IQUEUE FOR OPERATING ROOMS

TWO IS NOT

Oregon Health and Science University's Journey to Optimize & Expand Surgical Volume

DATE: AUGUSUT 28, 2023

OHSU

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- no relevant financial or nonfinancial relationships to disclose -

SESSION OBJECTIVES

- explore challenges of relying on traditional OR performance reports for key operational decision-making
- > describe the value of adopting a culture of data transparency in perioperative analytics
- discover how OHSU's adoption of predictive and prescriptive analytics tools optimized efficiency and resource allocation



OHSU INSTITUIONAL BACKGROUND

- U.S. News & World Report rankings:
 - #1 hospital in Oregon (2023-24)
 - Nationally ranked in 3 adult specialties and 5 children's specialties (2022-23)
- Gross Patient Charges: \$6.7 billion (FY 2023)
- Surgical gross revenues: \$1.1 billion (FY2023)
- ~35,000+ annual surgeries performed at 4 surgical sites across 53 operating rooms
- 576 licensed beds
- 1 of 2 designated Level 1 Trauma Centers in Oregon, playing a pivotal role in the inception of the Oregon Trauma System.
- Oregon's only academic health center
- Two partner hospitals: Hillsboro Medical Center & Adventist Hospital Portland





AGENDA

introduction

2

3

5

6

- universal challenges
 - institutional background: challenges & motivations
 - implementation overview: iQueue and pre/post-COVID
- next steps
 - Q & A



OPERATING ROOM ISSUES Pre Pandemic & Pre iQueue



Iring Blok



Pre Pandemic & Pre iQueue

access

- 15+ providers with no block
- out of control add on list
- anesthesia inefficiencies need to consolidate rooms
- in-patients waiting for surgery large number of backlog elective cases
- various release deadlines / no proactive block release
- advertising open time is time consuming and manual process



Pre Pandemic & Pre iQueue



accountability

one – dimension metric

accuracy and utility of raw block utilization statistics was easily refuted – resulted in little reallocation and action from perioperative leadership

budget disconnection

hospital budget and block utilization were disconnected – difficult to determine wo is response and accountable for utilization



Pre Pandemic & Pre iQueue

visibility

limited visibility to 'open time' manual process slow

untrustworthy data manually extracted from EHR

no visibility into their own data no visibility into or other's data no visibility into metric definitions time consuming to produce



Pre Pandemic & Pre iQueue

weekend incentive blocks

goal: free up block during primetime (Mon-Fri)

outcomes: increased volume did not help capacity did not help block

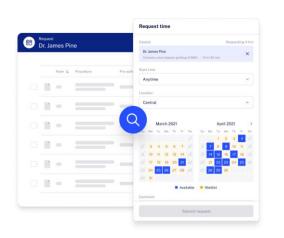
what we learned: surgeons did not take week day off extra workload

High Capacity Incentive Plan

- 1. Attending Surgeon(s) will be eligible for \$1,500 incentive payment per block.
 - a. Weekend day is a Saturday or Sunday.
 - b. Weekend blocks are 8hr blocks (0730-1530)
 - i. 4 hrs or more = \$1,500
 - ii. less than 4 hrs= \$750
 - Majority (>50%) of scheduled case minutes must be inpatient status cases (not same day discharge).
 - d. Block releases Monday prior at 4pm.
 - e. Block can be recurring (secured weekly/monthly) or ad hoc (accessed through iQ).
 - f. Weekend OR blocks may or may not represent an "extra shift" of physician work, but this effort should be determined with the Department Chair.
 - Payment will be per attending (ie co attending surgeons will each receive incentive). No additional payment for fellow, PA, etc.
- 2. Weekend Blocks/Cases Not Eligible for Incentive Pay:
 - 1. Blocks with majority of case minutes booked as same day discharge.
 - Add on cases/rooms or trauma (EGS, Ortho Trauma), short release rooms.



IQUEUE - WHAT IS IT?



EXCHANGE

create OR access through a "marketplace for open time" and alerts to identify OR opportunities

request OR time release OR time transfer OR time get alerts when OR time is avail reminder to release OR time

COLLECT & ALLOCATE

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allocate new blocks through data driven process, surface truly reusable or "Collectable Time"

review collective time by service, day of week & location, visualize day by day utilization, visualize overbooking

ANALYZE

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'single source of truth' for analytics and "push" relevant metrics to users

block utilization, primetime utilization case volume, turn over time 1st case start, case length data and accuracy same day cancellation robotic utilization



OHSU IQUEUE IMPLEMENTATION

OHSU i-Queue go live: October 22, 2018 implementation was quick: data feed block build training

scope - modules: exchange collect analyze

practice surgery scheduler competition: most released and most transfer

culture shift – moved to 7 calendar day block release





OHSU IQUEUE RESULTS – 1 YEAR

Pre Pandemic & Post iQueue

access

implemented *Exchange* into policy as the single process to request open time & release Block

accountability

collectable time added to block policy for block rightsizing

visibility

single source of truth for KPIs automated reports full visibility into open time full visibility for all users



YES, WE MEAN ALL USERS HAVE ACCESS TO EVERYONE'S DATA.



OHSU IQUEUE RESULTS – 1 YEAR

1,121 blocks released

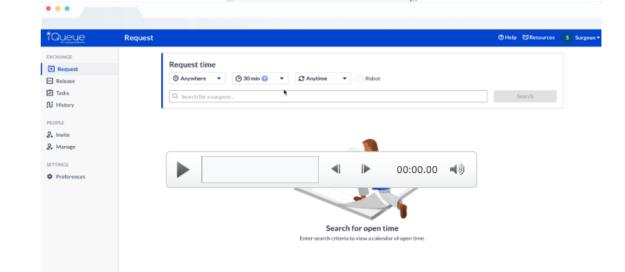
3,450 approved open time requests

26 days average block transfer proactivity 14 days average release proactivity

+5% year over year block utilization*

+1%

year over year prime time utilization* +5% year over year staffed room utilization *



iQueue

An easy way for you to request or release operating room time or

Welcome to Exchange

Request
 Release

your phone.



RETURN ON INVESTMENT Realized & Potential Financial Benefits

collect:

Total Collectable Blocks per Quarter = **171 blocks** Average block length = **480 minutes** \$ per OR minute = **\$150** Average Utilization = **75%**

171 * 480 * 150 * 0.75 = \$9,234,000 quarterly financial opportunity

~ \$36,936,000 yearly financial opportunity

exchange:

Released Minutes [capacity unlocked] = **321,000 mins** Release Fill Rate [capacity filled]= **38%** \$ per OR minute = \$150 (a)Realized ROI: 321,000 * 38%* 150 = \$18,297,000

OR

Realized ROI = 10% of requested min * \$150 (^{b)}Realized ROI = (10% * 530,000 mins) * \$150 = \$7,950,000

total ROI opportunity: \$36,936,000 total realized ROI: ^(a) **\$18,297,000** / ^(b) **\$7,950,000**



RETURN ON INVESTMENT

Realized Incremental Revenue

Total ORs (main operating rooms) = **25 ORs 1 more case per OR per month** Incremental Cases = **300** Minutes per case = **200** (actual avg. case duration) **\$ per OR minute: \$150** Incremental revenue = **~\$9,000,000**

