

# Developing A Virtual Health Strategy

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# Meet Sg2

**Sg2, a MedAssets company, is the health care industry's premier provider of market data and information.**

Our analytics and expertise help hospitals, health systems, and leading suppliers understand market dynamics and capitalize on opportunities for growth.

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Intelligence



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Consulting

# Sg2 Defines Virtual Health Very Broadly



## *Virtual Health*

Connected care services—including clinician-to-clinician, provider-to-patient and consumer-driven interactions—across a spectrum of **electronically** enabled consultative, direct patient care, educational and self-management services; encompasses a **range of different terminologies**, including telemedicine, telehealth, e-health and mobile health

# Breadth of Virtual Health Drives New Value Opportunities

Tele-“specialty”

Virtual conferencing



Virtual consults

- Urgent care
- Specialty care



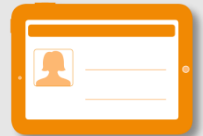
Mobile apps

Social media

Geo-tagged devices

Patient web portals

Online support groups



## Clinician to Clinician



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eICU

eED

## Provider to Patient



Remote monitoring

Virtual medication management

Telehealth kiosks

## Consumer Driven

Personal activity monitors

Patient scheduling apps

Quality and price transparency tools



# Key Enterprise-Level Strategic Imperatives



## Margin Management

Optimize cost per case. Maximize revenue opportunities. Minimize readmission penalties.

### Key Measures

- Readmission rates
- Cost per case
- Length of stay



## Clinical Scale

Leverage a limited pool of clinicians across sites and strategically deploy specialists.

### Key Measures

- Time to diagnosis and/or treatment
- Physician supply/demand by specialty



## Channel Access

Create new and manage existing entry points to both acquire and retain patients.

### Key Measures

- Network leakage
- New patient visits



## Care Continuity

Facilitate streamlined throughput and transitional care. Activate patients for effective self-management.

### Key Measures

- Discharge disposition
- Medication compliance rates



## Market Expansion

Extend services beyond existing footprint to capture share and grow regional reach.

### Key Measures

- Service area mapping
- Competitor market share
- Demographic trends
- Patient origin analysis



## Consumer Focus

Enhance conveniences in time and geography to appeal to newly empowered consumers.

### Key Measures

- Patient travel times
- Consult response time
- Net promoter scores (new/returning)



## Business Model Innovation

Establish new products and/or revenue channels.

### Key Measures

- Percentage of revenue from novel sources
- Revenue per full-time equivalent



## Population Health Management

Trigger early interventions and curtail suboptimal utilization.

