COVID redefines curriculum for hospitalists-in-training

Pandemic brings ‘clarity and urgency’

By Larry Beresford

The coronavirus pandemic has impacted all facets of the education and training of this country’s future hospitalists, including their medical school coursework, elective rotations, clerkships, and residency training – although with variations between settings and localities.

The COVID-19 crisis demanded immediate changes in traditional approaches to medical education. Training programs responded quickly to institute those changes. As hospitals geared up for potential surges in COVID cases starting in mid-March, many onsite training activities for medical students were shut down in order to reserve personal protective equipment for essential personnel and not put learners at risk of catching the virus. A variety of events related to their education were canceled. Didactic presentations and meetings were converted to virtual gatherings on internet platforms such...
Medicare fines half of hospitals for readmitting too many patients

By Jordan Rau
Kaiser Health News

early half the nation’s hospitals, many of which are still wrestling with the financial fallout of the unexpected coronavirus, will get lower payments for all Medicare patients because of their history of readmitting patients, federal records show.

The penalties are the ninth annual round of the Hospital Readmissions Reduction Program created as part of the Affordable Care Act’s broader effort to improve quality and lower costs. The latest penalties are calculated using each hospital case history between July 2016 and June 2019, so the flood of coronavirus patients that have swamped hospitals this year were not included.

The Centers for Medicare & Medicaid Services announced in September it may suspend the penalty program in the future if the chaos surrounding the pandemic, including the spring’s moratorium on elective surgeries, makes it too difficult to assess hospital performance.

For this year, the penalties remain in effect. Retrospective to the federal fiscal year that began Oct. 1, Medicare will lower a year’s worth of payments to 2,545 hospitals, the most since fiscal year 2021, said Akin Demehin, director of policy at the American Hospital Association. “Given the financial strain that hospitals are under, every dollar counts, and the impact of any penalty is significant.”

The penalties are based on readmissions of Medicare patients who initially came to the hospital with diagnoses of congestive heart failure, heart attack, pneumonia, chronic obstructive pulmonary disease, hip or knee replacement, or coronary artery bypass graft surgery.

Medicare counts as a readmission any of those patients who ended up back in any hospital within 30 days of discharge, except for planned returns like a second phase of surgery. A hospital will be penalized if its readmission rate is higher than expected given the national trends in any one of those categories.

The industry has disapproved of the program since its inception, complaining that the measures are not precise and it unfairly punishes hospitals that treat low-income patients.

Michael Miller, a health quality consultant who focuses on patient safety, said the penalties are a useful but imperfect mechanism to push hospitals to improve their care. The designers of the penalty system envisioned it as a way to neutralize the economic benefit hospitals get from readmitted patients under Medicare’s fee-for-service payment model, as they are otherwise paid for two stays instead of just one.

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Hospitalists are natural leaders in the COVID-19 battle

By Larry Beresford

Christopher Pribula, MD, a hospitalist at Sanford Broadway Medical Center in Fargo, N.D., didn’t anticipate becoming his hospital’s resident expert on COVID-19. Having just returned from vacation in March, he agreed to cover for a colleague on what would become the special care unit. “When our hospital medicine group decided that it would be the COVID unit, I just ran with it,” he said. Dr. Pribula spent the next 18 days doing 8- to 14-hour shifts and learning as much as he could as the hospital – and the nation – wrestled with the pandemic.

“Because I was the first hospitalist, along with our infectious disease specialist, Dr. Avish Nagpal, to really engage with the virus, people came to me with their questions,” Dr. Pribula said. Working to establish protocols for the care of COVID-19 patients involved a lot of planning, from nursing protocols to discharge planning. Dr. Pribula was part of the hospital’s incident command structure, thought about how the system could scale up for a potential surge, and worked with the North Dakota Medical Association to reach out to outlying medical centers on safety and infection control. He even drew on his prior work experience as a medical technologist doing negative-pressure containment in a cell-processing facility to help create the hospital’s negative-pressure unit in an old ICU.

“We did a lot of communication from the start. To a certain extent we were making it up as we went along, but we sat down and huddled as a team every day at 9 and 4,” he explained. “We started out with observation and retrospective research, and learned piece by piece. But that’s how science works.”

Hospitalists across the country have played leading roles in their hospitals’ and health systems’ response to the pandemic, and not just because they are on the front lines providing patient care. Their job as doctors who work full-time in the hospital makes them natural leaders in improving clinical quality and hospital administrative protocols as well as studying the latest information and educating their colleagues. Responding to the pandemic has required lots of planning, careful attention to schedules and assignments and staff stress, and working with other departments in the hospital and groups in the community, including public health authorities.

Current hospital treatment for COVID-19

As knowledge has grown, Dr. Pribula said, COVID-19 treatment in the hospital has come to incorporate remdesivir, a broad-spectrum antiviral; dexamethasone, a common steroid medication; and convalescent plasma, blood products from people who have recovered from the illness. “We went from no steroids to giving steroids. We went from putting patients on ventilators to avoid acute respiratory distress syndrome [ARDS] initially to now working to avoid intubation at all costs,” he said.

“What we found is that we need to pressure-support these patients. We do proning and CPAP [continuous positive airway pressure] while we let the lungs heal. By the time they arrive at the hospital, more often than not they’re on the backside of the viral load. But now we’re dealing with the body’s inflammatory response.”

Navneet Attri, MD, a hospitalist at Sutter Santa Rosa (Calif.) Regional Hospital, 50 miles north of San Francisco, experienced fears and uncertainties working at a hospital that treated early COVID patients from the Grand Princess cruise ship. Early on, she wrote a post describing her experience for The Hospitalist Leader, the Society of Hospital Medicine’s blog page.

The importance of teamwork

Sunil Shah, MD, a hospitalist with Northwell Health’s Southside Hospital in Bay Shore, N.Y., is part of the massive hospital medicine team, including reassigned specialists and volunteers from across the country, deployed at Northwell hospitals in Greater New York City and Long Island during the COVID-19 surge. Northwell probably has cared for more COVID-19 patients than any other health system in the country, and at the height of the surge the intensity of hospital care was like nothing he’s ever seen. But he also expressed gratitude that doctors from other parts of the country were willing to come and help out.

Southside Hospital went almost overnight from a 200-bed acute facility to a full, 350-bed, regional COVID-19–only hospital. “On busy days, our entire hospital was like a floating ICU,” he said. “You’d hear ‘rapid response’ or ‘code blue’ over the intercom every few seconds. Normally we’d have a designated rapid response person for the day, but with COVID, everybody stepped in to help – whoever was closest,” he said.

Majid Sheikh, MD, a hospitalist at Emory University Hospital in Atlanta, also became a go-to COVID-19 expert for his group. “I didn’t specifically volunteer, but my partner and I had the first cases, and the

Continued on following page

Dr. Pribula

Dr. Attri

Dr. Shah

Dr. Sheikh
Hospitalist Medicare payments are at risk for large cuts in 2021

Now is the time to act

By Ron Greeno, MD, FCCP, MHM

From the beginning, SHM has consciously and consistently taken a unique approach to its advocacy efforts with the federal government. The advocacy priorities of SHM most often concern issues that we feel have an impact on our patients and the broader delivery system, as opposed to a focus on issues that have direct financial benefit to our members.

This strategy has served SHM well. It has earned respect among policymakers and we have seen significant success for a young and relatively small medical society. The issues where we spend the bulk of our time and effort include advocating for issues like alternative payment models (APMs), which reward care quality as opposed to volume, as well as issues related to data integrity that APMs require. We have advocated strongly for changes to dysfunctional observation status rules, for workforce adequacy and sustainability, and for recognition of the importance of hospital medicine’s contribution to the redesign of our nations delivery system. And SHM will continue to advocate for many other issues identified as being important to hospital medicine and our patients.

This year, for the first time in the two decades that I have served on the SHM Public Policy Committee, Medicare has proposed changes that would create unprecedented financial hardship for hospital medicine groups. Each year, as a part of its advocacy agenda, SHM reviews and comments on proposed changes to the Medicare Physician Fee Schedule (PFS). Among other things, the PFS adjusts payment rates to physicians for specific services. Changes under the PFS are required to be budget neutral. In effect, budget neutrality means that whenever certain services receive an increased payment rate, CMS is required to offset these changes by making cuts to other services. This year, in an effort to correct the long-standing underfunding of primary care services, CMS has increased payment for many Evaluation and Management (E&M) codes associated with outpatient primary care services. However, because of budget-neutrality requirements, many inpatient E&M codes will be receiving significant cuts.

The goal of increasing payment rates for primary care services is laudable, as many of these cognitive services have been long underfunded. However, the proposed payment increases will apply only to outpatient E&M codes and not their corresponding inpatient codes. While our outpatient Internal Medicine and Family Practice colleagues will benefit from these changes, inpatient providers, including hospitalists, stand to lose a significant amount revenue. SHM and the hospitalists we represent estimate that the proposed budget-neutrality adjustment will lead to an approximate 8% decrease in Medicare Fee for Services (FFS) revenue. Hospitalists are among the specialties that will be most impacted from these proposed changes. If put into effect, these proposals will leave hospital medicine behind.

These changes have been proposed at a time when hospitalists, along with their colleagues in critical care and emergency medicine, have been caring for patients on the frontlines of the COVID-19 pandemic at great risk to themselves and their families. While hospitalists are working tirelessly to provide lifesaving care to COVID-positive patients throughout the country, hospitalist groups have struggled financially as a result of the pandemic. Inpatient volumes, and therefore care reimbursement, has dropped significantly. Many hospitalists have already reported pay reductions of 20% or more. Others have seen their shifts reduced, resulting in understaffing, which may compromise the quality of care. For many groups, a Medicare reimbursement cut of this magnitude will not be financially sustainable.

SHM is, of course, fighting back. We are not asking CMS to completely abandon the increases in reimbursement for primary care outpatient codes, and we support properly valuing outpatient care services. However, we are asking CMS to find a solution that does not come at the expense of hospital medicine and the other specialties that care for acutely ill hospitalized patients, including patients with COVID-19.

If a better solution requires holding off on the proposal for another year, CMS should do so. Furthermore, SHM is asking Congress to abandon the statutory requirement for budget neutrality in these extraordinary times as CMS and Congress work to find a solution that properly values both inpatient and outpatient care services.

To send a message to your representatives urging them to stop these payment cuts, please visit SHM’s Legislative Action Center at www.votewaco.net/SHM/campaigns/77226/respond. You can read our full comments on the Medicare Physician Fee Schedule Proposed Rule at www.hospitalmedicine.org/policy-advocacy/letters/2021-physician-fee-schedule-proposed-rule/.

Dr. Greeno is senior advisor for government affairs and past president of the Society of Hospital Medicine.

A human fix in the hospital

Dr. Pribula agreed that the pandemic has been both a difficult experience and a rewarding one. “I think of the people I first admitted. If they had shown up even a month later, would they still be with us?” He believes that his group and his field are going to get to a place where they have solid treatment plans for how to provide optimal care and to protect providers from exposure.

