The Evolving Medical Neighborhood Acute Care *Outside* the Medical Home

David Mathison, MD MBA

Regional Medical Director, PM Pediatrics
Pediatric Emergency Physician



Objectives

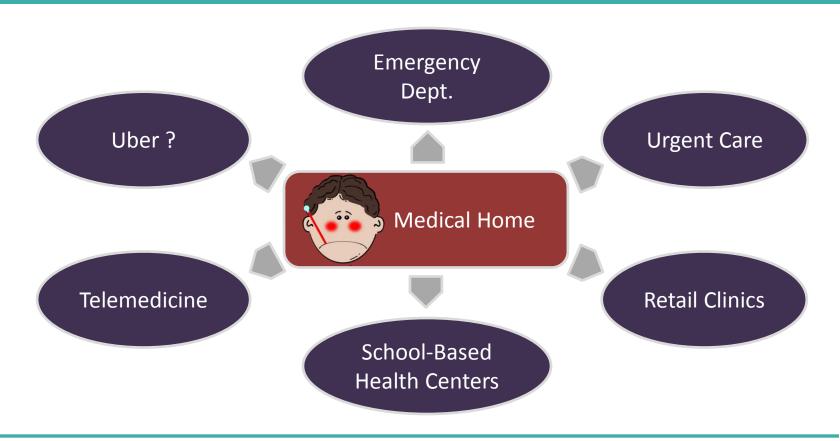
To discuss evolving trends in pediatric acute care

 To differentiate various models (personnel, practice standards, care spectrum, and regulations)

 To discuss how pediatricians can advocate for communications and integration with the medical home



Why are we talking about this?





From the New York Times (April 2016)

"My wife and I both work. When one of our children wakes up complaining of a sore throat, we could begin the ritual stare-down to determine which of us is going to have to wait for the doctor's office to open, make the phone call, wait on hold, schedule an appointment (which will inevitably be in the middle of the day)...sit in the waiting room (surrounded by sick children), get the rapid strep test, find out if the child is infected and then go to the pharmacy...

...Or, one of us could just take the child to a retail clinic on the way to work and be done in 30 minutes."



Medical Neighborhood





CONVENIENCE CARE part 1

EVOLUTION OF ACUTE CARE



Doc, Can You Help Me?





The Traditional Pediatric Model (1950s->)



House Calls





Office Visits







After-Hours





OVERCROWDING IN THE ER

Help Reduce E.R. Crowding.
For Allergy Symptoms, See Your Doctor.

Answer flow the Transver Hamphal Association, the Mandescape Hamphal Association (the Mandescape Hamphal Association).

I spent eleven hours in the Emergency Room, and all I got was this lousy band-aid.



1980's





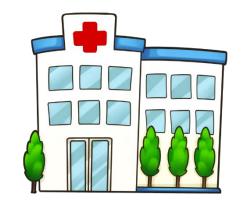


Pediatric Emergency Medicine



1990's





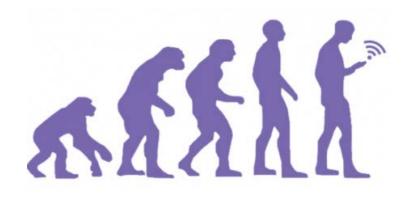
Internet & Dr. Google

Free Standing Urgent Cares



2000's





Retail-Based Clinics

Mobile Access



Today

TELEMEDICINE



UberHealth





Key Drivers



Consumer Demand



- Consumers like choices
- Expectation that services will be as responsive and accessible as other service industries
- Thigh-deductible plans make consumers more wary of costs
- Desire for "one-stop shopping"



Cost Savings

13-27% of all ED visits could be shifted to urgent or retail care leading to a savings of **\$4.4 billion annually**.¹

	Retail Clinic	Primary Care	Urgent Care	ED
Mehotra 2009*	\$110	\$166	\$156	\$570
Thygeson 2008**	\$104	\$159	\$154	\$383

*Treatment of otitis media, pharyngitis, and UTI based on claims data from a large health plan using health plan reimbursements and patient copayments²



² Convenient Care Options in NYS, Chang, et al., United Hospital Fund, 2015

CONVENIENCE CARE part 1

RETAIL-BASED CLINICS





Retail Growth



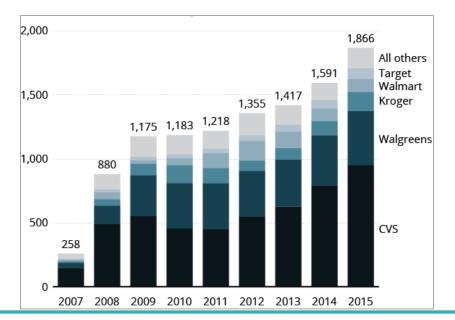












>10 million visits



What is Retail Based Care?