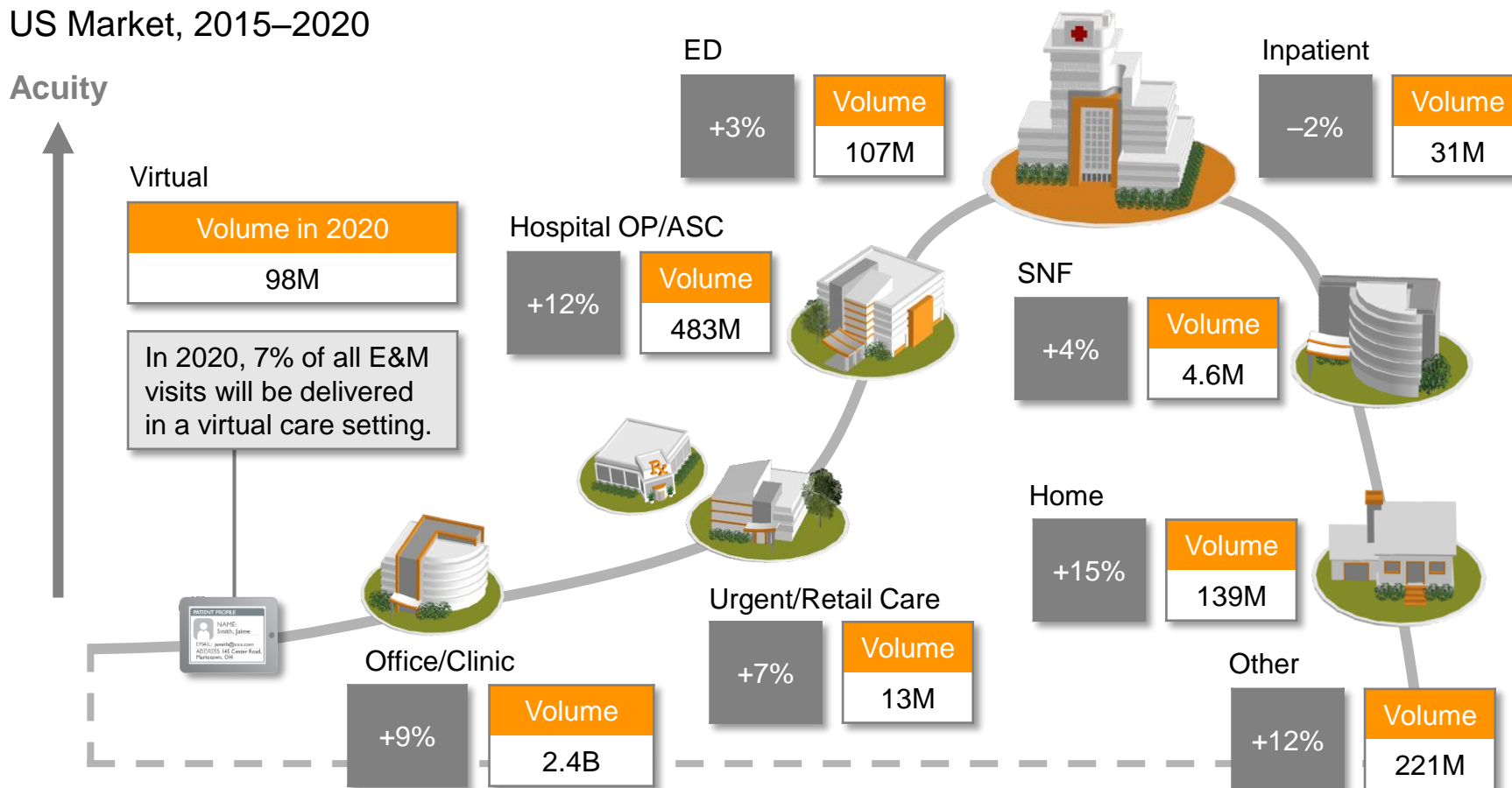
### Key Measures

- Total cost of care
- Avoidable utilization



# Significant Growth Opportunities in Virtual Setting Over Next 5 Years

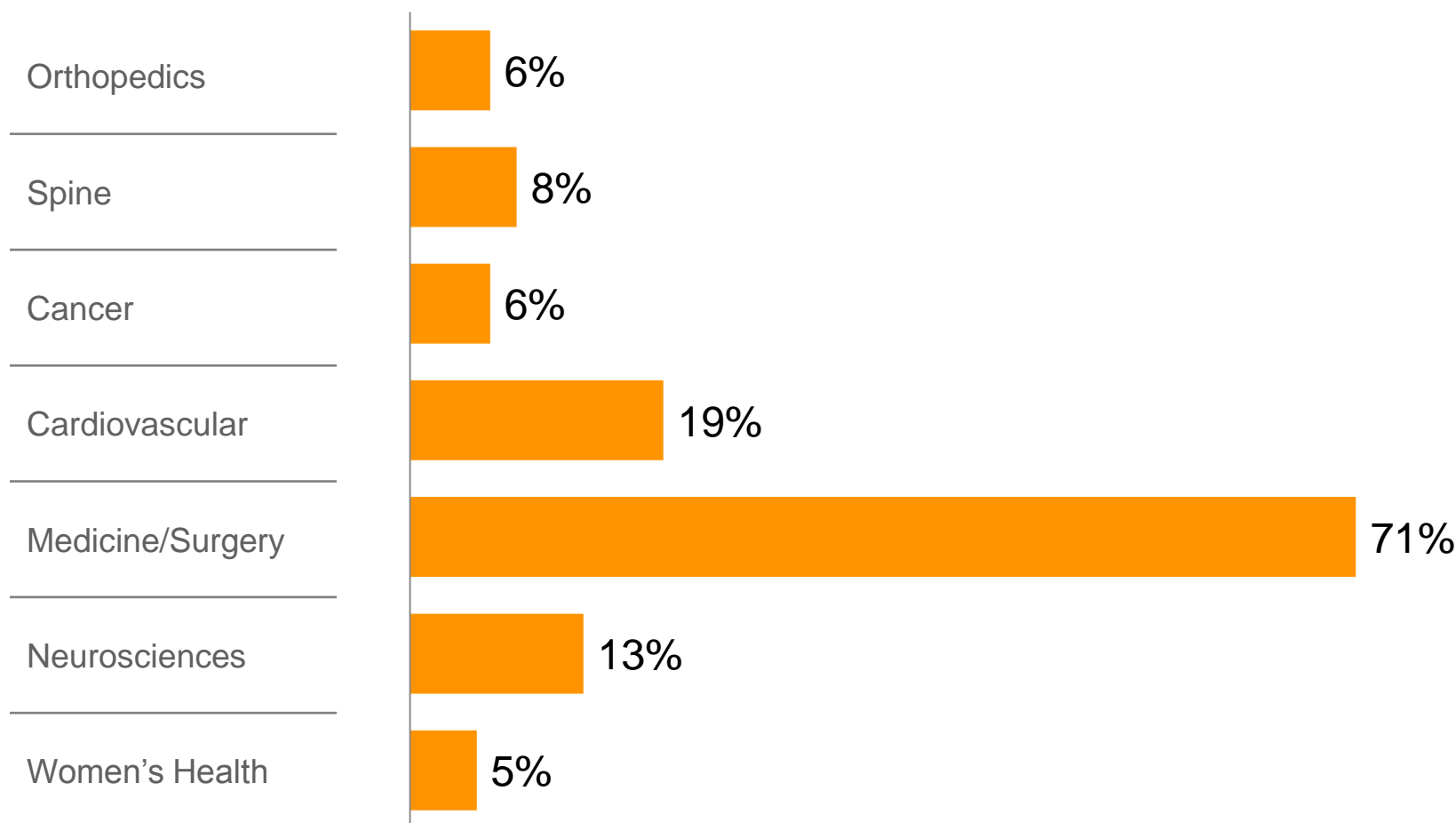
## 2015 Site of Care Volumes and 5-Year Forecast, Adults US Market, 2015–2020



**Note:** The analysis excludes 0–17 age group. Other includes nonhospital locations such as OP rehab facilities, psychiatric centers, hospice centers, Federally Qualified Health Centers and assisted living facilities. ASC = ambulatory surgery center; E&M = evaluation and management; SNF = skilled nursing facility. **Sources:** Impact of Change® v15.0; HCUP National Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2012. Agency for Healthcare Research and Quality, Rockville, MD; IMS LifeLink® PharMetrics Health Plan Claims Database, 2011, 2013; The following 2013 CMS Limited Data Sets (LDS): Carrier, Denominator, Home Health Agency, Hospice, Outpatient, Skilled Nursing Facility; The Nielsen Company, LLC, 2015; Sg2 Analysis, 2015.



