Using Patient Portals & Technology to Improve Efficiency and Meet Metrics

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Amherst and @ Concord, NH

Owner – Partners in Healthcare Education, LLC

1

Disclosures

- Speaker Bureau
 - Sanofi-Pasteur, Merck, Pfizer, Seqirus, Moderna Vaccines
 - Exact Sciences Colorectal Cancer Screening
 - AstraZeneca Asthma and COPD
- Consultant
 - Sanofi-Pasteur, Merck, Pfizer, Moderna, and Seqirus Vaccines
 - GSK: OA/Pain
- AstraZeneca Asthma and COPD
- All relevant financial relationships have been mitigated.

2

Objectives

- Upon completion of this lecture, the participant will be able to:
 - Discuss technology opportunities for clinical practice
 - Identify implications of increasing use of technology
 - Identify potential negative consequences of technology

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The Technology Explosion

- Technology use has exploded in the United States
 - The use of technology in healthcare is no exception
- Technology in healthcare may:
 - Facilitate better documentation
 - Improve communication with patients and colleagues
 - Increase patient engagement and patient safety
 - Save time for patients and providers
 - Improve billables and collectables
 - Reduce duplication in healthcare and ultimately, reduce cost
 - Reduce malpractice cases

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5

However....

- For every positive, there are also a number of negative implications that must also be addressed:
 - Less human interaction
 - Documentation: phone vs. in writing
 - Hours spent documenting
 - Inaccurate information available in a minute search
 - More emails/messages to respond to
 - Patients reviewing online materials and wanting modified
 - Expensive
 - Doing more with less time
 - Ransomware/hacking/HIPAA violations

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Different Types of Technology

- Website
- · Confirmation reminder calls/texts/emails
- Automated check-in (Kiosk)
- Touch screen computers
 - Tablet
- Patient portal
- · Billing modules
- Reminder systems i.e vaccines, apppointments
- Facebook/Twitter/Social media apps
- Smart phone apps booking appointments/paying bills online
- Artificial intelligence
- Data analytics at our finger tips
- Virtual care

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Typical Monday at WAFHC

- More than 150 prescription e-refills have come in over the weekend
- > 1000 phone calls in and out of the practice will happen on any given Monday
- More than 250 portal messages needing to be addressed
- Requires 2.5 staff for every 1 NP employed

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Technology to Enhance Provider-Patient Communication

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Website

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Time to register patient

- Approximately 15 20 minutes to register a new patient using telephone
- Can technologies and innovation make this less staff intensive?

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New Patient Registration

- Registration Process
 - Collect insurance information pre-visit whether it be over the phone or across the patient portal
 - Collect email at time of registration to auto send an invite for the patient portal
 - Set expectations for financial responsibility
 - Use website and portal let them know copay, coinsurance, deductibles are to be paid at the time of service.

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New Patient Registration

- · Optimize efficiency
 - Place registration forms, new patient information, release of records and patient bill of rights on website
 - Drive patient to site at time of call to familiarize them with this site
 - Direct mailing costs are significant; website can save time and money in staffing/copying/mailing

13

Snapshot of Our Web-page

NEW PATIENTS

Thank you for your interest in our practice. We look forward to seeing you at your appointment. Below is a checklist of the things that need to be done prior to your appointment

Change your primary care provider with your insurance company prior to your visit. Please ask your insurance company to list your primary care provider. If you have any problems with this, please ask your insurance to contact us at 6

2. Please print out and complete our <u>Fastent Reastration Form</u> prior to arriving. This will save you time at your initial visit. If you are unable to complete prior to visit, please bring along a list of your medications (dissage, frequency), any allergies and arrive 15 minutes prior to scheduled appointment for page-monk!

3. Bring your insurance card and co-payment to the visit.

4. Request your medical records from your previous provider using our Record Release Form . Please complete this form and mail to your previous provider as soon as possible.

5. Please print out the <u>Release of Information Form</u> and bring to your first appointment. Only the names listed on the Release of Information Form will be allowed to communicate with our office regarding your health care.