One of the first COVID-19 patients in Fargo had dementia and was very distressed. “She had no idea why nobody was visiting or why we wouldn’t let her out of her room,” Dr. Pribula said. “Instead of reaching for sedatives, one of our nurses went into the room and talked with her, prayed a rosary, and played two hands of cards with her and didn’t have to sedate her. That’s what people need when they’re alone and scared. It wasn’t a medical fix but a human fix.”

A version of this article originally appeared on Medscape.com.
COVID curriculum

Continued from page 1

“Because pediatrics is so family centered, talking to patients and families at the bedside is highly valued. So we had virtual sessions talking about how to do that, with videos to illustrate it put out by Cincinnati Children’s Hospital.”

Dr. Marc Miller

a hospitalist and associate director of medical student education in the division of hospital medicine at Cincinnati Children’s Hospital Medical Center. “The Liaison Committee of Medical Education, jointly sponsored by the Association of American Medical Colleges and the American Medical Association, will not let you graduate a medical student without actual hands-on encounters with patients,” she explained.

For future doctors, especially those pursuing internal medicine – many of whom will practice as hospitalists – their training can’t duplicate “in the hospital” experiences except in the hospital, said Dr. Guiot, who is involved in pediatric training for medical students and residents from the University of Cincinnati.

For third- and fourth-year medical students, getting that personal contact with patients has been the hardest part, she added. But from March to May 2020, that experience was completely shut down at CCHMC, as at many medical schools, because of precautions aimed at preventing exposure to the novel coronavirus for both students and patients. That meant hospitals had to get creative, reshuffling schedules and the order of learning experiences; converting everything possible to virtual encounters on platforms such as Zoom; and reducing the length of rotations, the total number of in-person encounters, and the number of learners participating in an activity.

“We needed to use shift work for medical students, which hadn’t been done before,” Dr. Guiot said. Having students on different shifts, including nights, created more opportunities to fit clinical experiences into the schedule. The use of standardized patients – actors following a script who are examined by a student as part of learning how to do a physical exam – was also put on hold.

“Now we’re starting to get it back, but maybe not as often,” she said. “The actor wears a mask. The student wears a mask and shield. But it’s been harder for us to find actors – who tend to be older adults who may fear coming to the medical center – to perform their role, teaching medical students the art of examining a patient.”

A return to basics

The COVID-19 pandemic forced medical schools to get back to basics, figuring out the key competencies students needed to learn, said Alison Whelan, MD, AAMC’s chief medical education officer. Both medical schools and residency programs needed to respond quickly and in new ways, including with course content that would teach students about the virus and its management and treatment.

Schools have faced crises before, responding in real time to SARS (severe acute respiratory syndrome), Ebola, HIV, and natural disasters. Dr. Whelan said. “But there was a nimbleness and rapidity of adapting to COVID – with a lot of sharing of curriculums among medical colleges.”

Back in late March, AAMC put out guidelines that recommended removing students from direct patient contact – not just for the student’s protection but for the community’s. A subsequent guidance, released Aug. 14, emphasized the need for medical schools to continue medical education – with appropriate attention to safety and local conditions while working closely with clinical partners.

Dr. Guiot, with her colleague Leslie Farrell, MD, and four very creative medical students, developed an online fourth-year elective course for University of Cincinnati medical students, offered asynchronously. It aimed to transmit a comprehensive understanding of COVID-19 and its virology, transmission, clinical prevention, diagnosis, and treatment, as well as to examine national and international responses to the pandemic and their consequences and related issues of race, ethnicity, socioeconomic status, and health disparities. “We used several articles from the Journal of Hospital Medicine for students to read and discuss,” Dr. Guiot said.

Christopher Sankey, MD, SFHM, associate program director of the traditional internal medicine residency program and associate professor of medicine at Yale University. New Haven, Conn., oversees the inpatient education experience for internal medicine residents at Yale. “As with most programs, there was a lot of trepidation as we made the transition from in-person to virtual education,” he said.

The two principal, non–ward-based educational opportunities for the Yale residents are morning report, which involves a case-based discussion of various medical issues, usually led by a chief resident, and noon conference, which is more didactic and content based. Both made the transition to virtual meetings for residents.

“We wondered, could these still be well-attended, well-liked, and successful learning experiences if offered virtually? What I found when I surveyed our residents was that the virtual conferences were not only well received, but actually preferred,” Dr. Sankey said. “We have a large campus with lots of internal medicine services, so it’s hard to assemble everyone for meetings. There were also situations in which there were so many residents that they couldn’t all fit into the same room. Zoom, the virtual platform of choice, has actually increased attendance.

Marc Miller, MD, a pediatric hospitalist at the Cleveland Clinic, helped his team develop a virtual curriculum in pediatrics presented to third-year medical students during the month of May, when medical students were being taken off the wards. “Some third-year students still needed to get their pediatric clerkships done. We had to balance clinical exposure with a lot of other things,” he explained.

The curriculum included a focus on interprofessional aspects of interdisciplinary, family-centered bedside rounds; a COVID literature review; and a lot of case-based scenarios. “Most challenging was how to remake family rounds. We tried to incorporate students into table rounds, but that didn’t feel as valuable,” Dr. Miller said. “Because pedi-
The COVID-19 pandemic forced medical schools to get back to basics, figuring out the key competencies students needed to learn. "There was a nimbleness and rapidity of adapting to COVID — with a lot of sharing of curriculums among medical colleges."

Another important trend cast in sharper relief by the pandemic is a gradual evolution toward competency-based education and how to assess when someone is ready to be a doctor, Dr. Whelan said. "There’s been an accelerated consideration of how to be sure each student is competent to practice medicine."7

Many practicing physicians and students were redeployed in the crisis, she said. Pediatric physicians were asked to take care of adult patients, and internists were drafted to work in the ICU. Hospitals quickly developed refresher courses and competency-based assessments to facilitate these redeployments. What can be learned from such on-the-fly assessments? What was needed to make a pediatrician, under the supervision of an internist, able to take good care of adult patients?

And does competency-based assessment point toward some kind of time-variable graduate medical education of the future — with graduation when the competencies are achieved, rather than just tethered to time- and case volume–based requirements? It seems Canada is moving in this direction, and COVID might catalyze a similar transformation in the United States.8

Change in the curriculum
Does the content of the curriculum for preparing future hospitalists need to change significantly? "My honest answer is yes and no," Dr. Sankey said. "One thing we found in our training program is that it’s possible to become consumed by this pandemic. We need to educate residents about it, but future doctors still need to learn a lot of other things. Heart failure has not gone away."

"It’s okay to stick to the general curriculum, but with a wider variety of learning opportunities. Adding content sessions on population health, social determinants of health, race and bias, and equity is a start, but it’s by no means sufficient to give these topics the importance they deserve. We need to interpolate these subjects into sessions we’re already doing," he said. "It is not enough to do a couple of lectures on diversity. We need to weave these concepts into the education we provide for residents every day."

I think the pandemic has posed an opportunity to critically consider what’s the ideal teaching and learning environment. How can we make it better? Societal events around race have demonstrated essential areas for curricular development, and the pandemic had us primed and already thinking about how we educate future doctors — both in terms of medium and content," he said.

Some medical schools started their new academic year in July; others put it off until September. Patient care at CCHMC is nearly back to where it used to be before COVID-19 began, Dr. Guiot said in a September interview, "but in masks and goggles."

As a result, hospitals are having to get creative all over again to accommodate medical students. "I am amazed at the camaraderie of hospitals and medical schools, trying to support our learners in the midst of the pandemic," she said. "I learned that we can be more adaptive than I ever imagined. We were all nervous about the risks, but we learned how to support each other and still provide excellent care in the midst of the pandemic. We’re forever changed. We also learned how to present didactics on Zoom, but that was the easy part."

References

Transformational change
In a recent JAMA Viewpoint column, Catherine R. Lucey, MD, and S. Claiborne Johnston, MD, PhD, called the impact of COVID-19 “transformational,” in line with changes in medical curriculums recommended by the 2010 Global Independent Commission on Education of Health Professionals for the 21st Century.2 which asserted that the purpose of professional education is to improve the health of communities.

The authors stated that COVID-19 brought clarity and urgency to this purpose, and will someday be viewed as a catalyst for the needed transformation of medical education as medical schools embarked on curriculum redesign to embrace new competencies for current health challenges.

They suggested that medical students not only continued to learn during the COVID crisis “but in many circumstances, accelerated their attainment of the types of competencies that 21st century physicians must master.” Emerging competencies identified by Dr. Lucey and Dr. Johnston include:

- Being able to address population and public health issues
- Designing and continuously improving the health care system
- Incorporating data and technology in service to patient care, research, and education
- Eliminating health care disparities and discrimination in medicine
- Adapting the curriculum to current issues in real time
- Engaging in crisis communication and active change leadership

How is the curriculum changing?
After the disruptions of the spring and summer, schools are now trying to figure which of the changes should stay," said Dr. Whelan. “The virus has also highlighted other crises, with social determinants of health and racial disparities becoming more front and center. In terms of content, medical educators are rethinking a lot of things – in a good way.”

Another question: How do we teach interdisciplinary rounds and how to work with other members of the team without having face-to-face interactions?” Dr. Arora said. “Our old interdisciplinary rounding model had to change. It forced us to rethink how to create that kind of learning. We can’t have as many people in the patient’s room at one time. Can there be a physically distanced ‘touch-base’ with the nurse outside the patient’s room after a doctor has gone in to meet the patient?”

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13 best practices to improve hospitalist billing

Favor solutions that benefit patients

By Angela Mirabella, BA; Ilene Rosenberg, MD; Corey Kiassat, PhD, MBA

A s an aspiring physician, I like learning about how things work. Since medical students learn very little about the "business" of medicine in school, this led me to pioneer a project on missed billing by hospitalists at a medium-sized hospital in the northeastern United States. Although hospitalists do a tremendous amount of work, they do not always bill for what they are doing. The question became: Why are hospitalists missing charges and what can we do to stop it?

Shortly into my study, I recognized there was little daily communication between the administrators and the hospitalists; neither the hospitalists nor administrators understood the different dynamics that the others faced in their own workplace. It became apparent that administrators needed to learn what was important to hospitalists and to address them at their level in order to bring about change.

Some trending themes emerged as I started shadowing the hospitalists. Many of them asked how this project would benefit them. They argued that administrative needs should be dealt with at the administrative level. A major point was made that current incentives, such as the bonuses given for exceeding a certain number of RVUs, were not the motivating force behind their work ethics. From my observations, the motivating factors were the quality of their patient care, the needs of their patients, and teaching. The hospitalists also were eager to teach and continually instructed me on clinical skills and how to be a better medical student.