OR

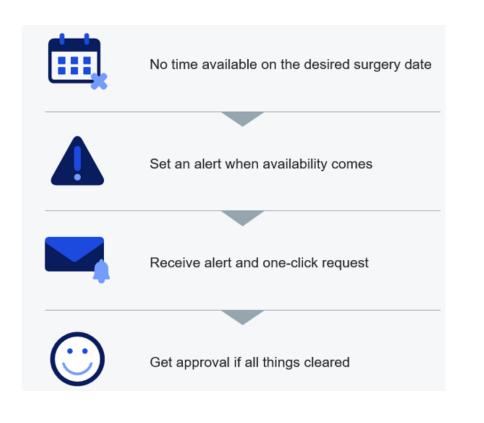
Incremental cases done (assuming iQueue attribution of 50%) = \$4,500,000



POST IQUEUE ENVIRONMENT

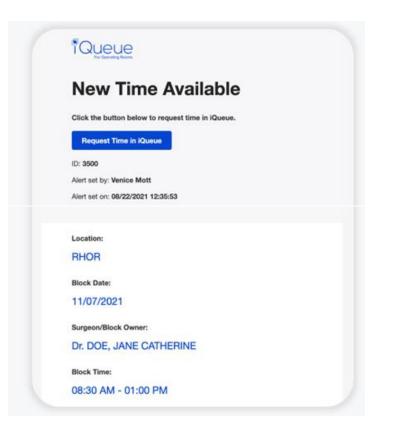
visibility to 'open time'

consistent and strong use of exchange market role clarity - practice schedulers know when there is time for a case, better planning starts farther upstream



automation

availability alters – waiting list maintained by a computer





POST IQUEUE ENVIRONMENT

block release moved from 7 days to 14 days

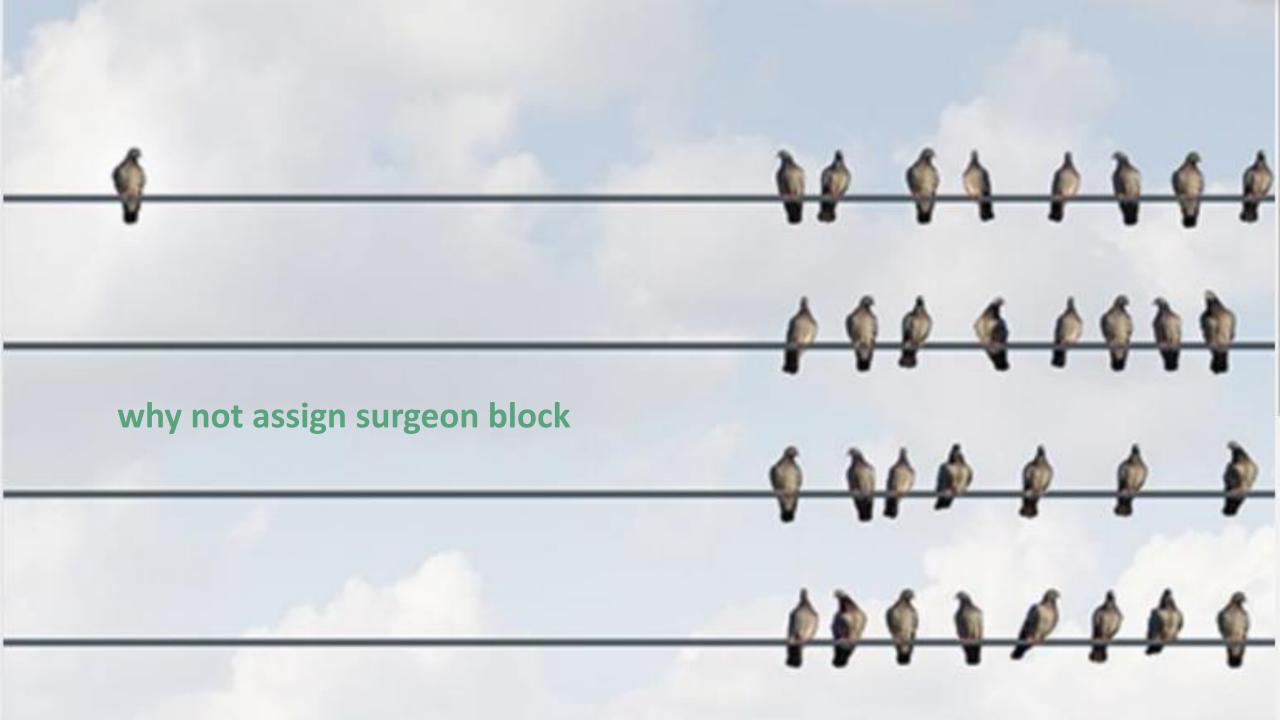
9. Block Release

- a. Blocks release at 0830 on the day of designated block release
- b. All blocks automatically release at 10 business days.
- c. Exceptions:
 - i. SOR:
 - 6am block release: Ortho Trauma, Acute Care Sugery [aka Emergency General Surgery (EGS)], Short Release
 - b. 23 hr block release: Adult Cardiac (see section e below)
 - c. 48 hr block release: Family Planning
 - ii. CHH:
 - a. 48 hr block release: Ortho Fracture Block, Family Planning
 - iii. DCH:
 - a. 5 business day block release: Ortho (OHSU and Kaiser), Peds Cardiac (see section f below)
 - b. 430am block release: Ortho Trauma
- d. Manual block release should be submitted through iQueue ahead of the automatic release to notify OR scheduling of vacation or conference time that will preclude filling block. This allows block to be open for other surgical services/surgeons.



OHSU BLOCK POLICY

Surgical blocks are owned by the Perioperative Department and are actively managed by local Management Groups (MGs) with oversight from the Executive Management Group (EMG). Blocks are assigned to departments. The department is responsible for proper block stewardship.



POST IQUEUE ENVIRONMENT

'collectable time' drives block changes

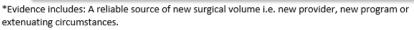
real time realization you are off track

14. Measurement of Block Management

- Surgical block allocations for the OR schedule are determined based on a combination of collectable time/blocks, collectable %, and Exchange transaction history.
- b. Due to the COVID 19 pandemic, utilization data has been excluded from Block, Prime Time and Staffed Room Utilization from March 16, 2020 through August 31, 2020.
- c. Collectable Time is considered under-utilized OR time and therefore can be reallocated to increase access for other services and surgeons. It is composed of the following 3 categories:
 - Entire Block Unused Minutes: If a block was not manually released and not a single minute of it was used, then all the minutes in that block are count towards Collectable Time.
 - ii. Continuous Unused Time: If a block is not manually released and if it is not filled fully, there will be empty pockets of time within the block. If any single continuous measurement of time is larger than:
 - SOR and DCH: 3.5 hours (the Continuous Unused Time Threshold), then that pocket of time is regarded as collectable.
 - CHH: 2.5 hours (the Continuous Unused Time Threshold), then that pocket of time is regarded as collectable.
 - iii. Released Time Above Acceptable Release Minutes: The Acceptable Release Minutes is determined based off of the Manual Release Threshold. This is calculated as (Total Manual Release Minutes minus Acceptable Release Minutes). *Acceptable Release minutes: Manual releases that take up to 20% of total allocated time wont' be counted toward collectable time.

