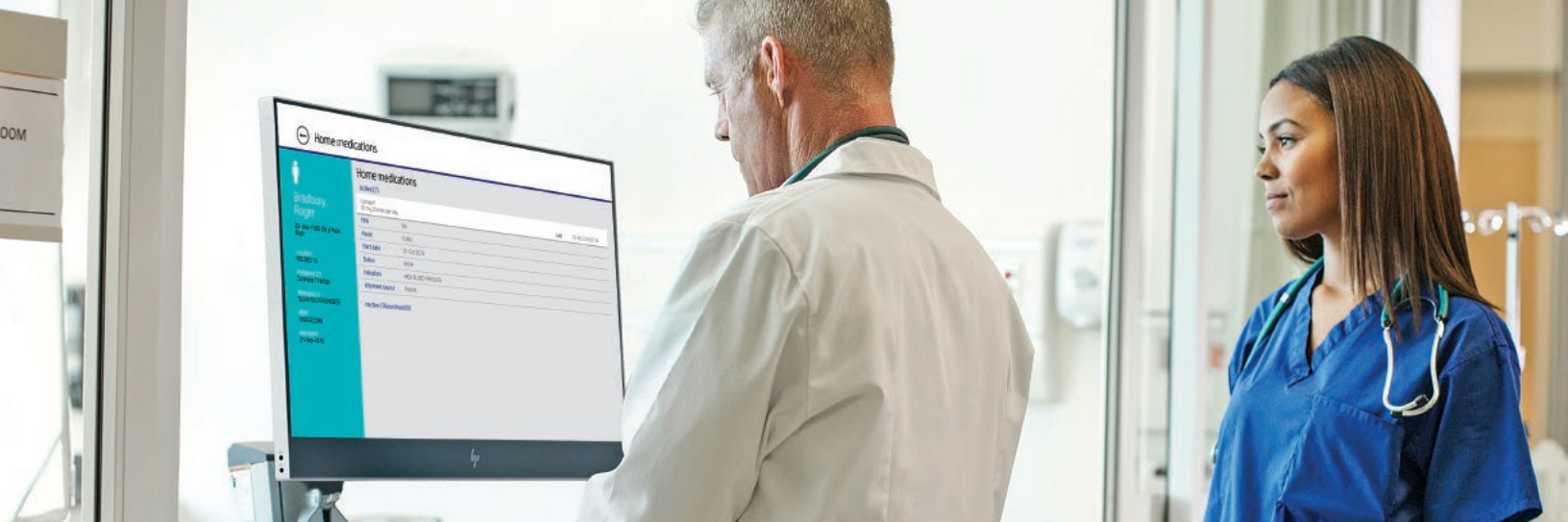
# HP in Healthcare



1.800.395.8685

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## Enabling improved patient care with innovative HP technology

Technology is transforming healthcare. Our rich history in this area—from instrumentation and chemical analysis to electronic component and medical equipment product lines—lives on in a complete portfolio that leverages our core technologies as well as an ecosystem of leading healthcare and independent solution vendors (ISVs). We help healthcare providers harness technology to improve the quality of care.

### Providing the best possible care

In the fast-moving, ever-evolving field of healthcare, our goal remains the same: enable providers by improving their care delivery capabilities, empower patients by engaging them in their own healthcare journey, and advance population health goals and initiatives.

**Enable providers** | HP enables healthcare professionals to provide better care by helping them access, capture, and share relevant data—quickly, accurately, and securely—at the point of care, wherever that may be. Our healthcare solutions help optimize clinical workflows and facilitate collaboration by care teams across organizational boundaries, improving the experience for everyone.

**Empower patients** | HP helps empower patients by connecting them to the people, information, educational experiences, and tools they need to participate in their treatment decisions and improve their health.

**Health for all with population health** | HP offers advanced mobility, connectivity, and innovative disease management and prevention solutions to local, regional, and national healthcare programs. We help improve the well-being of underserved and remote populations by introducing educational awareness programs and increasing access to both preventative and clinical care.