Bonuses or notoriety didn't seem to be the main incentives for them. However, efficiency – especially in rounding – was important, and that became the focal point of the project. I found several studies that showed that improvements in aspects of rounding led to increased quality of patient care, decreased burnout, increased patient satisfaction, and decreased workload and discussed some of those findings with the hospitalists.²⁻⁶ When the hospitalists felt that their concerns were being heard, they became even more involved in the project, and the administrators and hospitalists started working together as a team.

One hospitalist spent 2 hours helping me design the platform that would be used for hospitalists to report barriers in their rounding process that may cause them to miss a charge. Once we identified those barriers, we discussed the possibility of standardizing their workflow based off these data. Many hospitalists argued that each physician has unique skills and practices that make them successful; therefore, the disruption of an already established workflow may cause a decrease in efficiency. The hospitalists and I talked a lot about the importance of them rounding more efficiently and how that could positively affect the time that they have with their patients and themselves. We discussed that, because of the additional work missed billing causes, minimizing this burden can possibly help decrease burnout. As a result, seven hospitalists, the administrative staff, and I met and created 13 best practices, 6 of which they were able to get approved to use immediately. To note, hospitalists bill differently; many hospitals use forms still, or have integration or a software company, fill out paper forms or have integration within their EMR. Although these solutions were made for a program which has the ability to bill within the EMR, many of the principles will apply to your program too.

The 13 best practices that the seven hospitalists agreed upon are the following:

1. Set up so that, when a doctor signs a note, it opens a charge option or there is a hard stop.
2. Have charge delinquencies sent via email to the hospitalist.
3. Standardize that hospitalists charge directly after writing a note consistently as part of their workflow.*
4. Prioritize discharges before rounding.*
5. Standardize the use of the “my prof charges” column, a feature of this hospital’s EMR system that tells them if they had made a charge to a patient or not, in order to remind them to/confirm billing a patient.*
6. Create reports by the EMR system to provide charge data for individual providers.
7. Create a report for bill vs. note to help providers self-audit. At this hospital, this feature was offered to the administrators as a way to audit their providers and doctors.
8. Ensure that, when a patient is seen by a physician hospitalist as well as an NP/PA hospitalist, the appropriate charge for the physician is entered.
9. Send notifications to the physician hospitalist if a charge gets deleted by another person (e.g., NP/PA hospitalist).
10. Send handoff of daily rounding sheets, or a paper copy of the patients assigned to a hospitalist for his/her shift, at the end of the shift to the project specialist.*
11. Keep the rounding sheets a complete and accurate account of the patients seen by the hospitalist.*
12. Complete and check all billing at the end of hospitalist’s shift at the latest.*
13. Participate on Provider Efficiency Training to optimize workflow, by creating more efficient note-writing behavior using Dragon.

*Indicates the practices the hospitalists were able to implement immediately. Practices 1, 2, 6, 7, and 9 request EMR changes. Practice 8 was already an established practice the hospitalists wished to continue. Practice 13 was suggested by the Lean Director for the continuation of a previous project.

Six of the best practices were easier to implement right away because they were at the discretion of the hospitalists. We found that the hospitalists who had the highest billing performances were more likely to start writing notes and charge earlier while rounding. Those who had poorer billing performances were more likely to leave all note writing and billing toward the end of their shift. The few exceptions (hospitalists who left all note writing and charging to the end of their shift yet had high billing performances) were found to have a consistent and standardized workflow. This was unlike the hospitalists who had the lowest billing performances. Having practices that help remind hospitalists to bill will surely help prevent...
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missed billing, but because of the findings from this project, it was important to have consistent and standardized practices to additionally improve missed billing.

When we followed up with the hospitalist division 2 months later, we learned they were making great progress. Not only were hospitalists using their best practices, but in working with the administrators, they were designing sessions to further educate fellow hospitalists to prevent further missed billing. These sessions outlined shortcuts, resources, and ways hospitalists may modify their personal EMR accounts to prevent missed billing. None of the progress could have been made without first understanding and addressing what is truly important to the hospitalists.

In summary, we noted these general observations in this project:
• Hospitalists favor solutions that benefit them or their patients.
• Hospitalists want to be part of the solution process.
• Hospitalists were more likely to accept ideas to improve their rounding if it meant they could keep their routine.

Obstacles exist in our health care system that prevent administrators and hospitalists from working together as a team. The more we are able to communicate and collaborate to fix problems in the health system, the more we can use the system to our mutual advantage. With the ongoing changes in medicine, especially during uncertain times, better communication needs to be a major priority to affect positive change.

References
How much longer?

SHM has changed direction as needed during the pandemic

By Eric Howell, MD, MHM

“\ How much longer?\” As a kid, I can remember the long holiday car ride with my parents from my home in Annapolis, Md., to Upstate New York where my grandparents lived. At the time, the ride felt like an eternity: endless miles of frozen landscape, limited food, and a brother who constantly crossed over the invisible line that was my side of the car.

We made our parents crazy asking, “how much longer?” every few minutes. This was the late 1970s, with no GPS or Google Maps to give you arrival times to the minute, traffic warnings, or reroutes when the inevitable delays occurred. We just plowed ahead, and my parents’ answer was always something vague like, ‘in a few hours’ or ‘we’re about halfway through.’ They did not know when we’d arrive with certainty either.

We at SHM have that same feeling about the pandemic. How much longer? No one can tell us when the COVID-19 threat will abate. The experts’ answers are understandably vague, and the tools for forecasting are nonexistent. Months? That is the best we know for now.

At SHM, we believe we will make it through this journey by adapting to roadblocks, providing tools for success to our professional community, and identifying opportunities for us to connect with each other, even if that means virtually.

Like the rest of the planet, the spring of 2020 hit SHM with a shock. Hospital Medicine 2020 (HM20) in San Diego was shaping up to be the largest Annual Conference SHM ever had, the Pediatric Hospital Medicine 2020 (PHM20) conference was well planned and expected to be a huge success, regional SHM chapters were meeting (and growing), and membership was thriving. I was transitioning out of my roles at Johns Hopkins and looking forward to my new role as CEO of SHM. All in all, March 2020 began with a fantastic outlook.

Wow, what a difference a few weeks made. We watched as the pandemic spread across regions of the country, concerned for the well-being of our patients and our hospitalists. We saw how our members were at the forefront of patient care during this crisis and understood that SHM had to adapt rapidly to meet their needs in real time.

By May, SHM had canceled HM20. Chapter activity was halted, PHM20 was on its way to being canceled, SHM committee work was put on hold, and I was spending my last few months at Hopkins as the chief medical officer at the Baltimore Convention Center Field Hospital (which we got up and running in less than a month) Whew.

But just like my dad could pivot our 1970s Chevy station wagon around a traffic jam in a flash, so too did SHM leadership start navigating around the COVID-19 landscape. As soon as HM20 was canceled, SHM immediately began planning for a virtual offering in August. We had hoped to attract at least 100 attendees and we were thrilled to have more than 1,000! PHM20 was switched from an in-person to a virtual meeting with 634 attendees. We launched numerous COVID-19 webinars and made our clinical and educational offerings open access. Our Public Policy Committee was active around both COVID-19 and hospitalist-related topics – immigration, telehealth, well-being, and financial impacts, to name a few.

(And I even met with the President of the United States and advocated for personal protective equipment.) The Journal of Hospital Medicine worked with authors to get important publications out at record speed. And of course, The Hospitalist connected all of us to our professional leaders and experts.

By the fall of 2020, SHM had actively adjusted to the “new normal” of this pandemic: SHM staff have settled into their new “work from home” environments, SHM Chapters are connecting members in the virtual world, SHM’s 2021 Annual Conference will be all virtual – rebranded as “SHM Converge” – and the State of Hospital Medicine Report (our every-other-year source for trends in hospital medicine) now has a COVID-19 supplement, which was developed at lightning speed.

Even our SHM Board of Directors is meeting virtually! All this while advancing the routine work at SHM, which never faltered. Our work on resources for quality improvement; the opioid epidemic; well-being, diversity, equity, and inclusion (DEI); leadership; professional development; advocacy; and so much more is as active as ever.

I don’t know how much longer we have on this very long pandemic journey, so I’ll use my father’s answer of “we’re about halfway through.” We have been immersed in it for months already; with months still ahead. But regardless of the upcoming twists and turns COVID-19 forces you, our patients, and our larger society to take, SHM is ready to change direction faster than a 1970s Chevy.

The SHM staff, leadership, and members will be sure that hospitalists receive the tools to navigate these unprecedented times. Our patients need our skills to get through this as safely as possible. While we may not be able to tell them “how much longer,” we can certainly be prepared for the long road ahead as we begin 2021.
The top pediatric articles of 2019

By Christopher J. Russo, MD; Nathan M. Money, MD; Maura A. Steed, MD

The expansion of the field of pediatric hospital medicine in the past 30 years has resulted in improved health care outcomes for hospitalized children and has been accompanied by a robust increase in the amount of scholarly work related to the field. We performed a review of the literature published in 2019 to identify the 10 articles that had the most impact on pediatric hospital medicine, and presented the findings at HM20 Virtual, the 2020 annual conference of the Society of Hospital Medicine. Five of the selected articles are highlighted here.

**STUDY 1**

**Background**
Current pediatric asthma guidelines suggest adding a long-acting beta-agonist (LABA) to inhaled corticosteroid (ICS) therapy, rather than increasing the ICS dose, for children with poorly controlled asthma. However, these data are based on trials with disproportionately few Black subjects. This study aimed to determine the best step-up therapy for Black patients whose asthma was poorly controlled on ICS monotherapy.

**Study overview and results**
The authors reported two parallel double-blind, randomized, controlled trials, one in children and one in adolescents and adults. The study of children included 280 subjects ranging in age from 5 to 11, with at least one Black grandparent, and with poorly controlled asthma on low-dose ICS therapy. It used a four-way crossover design in which each subject was treated with four different 14-week treatment regimens: either double (medium-dose) or quintuple (high-dose) their baseline ICS dose, with or without the addition of a LABA. A superior response was defined by the composite outcome of at least one fewer asthma exacerbation, more asthma-control days, or a 5 percentage point difference in predicted forced expiratory volume in 1 second (FEV1), Forty-six percent of children had improved asthma outcomes when the ICS dose was increased rather than with the addition of a LABA. In contrast, Black adolescents and Black adults had superior responses to the addition of a LABA. There was no significant interaction between the percentage of African ancestry as determined by DNA genotyping and the primary composite outcome. High-dose ICS was associated with a decrease in the ratio of urinary cortisol to creatinine in children younger than 8 years.

**Limitations**
Approximately 25% of children dropped out of the study, with disproportionately more children dropping out while on a high-dose ICS regimen. Additionally, the difference in the composite outcome was primarily driven by differences in FEV1, with few subjects demonstrating a difference in asthma exacerbations or asthma-control days. Although a decrease in urinary cortisol to creatinine ratio was noted in children under 8 on high-dose ICS, the study period was not long enough to determine the clinical implications of this finding.

