You will greatly enjoy reading the wonderful ar ticles in this edition of Leading the Way and a big thank you to all of the authors. A special thank you to Stu Wilson and Steve Kappes for the article in tribute to Dr. John Just, who left us at the end of March after a di cult battle with idiopathic pulmonary brosis. As you will appre ciate from the Wilson/Kappes article, John Just

Venous Thromboembolism in High-Risk Pediatric



Venous thromboembolism (VTE) includes the diagnose's hoightleiss factor; patients at low risk of VTE were excluded vein thrombosis (DVT), pulmonary embolism, and embolia)stadkeatients in the study were recommended to receive of and is overall a rare event following pediatric trauma. Whitealtheenixtylaxis with a weight-based dose of low-molecular was and is overall a rare event following pediatric trauma. of VTE in pediatric patients appears much lower than inherphalting in inherphalting inhe the setting of high-risk factors, the rate of VTE in injureid traditional bleeds or other ongoing hemorrhage (Figure 1B). approaches 10%. High-risk factors include severity of injury, prolonged ICU stay, central venous lines, transfusion, traumatic brain injury, and non-weight-bearing fractures. When VTE occurs, it necessitates treatment and puts the patient at risk of recurrence or post-thrombotic syndromeE also contributes to increased healthcare costs and hospitalization-thavever, perceived low rates of VTE in pediatric patients and concern for risk of bleeding from chemical prophylaxis results in many children not receiving prophylaxis following tratinal ditionally, current pediatric prophylaxis guidelines are based on low quality evidence and single institution studies.

The Midwest Pediatric Surgery Consortium (MWPSC) is a collaboration of eleven academic children's hospitals within the Midwest, representing some of the largest and highest volume pediatric sur gical practices within the country, including Children's Wisconsin. The mission of the MWPSC is to advance the eld of pediatric sur gery through multi-institutional clinical studies examining high-impact pediatric surgical diseases. Due to the rarity of many pediatric surgical diseases, this collaboration allows accrual of large study

populations. We harnessed the power of the Consortiul function phoplaxis was not started within 24 hours, the reason(s spectively study the impact of pediatric VTE. recorded. To best capture real-world application of guidelines management, physician discretion to deviate from the protoco

The NO CLOT study aimed to examine existing high-rightowitheria, identify VTE events in a high-risk pediatric population, and demon-

strate safety and e ectiveness of chemical VTE prophyDaxisgWhee 3-year study duration, 460 high-risk pediatric tra conducted a prospective, multi-institutional study at eightaliemetsi-were identi ed and included. Fifty- ve percent of patie can College of Surgeons veri ed level 1 pediatric traumæceiwtedschemical VTE prophylaxis, with 13% receiving propl within the MWPSC between 2019 and 2022. All pediatriwithaura4 hours (Figure 2). The most common reason for de patients were screened on admission and included if 8 years viblidheld prophylaxis was intracranial bleed (30%), followed less with 2 VTE high-risk factors, or older than 8 years worthyaicleastiscretion (26%). No bleeding complications were ti ed in the 251 patients who received prophylaxis. We iden Ceedral Lines – There is signi cant variability in managem 28 VTE events in 25 patients, for a VTE rate of 5.4% in this higheristical line-associated thrombosis between institutions population. Two patients developed pulmonary embolism, an the diaertic providers. Our study found 60% of the DVTs were remainder of the VTE events were DVTs. There was no signal diaert-associated, de ned as a DVT at the site of a cur di erence in the rate of VTE based solely on receipt of prophylaxiis central line. Contrary to common belief that cer but patients who received prophylaxis earlier had signi cantly linear associated thrombosis is largely asymptomatic and rates of VTE.

presented symptomatically and one asymptomatic patient subsequently developed a pulmonary embolism. Placement and duration of certral lines represent a modi able risk factor and an area for quality improvement in preventing pediatric post-traumatic VTE.