## 200 million

patient lives are touched by HP technology every year.



## Why HP solutions for healthcare?

HP's global leadership in computing and printing technologies combined with over 50 years of industry experience results in technology the healthcare industry can rely on. HP was recently named as a recipient of a 2017 BLI PaceSetter award for the healthcare market. HP won thanks to our wide range of products, services, and solutions that help streamline clinical workflows and improve how caregivers engage with patients.



**Core technology** | HP leverages top-performing core technology platforms to deliver the performance and reliability healthcare professionals demand day in and day out—whether bedside, on rounds, or in the office. Advanced engineering and intensive product testing—up to 115,000 hours on Elite product designs—ensure healthcare providers can rely on HP.



**Optimized for healthcare** | Guided by input from healthcare professionals, many HP computing and printing products such as the HC240 and HC270 Healthcare Edition Displays and the HP EliteOne 800 Healthcare Edition AiO are designed to meet specific healthcare requirements. These HP healthcare products are engineered to operate seamlessly in acute care, ambulatory, and field environments.



**Complete solutions** | Combining integrated, end-to-end, and custom solutions from HP and an ecosystem of leading healthcare and independent solution vendors, HP healthcare solutions integrate with top clinical applications for EMR, PACS, patient management, bed management, patient engagement, patient check-in, telehealth, remote patient monitoring, and more. Complete healthcare solutions often reduce costs, simplify workflow, and save time.



**World-class security** | Today's complex threats require a comprehensive defense that doesn't get in the way of providing patient care. Our products employ a multi-layered approach to security, including exclusive features such as HP Sure Start, HP Sure View, and the HP Manageability Integration Kit. Many of these security technologies can be found in our printers as well as our PCs. HP healthcare solutions are designed to comply with HIPAA regulations while providing simple, authorized access to vital information at the point of care. As the No. 1-rated company in identifying security vulnerabilities and threats, HP has the expertise, solutions, and services to help protect data, devices, and identities—and assist healthcare organizations in meeting regulatory requirements.<sup>1</sup>



**Low cost of ownership** | Do more for less with HP LaserJet printers. Original HP Toner cartridges featuring HP JetIntelligence produce up to 33 percent more prints per cartridge while consuming as much as 53 percent less energy.<sup>2,3</sup> HP Managed Print Services can help slash medical document lifecycle costs across your entire health system. By leveraging HP innovation, advanced engineering, and expertise in optimizing applications, assets, infrastructure, and management, budget-conscious healthcare organizations benefit by learning leaner, smarter, and faster ways to work.

1. Rated the top security vulnerability research organization four years in a row by Frost & Sullivan (2011, 2012, 2013, 2014). 2. Based on HP internal testing of predecessor devices completed 1/2015 or published information and subject to device settings. Actual results may vary. For energy efficiency, the HP M252 is 15%, HP M277 is 16% and the HP M553 is 53% lower versus predecessor. For details see [hp.com/go/1-claims](http://hp.com/go/1-claims). 3. Based on cartridge yields for HP 131A and 507A compared with HP 201X and 508X Original HP toner cartridges. For more information, see [hp.com/go/learnaboutefficiency](http://hp.com/go/learnaboutefficiency).



**Device-as-a-Service (DaaS)** | HP Inc. has launched a formal DaaS offering that allows healthcare organizations to purchase computing devices for a monthly price per user on a multiyear contract—typically 36 to 48 months. As part of that contract, HP offers a range of services that can be customized for individual customer needs and specific offerings tailored to healthcare.





## Care delivery

Enable providers with improved access to collaborative, personalized, and flexible technology built for the way they work, wherever the point of care may be.