**Important findings and implications**
While studies with a majority of White children have suggested a superior response from adding a LABA compared to increasing the dose of an ICS, almost half of Black children showed a superior response when the dose of an ICS was increased rather than adding a LABA. It is important to note that current guidelines are based on studies with a disproportionate majority of White subjects and may not accurately reflect optimal care for patients in other racial groups. This study underscores the need to include a diverse patient population in research studies.

**STUDY 2**

**Background**
Hyperbilirubinemia (jaundice) is estimated to affect 50%-60% of all newborns. Rebound hyperbilirubinemia – a rise in bilirubin after cessation of phototherapy – is common and can lead to recently discharged infants being readmitted for additional therapy. Lack of clear guidelines regarding when to discharge infants with hyperbilirubinemia has likely contributed to practice variation and some trepidation regarding whether a bilirubin level is “low enough” to discontinue therapy.

**Study overview and results**
The authors had previously proposed a three-factor hyperbilirubinemia risk model and sought to simplify their rule further. They examined a retrospective cohort of 7,048 infants greater than or equal to 35 weeks’ gestation using a random split sample. The authors derived a two-factor model using the same methods and compared its performance to the three-factor model. The two-factor formula was shown to be a good fit as a logistic regression model ( Hosmer-Lemeshow test 9.21; \( P = .33 \)), and the AUROC (area under the receiver operating characteristic) curves for the derivation and validation cohorts were similar between the two-factor (0.877 and 0.876, respectively) and three-factor (0.887 and 0.881, respectively) risk models.

**Limitations**
These data are limited to infants receiving their first treatment of phototherapy and have not been externally validated. An important variable, serum bilirubin at phototherapy termination, was estimated in most subjects, which may have affected the accuracy of the prediction rule. Whether infants received home phototherapy was based only on equipment orders, and some infants may have received phototherapy unbeknownst to investigators. Last, infants with rebound hyperbilirubinemia at less than 72 hours after phototherapy discontinuation may have been missed.

**Important findings and implications**
This prediction model provides evidence-based, concrete data that can be used in making joint decisions with families regarding discharge timing of infants with hyperbilirubinemia. It also could be beneficial when deciding appropriate follow-up time after discharge.

Continued on following page
Background

Febrile infants aged 60 days and younger are at risk for serious bacterial infections (SBI) including urinary tract infections (UTI), bacteremia, and meningitis. As a physical exam is a poor discriminator of SBI in this age group, providers frequently rely on laboratory values and risk factors to guide management. Infants presenting with documented fevers by caregivers but found to have no fever in the emergency department are a challenge, and there are limited data regarding SBI frequency in this population.

Study overview and results

The authors performed a secondary analysis of a prospectively gathered cohort of infants aged 60 days and younger within the Pediatric Emergency Care Applied Research Network (PECARN) who had blood, urine, and cerebrospinal fluid (CSF) data available. Notable exclusions included infants who were premature; had a focal infection; were clinically ill; had recent antibiotic use; did not have urine, urine, and CSF data available; or were lost to telephone follow-up at 7 days to ensure wellness. The study cohort included 6,014 infants, 1,233 (22%) who were febrile by history alone. Rates of overall SBI were lower in the afebrile group (8.8% vs. 12.8%). For infants 0-28 days, rates of UTI were lower for the afebrile group (9.5% vs. 16.5%), but there was no difference in the rates of bacteremia or meningitis. For infants 29-60 days, rates of UTI (6.6% vs. 9.3%) and bacteremia (5.5% vs. 17.5%) were lower in the afebrile group.

Limitations

Neither the use of home antipyretics nor the method of temperature taking at home were studied. Also, as this was a secondary analysis, it is possible that not all infants who presented with history of fever only were captured, as work-up was dictated by individual treating providers who may have chosen not to work up certain afebrile infants.

Important findings and implications

Nearly one-third of infants presenting for fever evaluation are afebrile on arrival. Although overall rates of SBI were lower in the group with fever by history only, this difference is largely accounted for by differing rates of UTI. Rates of bacteremia and meningitis remained substantial between groups, particularly for infants aged 0-28 days. Because of the significant morbidity associated with these infections, it is reasonable to suggest that absence of fever on presentation alone should not alter clinical or laboratory work-up, particularly in infants 0-28 days.

STUDY 4


Background

Learner handover (LH) or “forward feeding” occurs when information about trainees is shared between faculty supervisors. Although this can be helpful to tailor educational experiences and build upon previous assessments, it risks stigmatizing trainees and adding bias to future feedback and assessments as the trainee never really has a “clean slate.” In this study, the authors sought to uncover the key concepts of how prior performance information (PPI) influences assessments and any implications for medical education.

Study overview and results

The authors performed a cross-disciplinary scoping review looking at over 17,000 articles published between 1980 and 2017 across the domains of psychology, sports, business, and education. Seven themes were identified with the following notable findings. Raters exposed to positive PPI scored a learner’s performance higher and vice versa. There was a dose-response relationship with more positive and more negative PPI resulting in higher and lower assessments, respectively. General standards, such as a direction to complete all work in a timely manner, caused an assimilation effect, while specific standards, such as a direction to complete a certain task by a certain day, did not. More motivated and more experienced raters are less affected by PPI, and those who believe that people can change (incremental theorists) are less affected by PPI while those who believe personal attributes are fixed (entity theorists) are more affected.

Limitations

The heterogeneity of the studies and the fact that they were largely conducted in experimental settings may limit generalizability to medical education. Slightly less than half of the studies included a control arm. Last, most of the studies looked at the ratings of only one target performance, not multiple performances over time.

Important findings and implications

Ratings of current performance displace toward PPI direction, with negative PPI more influential than positive PPI. In a formative setting, PPI may help the assessor focus on areas of possible weakness. In contrast, for a summative assessment, PPI may be prejudicial and have an impact on the rating given to the student. Clinicians should be mindful of the information they share with future raters about learners and the potential bias on future assessments that can manifest as a result.

References

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Bias against hiring hospitalists trained in family medicine still persists

Outdated perceptions of family medicine

By Jeff Craven
MDedge News

A family medicine–trained doctor, fresh out of residency, visits a career website to scout out prospective hospitalist jobs in their region. As they scroll through the job listings, they come across one opportunity at a nearby hospital system that seems like a good fit. The listing offers a competitive salary and comprehensive benefits for the position, and mentions hospitalists in the department will have the opportunity to teach medical students.

The only problem? The position is for internal medicine–trained doctors only. After searching through several more listings with the same internal medicine requirement, the family medicine doctor realizes the pool of jobs doctors seem much smaller.

When Robert M. Wachter, MD, MHM, and Lee Goldman, MD, coined the term “hospitalist” in a 1996 New England Journal of Medicine article, hospitalists were primarily clinicians with an internal medicine background, filling the gap created by family medicine doctors who increasingly devoted their time to patients in their practice and spent less time rounding in the hospital.

As family medicine doctors have returned to hospital medicine, it has become difficult to find positions as hospitalists because of a preference by some recruiters and employers that favors internal medicine physicians over those who are trained in family medicine. The preference for internal medicine physicians is sometimes overt, such as a requirement on a job application. But the preference can also surface after a physician has already applied for a position, and they will then discover a recruiter is actually looking for someone with a background in internal medicine. In other cases, family medicine physicians find out after applying that applicants with a background in family medicine are considered, but they’re expected to have additional training or certification not listed on the job application.

The situation can even be as stark as a hospital system hiring an internal medicine doctor just out of residency over a family medicine doctor with years of experience as a board-certified physician. Hiring practices in large systems across multiple states sometimes don’t just favor internal medicine, they are entirely focused on internal medicine hospitalists, said experts who spoke with The Hospitalist.

Understanding outdated perceptions

Victoria McCurry, MD, current chair of the Society of Hospital Medicine’s family medicine Special Interest Group (SIG) Executive Committee and Faculty Director of Inpatient Services at UPMMC McKeepston (Pa.)

Family Medicine Residency, said hearsay inside the family medicine community influenced her first job search looking for hospitalist positions as a family medicine physician.

“I was intentional about choosing places that I assumed would be open to family medicine,” she said. “I avoided the downtown urban academic hospitals, the ones that had a large internal medicine residency and fellowship presence, because I assumed that they would not hire me.

“There’s a recognition that, depending on the system that you’re in and their history with family medicine–trained hospitalists, it can be difficult as a family physician to seek employment,” Dr. McCurry said.

“When I graduated from my residency in 2014, I did not have the same opportunities to be a hospitalist as an internal medicine resident would have,” said Shyam Odeti, MD, a family practice–trained hospitalist who works at Ballad Health in Johnson City, Tenn. “The perception is family medicine physicians are not trained for hospitalist practice. It’s an old perception.”

This perception may have to do with the mindset of the leadership where a doctor has had residency training, according to Usman Chaudhry, MD, a family medicine hospitalist with Texas Health Physicians Group and leader of the National Advocacy subcommittee for the Family Medicine Executive Council in SHM. Residents trained in bigger university hospital systems where internal medicine (IM) residents do mostly inpatient – in addition to outpatient services – and family medicine (FM) residents do mostly outpatient – including pediatrics and ob/gyn clinics in addition to inpatient services – may believe that to be the case in other systems too, Dr. Chaudhry explained.

“When you go to community hospital residency programs, it’s totally different,” he said. “It all depends. If you have only family medicine residency in a community hospital, they tend to do all training of inpatient clinical medicine, as IM training would in any other program”

Dr. McCurry noted that there seems to be a persistent, mental assumption that, as a family medicine doctor, you’re going to be practicing outpatient only or maybe urgent care, which is historically just not the case. “If that’s ingrained within the local hospital system, then it will be difficult for that system to hire a family medicine-trained hospitalist,” she said.

Another source of outdated perceptions of family medicine come from hospital and institutional bylaws that have written internal medicine training in as a requirement for hospitalists. “In many bigger systems, and even in the smaller hospital community and regional hospitals, the bylaws of the hospitals were written approximately 20 years ago,” Dr. Chaudhry said.

“Unless someone has advocated for updating a hospital or institution’s bylaws, they may have outdated requirements for hospitalists. ‘The situation right now is, in a lot of urban hospitals, they would be able to give a hospitalist position to internal medicine residents who just graduated, not even board certified, but they cannot give it to a hospitalist trained in family medicine who has worked for 10 years and is board certified, just because of the bylaws,” said Dr. Odeti who is also co-chair for the SHM National Advocacy subcommittee of hospitalists trained in family medicine. “There is no good rhyme or reason to it. It is just there and they haven’t changed it.”

Dr. Chaudhry added that no one provides an adequate reason for the bias during the hiring process. “If you ask the recruiter, they would say ‘the employer asked me [to do it this way].’ If you ask the employers, they say ‘the hospital’s bylaws say that.’ And then, we request changes to the hospital bylaws because you don’t have access to them. So the burden of responsibility falls on the shoulders of hospitalists in leadership positions to request equal privileges from the hospital boards for FM-trained hospitalists.