15. Block Review and Removal

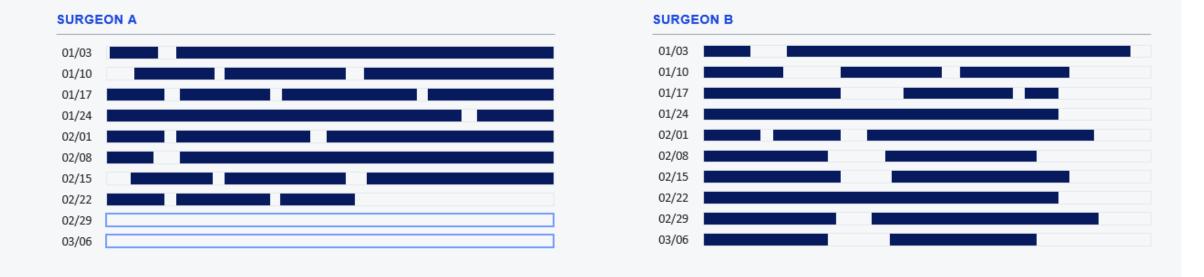
- a. Data review is completed at local MG level. Decision comes from committee on appropriate action. Implementation is specific to the decision (ex email, meeting, escalation). Measurement of effectiveness and consequence of implementation typically occurs for following 2-3 months.
- b. Possibilities interventions for removing/reallocating block:
 - i. Increase block release
 - ii. Alter block length (ex. from 10hrs to 8hrs)
 - iii. Split existing block (ex. take 2 days out of 4 away)
 - iv. Move existing block to a day/location that can be better utilized. Impacts other service lines.
 - v. Remove block (partial or all).
- c. Blocks are subject to removal if greater than 20% total collectable time is observed. If review by MG does not produce sufficient evidence for retaining the block, a plan to reallocate or remove will be presented to service. If there is disagreement between MG and service on plan, escalation will occur to EMG for support and decision. Final decisions and changes will be communicated in writing to the department chair, administrator, division chief, and surgeon as applicable.





WHAT IS COLLECTABLE TIME

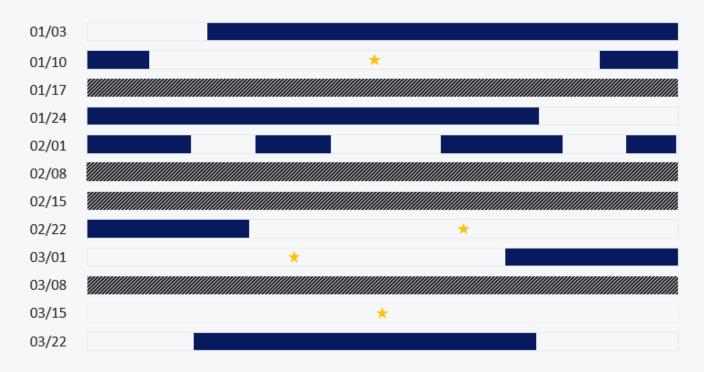
block utilization



- Block utilization targets arbitrary and ("1 block utilization") means nothing: You can't take that amount away from surgeons
- Not surgeon centric: Penalizes surgeons for small and meaningless delays
- Not comparable across service lines
- Not comprehensive: Does not account for complications like block time release

WHAT IS COLLECTABLE TIME

collectable time



Collectable time considers only time that could have been used for additional cases, and allows leadership to apply rules around released time

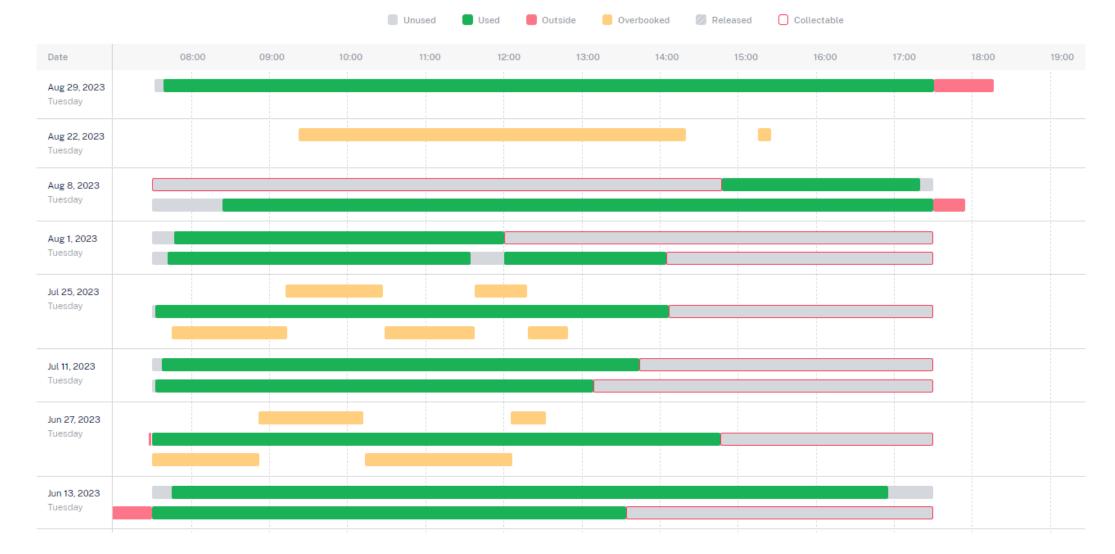
- Large contiguous portions of unused time
- Abandoned time
- Release percentage beyond a certain threshold

A 12-WEEK EXAMPLE

Legend

- Used block time
- Released block time
- Non-collectable (ignore)
- ★ Collectable (consider)

COLLECTABLE CASE STUDY





COLLECTABLE CASE STUDY

Completed Tables (6)

Date Range	Allocated Blocks / qtr	Excess Blocks / qtr	Collected Blocks / qtr	Completed Date
Dec 31, 2018 - Dec 31, 2019	197	14 (7%)	11 (6 decisions)	Jan 24, 2020 by Kristen Lund
Dec 31, 2018 - Dec 31, 2019	201	33 (16%)	9 (5 decisions)	Jan 21, 2020 by Kristen Lund
Aug 31, 2018 - Aug 31, 2019	26	8 (31%)	6 (3 decisions)	Sep 13, 2019 by Kristen Lund



POST IQUEUE ENVIRONMENT

Level 1 – Immediate/Acute Life-and-Death Emergency: Patient's condition unstable, needs to be in OR now. Patient is in immediate risk of loss of life or loss of limb, shock, or may not be responding to resuscitation measures.

Level 2 –<u>Urgent:</u> Patient's condition unstable, needs to be in OR within 2 hours of posting where a delay of greater than 2 hours may result in significant risk to life, limb, or organ.

Level 3 –<u>Priority-High:</u> Patient's condition stable, but requires attention to prevent deterioration, needs to be in the OR within 6 hours of posting where a delay of up to 6 hours will not result in risk to life, limb, or organ.

Level 4 – <u>Priority-Med.</u>: Patient's condition stable, should be in the OR within 12 hours of posting to reduce potential morbidity where delay of up to 12 hours will not result in risk to life, limb or organ.

Level 5 – Priority-Low: Patient's condition stable, should be in the OR within 24 hours of posting where delay of up to 24 hours will not result in risk to life, limb, or organ.