# Better care delivery everywhere

To enable healthcare professionals to provide better care delivery everywhere, HP helps simplify security, collaboration, and access to relevant data at the point of care, wherever that may be. Clinicians and administrative support staff alike will work faster and smarter with HP detachables, convertibles, PCs, thin clients, workstations, DICOM and color-calibrated displays, and print technologies that help optimize workflows and increase productivity.

At HP, we help healthcare teams communicate better. By offering quick, easy, and secure access to the right information and services—anytime, anywhere—HP helps simplify the communication process, improve collaboration, and expand access to the best possible care.

## Point of care mobility

Maintaining personalized patient interactions is easier when you equip clinicians at the point of care with secure access to relevant information and the capability to quickly and accurately capture and record critical data.

**HP Notebooks** | Healthcare staff needing a full-sized premium keyboard for taking notes and entering data at the point of care can choose from a wide variety of portable HP notebooks, including the 2-in-1 hybrid HP Elite x2 notebooks with full-sized keyboards that detach for a highly mobile stand-alone tablet. The HP EliteBook x360 1030 is perfect for highly mobile clinicians and healthcare personnel with 360° of convertible versatility, unmatched security, and over 15 hours of battery life.<sup>5</sup> From the clinic to bedside rounds, the sleek, thin, and light detachable HP Pro x2 612 can keep up with a long battery life.

**HP ePrint** | The HP ePrint Enterprise mobile printing solution sits behind your firewall and works with virtually any device or printer.<sup>6</sup> Further protect information security with print tracking and management using HP ePrint Enterprise services.



**HP Elite x3** | Versatile enough to use while rounding and at a nursing station, this handheld device can be docked to easily access your virtualized Windows applications, including electronic medical records (EMR). Add the HP Elite x3 Barcode Scanner and Jacket for an ultra-fast, motion-tolerant, multipurpose scanning solution that accepts 1D, 2D, and hard-to-read barcodes.



**HP Thin Clients** | Give healthcare providers the capability of accessing their own personal virtual desktop from the cloud. By eliminating the need for local hard drives and other moving parts, HP Thin Clients reduce cost and risk. Ideal in clinical environments where silent, fan-free operation is a plus, HP Thin Clients greatly simplify IT management and enhance security with data and client software that are centrally managed versus on the device. Enable secure roaming with a “follow-me” workspace where NFC-badged staff can suspend and close a session in one location and then open the session and pick up right where they left off in another location.

## Best Product

HP Elite PCs—“Endpoint Security Solution”—  
2017 Cyber Defense Magazine InfoSec Awards<sup>4</sup>

4. Based on HP's unique and comprehensive security capabilities at no additional cost and HP Manageability Integration Kit's management of every aspect of a PC including hardware, BIOS, and software management using Microsoft System Center Configuration Manager among vendors with >1M unit annual sales as of November 2016 on HP Elite PCs with 7th generation Intel® Core™ processors, Intel® integrated graphics, and Intel® WLAN. 5. Battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See [bapco.com](http://bapco.com) for additional details. 6. HP ePrint requires an Internet connection to a web-enabled HP printer, and HP Connected account registration. For a list of eligible printers, supported documents and image types, and other HP ePrint details, go to [hp.com/go/hpconnecteddevices](http://hp.com/go/hpconnecteddevices). Mobile devices require Internet connection and email capability. May require wireless access point. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary. Some HP LaserJet printers may require firmware upgrades.



## Nursing/charting station

Empower healthcare teams with solutions that fit the work and the space available. HP compute, print, and imaging solutions make it easy to configure the best solution across the patient care cycle.



**HP EliteOne 800 Healthcare Edition AiO** | The HP EliteOne 800 All-in-One is perfect for a nursing/charting station, where space is at a premium. Robust performance and security features and a 23.8" diagonal display create a streamlined, versatile workspace.

**HP MFPs** | HP multifunction printers (MFPs) provide scan-and-print convenience on a desktop to transform your paper-based processes and print from mobile devices.



