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### **Download the Crowe Events App**

Access links to each session, receive event reminders, and more.

### What's next?

Wrap up with the Closing Keynote featuring John O'Leary this afternoon, 3:15 p.m. CST

### **CPE certificates**

**NEW** this year – download CPE at the conclusion of each session.

### **Get social**

Join the Healthcare Summit 2020 group on the Crowe Hive Network and share your Summit experience here using #HCSummit

#### **Need something?**

Email <u>hc.summit@crowe.com</u> – we're here to help!



### Innovation Keynote: The Intelligent Healthcare Experience

Sept. 23, 2020

Presented by:

Melissa Dill, Crowe Kathleen McGrow, Microsoft Charles Drayton, Microsoft



•Let's talk about technology in healthcare

•Enabling healthcare in a digital world

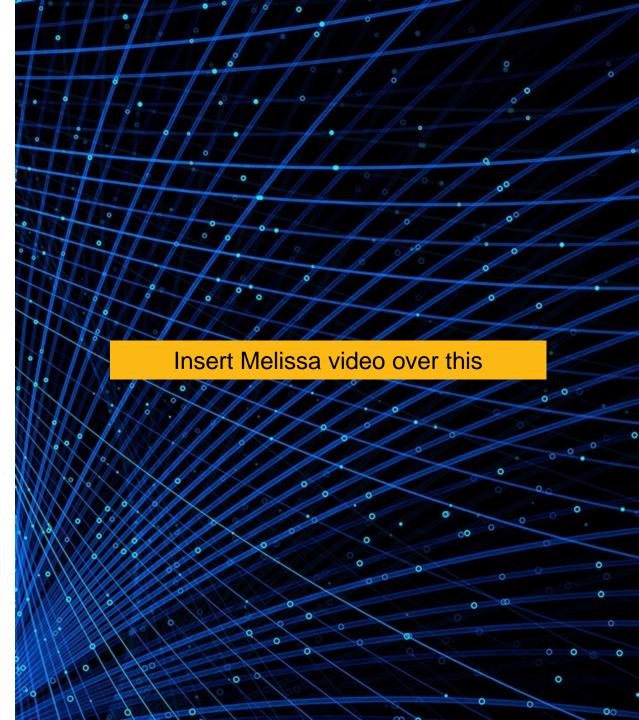
•The Intelligent Healthcare Experience

CROWE HEALTHCARE SUMMIT / THE POWER OF COMMUNITY

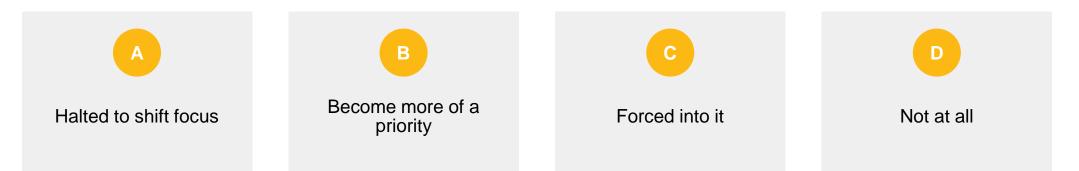
# What's the talk in healthcare technology?

- Unprecedented acceleration in enabling remote work
- Rise of automation
- Table stakes technology
- Data sharing
- Remote patient monitoring
- Virtual communications from within the hospital or clinic

and...



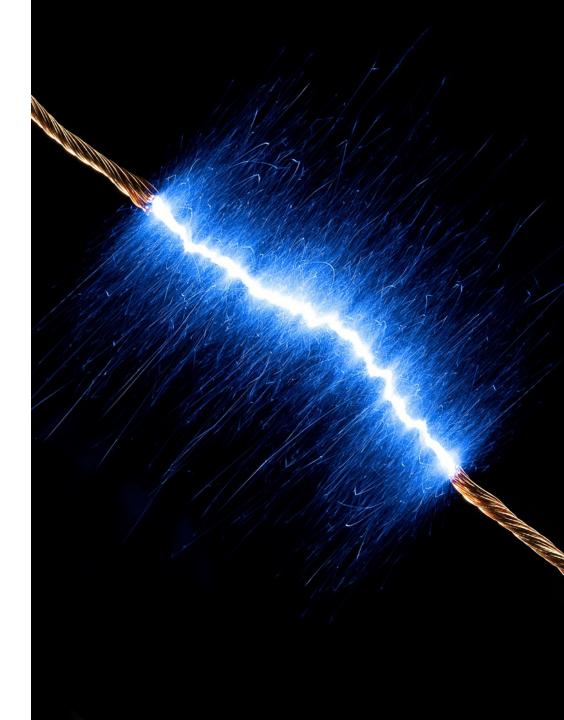
## How has COVID-10 impacted technology improvement, automation, and innovation within your organization?