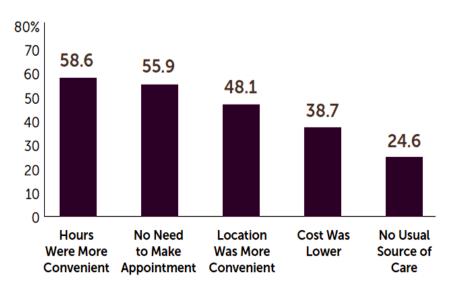


- Most retail care sought by <u>adults</u>
- Very protocol driven
- Limited scope (>90% are 10 simple conditions)
- Staffed by Mid-Level Practitioners (NP's, PA's)

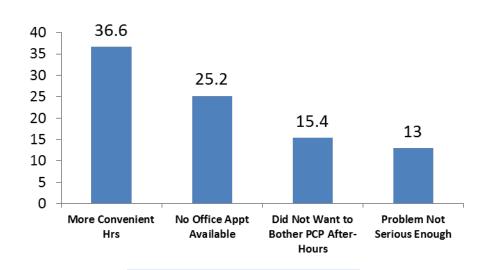


Why Seek Retail Care?

Reasons for Seeking Care at Retail Clinics (2010)



Reasons for *Pediatric* Care at Retail Clinics (2012)



50% between 8a and 4p 53% did NOT have a PCP



Where is Retail Care Going?



- More comprehensive services
- Increasing affiliation with health systems (linked EHR's)
- Some are exiting the market (Walgreens, Target)



Limitations of Retail Care

- ? Communications with medical home
- Very regimented care protocols
- Potential bias for medication dispensing





CONVENIENCE CARE part 2

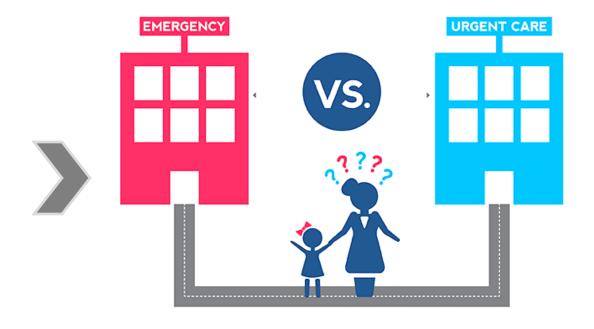
URGENT CARE





Evolution of Urgent Care





Doc in the Box

ED Alternative



Competition or Complement?



"Urgent care centers complement primary care and help put resources in the right places. Urgent cares not only improve access, but liberate primary care providers to do what they do best: preventive medicine and chronic care management. Primary care practices can focus on prevention and wellness and the ongoing treatment of chronic disease."

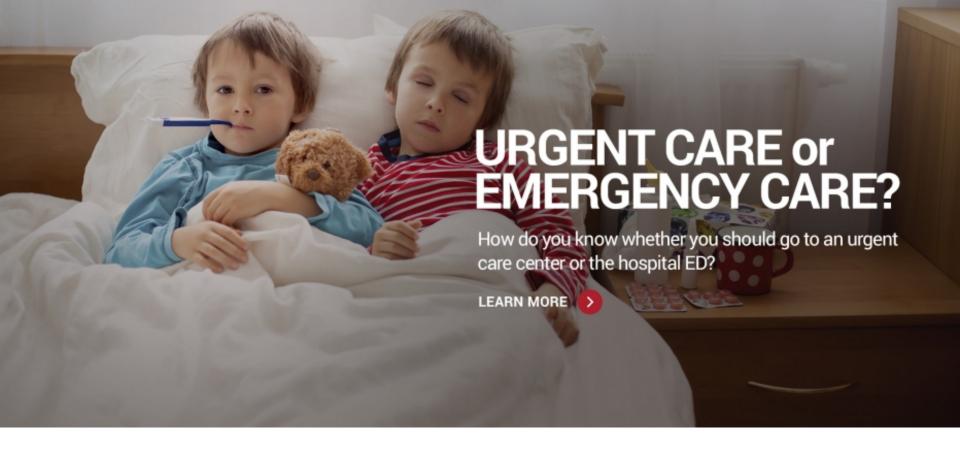
–David Meyers, MDChief Medical Information OfficerAgency for Healthcare Research and Quality (AHRQ)