In conclusion, we completed the largest, prospetive, multi-institutional study demonstrating the high-risk guidelines allow for safe and appropria administration of chemical VTE prophylaxis follows:

Our results highlight 3 general takeaways that counter common myths in post-traumatic pediatric VTE:

- 1. Safety Concerns about bleeding risk is a commonly cited reason for withholding prophylaxis from pediatric trauma patients. Our study identi ed no complications from prophylactically dosed anticoagulation. This nding emphasizes the importance of early prophylaxis to prevent VTE that necessitates therapeutic anticoagulation, which carries a more signi cant bleeding risk. A limitation of our study was that nearly half of the patients never received prophylaxis as recommended despite their high risk and a signi cant percentage (41%) received prophylaxis more than 24 hours after injury. Future studies may be bene cial to determine if earlier prophylaxis within 24 hours can reduce VTE rates without increasing bleeding complications. Our study's demonstration of safety of prophylaxis in a large cohort provides evidence to diminish barriers and sets a path for further implementation studies.
- 2. Age Historically, the youngest pediatric patients have been omitted from post-traumatic prophylaxis guidelines due to a perceived low VTE risk prior to puberty. However, previous pe diatric critical care literature has reported signi cant rates of DVT in the very young children and infants, owing-to small ves sel size. Our study uniquely included children of all ages and found a substantial VTE rate of 8% in high-risk children 8 years or younger. This demonstrates that in the presence of high-risk factors, younger injured children develop a rate of VTE comparable to older children. As such, post-traumatic pediatric prophylaxis guidelines should address children of all ages.

a detour to the Octopus Car Wash before heading out on their appointed rounds.

One day, Dr. Just got a at tire on his car. When AAA was slow to respond, Basil Salaymeh jumped into action and quickly changed the tire. Dr. Just was in disbelief. Basil's clothes became soiled, and Dr. Just insisted that he pay for dry cleaning himself.

A couple of the philosophies he expounded upon were regarding hard work and family. Several residents commented or ethic. His descriptions of his early years of practice re-emphasized what the residents could see daily. Dr. Just prided himself on being available any day, any night whether it was an emergency thoracot omy or a chest tube that needed to be placed. It was also noted that he was very proud of his children and their accomplishments. As John Densmore describes it, "I knew that they were emulating his work ethic. There was pride and love, which impressed me beyond the material gains. A gentleman to the end, driven to honor family and patients alike." Basil Salaymeh acknowledged that Dr. Just tried speaking to his ve children every day. As Basil put it, "What a great lesson on parenting."

His caring style extended to the residents as well. Bobby Wu was on service towards the later years of the rotation. After residency, at the age of thirty-eight, Dr. Wu required a cardiac catheterization. Dr. Just came to visit him in the hospital, which left a lasting impres sion on Bobby. Years later, Bobby arranged a dinner for "Double J" and several former residents attended. This speaks to the on-going admiration the residents have for this man. In 2008, Todd Neideen would be the last resident to have this wonderful experience. Todd described the sense of getting e t (oucls [(wha)1.1her it w)9 (a)1 s alikg e tredescr

tg e tworo tic(a (oall in t)-13.9 [(a)1 (t c)-9.9 (awi(o t)-14 (o t)-14 (jou (or)-15.ne be)10 (y)41nd)]TJ T)-82 Tw 0 -2.2 TD6

The annual incidence of venous thromboembolic (VTE) disease, which consists of deep venous thrombosis (DVT) and pulmonary embolism (PE), is estimated to be ~100 per 190,000 per son-year's.

subjected to the polytrauma model and 48 hours later subject to IVC ligation and sacri ced 48 hours later (Fig. 2A-B). We for that brinogen concentration was signi cantly lower in the mitterested with siFibrinogen following combined polytrauma at thrombosis (Fig. 2C). Finally, we determined that for each do siFibrinogen, there was a signi cant reduction in thrombus bur as assessed by clot weight. There was no di erence in survive episodes of bleeding in mice treated with siFibrinogen (data shown). These indings suggest that siFibrinogen can elective duce the risk of post-traumatic DVT in mouse models.