6. If you are visiting our office for a consult only, please be certain to obtain a referral from your primary care provider in advance.

7. Please review our Policies

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5

14

We Have Also....

- Placed registration form on-line so it may be completed and automatically sent to office
 - Many EHRs now have "bubble forms" available which merge with EHR to save importing of data
 - Often very costly
 - Must be confirmed and clarified as many mistakes happen
 - Risk of malpractice from inaccurate or unclarified information

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15

15

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				Sun	ımary	by Month				
	Daily Avg Monthly Totals									
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	2429	2165	410	107	1870	3074269	3012	11481	60629	6803
	2628	2329	441	116	2185	3725164	3604	13701	72226	814
	2269	1980	383	103	1832	3075220	3219	11898	61407	703
	2585	2228	434	113	1881	3732944	3398	13045	66864	775
	3138	2566	523	136	2307	5132434	4223	16241	79557	972
	2736	2286	477	122	1918	5114395	3664	14312	68585	820
	2269	1920	388	99	1725	4327739	3093	12038	59542	703
	2365	1978	393	97	1807	4658327	3034	12183	61344	7334
	2184	1811	372	96	1700	4005743	2882	11178	54345	6553
	2320	1901	398	98	1693	4233515	3038	12338	58938	719
	2207	1846	364	86	1573	4068654	2584	10920	55403	662
Totals	_					45148437	35754	139338	698843	8242

								Top	30 of 1870 Total Sites	
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1	1046	1.54%	125	0.21%	2087	0.07%	22	0.73%	static-edia-64-223-180-196.ngn.east.myfairpoint.net	
2	584	0.86%	251	0.41%	11520	0.37%	7	0.23%	c-71-233-228-78.hsd1.nh.comcast.net	
3	566	0.83%	483	0.80%	20608	0.67%	14	0.46%	169.152.251.99	
4	509	0.75%	416	0.69%	15394	0.50%	9	0.30%	74-92-53-81-newengland.hfc.comcastbusiness.net	
5	493	0.72%	488	0.80%	26661	0.87%	13	0.43%	c-73-167-20-226.hsd1.nh.comcast.net	
6	445	0.65%	444	0.73%	23361	0.76%	17	0.56%	c-76-28-19-87.hsd1.ct.comcast.net	
7	423	0.62%	160	0.26%	7209	0.23%	1	0.03%	dhhs1-49.dhhs.state.nh.us	
8	422	0.62%	422	0.70%	25272	0.82%	14	0.46%	c-75-67-224-122.hsd1.nh.comcast.net	
9	395	0.58%	385	0.64%	20036	0.65%	10	0.33%	c-50-169-255-46.hsd1.nh.comcast.net	

17

Top Referrers... • Can choose where to put our money for marketing Top 30 of 101 Total Referrers # Hits Referrer 1 5737 8-43% - (Direct Request) 2 462 065% http://www.google.com/ 3 4435 064% http://www.google.com/ 4 219 032% http://www.google.com/ 5 83 012% http://www.google.com/ 6 52 005% http://www.bing.com/search 6 52 005% http://semalt.semalt.com/crawler.php

18



Scheduling

- Patients may request appointment from patient portal or via website
- EHR allows for appointment selection by the patient
 - -We have turned off this feature
 - Concern: many inaccurate bookings
 - We also try to customize NP schedule based upon newness to practice
 - I.e. double time

20

Scheduling Online Appointment Scheduling is available! Click the link to start scheduling your appointment CKYSTAMED

21

Confirmation Calls

- Conducted from Electronic health record system sent automatically 2 weeks, 1 week, 48 hours, 24 hours, and 4 hours before appointment
 - Found that waiting until 24 hours before caused numerous appointments to go unfilled
 - Allows patient to cancel while listening to reminder
 - Message sent to office to facilitate rebooking
 - Has reduced no shows significantly

22

23

Automated Programs to Improve Care

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Automated Broadcasts vs. Texts

Your voice broadcast named "flu age 19 -64" has completed. Here are the results:

Voice Broadcast Results

All Calls: 1779 Live Person: 861 Voice Mail: 878 Busy/NA: 15 Invalid Number: 9 Not Completed: 16

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24

Can Be Used For....