Closing the gaps

Over the years, the American Board of Family Medicine and SHM have offered several opportunities for family medicine doctors to demonstrate their experience and training in hospital medicine. In 2010, ABFM began offering the Focused Recognition of Hospital Medicine board examination, together with the American Board of Internal Medicine. SHM also offers hospitalist fellowships and a designation of Fellow in Hospital Medicine (FHM) for health care professionals. In 2015, ABFM and SHM released a joint statement encouraging the growth of hospitalists trained in family medicine (HTFM) and outlining these opportunities.

These measures help fill a gap in both IM and FM training, but also appear to have some effect in convincing recruiters and employers to consider family medicine doctors for hospitalist positions. An abstract published at Hospital Medicine 2014 reviewed 252 hospitalist positions listed in journals and search engines attempted to document the disparities in job listings, the perceptions of physician recruiters, and how factors like experience, training
and certification impacted a family medicine physician’s likelihood to be considered for a position. HTFMs were explicitly mentioned as being eligible in 119 of 252 positions (47%). The investigators then sent surveys out to physician recruiters of the remaining 133 positions asking whether HTFMs were being considered for the position. The results of the survey showed 66% of the recruiters were open to HTFMs, while 34% of recruiters said they did not have a willingness to hire HTFMs.

That willingness to hire changed based on the level of experience, training, and certification. More than one-fourth (29%) of physician recruiters said institutional bylaws prevented hiring of HTFMs. If respondents earned a Recognition of Focused Practice in Hospital Medicine (RFPHM) board examination, 78% of physician recruiters would reconsider hiring the candidate. If the HTFM applicant had prior experience in hospital medicine, 87% of physician recruiters said they would consider the candidate. HTFMs who earned a Designation of Fellow in Hospital Medicine (FHM) from SHM would be reconsidered by 93% of physician recruiters who initially refused the HTFM candidate. All physician recruiters said they would reconsider if the candidate had a fellowship in hospital medicine.

However, to date, there is no official American College of Graduate Medical Education–recognized hospitalist board certification or designated specialty credentialing. This can lead to situations where family medicine–trained physicians are applying for jobs without the necessary requirements for the position, because those requirements may not be immediately obvious when first applying to a position. “There’s often no specification until you apply and then are informed that you don’t qualify – ‘Oh, no, you haven’t completed a fellowship’, or the added qualification in hospital medicine,” Dr. McCurry said.

The 2015 joint statement from AAFP and SHM asserts that “more than two-thirds of HTFMs are also involved in the training of residents and medical students, enhancing the skills of our future physicians.” But when HTFMs do find positions, they may be limited in other ways, such as being prohibited from serving on the faculty of internal medicine residency programs and teaching internal medicine residents. When Dr. Odeti was medical director for Johnston Memorial Hospital in Abingdon, Va., he said he encountered this issue.

“If you are a hospitalist who is internal medicine trained, then you can teach FM or IM, whereas if you’re family medicine trained, you cannot teach internal medicine residents,” he said. “What happened with me. I had to prioritize recruiting internal medicine residents over FM residents to be able to staff IM teaching faculty.”

A rule change has been lobbied by SHM, under the direction of SHM family medicine SIG former chair David Goldstein, MD, to address this issue that would allow HTFMs with a FPHM designation to teach IM residents. The change was quietly made by the ACGME Review Committee for Internal Medicine in 2017. Dr. McCurry said, but implementation of the change has been slow.

“Essentially, the change was made in 2017 to allow for family medicine–trained physicians who have the FPHM designation to teach IM residents, but this knowledge has not been widely dispersed or policies updated to clearly reflect this change,” Dr. McCurry said. “It is a significant change, however, because prior to that, there were explicit policies preventing a family medicine hospitalist from teaching internal medicine residents even if they were experienced.”

Using FM as an advantage
Requirements aside, it is “arguably not the case” that family medicine physicians need these extra certifications and fellowships to serve as hospitalists, Dr. McCurry said. It is difficult to quantify IM and FM hospitalist quality outcomes because of challenges with attribution, Dr. Odeti noted. One 2007 study published in the New England Journal of Medicine looked at patient quality and cost of care across the hospitalist model, and family medicine practitioners providing inpatient care. The investigators found similar outcomes in the internist model and with family practitioners providing inpatient care. Dr. Odeti said this research supports “the fact that family medicine physicians are equally competent as internists in providing inpatient care.”

Dr. Odeti argued that family medicine training is valuable for work as a hospitalist. “Hospital medicine is a team sport. You have a quarterback, you have a wide receiver, you have a running back. Everybody has a role to play and everybody has their own strength,” he said.

Family medicine hospitalists are uniquely positioned to handle the shift within hospital medicine from volume to value-based care. “That does not depend solely on what we do within the hospital. It depends a lot on what we do for the patients as they get out of the hospital into the community,” he explained.

Family medicine hospitalists are also well prepared to handle the continuum of care for patients in the hospital. "In their training, FM hospitalists have their own patient panels and they have complete ownership of their patient in their training, so they are prepared because they know how to set up things for outpatients,” Dr. Odeti explained.

“Every hospitalist group needs to use the family medicine doctors to their advantage,” he said. “A family medicine–trained hospitalist should be part of every good hospitalist group, is what I would say.”

Growing HTFMs within SHM
HTFMs are “all over,” being represented in smaller hospitals, larger hospitals, and university hospitals in every state. “But to reach those positions, they probably have to go over more hurdles and have fewer opportunities,” Dr. Chaudhry said.

There isn’t a completely accurate count of family medicine hospitalists in the United States. Out of an estimated 50,000 U.S. hospitalists, about 16,000 hospitalists are members of SHM. A number of family medicine hospitalists may also take AAFP membership instead of SHM, Dr. Odeti explained. However, there are a growing number of hospitalists within SHM with a family medicine background.

In the 2007-2008 Society of Hospital Medicine Annual Survey, 3.7% of U.S. hospitalists claimed family medicine as being prohibited from serving on hospitalist panels and they have complete ownership of their patients in their training. More than one-fourth (29%) of physician recruiters said institutional bylaws prevented hiring of HTFMs. If respondents earned a Recognition of Focused Practice in Hospital Medicine (RFPHM) board examination, 78% of physician recruiters would reconsider hiring the candidate. If the HTFM applicant had prior experience in hospital medicine, 87% of physician recruiters said they would consider the candidate. HTFMs who earned a Designation of Fellow in Hospital Medicine (FHM) from SHM would be reconsidered by 93% of physician recruiters who initially refused the HTFM candidate. All physician recruiters said they would reconsider if the candidate had a fellowship in hospital medicine.

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Obesity biggest risk for COVID-19 pneumonia, after age, male sex

By Marlene Busko

In a large international study of patients admitted to the ICU with COVID-19, the likelihood of having severe pneumonia (i.e., needing invasive mechanical ventilation) increased stepwise with increasing body mass index – independent of diabetes, hypertension, dyslipidemia, or current smoking.

The main finding was a linear correlation between BMI and need for invasive mechanical ventilation, after adjustment for center, age, sex, and other prespecified metabolic risk factors.

Risk was “highest for older people and males, but the next most important risk factor to developing severe pneumonia if infected [was] obesity,” said François Pattou, MD,

Centre Hospitalier Universitaire de Lille (France), who presented the findings at the ObesityWeek 2020 virtual meeting. The results were also recently published in a preprint article in The Lancet (2020. doi: 10.2139/issn.3667634).

Dr. Pattou and colleagues first reported back in April that obesity is one of the biggest risk factors for severe COVID-19 infection, especially in younger patients. Many further reports linked the two, and the French researchers then set out to conduct the current large, international, multicenter cohort study.

“The number of patients included here [allowed us] to disentangle the role of various metabolic cofactors and to show that obesity, not diabetes or hypertension, was the main determinant of severe pneumonia [after age and gender],” Dr. Pattou said in an interview.

And the impact of obesity was most pronounced in women younger than 50 years.

Patients with severe obesity must protect themselves

Of interest, the study also found an ‘obesity paradox’ for mortality after admission to the ICU.

Specifically, compared with leaner patients (BMI < 25 kg/m²), those with severe obesity (obesity class III, BMI ≥ 40) had an increased risk of dying within 28 days of admission to ICU. But patients with overweight to moderate obesity (BMI 25-39.9) had a lower risk of this outcome.

“The second original finding of our study,” Dr. Pattou continued, was the “nonlinear relation observed between BMI and all-cause mortality rate in ICU patients.”

Continued from previous page

Recognition HTFM equally

The SHM family medicine SIG has been working to highlight the issue of hiring practices for HTFMs, and is taking a number of actions to bring greater awareness and recognition to family medicine hospitalists.

The family medicine SIG is looking at steps for requesting a new joint statement from ABFM and SHM focused on hiring practices for family medicine physicians as hospitalists. “I think it’s worth considering now that we’re at a point where we comprise about one-fifth of hospitalists as family medicine doctors.” Dr. McCurry said. “Is it time to take that joint statement to the next step, and seek a review of how we can improve the balance of hiring in terms of favoring more balanced consideration now that there are a lot more family medicine-trained hospitalists than historically?”

“I think the call is really to help us all move to that next step in terms of identifying any of the lingering vestiges of expectation that are really no longer applicable to the hiring practices, or shouldn’t be,” she said.

The next step will be to ask hospitals with internal medicine–only requirements for hospitalists to update their bylaws to include family medicine physicians when considering candidates for hospitalist positions. If SHM does not make a distinction to grant Fellow in Hospital Medicine status between internal medicine– and family medicine–trained hospitalists, “then there should not be any hindrance by the recruiters, by the bigger systems, as well as by the employers” in hiring a family medicine–trained physician for a hospitalist position, Dr. Chaudhry said.

Dr. Odeti, who serves in several leadership roles within Ballad Health, describes the system as being friendly to HTFMs. About one-fourth of the hospitalists in Ballad Health are trained in family medicine. But when Dr. Odeti started his hospitalist practice, he was only one of a handful of HTFMs. He sees a future where the accomplishments and contributions of HTFMs will pave the way for future hospitalists.

“Access into the urban hospitals is key, and I hope that SHM and the HTFM SIG will act as a catalyst for this change,” he said.

Colleagues of family medicine hospitalists, especially those in leadership positions at hospitals, can help by raising awareness, as can “those of our colleagues who sit on medical executive committees with in their hospitals to review their bylaws, to see what the policies are, and encourage more competitiveness,” Dr. McCurry said. “Truly, the best candidate for the position, regardless of background and training, is what you want. You want the best colleagues for your fellow hospitalists. You want the best physician for your patients in the hospital.”

If training and all other things are equal, family medicine physicians should be evaluated on a case-by-case basis, she said. “I think that that puts the burden back on any good medical committee, and a good medical committee member who is an SHM member as well, to say, ‘If we are committed to quality patient care, we want to encourage the recruitment of all physicians that are truly the best physicians to reduce that distinction between FM and IM in order to allow those best candidates to present, whether they are FM or IM.’ That’s all that we are asking.”