### Telehealth | Virtual Care Telemedicine | Remote Visits

### Provider technology is *not* really the difficult part...

patient and physician connectivity is.



Polling Question

### What is the most difficult part of healthcare technology?



# Up next...something different!

#### Enabling Healthcare in a Digital World

- Kathleen McGrow DNP, MS, RN, PMP Chief Nursing Information Officer
- US Health & Life Sciences, Microsoft

#### The Intelligent Health Experience

- Charles Drayton is the Chief Technical Architect and Healthcare & Life Sciences Lead
- Microsoft Technology Center (MTC) in Chicago, Illinois





### Kathleen McGrow

Introduced by spinning intro video

### Enabling Healthcare in a Digital World

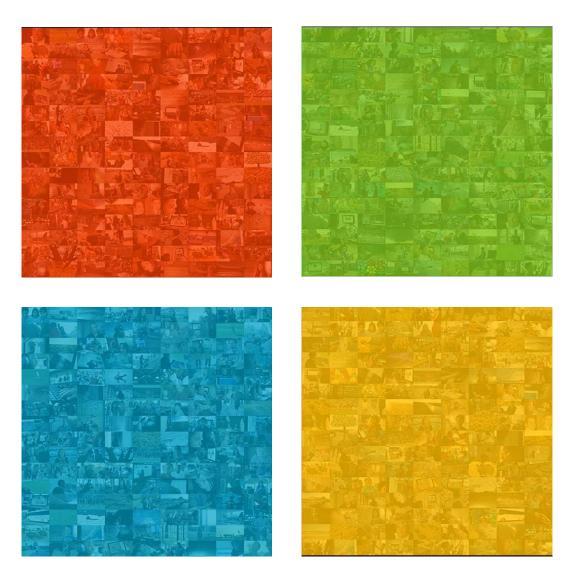
Kathleen McGrow DNP, MS, RN, PMP Chief Nursing Information Officer US Health & Life Sciences Microsoft

### Microsoft's mission

Empower every person and every organization on the planet to achieve more

### US Health & Life Sciences mission

Empower our customers and partners to make health and care personal, effective, and affordable



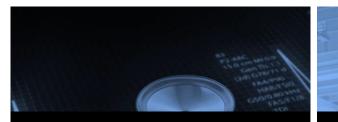
### Digital transformation in health

Technology enabled care, health promotion and disease prevention that advances the quadruple aim



### Healthcare in transition

### **COVID-19 disruption and challenges**



### 20-75%

Provider layoffs amid hospital & health system-wide disruption, layoffs, reassignments, and pay cuts

### **↓**Margins

And low cash flow forcing partnerships and M&A to survive with depleted reserves



### 70%

Average amount of elective procedures cancelled in Q2 plummeting income while expenses escalate



Role of healthcare leaders to move from managing the crisis to reinvent a successful future

#### **Ongoing Healthcare system impacts**



**81%** Patients are unsatisfied with their current healthcare experience

**\$6.2B** Loss per year to data breaches, amid growing pressures in security and compliance



**41%** Providers say data and analytics challenges is preventing them

care models

from succeeding in value-based



**14 million** By 2030, providers will suffer from a projected shortage of healthcare workers worldwide



### **Hub for Teamwork**

# **TELEHEALTHTELEMEDICINE**

### **Virtual Health**

connects clinicians, patients, families, care teams and health professionals to provide health services, promote professional collaboration, support self-management, and coordinate care across the care continuum

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VIRCERE & PARTICIPAL VISTON VISTONICATIONS RIDGERS

"I think it's fair to say that the advent of telehealth has been just completely accelerated, that it's taken this crisis [COVID-19] to push us to a new frontier, but there's absolutely no going back...(it's) the most clear example of untapped innovation."