Big Brands, Big Backers

Provider	Ownership*	Centers	
Concentra	Select Medical Corporation	292	
ME MedExpress [®]	OPTUM°	175+92	
U.S. HealthWorks	% Dignity Health.	162	
american family care* The Right Care. Right Now.	Independent	148	
NextCare URGENT CARE	EEF	135	
FASTMED URGENT CARE personal care in your neighborhood	ABRY	114	
Patient First	Independent	62	







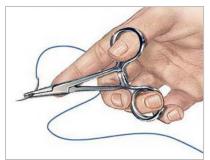
Clinical Spectrum in UC



Radiography



Laboratory



Sterile Procedures



Fracture Care

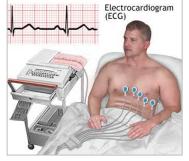


IV Fluids

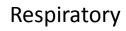


Clinical Spectrum in UC









EKG

Observation



Physicians (EM, IM, Family, Peds, PEM) + Mid-Level Practitioners (NP's, PA's) Nurses; XR Techs; Medical Assistants



UC as Intermediary Care



Community Triage



EMS Inbound
TRANSPORT TEAM Outbound

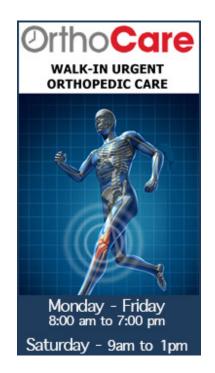


Specialty Urgent Care



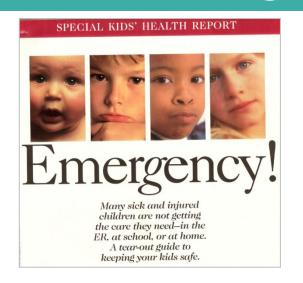


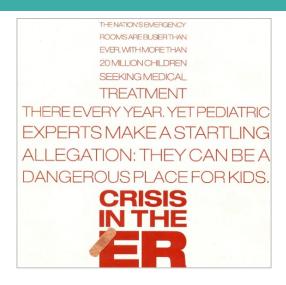






Is Pediatric Urgent Care Different?







Pediatric expertise & procedural competence

Open later, kid-friendly environment

Most patients HAVE primary care home

More focus on EMERGENCY care than primary care



Where is *Pediatric* Urgent Care Now?

- 319 facilities in 35 different states
 - 150 hospital-affiliated
 - 130 freestanding, privately owned
 - 16 closed in past year
- Volumes at some exceed 35,000/year



"Well-managed freestanding UC can enhance the provision of urgent services to children, be integrated into the medical community, and provide a safe effective adjunct to the medical home. Staff should be trained in pediatrics, have pediatric guidelines and be equipped and prepared for emergencies"

—AAP Position Statement 2014



What's Next for *Pediatric* Urgent Care

• Pediatric readiness...?



Education....?



• Fellowship / Accreditation....?



• Standards, benchmarking, research...?





Limitations of UC?

- Some have primary care overlap
- No advanced imaging
- Limited ability for complex chronic diseases
- Inability to do conscious sedation
- Accreditation
- Closing times and room capacities limit observation capabilities





CONVENIENCE CARE part 3

DIRECT-TO-CONSUMER TELEMEDICINE





Telemedicine (direct-to-consumer)











Tele-Specialists (direct-to-consumer)



Spruce

\$40/visit

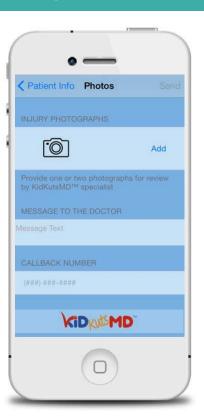
DERM





Lac Repair In the AM

PLASTICS





Telemedicine FACTS

 70-74% of consumers would rather have an online video visit to obtain a prescription than travel to their doctor's office







Tobacco Cessation



General Health



Behavioral Health



From the Experts



"The patient-consumer wants to access primary care on their terms, not those of the health care industry. Telemedicine is a tool that will transform health delivery for the better."

Bill Frist, MD (former senator)



Telemedicine – Access and Surge



Survey of 1,700 customers who used the CVS telemed service found that 95% were "highly satisfied" with the encounter, and 35% said they preferred a telehealth visit over an inperson visit with a doctor.