- Vaccines
- Physical examinations
- Seen used for outbreaks of disease
- Can use for important community information

25

Patient Portals

Patient Portal

• Benefits:

26

- Improve communication with patients
- Can publish labs and documents to portal
- Patients have access to health record 24/7
- Patients can trend labs
- Pay bills on line
- Request refills, appointments or ask questions
- We also use for:
 - Rescheduling bumped appointments
 - Reminders

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27

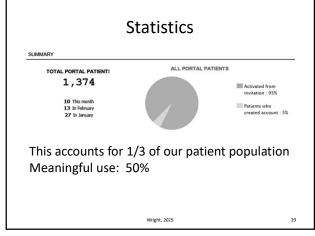
Potential Negative Consequences

- Portals
 - It is now in writing
 - People will send messages over weekend about acute health issues despite messages telling them not to do this
 - Not always sure people get their messages (but same is true of emails and snail mail)
 - More contact than would expect if left to phone calls
 - Volume is huge
 - Expensive

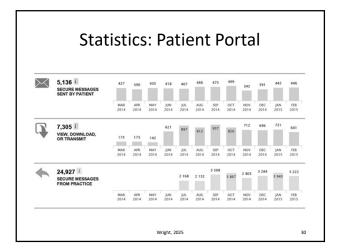
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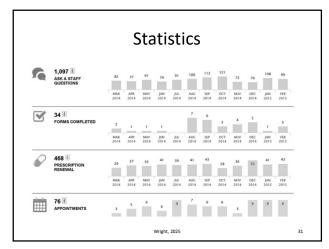
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30



Phone or Tablet

- Smart Phone or Tablet
 - Enables me to sign into a patients chart on weekends or evenings without computer
 - Allows me to verify medications and allergies
 - Allows me to document shortly after call has been placed

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Technology has allowed us to: Care Plan

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Pre-visit Preparation

- Improving clinician visit and improving patient outcomes
- Our model of care:
 - -Longer visits with comprehensive care
 - What This Means: we attempt to address all preventive and acute needs at every visit, every time

34

Pre-visit Preparation

- Two days before visit: check out sheet is completed by staff member working with particular provider
 - Focus is on HEDIS/Quality measurements
 - Address:
 - Mammograms
 - Bone density
 - ColonoscopyImmunizations
 - Diabetes measurements
 - A1C
 - Foot examination
 - Microalbumin
 - Eye examination

35

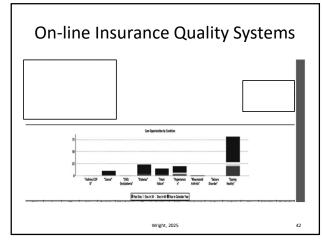
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Here is what has happened	
Began implementing early 2013 Billables have increased significantly	
 More vaccines are being given 	
 More A1C, microalbumin testing is being done More preventive visits/procedures are being booked 	
Mammograms/colonoscopies – procedures that were overdue are being booked	
 Staff books these at check-out 	
Serves two purposes:Gets accomplished	
Provides excellent malpractice defense	
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37	
]
Here is what has happened	
Specifics:	
 Amherst: Two of the past 5 months have been the highest billable months 	
in the history of our practice No new staff has been added (providers)	
Number of patient visits is NOT higher	
Means that more vaccines, A1C's, microalbumins are being done Concord:	-
 Highest five months of billables in three year history of practice 	
Still with one provider Big change was implementation of care planning	
	-
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38	
Ultimately, Most Important Goal	
Ottimatery, Wost Important Goai	-
Good patient care	
Improved outcomes	
Happy customers	

hour session with our IT specialist, 60- 80 hours of work was eliminated each week	powiniem. O powini	VIOLOGIA DELIGIPM MENDY BRIGHT,	The Medical Property of the Me	
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On-line Quality Metrics and Tracking