As mentioned, the conversion of soluble circulating brinoger brin results in the formation of a matrix that serves as a platf for thrombus formation and is critical in the coagulation path for hemostasis. Therefore, there is a theoretical risk of blee with siFibrinogen. We have advanced our siFibrinogen techniand have begun studies in pigs. We havFhv6 3iptionm7.9 (er r9

Second Primary Breast Cancer

The molecular mechanisms driving SPBC onset remain unde ied. Germline mutations, such as Li-Fraumeni syndrome or g

Breast cancer survival has dramatically improved over the last cancer survival has been dramatically improved over the last cancer survival has been dramatically improved over the last cancer survival has been dramatically in the last cancer survival has been dramatically improved over the last cancer survival has been dramatically in the last cancer survival has been dramatically as the last cancer survival has been dramatically as the last cancer sur decades, with a stunning 40% overall reduction in breastmane) patients are also at increased risk. dsishParty, cer-related deaths since 1990. This is largely due to increased somatic mutations in response to cytotoxic therapies mammography screening and increased awareness, resultinguite to second primary cancer as demonstrated by hi earlier stage diagnosis, and improvements in treatment cancer in children treated with radiation or chemotherap ways breast cancer remains the quintessential example of browness contexts, it is important to consider that acquis

aggressive screening and targeted therapy can make long-term survival attainable for patients.

However, as patient-out comes improve, second primary breast cancers (SPBCs) are emerging as a major hurdle in maintaining long-term disease-free survival. SPBCs are de ned as a distinct new tumor that emerges in the breast of breast cancer survivors. Between 1994 and 2010, the rate of SPBC among patients with

of mutations alone is insu cient to drive tumorigenesis 5. This is strongly supported by observations in patients and mouse models demonstrating that only a few cells will give rise to cancers even in germline carriers.

Injury, Resolution, and the **Emergence of Unstable Cells**

A growing body of evidence suggests that tumor-initiat ing mutations cause cancer only if they occur in a cell of a certain epigenetic state or microenvironmental context

a prior history of breast cancer increased by more than style than is the prior history of breast cancer increased by more than is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by more than it is the prior history of breast cancer increased by the prior history of breast cancer increase trend coincides with longer survival times for patients withtler texts to emonstrated that the state of mammary epithelial cancer; at 20 years after an initial diagnosis, survivors haviora 1200/2/mor-initiation can signi cantly impact the risk of turn cumulative incidence of SPRECeover, survival is signi capelinesis and tumor phenotype. Introduction of the same tumor worse following a second primary tumor as compared to asingrimmatation into the same epithelial cell type led to signi ca ry tumor, and to date there are no known biomarkers that extentify mor progression when the tumor-initiating cell population and to date there are no known biomarkers that extentify mor progression when the tumor-initiating cell population and to date there are no known biomarkers that extentify mor progression when the tumor-initiating cell population and the tumor-initiation and tumor-initiat patients who may be at higher risk of a SPBC. tion was isolated from age-matched pre- or post-menop atl -10 Our collaborator, Dr. Ian Macara, recently published ndings demonstrating that the DNA-damaging agent cisplatin-causes nor mal mammary basal cells to transdi erentiate (switch cell fates) to mammary luminal & Isignificant for the Lytle lab demonstrated that mammary luminal progenitor cells that arise from fate-switched basal cells do not fully resolve into a homeostatic luminal progenitor state (data unpublished). Rather, fate-switched luminal progenitors retain a hybrid epigenetic state with "footprints" of the basal cell epigenome. As cell-state instability and fate-switching have been shown to be an early step in tumor initiation, we hypothesize that unstable, highly plastic cells resulting from therapy-induced cell fate switching may contribute to SPBC initiation.

Future Studies to Test Cell-Fate Switching in SPBC initiation

The Lytle lab, in collaboration with Dr. Tina Yen, was selected as a recipient for the Medical College of Wisconsin Cancer Center – American Cancer Society Institutional Research Grant (ACS-IRG) to determine if therapies commonly used to treat breast cancer are responsible for basal cell–fate-switching to unstable luminal cells,

Muslim physicians make up over 4.5% of the physician workforce in the United StateMuslim trainees, especially those who wear the hijab (head scarf), continue to face discrimination in medicine. In 2016, MCW professor Aasim Padela MD conduct ed research on Muslim American physicians and religious dis crimination; he found that 19% of Muslim physicians reported "sometimes" experiencing discrimination in the workplace while 5% reported "often or always" during their. darissessudy was replicated in 2021 and the results showed an increase in the percentages regarding discrimination with 41% of Muslim physicians reported "sometimes" experiencing religious discrimination while 12% reported "often or always."