Telemedicine Outcomes



Cost Effectiveness



Patient Satisfaction



Access



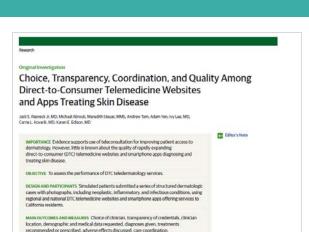
Care Quality

- 90% medical issue resolution by the end of the call¹
- 91% of health outcomes similar or better via telehealth²





Telemedicine Concordance



6 of 14 [478], respectively). Websites made several correct dispression inclined scenarios where photograptics allow were adoptional to be with the basic additional feature selection for the part of the properties of the propert

IRBABLES We received responses for 62 dinicial encounters from 16 DTC telemedicine websites from February 4 to March 11, 2016. None asked for identification or raised concerns about pseudorym use or falsified photographs. During most encounters (42 (69%)), patients were assigned a clinician without any choice. Only 16 (29%) disclosed information about clinician (Incensur, and come used internationally based physicians without California

licenses. Few collected the name of an existing primary care physician (14 [23%]) or offered to send records (6 [10%]). A diagnosis or likely diagnosis was proffered in 48 encounters (77%). Prescription medications were ordered in 31 of 48 diagnosed cases (65%), and referent adverse effects or oreenancy risks were disclosed in a minority (10 of 31 [23%) and

quality of DTC telemedicine websites and apps and avoid further growth of fragmented,

JAMA Dermatol doi:101000/jamadermatol 3016.177 Published online May 15, 2015. Author Affiliations: Department of Dermatology, and Philip R. Lee Institute for Health Policy Studies, School of Medicine, San Francisco (Rasneck): University of Carlfornia. San Francisco School of Medicine an Francisco (Abrouk, Steuer, Tan Yerd: Pasaderia Fremier Dermatology. Pasadena, California (Lexi) Department of Dermatology Philadelphia (Kovarik): Department of Dermatology, University of Missouri, Columbia (Edison), Resneck Jr. MO, Department of Dermanology, University of California in Francisco, Box 0316 San Francisco, CA 94143-0316

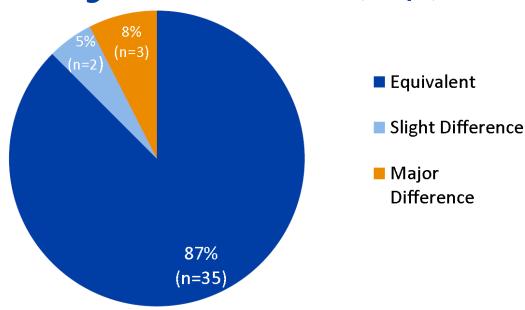
- Major diagnoses missed
 --syphillis, eczema herpeticum, PCOS
- Treatments at odds with existing guidelines
- 10% offered to communicate with PCP
- When photographs alone were inadequate, failed to ask important history questions



Telemedicine Concordance

- Mordechai Raskas, MD
- 40 patients sought CNMC ED care for rash
- Compared diagnostic and treatment concordance between telemedicine and live encounters

Diagnosis Concordance (n=40)



*The 3 missed diagnoses were varicella, scarlet fever, and scabies.



Telemedicine Limitations

- Insurance parity
- State-to-State differences
- General acceptance
- Quality metrics
- Technology and connectivity
- Chronic care > Acute care





CONVENIENCE CARE part 4

DISRUPTIVE MODELS





CVS & Curbside







The On-Demand Doctor







Nurse conducts initial visit





Responds to non-emergency

911 calls; offers on-scene care

instead of ER visit; \$200-\$300

For a flat fee of \$99, the service promises to send a doctor in under an hour

CITY/STATE

Los Angeles, San Francisco and Orange County, Calif.

Dispatches doctors or nurses via Uber for \$200 per urgentcare visit; \$75-\$100 for a wellness check

New York City, San Francisco

and can video chat with doctor; \$150 for an urgentcare house call; prices vary

Atlanta, New York City

Nurse practitioners consult via video for \$50 or in-person visit for \$200; \$50 per month for unlimited visits

Minneapolis, Wisconsin and North Dakota

Denver



In Your Home





Today's Home Visit



- Tablet
- Digital Stethoscope
- Multiple Lenses/Optics
- Ultrasound Unit
- 2 lead EKG
 - Basic Supplies





Take Home Thoughts

WHERE DOES THIS LEAVE US?