HP HC270 Healthcare Edition Display

**HP Healthcare Edition Displays** | HP offers bi-modal DICOM and color-calibrated, precision displays that deliver consistent views of clinical data and medical images for clinical review and collaboration.<sup>7</sup> HP Desktop Mini PCs attach to a mounting bracket on the back of the display for workplace efficiency.

### HP USB Keyboard and Mouse Healthcare Edition

The sleek, white keyboard and mouse simplify patient data entry and can be wiped down with commonly used germicidal agents. The keyboard's USB cable and cover are removable for additional cleanability.

## Patient-friendly admissions and discharge

Ensure fast, accurate capture of patient information with HP tablet, PC, display, and print solutions including patient-driven check-in kiosks. Put patients on the path to wellness and decrease re-admissions by reducing the discharge paper shuffle.



**HP RP9 Retail System** | Offering versatility in a small footprint, the HP RP9 Retail System is a true all-in-one (AiO) PC that's ideal for streamlining patient check-in. Easily show and share details on an 18.5" touchscreen, and complete your system with a range of hardware options including a barcode scanner, fingerprint reader, and more.



### HP Officejet Enterprise Color Flow MFP

The HP Officejet Enterprise Color Flow MFP scans, prints, and produces laminated, bar-coded patient wristbands with one device.

- Digitize paper-based information and file the editable electronic text directly to the file of your choice, including SharePoint®, email, fax, HP Enterprise Content Management Service, or network folders.
- Affordable HP color on wristbands, charts, treatment plans, labels, and documents helps alert caregivers to important health information.



**HP ScanJets** | Paper-based healthcare processes and medical records are labor-intensive, error-prone, and costly to maintain and audit. Improve your paper processes with the HP ScanJet 7000 s3 and get powerful batch-scanning capability customized for high-volume needs in a compact desktop scanner. Create digital copies for your electronic health records at scan speeds up to 75ppm/150ipm to keep your office flowing smoothly.<sup>8</sup> Deliver faster and more efficient patient care, realize improved health records management, and see significant cost savings when you digitize with HP ScanJet.

7. HC240 and HC270 are not intended for primary image interpretation or diagnostic use.

8. Black-and-white scan speed measured at 300dpi using included HP Smart Document Scan Software. Color scan speed measured at 300dpi. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. 9. HP offers select workstations that are registered FDA Class I Medical Devices for your PACS system. When ordering your workstation, please choose from these workstation part numbers: Z1 D4H09AV, Z1 G2 J5V15AV, Z1 G3 T0J59AV, Z2 Mini X8V11AV, Z220 D4H10AV, Z230 E9H74AV, Z240 M6V41AV, Z420 D4H11AV, Z440 G8W00AV, Z640 G8W05AV, Z620 D4H12AV, Z640 G8W05AV, Z820 D4H13AV, Z840 G8Q10AV.

## PACS-based radiology

Widely used in PACS environments around the world, HP Z Workstations paired with medical-grade diagnostic imaging displays store and display CT, MRI, and PET imaging results.

**EchoPixel True 3D Solution powered by HP** | Bring patients' medical images to life with an unprecedented 3D imaging solution. EchoPixel True 3D enables physicians to see and interact with medical images the way they would with real physical objects.

**Diagnostic imaging displays** | Medical-grade diagnostic imaging displays from HP partners Barco or Eizo feature enhanced visualization with uniform brightness and DICOM calibration.

**HP Z Workstations** | HP Z Workstations can import and export data from both external and internal image archive systems. Select HP Z Workstations are registered FDA Class I Medical Image Storage Devices under 12 CFR 892.2010.1.<sup>9</sup> HP also packs powerful computing and graphics performance into mobile workstations for use beyond the radiology department.

## Pharmacies

Security-enhanced prescriptions help limit fraud and diversion, prevent errors, enhance medication safety, and increase time and cost efficiencies across the supply chain.