Level 6 – <u>Non-Urgent/Non-Priority</u>: Patient's condition stable, should be in the OR within 72 hours of posting, where delay of up to 72 hours will not result in risk to life, limb, or organ.

prioritization

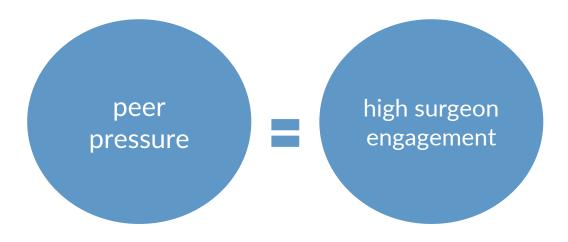
add-on level classification adapted

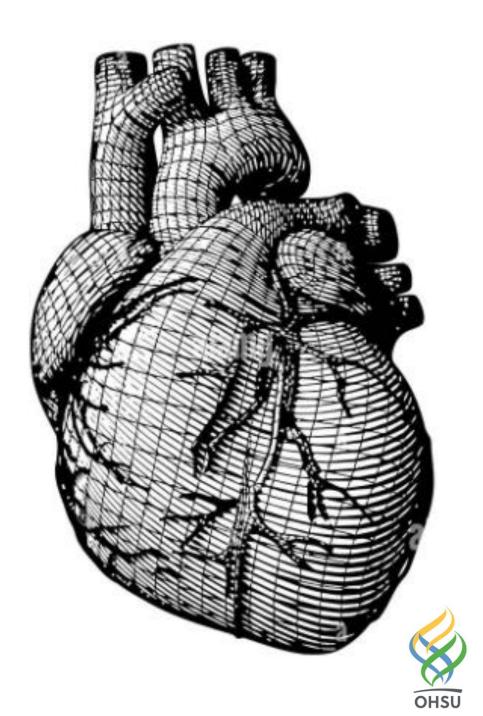


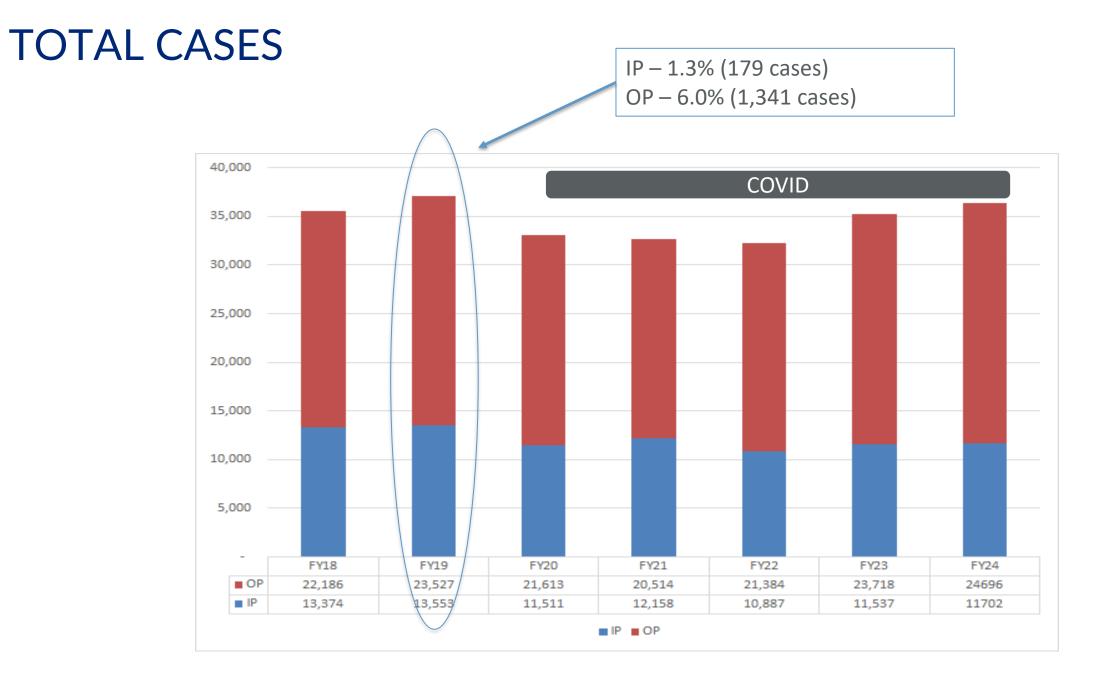
cardiac block as shared trauma space

access

cardiac - high collectable time translated opportunity to open access for add ons