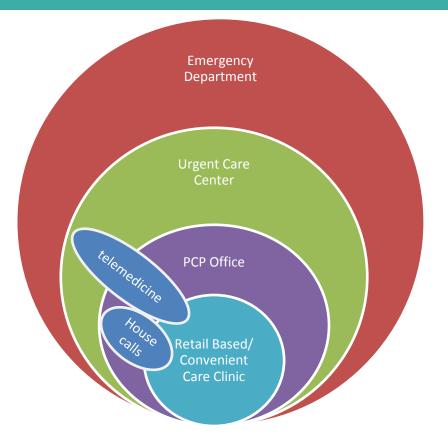


"The computer says I need to upgrade my brain to be compatible with the new software."



The Evolving Medical Neighborhood







Uber's Message for Healthcare

Providers have 3 choices for the changing landscape



Uber's Message for Health Care

Allan S. Detsky, M.D., Ph.D., and Alan M. Garber, M.D., Ph.D

can overcome powerfully enfounded to develop technology to

Health care delivery may seem

jurisdictions, claiming to be \$153,867 a year later and \$118,235 trategies for delivering lower-shielding suppliers from ruinous in 2014. The concurrent increase cost alternatives by using non-

ience, uncomfortable surroundings, and high prices make business and protecting consumto Uber from license holders all customers unhappy, and given the ers from unsafe equipment and over the world. opportunity, they will go else- untrained drivers, have restricted With so much at stake, license

where. Uber, Silicon Valley's re- licenses to specific vehicle own- owners and their drivers have sponse to the shortcomines of ers. Such regulation has limited fought back, putting enormous rban taxi and limousine ser- the supply of cabs (thereby in- political pressure on government vices, has managed to upend an creasing the price above true officials who had previously proestablished industry by offering costs of providing rides, leading tected their monopoly rents. Alan appealing alternative. Uber's to excess profits that economists though Uber has lost some battechnology-enabled incursion into call "monopoly rents") while rea highly regulated market sug-quiring the industry to meet pre-gests that if consumers gain scribed standards.

trenched economic and political help would-be riders find trans- far less vulnerable to disruptive interests. Is U.S. health care ripe portation, Uber has become a change than taxi services. Any for disruption by a medical Uber? rider-driver matching service. would-be health care disrupter Taxi service was vulnerable to. Cracially, the drivers did not confronts a such of regulations disruption because poor (some have to be established, full-time contractual obligations, interlock would say archaic) service had limo or taxi drivers. The company ing financial interests, and pro-been established as the norm, in has grown rapidly, spreading to viders' political influence — hospart because it was difficult for more than 150 U.S. cities and 58 pitals are often a congressional higher-quality alternatives to fill countries, with an estimated district's largest employers. Marthe gap. The taxi industry would valuation of \$62.5 billion. 3 This ket power and outright monopoly seem to exhibit the key charac-growth came at the expense of often reinforced by insurer and teristics of a highly competitive Uber's traditional competitors, hospital consolidation, licensing, market. It has many sellers, each eroding the earnings of many and other regulations, character of which is too small relative to people who drove taxis and limize health care provision in many the overall market to affect prices ousines in the regulated part of parts of the country and can disby withholding or expanding its the sector and driving down the courage the entry of new competown supply of rides. But in most monetary value of their licenses, iters. Furthermore, an alternative cities, taxis and limousine ser- In Toronto, the average selling service would face a relative price vices have operated as regulated price of a "cab plate" fell from disadvantage if it didn't qualify monopolies for decades. Most \$360,000 in September 2012 to for health insurance coverage. 1. Ignore innovators and hope for the best

2. Call for increasing regulation to make it harder for innovators to enter the market

3. Welcome, enable, and embrace it....but adapt your existing model OR compete on quality and efficiency



Trends and Thoughts

- Consumers will continue to direct health care
- Retail care will evolve, provide more comprehensive care and telemedicine services
- Urgent care is consolidating into group of larger players
- Accountable care will grow, risk-sharing will increase



Care Coordination & Communication



Two-way communication with the medical home is a MUST!



SUMMARY

- Acute care services outside the medical home are increasing.
 No matter how convenient, trust and care quality are paramount
- There is a wide spectrum of pediatric acute care delivery.
 Learn and connect with the providers in your community to understand their services
- Advocate for two-way communications with the medical home