**HP desktops** | Replace hand-written processes with secure Computerized Physician Order Entry (CPOE), using HP desktops and automated medication management with electronic alerts. HP desktops give you power, versatility, and peace of mind with a complete set of security features that address patient data privacy concerns.

**HP retail systems** | HP retail systems integrate with multiple third-party payment devices to streamline the patient payment process. Use the retail system with an optional hand or shoulder strap as a mobile payment system, or mount it on a wall or stand for self-payment services.

**HP Secure Prescription Print** | Add another level of assurance with HP Secure Prescription Print authenticated prescriptions.

- Printed copy-void pantograph that reveals the word "COPY" when photocopied
- Customizable micro-print font
- Anti-counterfeiting warning box to validate originals

### Admissions

- HP RP9 Retail System
- HP MFPs
- HP ScanJets
- HP Desktops
- HP AiOs
- Wristband printing

### Point of Care Mobility

- HP Elite x3
- HP Notebooks
- HP ePrint
- HP Thin Clients

### Nursing Station

- HP EliteOne 800
- HP MFPs
- HP Healthcare Edition Displays
- HP Healthcare Edition Washable Keyboard and Mouse

### Radiology

- EchoPixel True 3D Solution
- Diagnostic imaging displays
- HP Z Workstations

### Pharmacies

- HP Desktops
- HP Retail Systems
- HP Z Workstations

"True3D allows the user to instantly view larger portions of the colon at one glance in a time-efficient manner. I found True3D to be less fatiguing, and it keeps the reader engaged and interactive."

—Judy Yee, MD; FACR; Professor and Vice Chair of Radiology and Biomedical Imaging at UCSF; Chief of Radiology at the San Francisco VA Medical Center



## Patient engagement

Empower patients to participate in their own healthcare journeys by actively engaging their healthcare team with user-friendly, always-connected, enterprise-class HP devices and solutions.



## More informed and involved patients

According to the Institute of Healthcare Communication, research indicates that a clinician's ability to communicate information can make all the difference in a patient's ability to follow through with medical recommendations and adopt preventative health behaviors. Better communication can have a profound effect on health outcomes, as well as patient perceptions and satisfaction.

Knowledge is power. Help empower your patients by using HP's innovative, user-friendly, always-connected technology to link them to the people, information, educational experiences, and tools they need to actively participate in their healthcare decisions. By helping inform, educate, and motivate them every step of the way, you'll help speed recovery, improve patient satisfaction, and reduce re-admissions.

## Admissions and in-patient

Better patient satisfaction starts with improving the admissions and in-patient experience using HP and partner technology.



**HP Desktop Mini PCs** | Patients can use bedside-mounted HP touch monitors powered by ultra-slim PCs to learn more about their condition and treatment. An HP Desktop Mini PC with touchscreen display can be tailored to deliver pre- and post-operative education, as well as communication services such as messaging, scheduling, and multilingual support.



**HP Patient Check-In Kiosk Solutions** | Streamline patient-driven check-in, minimize paper forms, and eliminate duplication of data entry. Our solutions will reduce time in the waiting room and improve overall patient satisfaction.

## Patient education

Experience is a powerful teacher. Healthcare providers can use HP technology to create immersive learning experiences for patients that can help change their lifestyle and health behaviors.



**HP Sprout** | Using the new HP Sprout creation station with dual-screen displays, health educators and medical experts can collaborate easily and apply powerful technologies including instant capture, direct content manipulation, and 3D projection to create immersive learning experiences for patients.



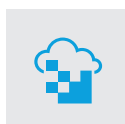
**Patient Nexus Point-of-Care** | Developed with the philosophy that interactive patient education leads to more effective shared decision-making, Patient Nexus Point-of-Care interactive applications by Visual Health Solutions engage patients and their families with the right tools at the right time for an improved point-of-care experience.