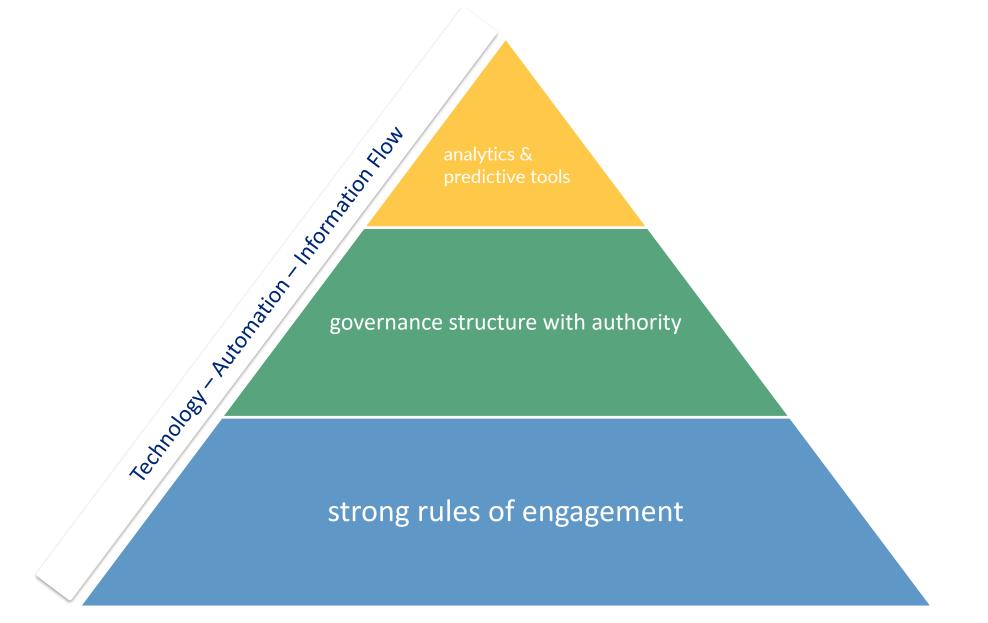






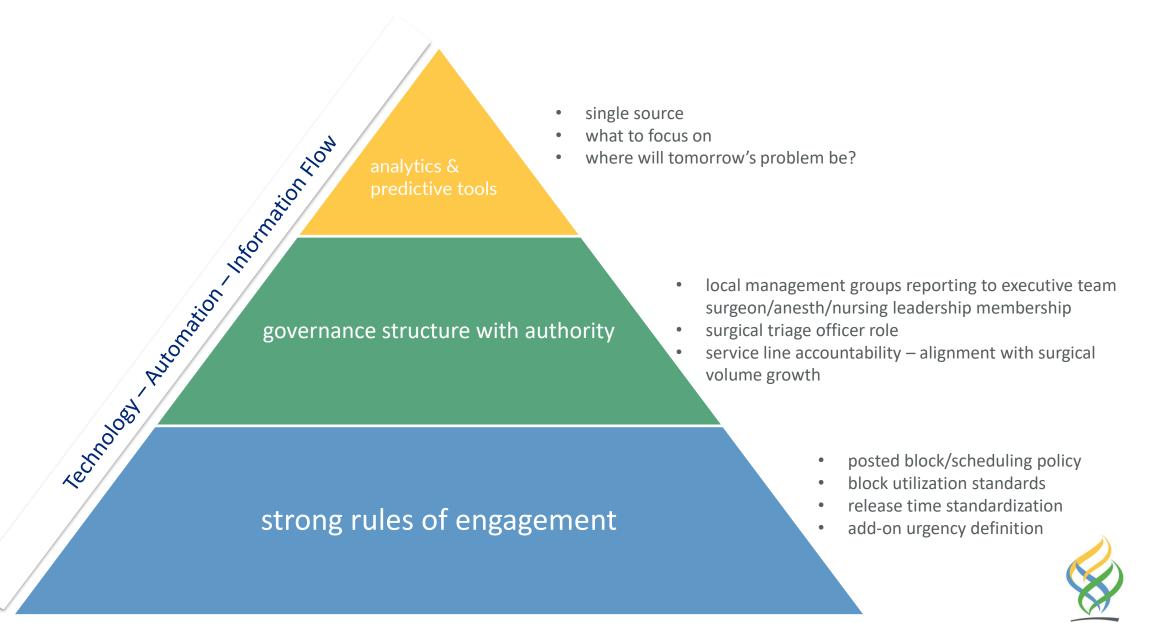


OHSU PERIOPERATIVE OPERATIONS STRUCTURE

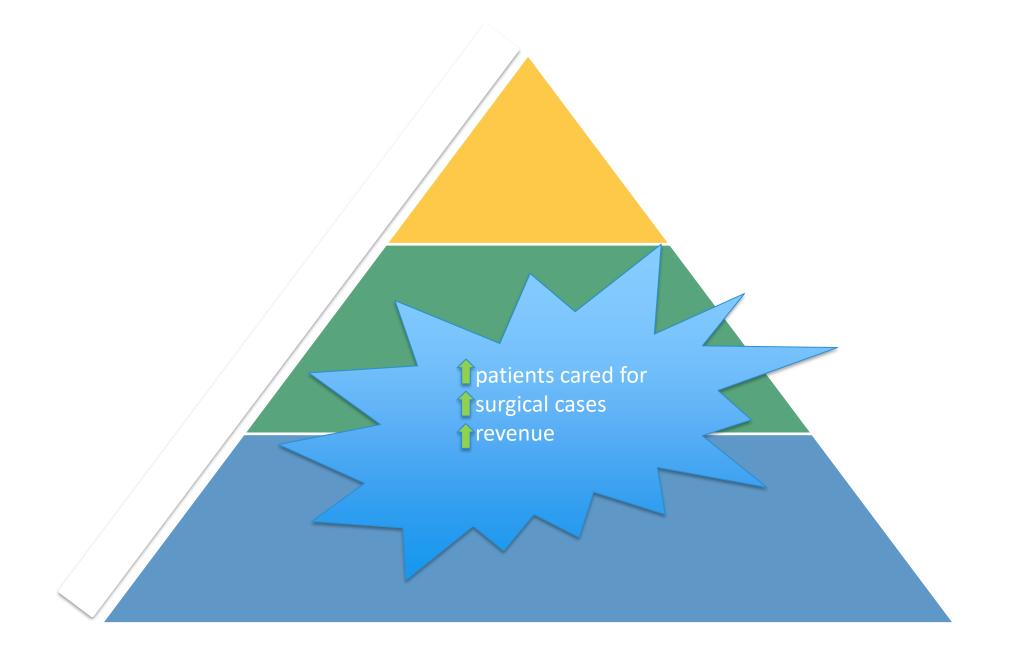




OHSU PERIOPERATIVE OPERATIONS STRUCTURE



OHSU PERIOPERATIVE OPERATIONS STRUCTURE



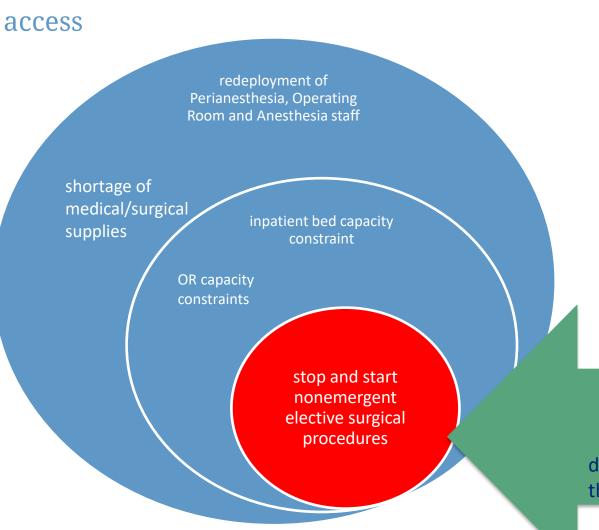


Stay home. Save lives.

covid19.ca.gov



IQUEUE DURING COVID-19



iQueue capacity module tool



back end ability to open and close available time

iQueue capacity module tool all OR resources used by not overbooked

dynamic, custom messages to drive booking behaviors that are beneficial to the system



accountability

one source

leveraged real-time exchange

advanced reporting and analytics to increase the operating room capacity

universal hold on data from initial pandemic response

connections outside Periop

full visibility to operating room utilization, resources and into open time

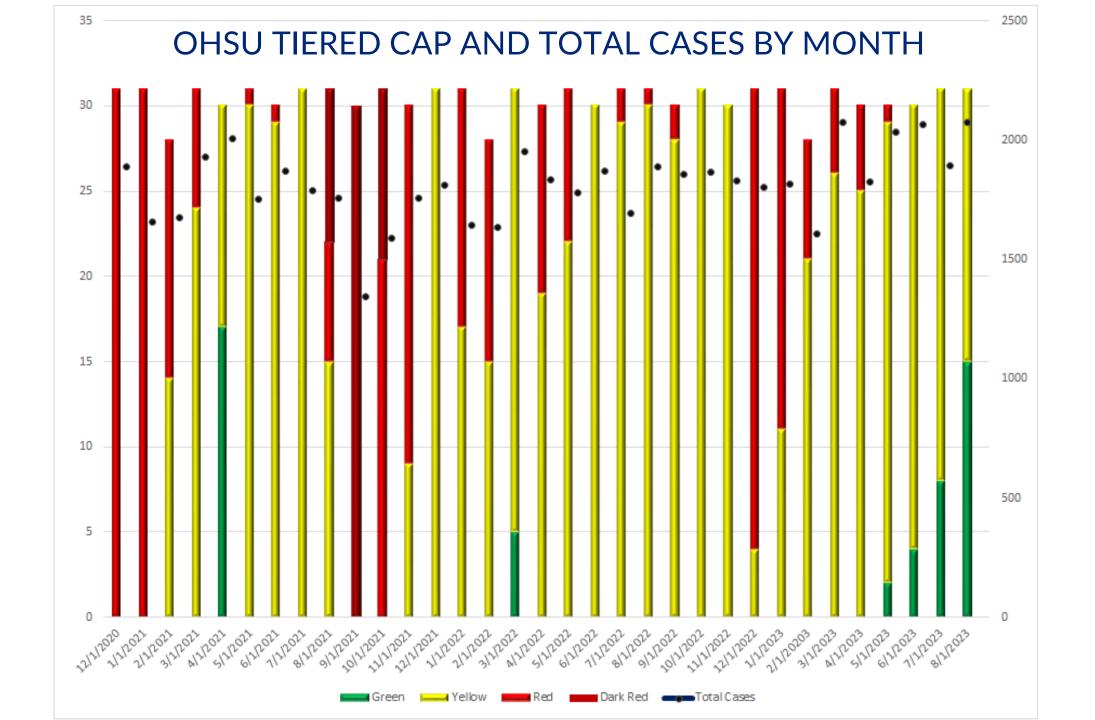
increased partnership Mission Control (bed placement)