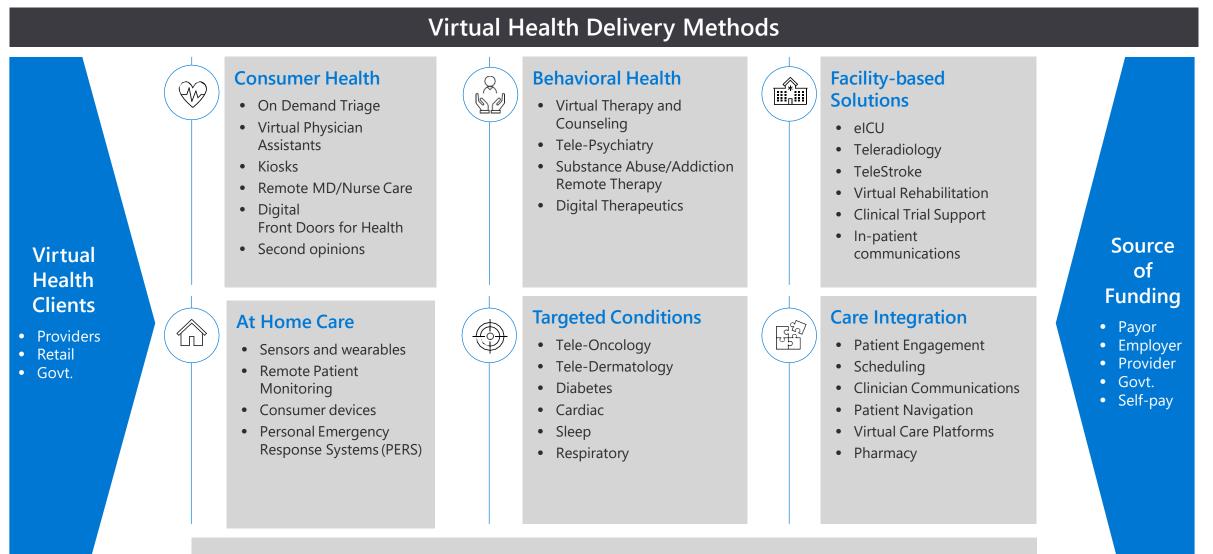
> — Seema Verma, Administrator Centers for Medicare and Medicaid Services

The Editorial Board, "The Doctor Will Zoom You Now", Wall St Journal , April 26, 2020