41



42

On-Line Quality Metrics

- We then use these to:
 - Drill down to individual patient levels; reminders set, calls made and attempt to improve adherence implemented
 - Allows us to look at system issues
 - Are we over utilizing ED
 - Numbers were elevated so used this technology to:
 - Put information up in each examination room about where to go with different illnesses
 - Also....changed our triage working

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43

44

Not Always Accurate

- For instance...
 - Patient with vasospastic angina
 - We are being penalized for no ACE on her
 - Patient s/p hysterectomy
 - We are being penalized for no PAP
 - Quality metrics may be outdated or inappropriate
 - Based upon claims only
 - I.e. Bronchitis and antibiotics
 - Chlamydia screening on 16-24 year old females

Continuous Quality Improvement

- Is essential
- · Ensures that gaps are being filled
- We are always good with the patients we see....
 - It is the ones we don't see where we are lacking

45

Using Reporting Modules

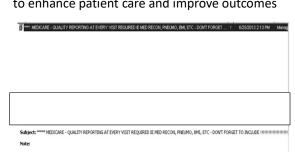
- To improve care....
 - Smoking rates
 - Diabetes care
 - Mammograms
 - Cervical Cancer Screening
 - Vaccines
 - Tracking of orders/referrals
 - Education provided by each provider
 - Physical examinations in past year

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46

Utilize Reminders

• Here are three examples of our reminder system to enhance patient care and improve outcomes



47

Utilize Reminders

 Diabetes: Recommended Hepatitis B Series for all individuals with Type 1 or Type 2 diabetes < 60 years of age

5	"PATIENT	NEEDS	HEP B	SERIES*	

4/3/2013 9:29 AM

48

Utilize Reminders • Hepatitis C screening The MEDICARE - QUALITY FEPORTING AT EVERY VISIT RECURSOR ENEO RECOUL, PREJIND, SM, ETC - DON'T FORGET ... | 6/25/00/32/13 PM | Manager, System Screen for HEP C - patient was born between 1945 & 1965 - Prease screen with a Hep C Artibody 11/18/2012 10/23 AM | Manager, System

49

Tablets

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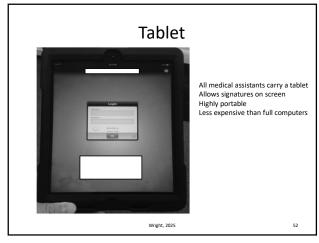
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Tablets

- Benefits:
 - Portable
 - Cost effective
 - Allows signatures
 - Touch screen
 - Pictures
 - Quick internet searching
 - $\boldsymbol{-}$ Can use for patient education
- Disadvantages:
 - Extensive typing is difficult
 - Not all applications available

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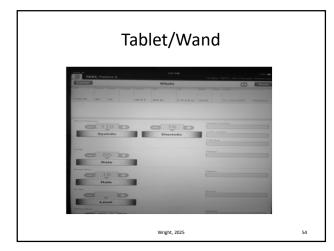
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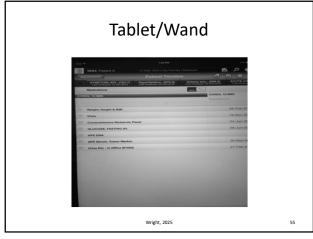
Check-in

- MA's use WAND
 - Check-in module on I-pads
 - Less laptop utilization
 - Portability
 - Able to enter this information while they are weighing in patients or getting height
 - Capture pictures for chart while in examination room
 - Will become requirement
 - Reduces potential of insurance fraud

53



54



Social Media Technology

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Social Media

- Never underestimate the impact of social media:
 - Facebook
 - -Twitter
 - -You tube
 - -Snapchat
 - -In stagram
 - -And so many more.....