IQUEUE DURING COVID-19

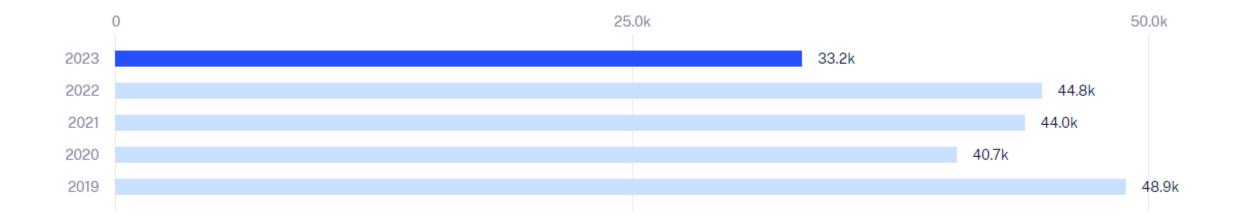
Periop and MSPU: Tiered Response – Operational Reference Guide

	Green Tier	Yellow Tier Block/ Green Tier Admissions (modified)	Yellow Tier (modified)	Red Tier (contingency)	Dark Red Tier (CRISIS)
Block Schedule	SOR Green Block [here]	SOR Yellow Block [here]	SOR Yellow Block [here]	SOR Red Block [here]	 Additional reduction in all areas to re-deploy workforce Case-by case decision based on IP capacity
Admission Cap	25/day, 6 of 25 can be ICU bound + MPSU 75 (3 day rolling average)	25/day + MPSU 6 of the 25 can be ICU bound.	20/day + MPSU 6 of the 20 can be ICU bound.	SOR 15/day 4 of the 15 can be ICU bound MSPU 1 ICU in addition No more than 2 pts per day to any ICU	15/Day 4 ICU total (including up to 1 from MSPU) No more than 2 patients to any ICU
MSPU	Normal operations 2 ICU bound procedure per da	y.	Normal operations. 1 ICU bound procedure per day.	BMT through IR is not included. Normal day patients access.	Extreme high risk for same day cancellation BMT through IR is not included. Normal day patients access.
iQ – types of pts allowed to be booked through iQ	 admitting pts., same day discharge, Already in house, 6A to OCU 	 admitting pts., same day discharge, Already in house, 6A to OCU 	 same day discharge, Already in house, 6A to OCU 	 same day discharge, Already in house, 6A to OCU 	
STO (OR only, not MSPU)	Must approve all cases booked	into short release time.	Must approve all case booked into Must approve all cases booked into admission. Link to STO Communication decisio	o open/released time that need	TBD





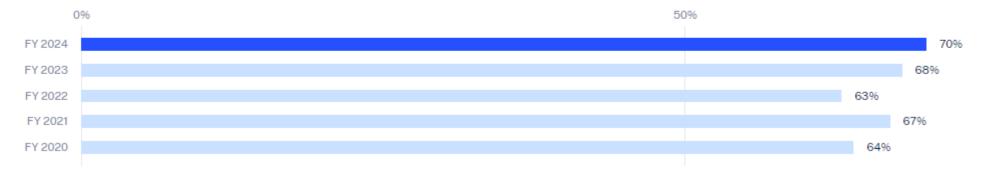
CASE VOLUME YEAR OVER YEAR



PRIME TIME UTILIZATION – MAIN AND ABM OR – FY OVER FY

FY 2024	FY 2023	FY 2022	FY 2021	FY 2020
70%	68%	63%	67%	64%

This fiscal year
 Previous fiscal years

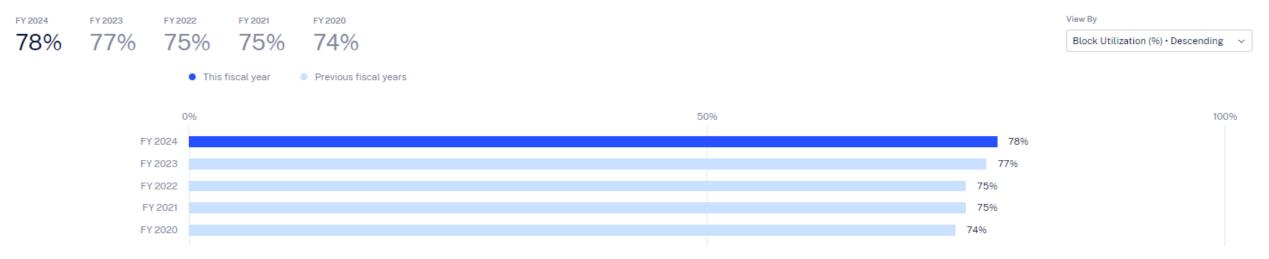




BLOCK UTILIZATION – AMB OR – FY YEAR OVER FY YEAR

FY 2024 FY 2023 FY 2022 FY 2021 FY 2020 73% 73% 80% 78% 76% This fiscal year Previous fiscal years 0% 50% 80% FY 2024 FY 2023 78% 76% FY 2022 FY 2021 73% FY 2020 73%

BLOCK UTILIZATION - MAIN OR - FY YEAR OVER FY YEAR



Request and release timeliness

CY 22

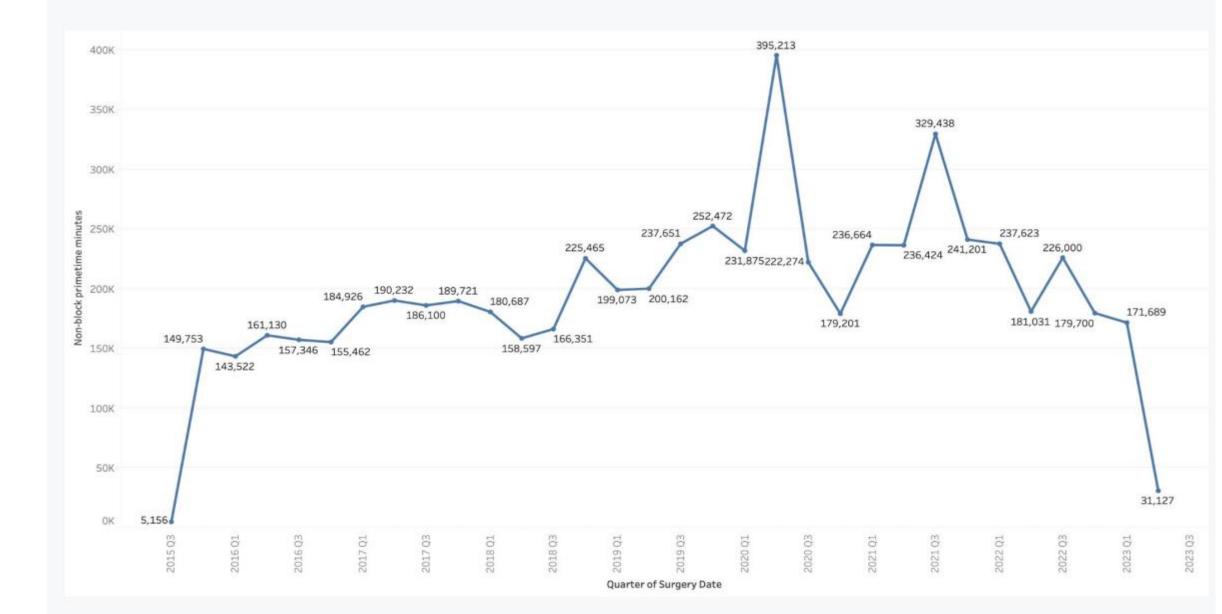
Requesting and releasing time weeks in advance with quick responses and low denials