Dr. Chaudhry emphasized that the preference for internal medicine–trained physicians isn’t intentional.

“It’s not as if the systems are trying to do it,” he said. “I think it is more like everybody needs to be educated. And through the platform of the Society of Hospital Medicine, I think we can make a difference. It will be a slow change, but we’ll have to keep on working on it.”

Dr. Odeti, Dr. McCurry, and Dr. Chaudhry have no relevant financial disclosures.

Continued on following page

Training. That number increased to 6.9% of physicians who answered the SHM membership data report in 2010.

A Medscape Hospitalist Lifestyle, Happiness & Burnout Report from 2010 estimates 17% of hospitalists are trained in family medicine. In the 2020 State of Hospital Medicine Report, 38.6% of hospital medicine groups containing family medicine–trained physicians were part of a university, medical school, or faculty practice; 79.6% did not have academic status; 83.8% were at a nonteaching hospital; 60.7% were in a group in a nonteaching service at a teaching hospital; and 52.8% were in a group at a combination teaching/nonteaching service at a teaching hospital.

Although the Report did not specify whether family medicine hospitalists were mainly in rural or urban areas, “some of us do practice in underserved area hospitals where you have the smaller ICU model, critical access hospitals, potentially dealing with a whole gamut of inpatient medicine from ER, to the hospital inpatient adult cases, to critical care level,” Dr. McCurry said. “But then, there are a large number of us who practice in primary groups or at large hospitals, academic centers around the country,” she added.

Recognition HTFM equally

The SHM family medicine SIG has...
Matteo Rottoli, MD, PhD, author of a related study, said the new trial “confirms the findings of our study, which are that obesity is an independent risk factor for intensive care admission and death.”

Dr. Rottoli, from Alma Mater Studiorum, University of Bologna (Italy), and colleagues found that in their population of patients with COVID-19, a BMI > 35 was associated with a greater risk of death.

The takeaway message from the research is that “obesity should be considered one of the most important parameters to identify the population at risk,” who should take extra precautions such as social distancing, Dr. Rottoli stressed.

Dr. Pattou agrees, particularly when it comes to severe obesity.

Intensive care physicians have learned a lot in the past months about COVID-19 pneumonia and how to address it (such as not precipitating intubation, using corticosteroids), he explained.

“Importantly, the general population has also learned a lot, and we can hope that patients with obesity, especially those with severe obesity, will take extra measures to protect themselves, resulting in a decrease of the incidence of severe pneumonia in young and severely obese patients,” he added.

BMI distinct from other metabolic risk factors

Dr. Pattou said that, from Dec. 16, 2019, to Nov. 1, 2020, more than 45 million people worldwide tested positive for COVID-19 and more than 1.2 million people died from it.

Multiple studies have reported that, among people with COVID-19, those with obesity are at higher risk of hospitalization, ICU admission, invasive ventilation, and death, but it had not been clear if BMI was an independent risk factor.

Dr. Pattou and colleagues aimed to examine the relationship between BMI and COVID-19 pneumonia severity, defined by the need for mechanical ventilation (primary outcome), as well as 28-day all-cause mortality (secondary outcome) among patients admitted to the ICU.

They also sought to disentangle the effect of BMI from other metabolic risk factors (diabetes, hypertension, dyslipidemia, and current smoking) and examine the influence of age and sex on outcomes.

They performed a retrospective analysis of 1,461 patients with confirmed COVID-19 (positive reverse polymerase chain reaction test using a nasal or pharyngeal swab specimen) who were admitted to the ICU at 21 centers from Feb. 19 to May 11, 2020.

Participating centers were in France (2), Italy (3), the U.S. (1 in New York and 1 in Providence, R.I.), Israel (1), Belgium (1), and Spain (1).

Close to three-quarters of patients were men (73%), which is similar to multiple other studies, Dr. Pattou said. Patients were a mean age of 64 years and had a mean BMI of 28.1.

Half of patients had hypertension (52%), 29% had diabetes, 29% had hyperlipidemia, and 6.5% were current smokers.

Close to three-quarters (74%) required invasive mechanical ventilation, and 36% died within 28 days of ICU admission.

Each 5-kg/m² increase in BMI was associated with a 27% increased risk of mechanical ventilation in the overall cohort and a 65% increased risk of this outcome among women younger than 50 years, after adjustment for other risk factors.

Male sex and each 10-year increase in age were associated with an 82% and a 17% increased risk of ventilation, respectively, but hypertension, diabetes, hyperlipidemia, and current smoking were not associated with a greater risk.

After adjustment for center, age, sex, and prespecified metabolic risk factors, obesity class III (BMI ≥ 40) was associated with a 68% increase in mortality, compared with the risk seen in lean patients.

The findings were similar across different centers.

“To our knowledge, this study represents the first international collaborative effort to explore the association of BMI with the outcomes of pneumonia among COVID-19 patients admitted to ICU,” said the investigators.

They conclude that “available evidence should foster more focused and effective interventions in COVID-19 patients with the highest risk of severe pneumonia, in order to reduce future strain on intensive care resources worldwide, and inform physio-pathological research to elucidate the mechanism of severe lung damage in COVID-19.”

The study did not receive specific funding. The authors have reported no relevant financial relationships.

A version of this article originally appeared on Medscape.com.

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**By Ajay Bhasin, MD**

**1. Troponin elevation at any age is a risk for cardiac mortality**

**CLINICAL QUESTION:** Is an elevated troponin value associated with increased mortality, regardless of age?

**BACKGROUND:** Although troponin is the preferred biomarker to indicate acute myocardial infarction, little is known about the implications of elevated troponin in the absence of plaque rupture.

**STUDY DESIGN:** Retrospective cohort study.

**SETTING:** Tertiary academic hospitals in the United Kingdom.

**SYNOPSIS:** The records of 287,948 hospitalized patients with a measured troponin value were analyzed over 8 years. Overall, a positive troponin conferred three times the mortality risk, with the strongest association in those aged 18-29 (hazard ratio, 10.6), compared with those aged 90 or older (HR, 1.5). It may be that those younger patients, for whom a troponin was ordered, are a fundamentally different, sicker cohort when compared with their peers and in contrast to the older patients for whom a troponin is widely sent. Furthermore, mortality increases with age, and a positive troponin may not impact the mortality rate as much as it does in a younger patient. Mortality was heavily concentrated in the first 3 months after discharge. The authors noted an inverted U-shaped relationship between troponin level and mortality in patients admitted to the hospital and in those with acute coronary syndrome. There was a direct positive correlation between troponin value and mortality until a certain threshold was crossed, at which point mortality decreased abruptly. This mortality drop off may result from a higher troponin leading to an increased likelihood of catheterization, a procedure that improves outcomes. Because of this study’s retrospective nature, one cannot establish a causal relationship between troponin values and mortality. However, it highlights the need to study the mechanism for these outcomes across the age spectrum and to ensure close monitoring of elevated troponin values on an outpatient basis.

**BOTTOM LINE:** Elevated troponin levels are associated with an increased risk of mortality in all age groups and require close outpatient follow-up.

**CITATION:** Kaura A et al. Association of troponin level and age with mortality in 250,000 patients: Cohort study across five UK acute care centres. BMJ. 2019;367;l6055. doi: 10.1136/bmj.l6055.

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**By Sophia Korovaichuk, MD**

**2. Comparing pulmonary embolism mortality risk scores**

**CLINICAL QUESTION:** How well do risk scores estimate mortality outcomes in patients with acute pulmonary embolism (PE)?

**BACKGROUND:** Although most PE risk scores do not have significant complications, 15% may be associated with risk of death or hemodynamic compromise. Retrospectively derived risk scores are used to risk-stratify patients and guide acute treatment strategies. It is unclear how well existing risk scores estimate mortality outcomes in patients with acute PE.

**STUDY DESIGN:** Multicenter cohort study.

**SETTING:** Eight hospitals participating in Pulmonary Embolism Response Team (PERT) consortium registry.

**SYNOPSIS:** The study included 416 patients with radiographically confirmed acute PE, baseline data for risk calculations, and PERT consultation to consider advanced therapies. Four risk scores (PESI, simplified PESI, BOVA, and European Society of Cardiology) were calculated for each patient independently of clinical care. Patients were assigned into lower- and higher-risk groups. All-cause mortality was assessed on days 7 and 30. The discrimination of each risk score was measured using area under the curve (AUC). Seven-day mortality ranged 1.3%-3.1% in the lower-risk group, and 7%-16.3% in the high-risk group. Thirty-day mortality in the low-risk group ranged 2.6%-10.3% and 14.4%-26.3% in the high-risk group. PE risk scores have only moderate discrimination for mortality at 7 days (AUC range, 0.616-0.666) and less discrimination at 30 days (AUC range, 0.550-0.694) with little association among the risk scores. Limitations include failure to capture all presenting PE risk factors and inability to differentiate between all-cause and specific PE-related mortality.

**BOTTOM LINE:** While helpful in predicting shorter-term mortality, acute PE risk scores are not highly accurate at predicting longer-term mortality and should be integrated with broad clinical information when making management decisions.


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**By Sophia Korovaichuk, MD**

**3. Early rhythm control in atrial fibrillation (EAST-AFNET trial)**

**CLINICAL QUESTION:** Is rhythm control superior to rate control in treating early atrial fibrillation (AFib)?

**BACKGROUND:** Despite advances in AFib management, up to 5% of patients will have a major complication each year. Current guidelines favor rate control based on prior studies that did not show mortality benefit with rhythm control. By expanding the rhythm strategy to include catheter ablation in early AFib, this trial re-examines if implementing rhythm control leads to improved clinical outcomes.

**STUDY DESIGN:** Prospective, open blinded randomized controlled trial.

**SETTING:** 135 centers in 11 European countries.

**SYNOPSIS:** Of patients with a new AFib diagnosis (less than 1 year, median 36 days), 2,786 were randomized 1:1 to rhythm control or usual care. Patients were 75 years old or older with prior CVA or 2 or fewer cardiovascular conditions. Both arms were continued on guideline-directed treatment, including rate control medications and antiocoagulation. Rhythm control involved use of antiarrhythmics, catheter ablation (8% at enrollment, 20% by 5 years), or early cardioversion. Patients assigned to rhythm control had a lower risk for primary composite outcome of CV death, stroke, or
hospitalization for worsening heart failure or acute coronary syndrome (HR, 0.79; 96% confidence interval, 0.66-0.94; P = .005) at 5 years, and the trial was stopped early for efficacy. Despite the 21% relative risk reduction, the absolute risk reduction was modest at 1.1 per 100 person-years. There were no significant differences in composite rate of all-cause mortality, although more adverse events occurred in the rhythm arm (4.9% vs. 1%). Overall rates of stroke and death were relatively low in both groups, underscoring the importance of continuing guideline-directed therapy. Hospital days were similar between the two groups, suggesting that rhythm control is not associated with higher cost burden. Limitations include its open-label design, loss of patients to follow-up (9% in control arm), and lack of generalizability to patients with long-standing AFib.