# E&M Visits in the Virtual Setting in 2025 by Service Line

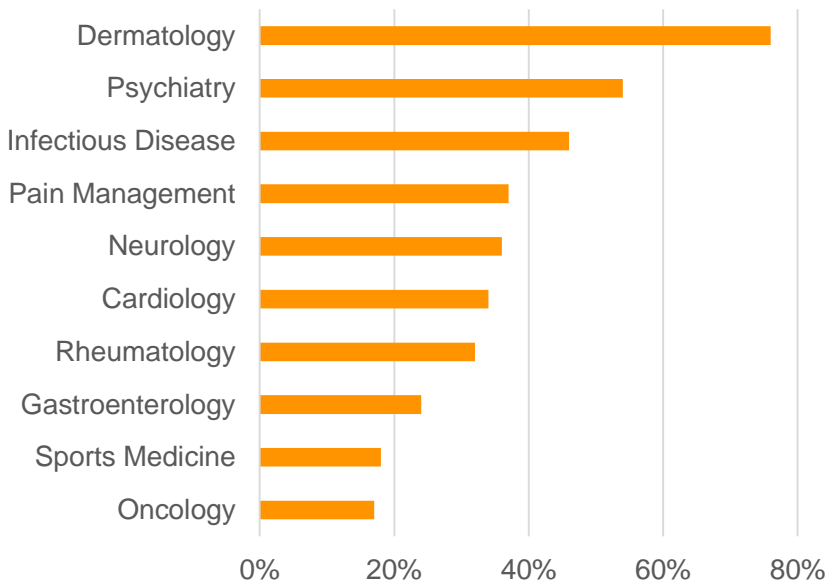


**Note:** Analysis excludes ages 0–17. Surgical procedures include endoscopy and major procedures.

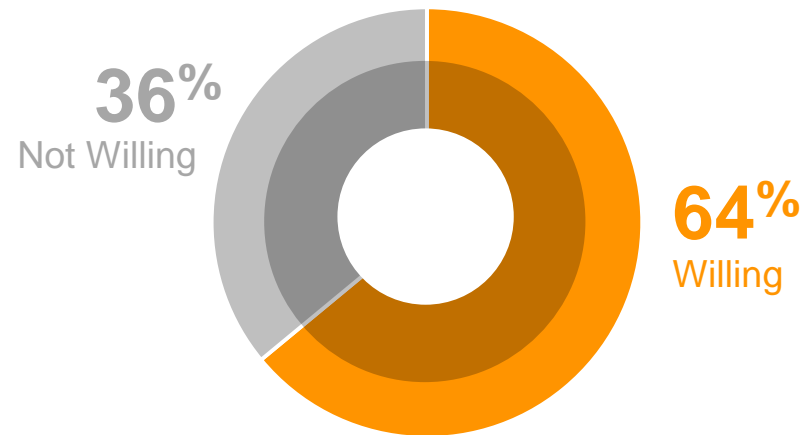
**Sources:** Impact of Change® v15.0; IMS LifeLink® PharMetrics Health Plan Claims Database, 2011, 2013; The following 2013 CMS Limited Data Sets (LDS): Carrier, Denominator, Home Health Agency, Hospice, Outpatient, Skilled Nursing Facility; The Nielsen Company, LLC, 2015; Sg2 Analysis, 2015.

# Provider and Consumer Acceptance Is Growing

## Specialty Video Consults Physicians Find Most Valuable



## Willingness to Have a Video Visit

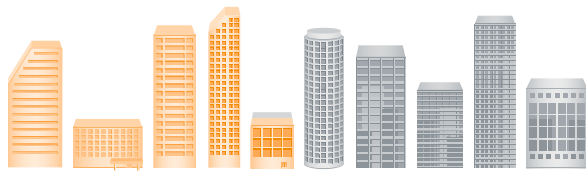


Interest in Telehealth Peaks in Ages 18–44

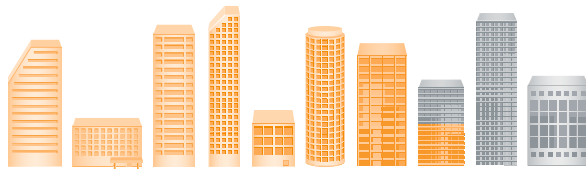


# Expect an Increase in the Number of Large Employers Offering Virtual Health in 2016

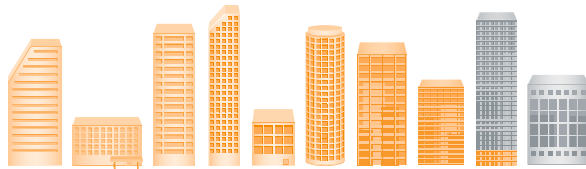
Survey responses from 140 of the largest companies in the US



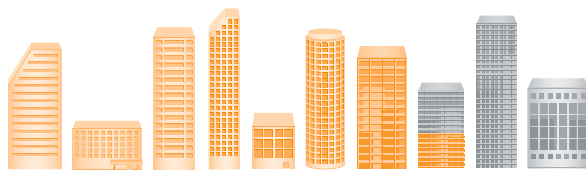
**48%** offering virtual health services currently