- On average, OR schedulers responded to requests in under 1 day
- Slight uptick with 14% of requests were denied



ROI to date: Volume recovered in iQueue



Sustainability

CULTURE: now that you have data, what are you going to do

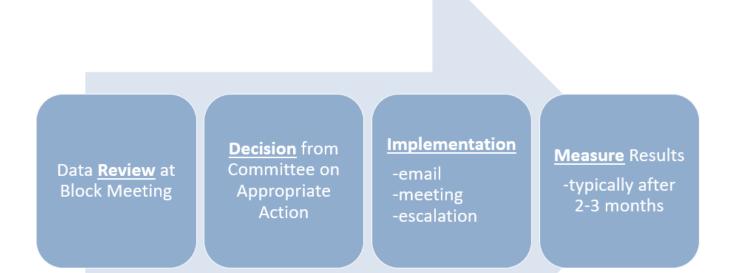
how

monthly local site management group (MG) meetings

quarterly report out to surgeon chief leaders

why

build trust through dynamic responses to changing needs





POST IQUEUE ENVIRONMENT Leadership Perspective

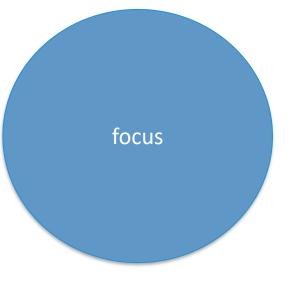


block is managed in predictable way

rules are clear

getting access to OR time has one process

we all see the same data



things off track are obvious

information for decisions is refined and dynamic

not person dependent harder to not know machine learning less manual

automation

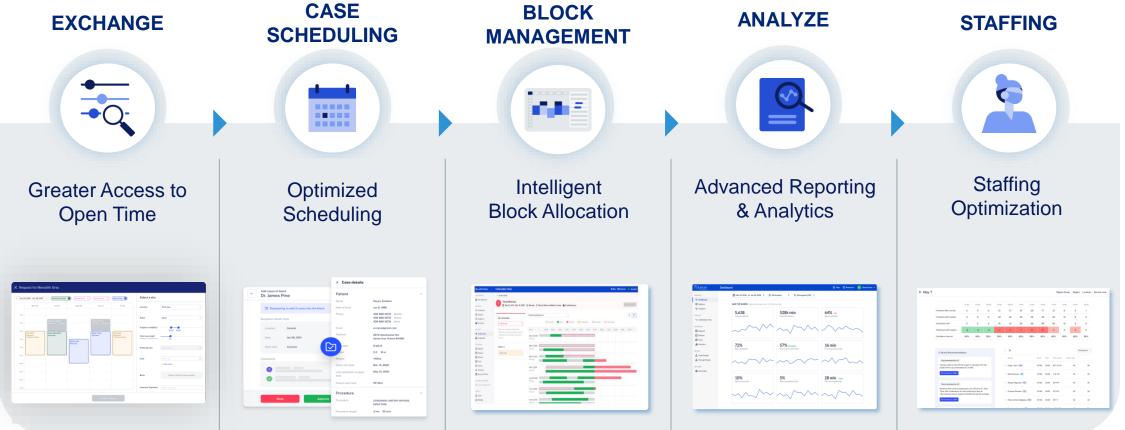


think of the person you go to for OR operations and volume and block

if they didn't come back to work tomorrow, how prepared are you



IQUEUE NOW





THE DOWNSIDE



requires commitment

new winners and new losers

initial versions don't always meet your needs testing, giving feedback

how you set the system up matters

historic practices are up for review

measuring ROI is complex

volume is not static – nothing is based on single intervention



Further Optimization

median time

moved to Epic calculated median times August 1, 2023

all cases default to use Epic calculated time new button in case entry "Do Not Use Median"

Case Details

Do NOT use Epic median time

Requested wheels in - out (mins)



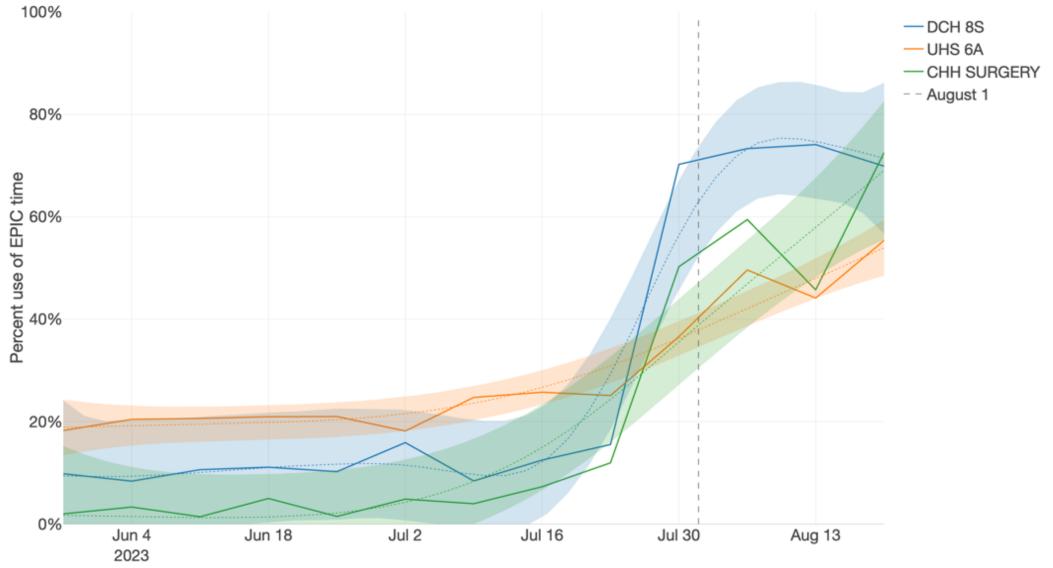
Spine case estimation tool

Testing and validating the spine case length estimation tool in iQueue

- Currently testing model to ensure accuracy can be improved over current scheduling processes
- Leverages a machine learning model to help predict time needed for spine cases
- Can only be used for spine cases that a surgeon has previously performed

urgeon iley, Peter	Location University Inpatien	t Pavilion
rocedure ID OSTERIOR LUM	IBAR SPINE SURGEF	RY [2805]
Procedure desc	ription *	
C3-T2 POST	ERIOR SPINAL FUSI	ON AND DECOMPRESSIONS.
Patient class		Requested length (min) *
Emergency	~	210

How often are cases scheduled with the EPIC time?