**BOTTOM LINE:** Early initiation of rhythm control therapy was associated with improved outcomes in patients with newly diagnosed AFib compared with usual care alone.


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By Cheryl Lee, MD

4 Timing of endoscopy for acute upper GI bleeding

**CLINICAL QUESTION:** In high-risk patients hospitalized with upper GI bleed, is earlier endoscopy beneficial?

**BACKGROUND:** Prior studies have failed to show a benefit to earlier endoscopic intervention in acute GI bleeding. However, these studies were performed in all-comers without attention to the varying risk within the patient population.

**STUDY DESIGN:** Randomized controlled trial.

**SETTING:** Single center in Hong Kong.

**SYNOPSIS:** Patients at high risk for further bleeding or death by clinical score were randomized to endoscopy within 6 hours (“urgent endoscopy”), vs. the following day (“early endoscopy”), of GI consultation. Those who required immediate endoscopic intervention because of hemodynamic instability were excluded. All were prescribed proton-pump inhibitor drip, with the addition of vasoactive drugs and antibiotics if there was a suspected variceal bleed. There was no difference in 30-day mortality between the two groups – 8.9% with urgent endoscopy and 6.6% with early endoscopy (HR, 1.35; 95% CI, 0.72-2.54). There was no difference in length of hospital stay or the number of transfusions. Earlier endoscopy within 6 hours was associated with a higher number of actively bleeding lesions requiring intervention and a nonstatistical increase in recurrent bleeding within 30 days. It is believed that more time on proton-pump inhibitor infusion prior to endoscopy allows for stabilization of bleeds, thus requiring less intervention when endoscopy does occur.

**BOTTOM LINE:** Early endoscopy within 6 hours was not beneficial for those at high risk for rebleeding and death from upper GI bleed.


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By Tara Reddy, MD

6 Is ERCP indicated in gallstone pancreatitis without cholangitis?

**CLINICAL QUESTION:** How necessary is endoscopic retrograde cholangiopancreatography (ERCP) with sphincterotomy in acute gallstone pancreatitis?

**BACKGROUND:** The timing and need for ERCP in the setting of gallstone pancreatitis without acute cholangitis has been debated widely. Guidelines recommend urgent ERCP for patients with gallstone pancreatitis with concurrent cholangitis, severe cholestasis, or a visualized stone in the duct, but it is unclear if ERCP benefits those with gallstone pancreatitis without those clear indicators.

**CITATION:** Dr. Lee is a hospitalist at Northwestern Memorial Hospital and Lurie Children’s Hospital and assistant professor of medicine, Feinberg School of Medicine, all in Chicago.
In treatment of hyponatremia caused by SIADH, there was no benefit to adding furosemide with or without NaCl supplementation to fluid restriction.

By Danielle Steker, MD

Oakland score identifies patients with lower GI bleed at low risk for adverse events

CLINICAL QUESTION: Is the Oakland score a valid tool to assess the risk of adverse outcomes in adult patients with acute lower GI bleed (LGIB)?

BACKGROUND: The Oakland score was initially designed to be used in patients presenting with LGIB in the urgent, emergent, or primary care setting to help predict risk of readmission and determine if outpatient management is feasible. National guidelines in the United Kingdom have recommended use of the Oakland score despite limited external validation for the triage of patients with acute LGIB. This study aimed to externally validate the Oakland score in a large population in the United States and compare the performance at two thresholds.

STUDY DESIGN: Retrospective observational study.

SETTING: 140 hospitals across the United States.

SYNOPSIS: In this prognostic study, 38,067 patients were identified retrospectively using ICD-10 codes that were consistent with a diagnosis of LGIB and were admitted to the hospital. The Oakland score consisted of seven variables, including age, sex, prior hospitalization with LGIB, digital rectal exam results, heart rate, systolic blood pressure, and hemoglobin concentration. The primary outcome was safe discharge from the hospital, defined as absence of in-hospital rebleeding, RBC transfusion, therapeutic colonoscopy, mesenteric embolization or laparotomy for bleeding, in-hospital death, or readmission with subsequent LGIB in 28 days. The threshold was maintained after increasing the threshold to 10 points or fewer with a specificity of 31.9%, suggesting the threshold can be increased while still maintaining adequate sensitivity.

BOTTOM LINE: The study suggests that, by using the Oakland score threshold of 8, hospital admission may be avoided in low-risk patients leading to a savings of at least $44.5 million and even more if the threshold is increased to 10. Low specificity does present limitation of the score as some patients considered to be at risk for adverse events may have been safely discharged and managed as an outpatient, avoiding hospitalization.

By Katherine Weltor, MD

Comparing the efficacy and safety of common SIADH treatments

CLINICAL QUESTION: Is fluid restriction or the addition of furosemide with or without NaCl supplementation more efficacious for the treatment of hyponatremia caused by syndrome of inappropriately antidiuretic hormone (SIADH)?

BACKGROUND: Hyponatremia caused by SIADH is common in hospitalized patients, and most evidence for treatment comes from noncontrolled studies. This study aims to investigate the efficacy and safety of fluid restriction compared with furosemide, with or without NaCl supplementation, for treating SIADH.

STUDY DESIGN: Open-label randomized controlled trial.

SETTING: Single center in Thailand.

SYNOPSIS: There were 22 participants randomized to fluid restriction alone, fluid restriction and furosemide, or fluid restriction, furosemide, and NaCl supplementation. The authors assessed the primary outcome, change in sodium,
Intranasal vs. intramuscular naloxone in reversing opioid overdose

**Clinical Question:** Is intranasal naloxone as effective as intramuscular naloxone in reversing opioid overdose at the same dose?

**Background:** Naloxone is an opioid antagonist that works to treat opioid overdose. Few randomized trials have assessed the efficacy of intranasal administration, whereas more data have been published supporting use of intramuscular naloxone. This prospective trial examined the ability of the same dose (800 mcg per 1 mL solution) of intranasal naloxone vs. intramuscular naloxone at managing opioid overdose.

**Study Design:** Double-blind double-dummy randomized clinical trial.

**Setting:** Single supervised injection center in Sydney.

**Synopsis:** In this study, 197 participants with opioid overdose were randomized to intramuscular or intranasal naloxone. If the patient did not respond to either (GSC score less than 13, RR less than 10, or oxygen saturation less than 95%), a rescue dose of intramuscular naloxone was given. Participants who received the intranasal naloxone were less likely to need the rescue dose (8.6% vs. 23.1%; odds ratio, 0.35; P = 0.02). The time to achieve an RR greater than 10 (15 vs. 8 minutes) and GSC score greater than 13 (17 vs. 8 minutes) was longer in the intranasal than the intramuscular group. Limitations include evidence of the setting of a controlled environment. This protocol called for an initial 5 minutes of ventilation prior to randomization, which selected for more severe overdose cases in the overall study population.

**Bottom Line:** Intranasal naloxone effectively reverses opioid overdose but not as effectively as intramuscular naloxone at the same dose. Naloxone is an opioid antagonist that works to treat opioid overdose. Few randomized trials have assessed the efficacy of intranasal administration, whereas more data have been published supporting use of intramuscular naloxone. This prospective trial examined the ability of the same dose (800 mcg per 1 mL solution) of intranasal naloxone vs. intramuscular naloxone at managing opioid overdose. Double-blind double-dummy randomized clinical trial. Single supervised injection center in Sydney. In this study, 197 participants with opioid overdose were randomized to intramuscular or intranasal naloxone. If the patient did not respond to either (GSC score less than 13, RR less than 10, or oxygen saturation less than 95%), a rescue dose of intramuscular naloxone was given. Participants who received the intranasal naloxone were less likely to need the rescue dose (8.6% vs. 23.1%; odds ratio, 0.35; P = 0.02). The time to achieve an RR greater than 10 (15 vs. 8 minutes) and GSC score greater than 13 (17 vs. 8 minutes) was longer in the intranasal than the intramuscular group. Limitations include evidence of the setting of a controlled environment. This protocol called for an initial 5 minutes of ventilation prior to randomization, which selected for more severe overdose cases in the overall study population. More studies are needed to assess efficacy in the field. Need: further research is needed.

**Short Takes**

Cardiac consultation should be considered for those with prior stents; high-risk conditions, including acute coronary syndrome, severe valvular disease, or active heart failure, among other conditions; or high-risk findings on cardiovascular testing.

**By David Young, MD**

**Optimizing perioperative cardiac risk assessment and management for noncardiac surgery**

**Clinical Question:** What is the sum of evidence supporting perioperative cardiac risk assessment and risk reduction?

**Background:** There are extensive publications regarding preoperative risk assessment and optimization of risk management. This article is a review of current aggregate data from various meta-analyses and observational studies. It explores a systematic approach to preoperative risk assessment.

**Study Design:** Literature review of meta-analyses and observational studies.

**Setting:** A review of the current literature available in the MEDLINE database and Cochrane Library from 1949 to January 2020, favoring meta-analyses and clinical practice guidelines.

**Synopsis:** A total of 92 publications were included in this review, which found history, physical exam, and functional capacity to be the best assessments of cardiac risk and should guide further preoperative management. Cardiovascular testing is rarely indicated except in those with clinical signs and symptoms of active cardiac conditions or with poor functional status undergoing high-risk surgery. Cardiac consultation should be considered for those with prior stents; high-risk conditions, including acute coronary syndrome, severe valvular disease, or active heart failure, among other conditions; or high-risk findings on cardiovascular testing. Preoperative medications should be individualized to patient-specific conditions. This study is limited by current available evidence and expert opinion, and the systematic approach suggested here has not been prospectively tested.

**Bottom Line:** Preoperative risk assessment and management should be largely based on individualized history, physical exam, and functional status. Cardiovascular work-up should be pursued only if it would influence surgical decision-making and perioperative care.

HF an added risk in COVID-19, regardless of ejection fraction

By Patrice Wendling

People with a history of heart failure – no matter the type – face more complications and death than their peers without HF once hospitalized with COVID-19, a new observational study shows.

A history of HF was associated with a near doubling risk of in-hospital mortality and ICU care and more than a tripling risk of mechanical ventilation despite adjustment for 18 factors including race, obesity, diabetes, previous treatment with renin-angiotensin-aldosterone system (RAAS) inhibitors, and severity of illness.

Adverse outcomes were high regardless of whether patients had HF with a preserved, mid-range, or reduced left ventricular ejection fraction (HFpEF/HFmrEF/HFrEF).

“That for me was the real zinger,” senior author Anuradha Lala, MD, said in an interview. “Because as clinicians, oftentimes, and wrongly so, we think this person has preserved ejection fraction, so they’re not needing my heart failure expertise as much as someone with heart failure with reduced ejection fraction.”