### **Attendance Check**



### What does virtual health mean to your organization?

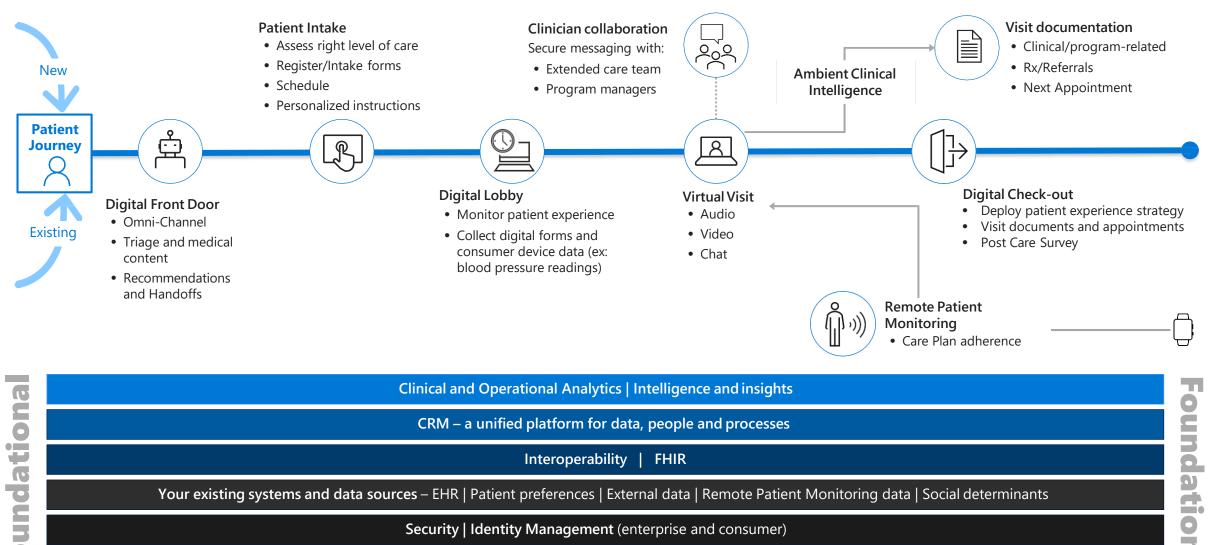


Data Integration, Analytics, AI, SDoH analysis

### The hub for teamwork



### Health organizations want a more connected, data-driven and seamless virtual health experience for both patients and clinicians



Security | Identity Management (enterprise and consumer)

0

Equitable access for isolated and vulnerable communities

### **Better Care with Virtual Health**

#### **Unified and Integrated System of Engagement**



Improve Quality & Care Outcomes



Optimize patient care management



Share knowledge across research teams







Simplify IT Management

### **Microsoft Teams**

The hub for teamwork in Office 365



Communicate

through chat, meetings & calls



### Collaborate

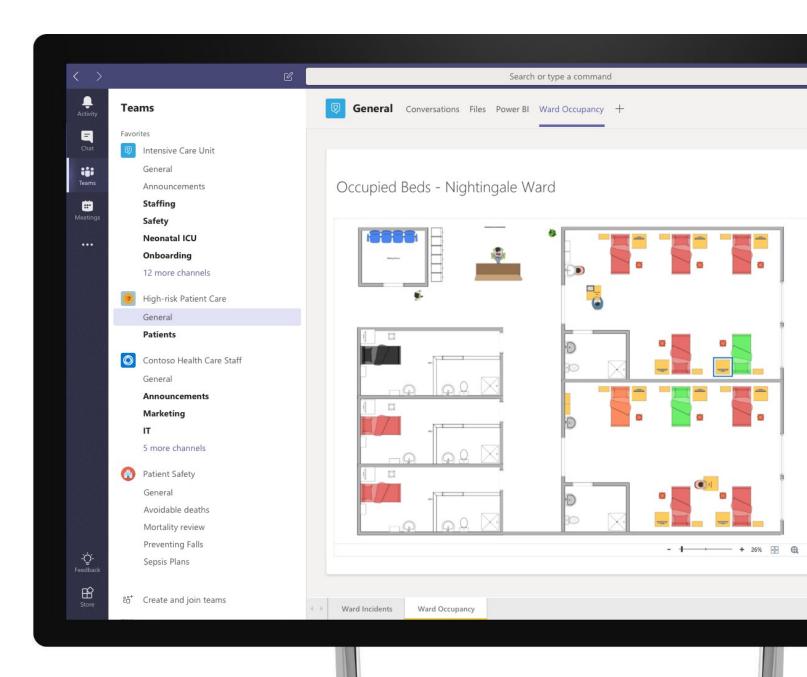
with deeply integrated Office 365 apps

**Customize & extend** 

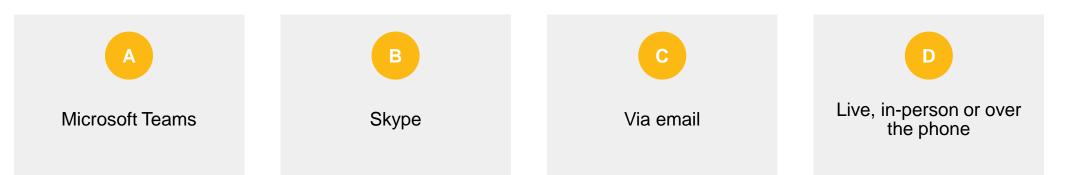
with 3rd party apps, processes, and devices