**74%** plan to offer virtual services in 2016



**81%** to offer nurse coaching for condition management



**73%** to offer nurse coaching for lifestyle management

Key Strategy: Consumer Focus

# Virtual Visits Cut Costs, Improve Access to Care for Low-Acuity Conditions

## MOST COMMON DIAGNOSES FROM VIRTUAL CONSULT

Sinusitis

Cold/flu/pertussis

Urinary tract infections

**\$35 to \$50**

Average cost virtual consult

**\$136 to \$176**

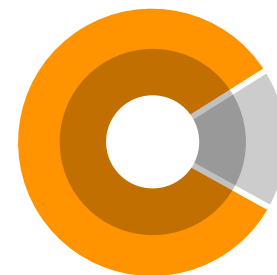
Average cost for in-person consult

**1.3**

Average number of virtual health visits/patient/year

PATIENT ISSUES RESOLVED DURING INITIAL VIRTUAL CONSULT

**83%**  
of the time



Key Strategy: Clinical Scale

# CASE STUDY

## Remote Specialist Consults Reduce Disparities, Expand Reach

### MEDICAL UNIVERSITY OF SOUTH CAROLINA, CHARLESTON, SC



Reduce  
patient time  
spent  
traveling for  
follow-up

\$1,000  
to \$1,500  
per site for  
computer and  
software license

360  
virtual consults

Saved  
53,000  
miles of travel  
(142 miles per  
patient)



Each patient  
saves about  
2.8 hours  
per visit

Key Strategy: Care Continuity

# CASE STUDY

## iPad and App Guide Self-Management, Generate Savings

### PARTNERS HEALTHCARE, BOSTON, MA

Aimed at patients undergoing transplants, anticoagulation therapy or oral anticancer therapy

**\$300**

iPad mini given to patient, loaded with Partners-developed app

Patients take iPad home, return at 30-day check-up

Cost avoidance is major benefit of program

**5%**

Improvement in oral chemo adherence = \$35 to \$40 million in savings

Key Strategy: Channel Access



## CARECLIX AND THE STATE OF MARYLAND

- HIPPA-compliant software fully integrated with EMRs and complete with prescription and lab ordering capabilities
- CareClix e-clinic Telemedicine Stations deployed at public schools throughout Maryland
  - Nurses assist students in school-based clinics.
  - Remote connection to physicians at local hospitals
  - Student's parent may join online exam room via smart phone.
  - Translation services are available.

## MAYO CLINIC, ROCHESTER, MN

- Partnered with HealthSpot to place kiosk in Minnesota middle school
- Targeting employees to reduce staff absenteeism costs to school
- Expansion of program at 2 Mayo campuses



Image used with permission from HealthSpot.

Source: Tahir D. Mayo Clinic expands kiosk virtual-visit pilot to local school. Modern Healthcare. December 30, 2014.

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Key Strategy: Margin Management

# CASE STUDY

# Reducing Unnecessary Transfers Drives Revenue to Community Partners

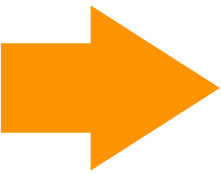
## Community Hospital Virtual Health Partners



+ 13 more...



Annual Pediatric Referrals From Community Hospitals		
Partner Hospital	Pre-Telemed	Post-Telemed
A	18.0	22.1
B	29.7	40.2
C	1.2	5.6
D	0.0	0.2
E	4.5	9.3
F	0.0	3.4
G	9.2	13.1
H	0.7	2.7
I	0.0	77.3
J	40.9	58.9
K	0.0	3.1
L	35.0	40.4
M	0.9	2.4
N	0.0	2.0
O	1.9	2.2
P	0.5	1.8
<b>Total</b>	<b>142.6</b>	<b>284.6</b>



## Children's Hospital



- With local virtual health partnerships, annualized referrals increased from every site.
- Annual revenue per remote hospital increased by >\$125,000 in the postdeployment period.

Source: Sg2 Interview, February 2015.  
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## AVERA HEALTH, SOUTH DAKOTA

Allows organizations to implement virtual health without incurring all up-front costs

6 to 9  
months  
to develop  
programs, another  
6 months  
to implement them

Served  
209  
hospitals and  
clinics in 8 states

Saved  
\$143  
million  
in health care  
costs

15%  
growth rate  
on average

## TAKEAWAYS

### Virtual Health is Here to Stay

Acceptance increases but growth variable by clinical area and geography.

### Competition Increases

A focus on consumerism and patient satisfaction is driving growth in direct-to-consumer programs.

### Building the Business Case

While cost avoidance remains main financial driver, explore potential opportunities for direct revenue generation.



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