Medical trainees who wear the hijab are often in limbo when nav igating the operating room due to strict policies implemented by hospitals. Much of the concern regarding the permissibility of wearing hijab in the OR has been around sterility. While there is limited data regarding whether wearing outside hijabs increases risk of contamination, two studies conducted in the United King dom concluded that there is no evidence of a di erence in ecacy of decontamination of uniforms/clothing between industrial and domestic laundry processes, or that the home laundering of uniforms provides inadequate decontainfinatiother study conducted in the United Kingdom looked at the Department of Health's ,"bare below the elbows guidelines" where they compared the density of bacterial colonies between doctors who wore nothing below elbow versus those who did not (ex. long sleeves) before and after hand washing and concluded that there was no

di erence in density or type of baseline bacterial ora on hands oper (er)3 (. (yi c)-6 (on.88 Tw T* [)-7.9 (e bspide hi)

<u>FH IPAC Surgical Attire Policy</u> #766

"For religious preferences, those needing to perform hand antisepsis may wear a low-linting (e.g., polyeste fabric, athletic material) long sleeve shirt under their sattire. Refer to FH IPAC Hand Hygiene Policy for surg

"All head hair, including sideburns and neckline hair, must be covered by a clean, procedural area dedicated, lint-free head covering or surgical hood while in the Restricted and Semi-Re stricted Area. Personal head covers (e.g., – hijab, yarmulke, head scarf) may be worn if it meets the requirements listed above and must be changed daily."

FH IPAC Hand Hygiene Policy #771

"For religious preferences, persons may wear a low-linting (i.e. polyester based fabric, athletic material) long-slee re shirt under their surgical attire as long as the sleeves are raised to the level of the elbow to allow for proper Surgical Hand Antisepsis."

"Persons not wanting to perform the rst scrub of the day in a public area may do this scrub in a gender-speci c locker room."

For further details, you can indithe updated policies on the <u>Froedtert intranet page</u>

Acknowledgments: We would like to thank Lisa Buttweiler and Lisa Spencer for their help and dedication to this project.

See page 13 for references

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surgical

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e htggmbosis: Incide[(t)-14 sTc0T (g)4ke.lne[(7 -4.6<mark>4.10</mark> emi-Re mulke, durable LVAD, they had worse 1-year and 5-year survival rates and were more likely to require post-HT dialysis compared to isolat ed HT in the same patent population MCS-induced sys

temic in ammation and machine-induced stress, along increase in organ ischemic time with the new allocation streader geographic sharing, may have contributed to w CHKT outcomes.

On September 28, 2023, UNOS implemented new crit CHKT to achieve the best use of scarce donor organs and improve equity in transplant opportunities for multiand single organ candidates the new policy, CHKT is one to candidates who meet specific criteria of sustained action new injury and chronic kidney dysfunction (Table 1).-Mortantly, there is a safety net policy which of erspriority in allocation for patients who become dialysis-dependent an eGFR < 20 mL/min/1.73 m2 at any point between 6365 days after isolated HT. Experience with safety net pliver-kidney transplantation since 2017 has demonstrate use of donor organs with a 16% decrease in the need bined liver-kidney transplants. This policy also allows for of living kidney donation with superior outcomes and an in the overall kidney donost.

The new policy will be reviewed periodically to report waitlist registrations, heart-kidney transplant volumes, kidney after heart transplant volumes, and associated outcomes including mortality. This will allow close monitoring of the metrics and revisions to the policy as needed. It will be interesting to watch possible revisions to the policy as needed. It will be interesting to watch possible revisions to the CHKT eld and speci cally our heart transplantation brings to the CHKT eld and speci cally our heart transplantation brings to the CHKT eld and speci cally our heart transplantation brings to the CHKT eld and speci cally our heart transplantation brings to the CHKT. With de ned set of criteria for dual organ listing and the availability of a safety net, we should be able to broaden our program experience and take calculated risks knowing that there is an exit strategy for these complex patients.