### Work with confidence

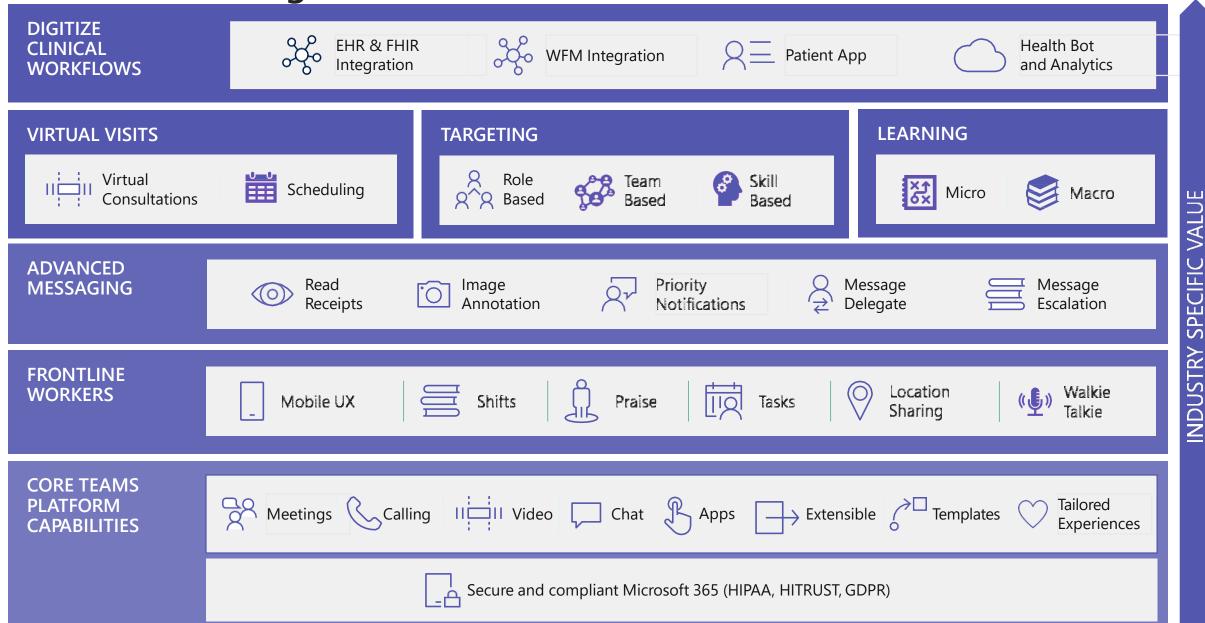
enterprise level security, compliance, and manageability



## Aside from virtual health processes, how does your organization communicate internally?



### Healthcare building blocks of Microsoft Teams



**Better Care with Virtual Health** 

### **Virtual Consults**

**External Patient** Population



**Clinician to Clinician** Telecollaboration



Learning & Training



Intelligent Meetings & Al

Open & Extensible Platform



Room Systems & Devices

### Telehealth: Built with Intelligent Meetings

### More effective, real-time conversations

Join online meetings with HD video, VolP, and dialin audio conferencing options

Mobile, desktop, browser and certified devices

One-touch join with Skype Room Systems

Support for Surface Hub and existing rooms

### Intelligent meetings

Guest Meeting Join Support for External Attendees (including plugin-less meeting join)

Related files and chat history at your fingertips

Cloud recording of meetings with transcription and translation, indexed for searching



### **Artificial Intelligence**







#### Inline Message Translation

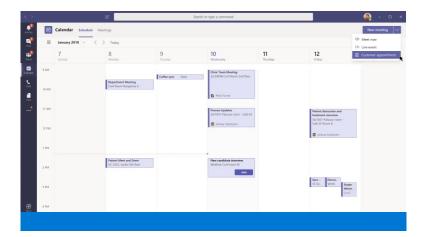
Meeting Recording Transcription

Mobile Companion Mode

#### Background Blur

### **Patient Virtual Visits**







#### Seamless patient Join

Patient Join via Web Browser or Mobile App with no account needed

Virtual Waiting Room and Lobby with Company Branding

Chat, Phone Calling, Video, and Sharing



#### **Provider experience**

Notification when patient arrives in the waiting room

Join appointments from multiple devices, including desktop, web, mobile, and room systems with cameras

