

CASE STUDY

Phoenix Children's Hospital helps patients heal with modern, personalized, and secure digital experiences



Key facts

- Industry: Healthcare
- Location: Phoenix, AZ

Challenges

- Provide every child with modern, personalized options for entertainment and communication
- Improve nursing efficiency by enabling secure mobile EHR access
- Conserve operating budget and staff resources

Results

- Improving engagement and morale for patients and parents
- Increasing productivity and accuracy for nursing staff with mobile care app
- Better security with unified endpoint management
- Costs reduced by 90% compared to off-the-shelf solutions

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– David Higginson, EVP/Chief Administrative Officer/Chief Information Officer, Phoenix Children’s Hospital

Overview

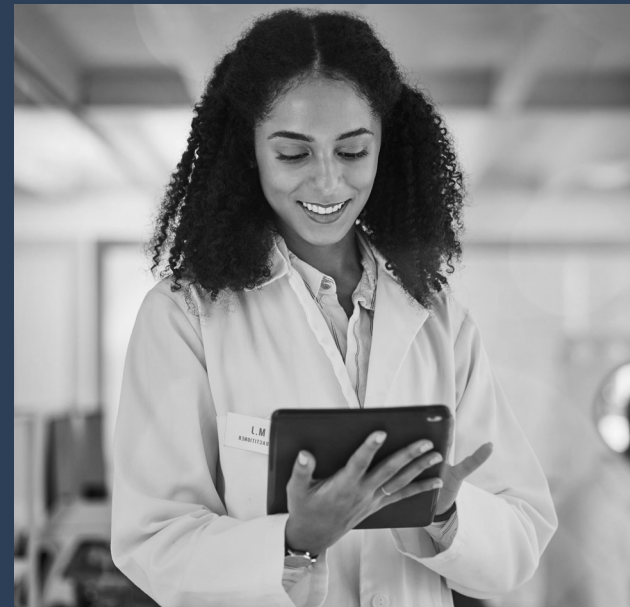
Phoenix Children’s Hospital has provided hope, healing, and top-quality healthcare for children since it was founded in 1983, and it has grown to become one of the largest children’s hospitals in the United States. With 433 beds and a medical staff of over 1,000 pediatric specialists, the hospital provides inpatient, outpatient, trauma, and emergency care across more than 75 pediatric subspecialties.

Caring for sick children – especially those with serious medical issues – takes a special kind of sensitivity and engagement. Most children don’t want to be in the hospital; they’re often scared and bored, and they miss their friends and family. Anything a hospital can do to keep them entertained and positively engaged can have a real impact on their attitude and their recovery.

Phoenix Children’s Hospital (PCH) understood that the old model of having a TV set and set-top box in each room could not provide today’s youth with the digital experiences they expect. PCH wanted to give every child their own device, personalized for their language, age group, and family preferences. Instead of paying millions of dollars a year for an off-the-shelf patient engagement solution, PCH used VMware AirWatch, extended with Mobile Access and Control (formerly GroundControl), to automatically provision, manage, and wipe iOS devices. The results? More smiling children’s faces and a more mobile, productive nursing staff – at 90% less cost.

The challenge:

PCH wanted to use iOS devices to improve both patient engagement and nursing mobility. It also wanted a platform that could help support the “consumerization” of hospital IT, allowing patients and their families to view medical records and educational videos by using familiar devices. But first, PCH needed a way to unify endpoint management and automate provisioning to conserve staff resources. “Having a zero-touch solution was an absolute requirement with our daily patient turnover rate of approximately 25%,” says David Higginson, EVP/chief administrative officer/chief information officer, Phoenix Children’s Hospital. “We couldn’t afford to dedicate multiple full-time employees just to checking in and checking out mobile devices.”



Solution:

To enable patients to use Apple iPads at their bedside, PCH used VMware AirWatch for mobile device management (MDM) along with provisioning technology from Mobile Access and Control. PCH benefits from a fully integrated solution, driven by deep API links. PCH uses those APIs to integrate with Allscripts, its hosted EHR system. An admission, discharge, and transfer (ADT) feed from Allscripts securely provides the information needed for AirWatch and Mobile Access and Control to automatically personalize an iPad for each patient. “We recommended that Phoenix Children’s Hospital use AirWatch for MDM because VMware’s APIs outshine the competition by far,” says Aaron Freimark, Sr. VP, Product Management.

When a patient gets to their room, an iPad is waiting – personalized for the child’s age, language, and family preferences about what type of content and apps the child is allowed to access. The 300 iPads are tethered and on a 10-foot cable, keeping them secure and charged yet still easily accessible by children and their parents. When a patient is transferred or discharged, their personal information is automatically wiped from the device, allowing patients the freedom to use their own accounts and passwords during their stay without worry.

“The awesome integration between AirWatch and Mobile Access and Control enabled us to be successful,” says Higginson. “We looked at competitors, and we couldn’t find any other technology combination that provided such an elegant solution for patient entertainment and engagement. It was also very affordable, saving us 90% compared with the off-the-shelf patient engagement solution many hospitals are using.”

The hospital also used the joint solution to equip its nursing staff with a mobile EHR without placing a device management burden on IT. Nurses now use the Allscripts Mobile Care app on 500 Apple iPhones, giving them the ability to enter and access patient and medication information at the bedside. If devices have problems, nurses can quickly reimage them without assistance from IT by plugging them into a designated USB hub. The iPhones don’t work outside the hospital network, as the lock screen makes clear, deterring theft. “We’re able to give nurses a complete sense of ownership of these devices in a secure environment without us having to do any work on the back end,” says Higginson. “We haven’t lost a single device.”

Business results and benefits

Giving every child their own personalized iPad has transformed the patient experience at PCH. Children can access social media, games, videos, and music for personal entertainment, as if the tablet were their very own. It's also easier for parents and families to understand children's diagnoses, prognoses, and treatment options because they can watch educational videos multiple times and securely access health records via the FollowMyHealth app. If parents don't want their child using the iPad when they're gone, it becomes a clock.

Higginson has no shortage of emotional anecdotes about how the devices have impacted the lives of patients and families. He tells the story of a formerly estranged father who became reacquainted with his son by playing video games with him during a hospital visit; of a family receiving a life-altering diagnosis for their child, yet still leaving the hospital feeling hopeful and confident because of the way the information was presented; and of children with cystic fibrosis who must be isolated due to risk of infection, but still feel connected to the outside world because they can use apps and access social media.

"Being in IT, we don't always get to feel that we've made a difference in children's lives the way that doctors and nurses do," says Higginson. "But that's exactly what has been enabled. We are helping patients feel more optimistic and more comfortable by giving them a personalized device to enhance their communication and entertainment options. It's a morale booster, and when you're talking about a sick child, the importance of a positive outlook cannot be overstated."

Nurses are more productive as well, with the ability to look up clinical information at the bedside instead of leaving the patient's room to find a PC. They can scan armbands and medication using a lightweight scanner attached to the iPhone, saving time and reducing potential for human error.

Looking ahead

PCH now has the groundwork in place to expand usage of the iOS devices. The next plan is to allow patients to order their meals via an app, and PCH is developing a portal to facilitate a more interactive experience with care providers and other patients. "The solution we've put in place is easily repeatable at any other hospital, or any organization that wants to provide secure device access with no attention required from their staff," says Higginson."

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