57

Facebook or Other Social Media Page Messages Notifications Insights Posts Timeline About Photos Likes More PEOPLE Status Photo/ Video Offer, Events Call Average Offer, Events Call

58

Purpose(s)

- Marketing of practice/clinic
- Free, just requires time, unless advertisements are purchased or posts boosted
- Can communicate with patients, family and friends about new providers, closures, new hours, community issues

59

When It Is Good....

• But...when it is bad.....

Bad Service. Hate it. Spread it.



60

Technology for Purposes of Education: **Patients and Providers**

61

Apps for Providers

- Drug databases
- Clinical databases
- Drugs and Bugs
- ASCVD risk calculator
- Lab values
- ICD9 consult
- About herbs
- Pap guides

62

Apps for Patients

- TNTC (Too numerous to count)
- Diet

63

- Tracking: headaches, menstrual cycle, weight loss, sleep patterns
 - Menstrual tracker, medication app
- · Not all accurate but many are awesome
 - Find 5-10 that you love, have on your phone or tablet
 - Refer patients to them

Technology to Manage Accounts Receivables and Staff

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64

Management Tools

⊕ ♣ Abbott, Heather (3)

⊕ ♣ Bhette, Chitre (MDRX) (1)

⊕ ♣ Cardone, Richard (MDRX) (5)

⊕ ♣ Duclos, Kethryn R (23)

⊕ ♣ Feeney, A Susan (9)

⊕ ♣ Geriey, A Susan (9)

⊕ ♣ Geriey, A Susan (9)

♣ Good, Srikanth (MDRX) (1)

⊕ ♣ Good, Srikanth (MDRX) (1)

⊕ ♣ Latfontaine, Ashley (3)

⊕ ♣ Lecter, Elizabeth (3)

⊕ ♣ Lecter, Elizabeth (3)

⊕ ♣ Lutt, Margaret A (11)

⊕ ♣ Manter, Becky MAPM (1)

⊕ ♣ Manter, Becky MAPM (1)

⊕ ♣ Marter, MORX) (2)

⊕ ♣ Record, Courtney (2)

⊕ ♣ Record, Courtney (2)

⊕ ♣ Support, Medfuelon (1)

⊕ ♣ Support, Medfuelon (1)

⊕ ♣ Support, Medfuelon (1)

⊕ ♣ Swight, Eric CIS (1)

⊕ ♣ Wright, Eric CIS (1)

How many open encounters? How old are they?

THESE ARE NOT PATIENT NAMES!!

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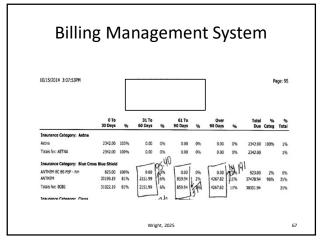
Billing Management Systems

- Many allow:
 - Evaluation of patients insurance, valid, deductible, amount already paid and anticipated amount owed on visit
 - This is done on every patient prior to being seen
 - Saves a lot of back end work
 - 3 mo f/u||Location: Exam Room 1||Status: Arrived - f/u- LM to r/s 2/16- balance of 79.34 on acct + cops x not Simple - abdominal pressure, ? UTI- balance on x not Simple - belly pain, fatigued||Location: Exam Roo x not Simple - ? ingrown hair||Location: Exam Room 1 x not Simple - conjuctivitis- 117.33 for ded today||Loc

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66



Implications of Technology

- Cost savings
- Staff savings
- Efficiency

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Newest Technology

- Bi-directional fill history for patients
- Reduces medication interactions
- Verifies medication names/dosages for patients who are unable or unwilling to produce

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Sometimes...it's the simple things



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Artificial Intelligence

- Drafting letters to patients
- Helping with differential diagnosis
- Writing
- So much more.....potential is untapped

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But...

- Technology also allows:
 - -Big brother watching
 - -Know every chart touched
 - -Every minute spent on different tasks
 - -Tracking
- Much of this is frightening to average provider

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72

Thank You!
I Would Be Happy To
Entertain Any Comments
or Questions!

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73

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74