



Lynn Miller RN, BSN, Director of Applications, MIS Department Jessica Morrison RN, BSN, Clinical Systems Analyst, MIS Department Doylestown Hospital

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Today's Speaker Lineup



Lynn Miller RN, BSN

Director of Applications, MIS Department, Doylestown Hospital



Jessica Morrison RN, BSN

Clinical Systems Analyst, MIS Department, Doylestown Hospital

Doylestown Hospital

Organization Overview

The flagship of Doylestown Health and part of a clinically integrated system of inpatient and outpatient healthcare services.

- Nationally and regionally recognized for high quality and innovation
- Serving patients and families in the northern suburban communities of Philadelphia
- 271 beds, and a medical staff of 435+ physicians in 50+ specialties



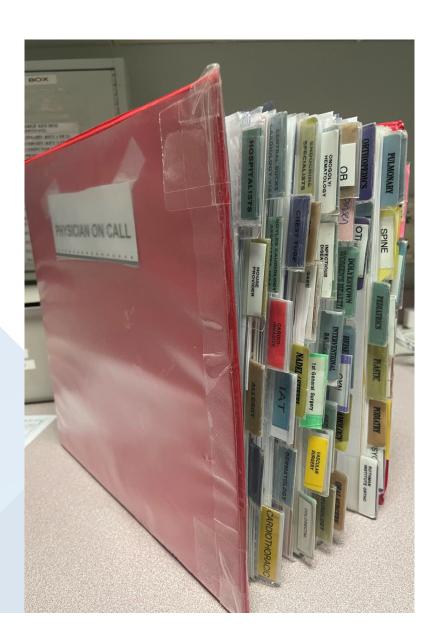
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An Antiquated Way of Scheduling

The Challenges of Scheduling

Before a Digital Solution was Implemented

- Maintaining on-call schedules was very manual and arduous, wanted to replace spreadsheets
- Needed to increase access/awareness to who was on call for each disciple/practice
- Wanted to stop sending a faxed report of which hospitalist providers were on each day (along with their shifts)
 - More hospitalists rounding than identified in the on-call schedule



Initial Physician Schedule

DOYLESTOWN HEALTH PHYSICIAN ON CALL SCHEDULE

v2	REV	4/25/21 5:33 AM	ED CALL	TIME	Doctor	Contact Number
5 7a-7p	Crane		PEDIATRICS	7A-7P	Metinko	
7p-7a	Patel P			7P-7A	Metinko	T
7a-7p	Tsai		PLASTIC SURGERY	7a-7a	Tamburnino	
#1 7p-7a	Wood		PODIATRY GENERAL	7a-7a	Freeman L	T
#2 7p-7a	Scammahom		PODIATRY SURGICAL	7a-7a	Verderame	T 1
1				7a-4p		+1
TIME	Doctor	Contact Number	PSYCHIATRY	4p-7a		Τ.
7a-12p	Jakahovics		Pulmonary			+
		,				+
						+
						+
			RHEUMATOLOGY			+
			SDINE CALL			+
						+
op-ra	Kiluliani		OROLOGI	04-04	reliel	-
73.40	Cmith DI			+ +		+
				+ +		+
				_		+
				+		+
			DDACTICE CALL	THE	Destes	Contact Numbe
				TIME		Contact Numbe
						+
5p-7a	McGarvey			73-73		+
						_
						1
7a-7a	Sheehan			5p-7a		_
7a-7a			NADEL/STIEFEL			
7a-7a	Greeley				Stiefel	1
	Mass		BUCKS COUNTY ORTHOPEDIC	8:30a-5p	Griffith	
	C00-200		SPECIALISTS	5p-8:30a	Griffith	
7a-7a	Walp					T
	70'0'888					
7a-7a	Pellini					
	1.000					
7a-7a	Pellini				- M	
				6A-3P	Gazak	
7a-7a	Lotto			9A-6P		
8a-4p	Dougherty	,	EMERGENCY PHYSICIANS			
	Doughorty			-WI-IA	Official	
82.82	Kimzov					
				+ +		+
			* TT Deafor Time Toy Cine	+ +		_
			11 - Freier riger rext Fifst	1		+
				1		_
				+		
				_		_
/a-7a				1		
				+		
7a-7a				1		
73-73	Griffith					
14-14	Offillia					4/25/21 (
	7p-7a 7p-7a 81 7p-7a 81 7p-7a 81 7p-7a 81 7p-7a 82 7p-7a 11ME 7a-12p 12p-7a 7a-12p 12p-7a 7a-7a 8a-4p 4p-8a 8a-8a 7a-7a	17a-7p				