For additional information on this topic, <u>visit mcv</u> <u>surgery</u> or contact Dr. Ali atakali@mcw.edu.

See page 19 for references

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Putting the patient and family voice rst



Katv Flvnn-O'Brien, MD, MPH

Emmanuel AH

On average, 2,300 assault-injured children and youth are treated in an Emergency Department in Southeastern Wisconsin every year.

In fact, rearm injury is now the leading cause of death in children, surpassing motor vehicle collisions and citaeveise, the mag nitude of rearm injuries in children and youth treated at CW has increased exponentially (Figure 1). The impact of these injuries ex tends well beyond the hospital encounter.

Optimizing the care we provide

Firearm-injured children have both physical and mental healthcare needs after injury. They are at increased risk of post-traumatic stress and recurrent injamy, are almost twice as likely to have a subsequent violence-related attlestever there has been little e ort to address the long-term post trauma quality of life (TQOL) outcomes of chronic pain, depression, post-traumatic stress dis order (PTSD), and functional disability in this population. Despite notable and often multidisciplinary healthcare needs after injury, including injury-speci c follow up and mental health services, the

CW care model after injury has traditionally been fragmentedly, Tibes unknown how many children in the community are surgical subspecialties work in silos, and clinics require analyzings red but do not get seen at CW and would potentially and their families to travel to various sites, which are oftentfarcinora trauma-informed pediatric-focused care model. We home. There is an estimated 50% missed appointment ribitesia is because in mind, we partnered with Froedtert TQOL ex CW General Surgery clinic alone following rearm and/or airodehaire been using a mixed-method approach to better un jury (internal data), highlighting the need for an alternative tandehto barriers to receipt of medical care after pediatric vio better serve this vulnerable population. Furthermore, littlerigulary cannot to explore the role for a multidisciplinary clinic focus about who needs and obtains mental health care services following mplex needs of these children. violent injury.

In the summer of 2023, with the support of the 2023 CTSI I

Award, we recruited and started meeting with a Co munity Advisory Board (Figure 2). This group include patients and their families, in addition to communit leaders who work with vulnerable youth in Milwauk County. We met once a month and discussed gaps the current care model, and the ideal infrastructure for Pediatric TQOL Clinic (Figure 3). This included how a clinic would integrate into the community, improve communication, and optimize the utilization of comm nity services. We recorded, transcribed, and synth sized the content of these meetings using qualitati methods. Additionally, from a quantitative perspective

we are actively analyzing a combination of trauma registry electronic health record data to explore unmet need for serv as de ned by "No Show" visits and late cancellations. These

is unique, with short- and long-term impacts on physical, m

Mary F. Otterson, MD, MS Professor Division of Colorectal Surgery

As of July 1, 2024, the Division of Colorectal Surgery, the Depart ment of Surgery, the Medical College of Wisconsin, and the Depart ment of Veteran's A airs Hospital in Milwaukee, will have changed. Dr. Mary Otterson, MD, Professor of Surgery, is retiring. Forty-four years at the Medical College is a long time. Let me detail what those years looked like, followed by some thoughts on what those years have meant.

Dr. Otterson came to MCW to start medical school in 1980. Before that, she spent a year at Marquette University, and then she went to New York city to train in ballet. She came back to Milwaukee and did her undergraduate work in Clinical Dietetics and Chemistry at Mount Mary College. After graduating medical school, she started her General Surgery Residency here at MCW, under former Chair man, Robert E. Condon. A year of her residency was spent in the then ourishing GI motility lab working with Dr. Condon, Gordon Telford, Sushil Sarna, and Vern Cowles. In that year in the lab, she earned a Master of Science in Physiology. She had an obvious talent for research and science. Six months of her training was spent as a General Surgery Registrar in Oxford, England, and she completed her training as Administrative Chief Resident in 1990. Dr.