OHSU

Further Optimization

predictive analytics: rooms running

goals strategic volume management, right size staffing [OHSU SOR-Oregon Health] Please see below for the room utilization predictions for the next 14 days

		Current							Predicted													
Time of Day	1	35	7	9	11	13	15	17	19	21	23	1	35	7	9	11	13	15	17	19	21	23
Surgery Date																						
Thu, Aug 04	0	00	15	14	11	10	8	2	1	0	0	0	00	15	15	12	14	14	7	5	2	1
Fri, Aug 05	0	00	14	14	12	12	8	2	0	0	0	0	00	15	15	15	18	16	10	5	3	1
Sat, Aug 06	0	00	3	3	3	3	0	0	0	0	0	0	00	6	6	6	6	4	2	2	1	1
Sun, Aug 07	0	00	0	0	0	0	0	0	0	0	0	0	00	4	4	4	3	3	2	2	1	1
Mon, Aug 08	0	00	15	15	15	13	8	0	0	0	0	0	00	15	19	19	19	18	6	6	3	2
Tue, Aug 09	0	00	16	16	16	15	10	3	0	0	0	0	00	19	20	21	22	20	13	7	3	1
Wed, Aug 10	0	00	13	13	12	12	8	2	0	0	0	0	00	18	19	18	20	18	13	7	3	2
Thu, Aug 11	0	00	15	15	10	10	5	2	1	1	1	0	00	19	20	17	19	16	13	7	4	2
Fri, Aug 12	0	00	13	13	12	10	7	3	1	0	0	0	00	19	20	20	19	18	14	8	3	1
Sat, Aug 13	0	00	3	3	3	1	0	0	0	0	0	0	00	7	7	7	5	4	3	2	2	1
Sun, Aug 14	0	00	0	0	0	0	0	0	0	0	0	0	00	4	4	4	3	3	2	2	1	1
Mon, Aug 15	0	00	12	12	11	8	7	2	1	0	0	0	00	16	19	19	18	19	13	7	3	1
Tue, Aug 16	0	00	11	11	9	6	3	1	0	0	0	0	00	19	19	19	18	15	12	6	3	2
Wed, Aug 17	0	00	11	11	10	9	7	2	2	1	0	0	00	19	20	19	19	19	13	8	5	2
Thu, Aug 18	0	00	6	6	6	5	4	2	0	0	0	0	00	15	15	16	18	16	13	6	3	2

Columns headers: Time of Day in bi-hourly intervals. e.g. "7" represents the 2 hours starting at 7am.

Values: the max number of rooms we are predicting that you will be running during that bi-hourly interval.

Data pulled 8/4/2022



Further Optimization

predictive analytics: unused blocks

goal strategic volume management

[Oregon Health - OHSU DCH OR] Below are the abandon block predictions for the next 1-21 days.

Color	Meaning
	Model is more than 99% confident that at least the predicted number of blocks will go unfilled
	Model is more than 95% confident that at least the predicted number of blocks will go unfilled
	Model is more than 90% confident that at least the predicted number of blocks will go unfilled

Morning unused block predictions

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Aug 08	Aug 09	Aug 10	Aug 11	Aug 12	
	0	0	0	0	1	
	Aug 15	Aug 16	Aug 17	Aug 18	Aug 19	
	1	0	0	0	1	
	Aug 22	Aug 23	Aug 24			
	0	0	0			

Data pulled 8/3/2022

Further Optimization

allocation analytics: out of block usage

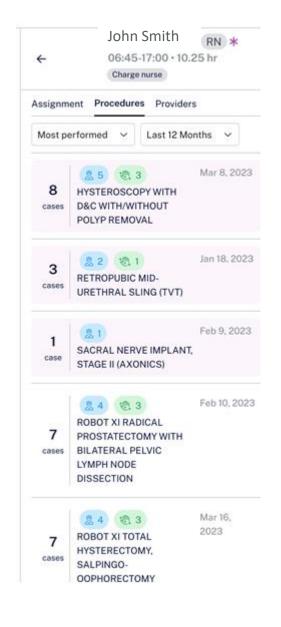
goal data driven decision

Total Out-of-Block Usage

121.9 blocks per month

Surgeon	Out-of-Block Usage (Blocks Per Month) ↓=	Proportion of time out-of-block
General Surgeon 1	6.8	60%
OTO Surgeon 1	4.8	63%
Neuro Surgeon 1	4.5	48%
General Surgeon 2	4.2	54%
General Surgeon 3	4.1	23%
Neuro Surgeon 2	3.8	25%
Ortho Surgeon 1	3.7	49%
Ortho Surgeon 2	3.4	36%

Further Optimization



Assign staff to ORs

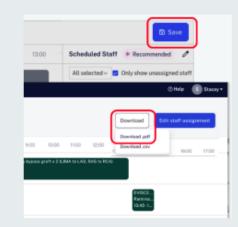
Click Edit Staff Assignment to assign scheduled nurses and techs to ORs. Click on an OR to see which staff are recommended for assignment, based on their experience with the procedures and surgeons for the cases scheduled in that room.



View staff experience

Click a staff member to review more details about their experience with procedures and surgeons for up to 12 months, of which relevant experience is shown first and highlighted.

Hego Lineis (m) Assign Assign	Mage Lioris Anoige D7201-0700					
Presedures Providers	Procedures Previdens					
Lest 12 months 1 m	Last@renths ~					
12 APPLICATION DATEMAL FOR SHITTER	5 Respects, Trip-Bibba					
12 EIFLAMANTONI TOTAL MIDDAINAL HYSTERETONYELATERA, SALPHOL DOM-RECTONYUMPHIDDE	15 Linest Summares, Detline					
SHERICT IDH CHRILINNG	14 macume, two					
II BOPOYLONER EXTREMITY	14 Spread Sector					
9 REACTE CONSISTENT	11 Ayara, Baarla					
B DESULATION ABODILINAL TEMOR	11 White, Harrary					
8 CRAMETONY ACCOUNTS MELHORN	8 Lenglist, Clament					
8 NEPHRETONPUTHIENACAAL THRONOCTONP	7 Sprace, Draw					

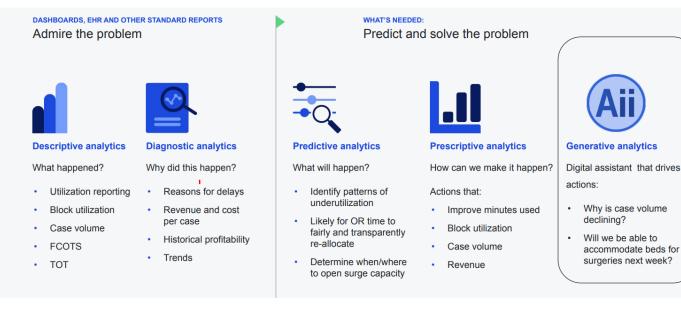


Save and share

After completing assignments, save and share with managers and staff. Current assignments are also visible at any time within iQueue.

Further Optimization

artificial intelligence





Hi, I'm iQueue Autopilot[™]. Let's chat.

Ask a question in the field below, or select one of the examples to get the conversation st

How is my FCOTS by service line for last guarter?

What are the most common reasons for case cancellation?

What is case length accuracy for different servicelines for q1?



declining?

accommodate beds for

surgeries next week?

KEY TAKE AWAYS

change in metrics

traditional metrics are not the way of the future – they are just not good enough

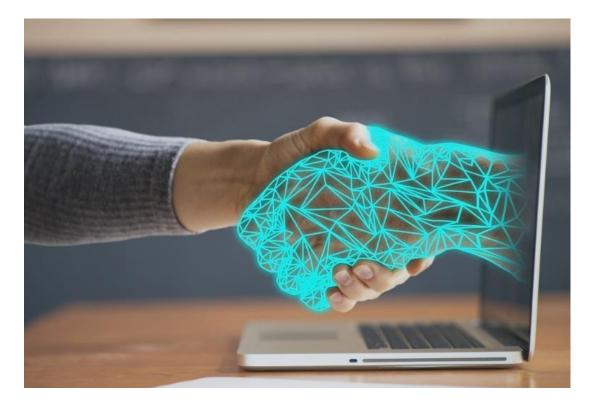
work differently

smarter not harder, force multiplier

- leverage technology to drive outcomes

don't overlook culture

- takes grit, commit







Q&A



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