Ability to Admit Patients, Add Participants

#### Scheduling flexibility

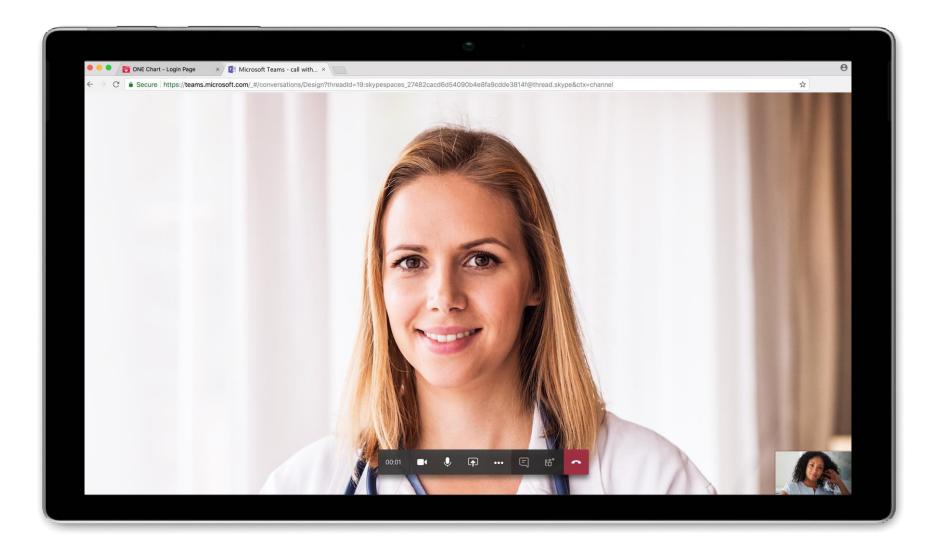
Simple tool for creating virtual appointments inside of Microsoft Teams

APIs available for Appointment Creation from existing systems

Integration with EHR Scheduling Systems

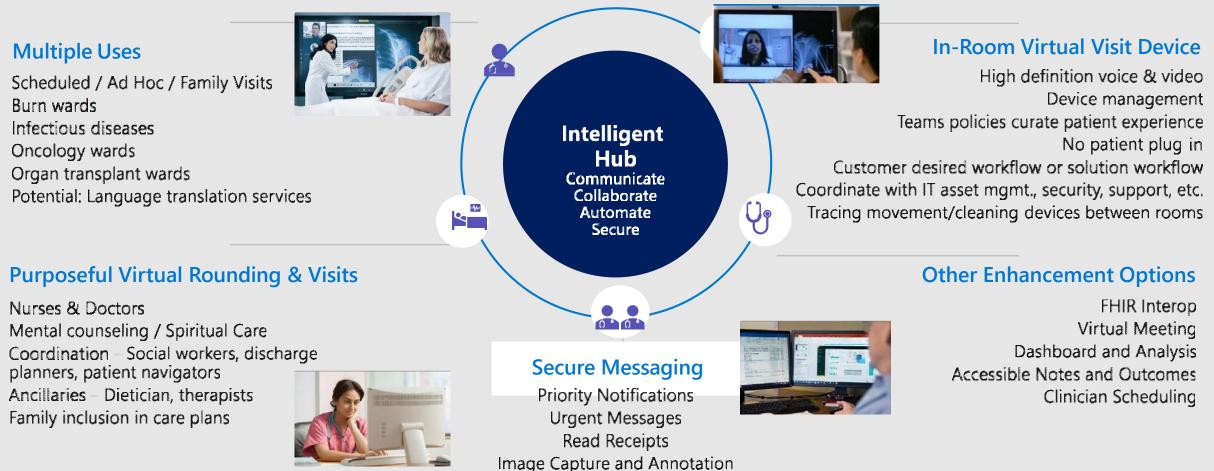
### **Patient virtual visits**

High quality video with no Plugin install for patients



### "Virtual Rounding"

- The need for safe patient communications has always been there. COVID-19 only exacerbated it.
- -Enhance care using existing investments.