**HP tablets** | Extend patient engagement into ambulatory settings, the home, and the community using HP tablets for data-sharing and user-friendly access to cloud-based apps and tools.

## Chronic disease management

An integrated care approach to managing illness—including screenings, check-ups, monitoring, and patient education—can improve a patient's quality of life and reduce healthcare costs by preventing or minimizing the effects of the disease.



**Remote Patient Monitoring Solutions** | HP partners with telehealth providers to enable authorized access to remote vital sign monitoring, communication, and patient data through a cloud-based web portal that meets HIPAA technical requirements using an HP tablet or notebook as the wireless mobile gateway.



## Population health

HP is helping to make healthcare more accountable, inclusive, and responsive by facilitating collaborative solutions for disease management, prevention, and the promotion of health and wellness.



## Better health for all

By equipping organizations with robust, flexible technologies that enable them to offer the types of programs and services needed to serve populations both large and small, HP helps keep communities healthy through improved local, regional, and national health initiatives.

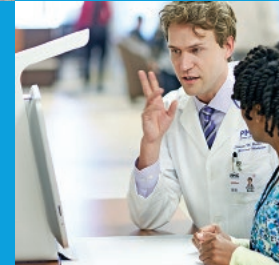


**Mobile clinic solutions** | Provide health and wellness to the far reaches of your communities with HP's industry-leading range of powerful, affordable computing solutions, DICOM-calibrated displays, secure scan and print, and offerings that promote patient health literacy. Improve healthcare provider access wherever the point of care may be with collaborative, personalized, and flexible technology built for the way providers work.



# A partner you can rely on

In healthcare, downtime simply isn't an option. That's why you can rely on HP. For more than 50 years, HP has been working to help make healthcare more accountable, inclusive, and responsive. Today, we leverage the latest advances in mobility, cloud, and security to help enable providers and empower patients with intuitive solutions that securely access relevant data, applications, and services to deliver better care and patient experience.



**Top global technology brand** | HP is a recognized leader in computing, imaging, and printing technology and services around the world. The depth and breadth of the HP healthcare portfolio, backed by a full suite of flexible HP support services with global reach, make it easy for both small practices and big health systems to get everything they need from a single source.



**Partnering to solve critical industry needs** | HP partners with leaders in healthcare and technology to help reduce healthcare costs, risk, and complexity.



**A smarter approach to security** | The world relies on HP for a smarter, more proactive approach to security. As healthcare organizations seek to manage the risks that arise from a growing number of devices and applications accessed over the network and from the cloud, HP helps with holistic approaches that encompass compliance and audit, policy, risk and threat, training and awareness, and a technical architecture. From the HP Sure Start self-healing BIOS to HP Sure View integrated privacy screens, HP PCs are designed to safeguard the device, your identity, and your data from the inside out.



**A smarter approach to IT management** | HP web- and cloud-based IT management solutions help healthcare providers reduce cost, risk, and complexity. HP Touchpoint Manager, for example, enables health systems to manage all of

their client devices—PCs, tablets, and smartphones from various manufacturers, running Android, iOS, and Windows operating systems—with one software tool. The ability to centrally monitor devices and support users remotely, with proactive alerts, enables IT to anticipate and quickly solve issues and significantly reduces operational effort and expenses.



**Expert lifecycle services** | Make the most of current assets, transition to next-generation platforms, and augment staff with skills and resources to meet aggressive timelines. HP comprehensive hardware, software, financial, and support services meet the needs of large and small healthcare organizations across the life cycle and across heterogeneous environments. Wherever you may be, HP and its certified service partners provide setup, repair, replacement and user support in 160 countries.



**Advancing the standard of care** | Going forward, HP remains committed to continued investment in healthcare innovations, solutions, services, and partnerships to advance the objectives of providers, patients, and policy makers. Together, we can create a future in which caregivers are empowered, patients are engaged, and nonprofit organizations and governments are equipped to provide the best possible care and improve health everywhere.



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