When patients are grateful for the extraordinary care we proteintle, we are inviting faculty and state to be our partners they often want to express their gratitude by giving back. identifying which of your patients demonstrate an extra dinary level of gratitude. Across our institution, 89 clinicisms

Giving doesn't just create happiness – it also leads to better be altourrently serving as Clinician Champions or allies for Positive feelings, like those generated when engaged in or read hours Philanthropy program. These clinicians help in a philanthropic event, have far-reaching bene ts, including a stronger immune system and a cardiovascular system that is less reactive to stress (Konrath, 2013).

Additionally, people who have su ered signi cant losses are par ticularly motivated to help others not only despite their di cult experiences, but precisely because of them. A key task in e ective healing is to restore their shattered assumptions of the world (Jano-Bulman, 1992). Giving is a way people can not meaning and value following a heartbreaking loss.

One year ago, the O ce of Institutional Advancement at MCW and the Froedtert Hospital Foundation launched a new grateful patient program, called "Healthcare Philanthropy." Through this exciting initiative, we unlock the healing power of philanthropy that allows our patients to give back to causes near and dear to their hearts and families. This program leads with gratitude and inspires patients to be a part of something bigger than themselves and create a legacy of impact – all while raising essential funds for the Depart ment of Surgery and other areas across our institutions.

It's important to note three key elements of Healthcare Philanthropy:

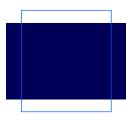
- Hælthcare Philanthropy is not about a nancial transaction, but a natural extension of the clinical experience you and your team are providing to patients. Our philanthropy team is look ing to build meaningful relationships with patients who express their gratitude at an extraordinary level.
- 2. We understand that you may have concerns about the complexities of sharing patient information. We want to assure you that our philanthropy team takes this responsibility very seriously. The Healthcare Philanthropy program has been thor oughly reviewed and approved by our privacy o ce and legal team and is completely HIPAA compliant. If you have speci c concerns, we encourage you to contact Liz Montgomery, who serves as the Department of Surgery's philanthropic liaison.
- 3. We are not asking you to request gifts from your patients. In-

References from page 14, Putting the patient and family voice rst

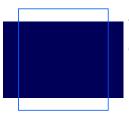
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Leading The Way

Division of Trauma and Acute Care Surgery



Allyson Hynes, MD joined the Department of Surgery faculty as Assistant Professor of Surgery in September received her medical degree from the University of Nebraska Medical Center before completing her Emer residency from St. Vincent Mercy Medical Center. She then completed a two-year Trauma and Surgical Critical at the University of Pennsylvania, where during her second year she served as the Chief Administrative Surg Fellow. Dr. Hynes then served as an Assistant Professor at the University of New Mexico for three years before to the Midwest. Dr. Hynes is nishing her Master of Science in Clinical Epidemiology through the University Perelman School of Medicine.



Allegra Saving, MD joined the Department of Surgery faculty as Assistant Professor of Surgery in September 2 received her medical degree from Wayne State University. See foe frgrto tctate Univav (ne)-naniaycomma S es-12.9 (a)1 (sk)-3 (ao.113er mediS)-1 [(DW (y in is(g)0.5 sin,2 (y)hhen serpndeSur)-9 (a43.9 (he D)2-25 (y (o Bariatric & Minimally Invasive Gastrointestinal Surgery Amir Ghaferi, MD, MSc, MBA Matthew Goldblatt, MD Jon Gould, MD, MBA Rana Higgins, MD Andrew Kastenmeier, MD Tammy Kindel, MD, PhD Kathleen Lak, MD Philip Redlich, MD, PhD Wen Hui Tan, MD

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Ahmed Ali, MD
G. Hossein Almassi, MD
Lucian Durham III, MD, PhD
Tracy Geo rion, MD, MPH
Viktor Hraska, MD, PhD
Takushi Kohmoto, MD, PhD, MBA
James Mace, Jr., MD
Jorge Mascaro Carvajal, MD
Michael Mitchell, MD*
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H. Adam Ubert, MD

Colorectal Surgery

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