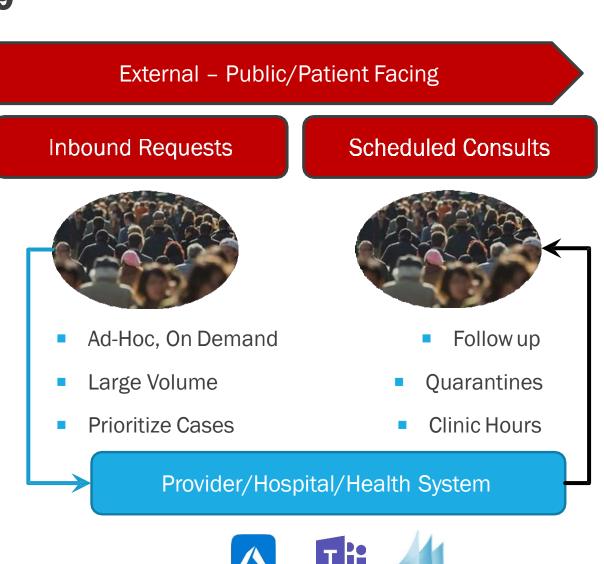
Flexible and secure patient communication approach for staff, clinicians, family and volunteers in many situations Reduce exposure risk & PPE Consumption / Streamline care & admin processes / Include approved family or loved ones

### **RESPONDING TO CHALLENGE OF COVID-19**

#### Internal – Employee/Contractor Facing



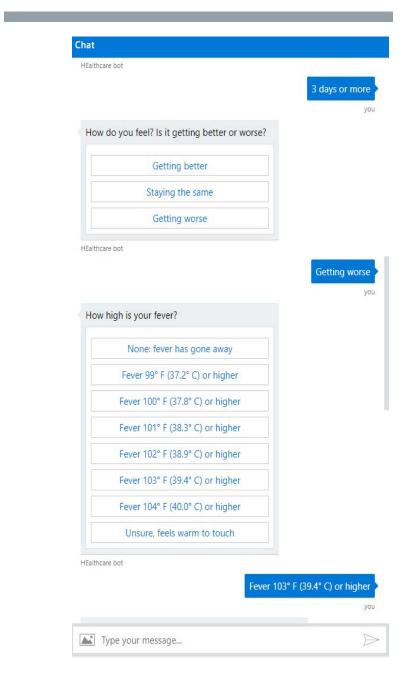
- Teams & Meetings enable virtual work and collaboration from anywhere
- Company Communicator BOT to reach every employee in Teams - distributed comms.
- Crisis Mgmt. PowerApp App to enable information, fill out forms, continue virtual activities
- SPO Template Provide news & updates, enable access to key capabilities within your organization