Hospitalist On-Call Schedule

HOSPITALIST ON CALL SCHEDULE - FEBRUARY 2021

2021 revised 02/05/21

SUN	MON	TUE	WED	THU	FRI	SAT
31	1	2	3	4	5	6
MT - 12p-12a - \$1800	D S I R A M Rp 12-9-10 9-12-12-12 ED X OV / MEP H	D S I R A M Rp 8 12-8-10-8-12-12 ED X OV / MEP	(S) D N I R A M Rp 12-12-12-12-10-10-8 X-ED OV / MEP H	D S I R A M Rp 8-12-12-12-8-10-8 X-ED OV / MEP- off -N H (1350)	D S I R A M Rp 8- 8- 12-12-12-10-10 X- ED OV / MEP - off H	M -7a-7p ED -12 H -7p-7a-ED -NIGHT ED - 12p - 12a T - 7a- 12p (750)
	KM - 3p - 11p VD / TS	KM - 3p - 11p VD / TS	KM – 3p – 11p -OFF ED	KM - 3p - 11p -OFF VD	KM - 3p - 11p ED / TS	D S I R A Rp 10- 8- 8- 12X- 10- 8
7 Rp -7a-7p	8	9	10	11	12	13 L -7a-7p ED -12
PP - 7p - 7a ED - 12p - 12a	K C J Pm N L T 12-9-10- 9- 12-12- 12 ED X	K C J Pm N L T 8-12-8-10-8-12-12 ED X	K C JPm N L T 12-12-12-8- 10-10- 8 X-ED	K C J Pm N L T 8-12-12-12-8-10-8 X-ED	K C J Pm N L T 8-8-12-12-12-10-10 X- ED	PP - 7p-7a-ED-NIGHT
A - 12 cross cover T 12p-9p (1350)	OV / MEP - off PP	OV / MEP PP	OV / MEP PP	OV / MEP PP	OV / MEP PP	MT - 12p - 12a
D S I R M 12 10 8 8 8	-KM - 3p - 11p TS - VD - 36 hrs PTO	KM – 3p – 11p TS	KM – 3p – 11p ED	KM – 3p – 11p ED	KM – 3p – 11p TS	K C J Pm N T 10-8-8-12X-10-8
14 M -7a-7p (T)	15 RDDS IR AM	16 RDDSIRAM	17 RDDSIRAM	18 RDDSIRAM	19 Rp D S I R A M	20 A - 7a-7p ED-12
LS -7p-7a (PP-unpd)	12-9-10-9-12-12-12 ED X	8- 12- 8-10- 8-12-12 ED X	12- 12-12-8- 10-10-8 X-ED	8- 12-12-12- 8-10- 8 X-ED	8- 8-12-12-12-10-10 X- ED	H -7p-7a-ED -NIGHT
N -12 cross cover MT - 12p - 12a	OV / MEP H	OV / MEP H	OV / MEP H	OV / MEP PP-7p-12a -H-12a7a	OV / MEP H	TS - 12p - 12a
K C J Pm L 12 10 8 8 8	KM - 3p - 11p ED / TS /VD-11 PTO	KM – 3p – 11p TS	KM – 3p – 11p ED	KM – 3p – 11p ED-12 PTO / VD	KM – 3p – 11p VD	Rp D S I R M 10- 8- 8- 12X- 10- 8
21 M -7a-7p	22 T K C J Pm N L 12-9-10-9-12-12-12	23 T K C J Pm N L 8 -12- 8-10-8- 12- 12	24 T K C J Pm N L 12-12-12-8-10-10-8	25 T K C J Pm N L 8-12-12-12-8- 10-8	26 T K C J Pm N L 8- 8-12-12-12-10-10	27 N -7a-7p ED-12
H -7p-7a TS - 12p - 12a	ED X	ED X OV / MEP	X-ED OV / MEP	X-ED OV / MEP	X- ED OV / MEP	PP - 7p-7-ED -NIGHT
R - 12 cross cover	(1800)- LS (PP-unpd) KM – 3p – 11p	PP KM – 3p – 11p	PP KM – 3p – 11p	PP KM - 3p - 11p	PP KM – 3p – 11p	VD - 12p - 12a
Rp D S I A 12 10 8 8 8	ED / VD	TS	TS	ED	ED / VD	T K C J Pm L 10-8-8-12X-10-8
28 L -7a-7p						
PP -7p-7a VD - 12p - 12a Pm- 12 cross cover						
T K C J N 12 10 8 8 8						

Printing, Writing, and Faxing

Automating manual processes



	Monday	Tuesday	18/ - de de -			
7A-7P ED		rucsuuy	Wednesday	Thursday	<u>Friday</u>	Saturday
74 70 14	7A-7P ED	7A-7P ED	7A-7P ED	7A-7P ED	7A-7P ED	7A-7P ED
7A-7P X	7A-7P X	7A-7P X	7A-7P X	7A-7P X	7A-7P X	7A-7P X
7A-7P	7A-7P	7A-7P	7A-7P	7A-7P	7A-7P	7A-7P
7A-3P	7A-7P	7A-3P	7A-3P	7A-3P	7A-3P	7A-3P
7A-3P	7A-4P	7A-3P	7A-3P	7A-3P	7A-3P	7A-3P
7A-3P	7A-4P	7A-3P	7A-4P	7A-3P	7A-4P	7A-3-P
7A-5P	7A-4P	7A-4P	7A-4P	7A-4P	7A-4P	7A-5P
12P- 12A NP/PA/MD	7A-4P	7A-4P	7A-5P	7A-4P	7A-5P	12P- 12A- NP/PA/MD
7P-7A ED	7A-5P	7A-5p	7A-5P	7A-5p	7A-5P	7P-7A ED
	3P-11P	3P-11P	3P-11P	3P-11P	3P-11P	
	7P-7A	7P-7A	7P-7A	7P-7A	7P-7A	
Provider Schedules	Roles					
7A-7P ED	Hospitalist ED Call 7A-7P		HOSP:ED:7A			
7P-7A ED	Hospitalist ED Call 7P-7A		HOSP:ED:7p			
7A-7P X	Hospitalist Cross coverage	e/floor 3p-7p	HOSP:X:7A			
7A-7P	Hospitalist Shift 7a-7p.		HOSP:7A7P.			
7A-7P	Hospitalist Shift 7a-7p		HOSP:7A7P			
7A-3P	Hospitalist Shift 7a-3p.		HOSP:7A3P.			
7A-3P	Hospitalist Shift 7a-3p		HOSP:7A3P			
7A-3P	Hospitalist Shift 7a-3p		HOSP:7A3P			
7A-4P	Hospitalist Shift 7a-4p.		HOSP:7A4P.			
7A-4P	Hospitalist Shift 7a-4p		HOSP:7A4P			
7A-4P	Hospitalist Shift 7a-4p		HOSP:7A4P			
7A-4P	Hospitalist Shift 7a-4p		HOSP:7A4P			
7A-5P	Hospitalist Shift 7a-5p.		HOSP:7A5P.			
7A-5P	Hospitalist Shift 7a-5p		HOSP:7A5P.			
3P-11P	Hospitalist Shift 3P-11P		HOSP:3P			



Modernizing the Scheduling Process

Solving the Challenges

Using TigerFlow and TigerSchedule

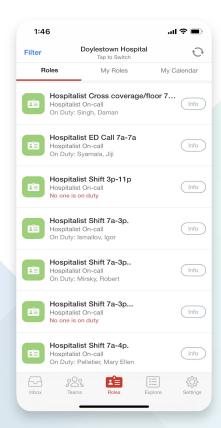
- Roles needed with one role per position on the on-call schedule
 - Each practice/disciple would have one 24-hour role with multiple jobs/shifts supporting it
 - Exception: ED and hospitalist groups. Overlapping shifts and multiple people on call each day requires more than one role for the discipline/practice
- Connected care team involved:
 - MIS Applications director and analysts
 - Switchboard operators
 - Schedulers for each practice
 - Physicians' input



An Agile Implementation

Started with the Roles Feature

- Unique roll out, started first with non provider roles
 - Pharmacy, hospitalist department (manually opting in/out), then pediatrics
- Roles assisted with TigerConnect top of mind recall
 - No one had to write papers anymore, just login to see their roles
 - Got people used to logging into the app to check their roles prior to full roll out
- Then implemented the scheduling piece
 - Gave two weeks notice that the paper processes were going away



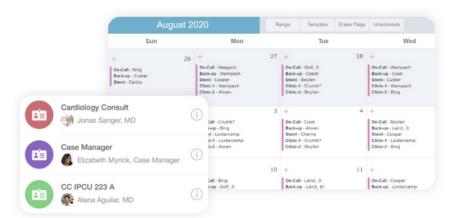


The Digital Transformation

Results, Outcomes, and Lessons Learned



The Positive Impact Of Modernizing On-Call Schedules



- On call schedules are more accessible via roles and link to daily roster
 - Providers can save to their own devices
 - Reduced calls to switchboard to determine who is on-call
- Practice schedulers are involved in keeping schedule up to date in real time
- Providers have more autonomy to quickly change the on-call coverage without having to contact switchboard if using opt in/out function
- Operators no longer need to manually build and update daily schedule
 - Reduced calls/emails/faxes to switchboard to update current and future schedules



Lessons Learned

- Provider confusion in the first few days regarding messages passing with the role from inbox to inbox.
 - Reduce # of days role messages stay in the inbox (30 days -> 1 day).
 - Explain in advance the difference in the dot that applies to a tag vs. a new message dot with a number
 - Reinforce from the beginning the importance of READ for the message status
- Pilot testing with a small controlled group (pediatrics) as test pilot, followed by largest group (Hospitalists). Then took all of the practices live.
 - Agile implementation worked well and helped to answer questions before it reached all the groups.
- Require practices as much as possible to follow at 7am-7am on call rotation especially when
 it comes to multiple practices staffing one on call position (example gyn covered by 3
 practices)



Conclusion

Ultimate Goal: Roles and Schedule