### **EXTERNAL - INBOUND ENGAGEMENT**

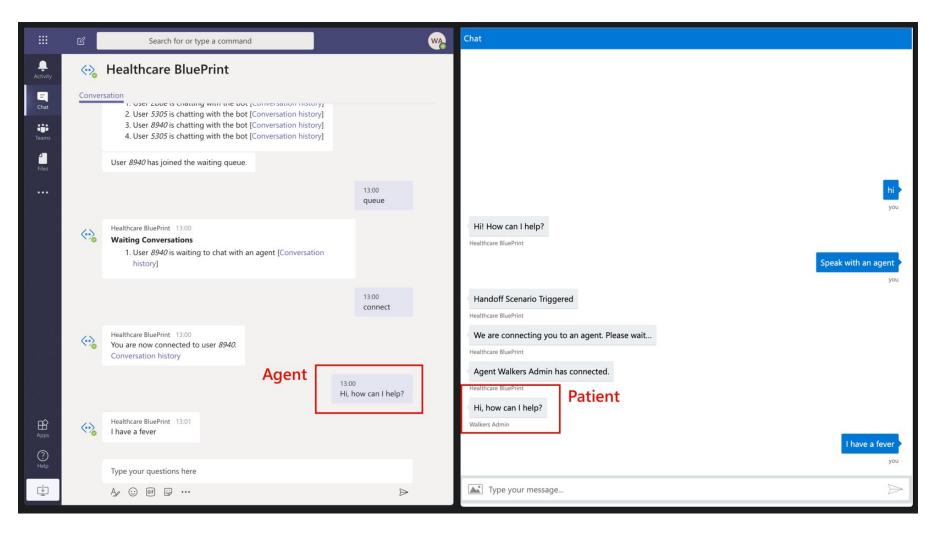
- Expose information and access at patient portal or public website
- Manage number of calls and visits
- Triage flow built from CDC guidance for COVID-19
- Helps patient navigate through Symptom checker for COVID-19
- Will reduce the number of Incoming calls regarding COVID-19
- Can escalate chat to an Agent Conversation
- Can redirect to bookings to book an appointment

https://www.microsoft.com/en-us/research/project/health-bot/ https://docs.microsoft.com/en-us/healthbot/index https://docs.microsoft.com/en-us/healthbot/handoff-teams



### **TEAMS INTEGRATION WITH HEALTHBOT**

Patient on chat from website connected to Evergreen "agent" on Teams



### **TEAMS INTEGRATION WITH HEALTHBOT**

After initial conversation, patient requests for virtual consult using audio/video

	Ľ	Search for or type a command		WĄ	Chat
 Activity	~ <u>&gt;</u>	Healthcare BluePrint			
 Chat	Conve	rsation		_	
Teams					
Files			15:07 connect		
	~>>>	Healthcare BluePrint 15:07 You are now connected to user <i>fb13.</i> Conversation history			
			15:34 Hi		We are connecting you to an agent. Please wait Healthcare BluePrint
	~ <u>&gt;</u>	Healthcare BluePrint 15:34 Hi, can we talk on video?			Agent Walkers Admin has connected. Healthcare BluePrint
			15:34 Sure		Hi Walkers Admin
			meeting		Hi, can we talk on video?
Apps	~>>>	Healthcare BluePrint 15:34 Meeting created successfully: Teams online mee	ting	1	Sure Walkers Admin
? Help		Type your questions here			Join an online meeting on Microsoft Teams Walkers Admin
÷			Ð		Type your message

Microsoft and our partners help health organizations develop the connected, data-driven and seamless virtual health experience they want for patients and clinicians

### **Unified platform**

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Leverage a unifying platform to bring your data, processes, and people together to deliver a more seamless virtual health experience

### **Digital Front Door**

Serve your patient community with easy to access medical content, credible triage and guided recommendations

### Virtual visits and clinician collaboration

Improve patient experience and clinician productivity with robust FHIR enabled platforms that deliver comprehensive communication and collaboration capabilities

### **Clinical and operational analytics**

Deliver clinical and operational insights to your caregivers and service line managers to improve outcomes and program performance

### Remote patient monitoring

Employ a platform that can ingest and synthesize medical device data at scale to support monitoring disease and symptom progression

### Supporting accelerated healthcare transformation

Center for Disease Control and Prevention (CDC) COVID-19 Assessment Bot



St. Luke's University Health System Virtual visits for secure conversations



Swedish Hospital COVID-19 Ops issue



### And aligning to long-term customer needs



Enhance patient engagement





Empower health team collaboration

Improve clinical and operational data insights

### **FUTURE TRENDS OF TELEHEALTH**

- Greater consumer demand expanding direct to consumer models
- Embracing 'digital first' care model
- More services, wider reach
- Growth of telehealth adjacent industries
- Greater Al integration
- Remote patient monitoring
- Hospital to Home
- Increased due diligence for cyber security and data diligence
- Market consolidation

### **THANK YOU!**



## **Charles Drayton**

Introduced by spinning intro video No slides

### **Polling Question**

### In your current role, how much opportunity do you have to contribute to automating processes within your department?



### **Attendance Check**





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