In the peak of the pandemic, that may have meant triaging patients with HFpEF to a regular floor, whereas those with HFrEF were seen by the specialist team.

“What this alerted me to is to take heart failure as a diagnosis very seriously, regardless of ejection fraction, and that is very much in line with all of the emerging data about heart failure with preserved ejection fraction,” said Dr. Lala, an assistant professor of cardiology, population health science, and policy at the Icahn School of Medicine at Mount Sinai, New York.

“Now when I see patients in the clinic, I incorporate part of our visit to talking about what they are doing to prevent COVID, which I really wasn’t doing before. It was like ‘Oh yeah, what crazy times we’re dealing with and then addressing their heart failure as I normally would,’” she said. “But now, interwoven into every visit is: Are you wearing a mask, what’s your social distancing policy, who are you living with at home, has anyone at home or who you’ve interacted with been sick?”

I’m asking those questions just as a knee-jerk reaction for these patients because I know the repercussions. We have to keep in mind these are observational studies, so I can’t prove causality but these are observations that are, nonetheless, quite robust.

Although cardiovascular disease, including HF, is recognized as a risk factor for worse outcomes in COVID-19 patients, data are sparse on the clinical course and prognosis of patients with preexisting HF.

“I would have expected that there would have been a gradation of risk from the people with very low ejection fractions up into the normal range, but here it didn’t seem to matter at all. So that’s an important point that bad outcomes were independent of ejection fraction,” commented Lee Goldberg, MD, professor of medicine and chief of advanced heart failure and cardiac transplant at the University of Pennsylvania, Philadelphia.

The study also validated that there is no association between use of RAAS inhibitors and bad outcomes in patients with COVID-19, he said.

Although this has been demonstrated in several studies, concerns were raised early in the pandemic that ACE inhibitors and angiotensin receptor blockers could facilitate infection with SARS-CoV-2 and increase the risk of severe or lethal COVID-19.

“For most clinicians that question has been put to bed, but we’re still getting patients that will ask during office visits ‘Is it safe for me to stay on?’ They still have that doubt,” Dr. Goldberg said.

“We can reassure them now. A lot of us are able to say there’s nothing to that, we’re very clear about this, stay on the meds. If anything, there’s data that suggest actually it may be better to be on an ACE inhibitor; that the hospitalizations were shorter and the outcomes were a little bit better.”

For the current study, published online Oct. 28 in the Journal of the American College of Cardiology, the investigators analyzed 6,459 patients admitted for COVID-19 at one of five Mount Sinai Health System hospitals in New York between Feb. 27 and June 26. Their mean age was 65.3 years, 45% were women, and one-third were treated with RAAS inhibitors before admission.

With use of ICD-9/10 codes and individual chart review, HF was identified in 422 patients (6.6%), of which 250 patients had HFrEF (6.0%), 44 had HFmrEF (4.1%) and 128 had HFpEF (4.0%).

Patients with HFrEF were older, more frequently women with a higher body mass index and history of lung disease than patients with HFrEF, whereas those with HFmrEF fell in between.

The HFpEF group was also treated with hydroxychloroquine or macrolides and noninvasive ventilation more frequently than the other two groups, whereas antiplatelet and neurohormonal therapies were more common in the HFrEF group.

Patients with a history of HF had significantly longer hospital stays than those without HF (8 days vs. 6 days), increased need for intubation (22.8% vs. 11.9%) and ICU care (23.2% vs. 16.6%), and worse in-hospital mortality (40.9% vs. 24.9%).

After multivariable regression adjustment, HF persisted as an independent risk factor for ICU care (odds ratio, 1.71; 95% confidence interval, 1.25-2.34), intubation and mechanical ventilation (OR, 3.64; 95% CI, 2.56-5.16), and in-hospital mortality (OR, 1.88; 95% CI, 1.27-2.78).

“I knew to expect higher rates of adverse outcomes but I didn’t expect it to be nearly a twofold increase,” Dr. Lala said. “I thought that was pretty powerful.”

No significant differences were seen across EF categories in length of stay, need for ICU care, intubation and mechanical ventilation, acute kidney injury, shock, thromboembolic events, arrhythmias, or 30-day readmission rates.

However, cardiogenic shock (7.8% vs. 2.2% vs. 2%) and HF-related causes for 30-day readmissions (47.1% vs. 0% vs. 8.6%) were significantly higher in patients with HFrEF than in those with HFmrEF or HFpEF.

Also, mortality was lower in those with HFmrEF (22.7%) than with HFrEF (38.3%) and HFpEF (44%). The group was small but the “results suggested that patients with HFmrEF could have a better prognosis, because they can represent a distinct and more favorable HF phenotype,” the authors wrote.

The statistical testing didn’t show much difference and the patient numbers were very small, noted Dr. Goldberg. “So they might be over-reaching a little bit there.”

“To me, the take-home message is that just having the phenotype of heart failure, regardless of EF, is associated with bad outcomes and we need to be vigilant on two fronts,” he said. “We really need to be doing prevention in the folks with heart failure because if they get COVID their outcomes are not going to be as good. Second, as clinicians, if we see a patient presenting with COVID who has a history of heart failure we may want to be much more vigilant with that individual than we might otherwise be.”

Although cardiovascular disease, including HF, is recognized as a risk factor for worse outcomes in COVID-19 patients, data are sparse on the clinical course and prognosis of patients with preexisting HF.

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“To me, the take-home message is that just having the phenotype of heart failure, regardless of EF, is associated with bad outcomes and we need to be vigilant on two fronts,” he said. “We really need to be doing prevention in the folks with heart failure because if they get COVID their outcomes are not going to be as good. Second, as clinicians, if we see a patient presenting with COVID who has a history of heart failure we may want to be much more vigilant with that individual than we might otherwise be. So I think there’s something to be said for kind of risk-stratifying people in that way.”

Dr. Goldberg pointed out that the study had many “amazing strengths,” including a large, racially diverse population, direct chart review to identify heart failure patients, and capturing a patient’s specific HF phenotype.

Weaknesses of the study are that it was a single-center analysis, so the biases of how these patients were treated are not easily controlled for, he said. “We also don’t know when the hospital system was very strained as they were making some decisions: Were the older patients who had advanced heart and lung disease ultimately less aggressively treated because they felt they wouldn’t survive?”

Dr. Lala has received personal fees from Zoll, outside the submitted work. Dr. Goldberg reported research funding with Resplicardia and consulting fees from Abbott.

A version of this article originally appeared on Medscape.com.
About 17% of COVID-19 survivors retest positive in follow-up study

By Damian McNamara

For reasons unknown, about one in six people who recovered from COVID-19 subsequently retested positive at least 2 weeks later, researchers reported in a study in Italy.

Sore throat and rhinitis were the only symptoms associated with a positive result. “Patients who continued to have respiratory symptoms, especially were more likely to have a new positive test result,” lead author Francesca Landi, MD, PhD, said in an interview.

“This suggests the persistence of respiratory symptoms should not be underestimated and should be adequately assessed in all patients considered recovered from COVID-19,” he said.

“The study results are interesting,” Akiko Iwasaki, PhD, an immunobiologist at Yale University and the Howard Hughes Medical Institute, both in New Haven, Conn., said in an interview. “There are other reports of RNA detection post discharge, but this study … found that only two symptoms out of many — sore throat and rhinitis — were higher in those with PCR [polymerase chain reaction]-positive status.”

The study was published online Sept. 18 in the American Journal of Preventive Medicine (doi: 10.1016/j.amepre.2020.08.014).

The findings could carry important implications for people who continue to be symptomatic. “It is reasonable to be cautious and avoid close contact with others, wear a face mask, and possibly undergo an additional nasopharyngeal swab,” said Dr. Landi, associate professor of internal medicine at Catholic University of the Sacred Heart in Rome.

“One of most interesting findings is that persistent symptoms do not correlate with PCR positivity, suggesting that symptoms are in many cases not due to ongoing viral replication,” Jonathan Karn, PhD, professor and chair of the department of molecular biology and microbiology at Case Western Reserve University, Cleveland, said in an interview.

“The key technical problem, which they have discussed, is that a viral RNA signal in the PCR assay does not necessarily mean that infectious virus is present,” Dr. Karn said. He added that new comprehensive viral RNA analyses would be needed to answer this question.

Official COVID-19 recovery
To identify risk factors and COVID-19 survivors more likely to retest positive, Dr. Landi and members of the Gemelli Against COVID-19 Post-Acute Care Study Group evaluated 131 people after hospital discharge.

All participants met World Health Organization criteria for release from isolation, including two negative test results at least 24 hours apart, and were studied between April 21 and May 21. Mean age was 56 and 39% were women. Only a slightly higher mean body mass index of 27.6 kg/m² in the positive group versus 25.9 in the negative group, was significant. Although 51% of survivors reported fatigue, 44% had dyspnea, and 17% were coughing, the rates did not differ significantly between groups. In contrast, 18% of positive survivors and 4% of negative survivors had a sore throat (P = .04), and 27% versus 12%, respectively, reported rhinitis (P = .05).

People returned for follow-up visits a mean 17 days after the second negative swab test.

Asymptomatic carriers
These findings indicate that a noteworthy rate of recovered patients with COVID-19 could still be asymptomatic carriers of the virus,” the researchers noted in the paper. “Even in the absence of specific guidelines, the 22 patients who tested positive for COVID-19 again were suggested to quarantine for a second time.”

No family member or close contact of the positive survivors reported SARS-CoV-2 infection. All patients continued to wear masks and observe social distancing recommendations, which makes it “very difficult to affirm whether these patients were really contagious,” the researchers noted.

Next steps
Evaluating all COVID-19 survivors to identify any who retest positive “will be a crucial contribution to a better understanding of both the natural history of COVID-19 as well as the public health implications of viral shedding,” the authors wrote.

One study limitation is that the reverse transcriptase–PCR test reveals genetic sequences specific to COVID-19. “It is important to underline that this is not a viral culture and cannot determine whether the virus is viable and transmissible,” the researchers noted.

“In this respect, we are trying to better understand if the persistence of long-time positive [reverse transcriptase]–PCR test for COVID-19 is really correlated to a potential contagiousness,” they added.

Dr. Landi and colleagues said their findings should be considered preliminary, and larger data samples are warranted to validate the results.

Dr. Landi and Dr. Karn disclosed no relevant financial relationships. Dr. Iwasaki disclosed a research grant from Condair, a 5% or greater equity interest in RIGImmune, and income of $250 or more from PureTec.

A version of this article originally appeared on Medscape.com.
Reducing admissions for alcohol withdrawal syndrome

Hospitalists can drive major changes with a QI project

H ospitalists in the VA system see patients with symptoms of alcohol withdrawal frequently – there are about 33,000 hospital admissions each year for alcohol withdrawal syndrome (AWS), says Robert Patrick, MD, of the Louis Stokes Cleveland VA Medical Center.

“By contrast, the number of admissions for the largest ambulatory care sensitive condition (heart failure) is only about 28,000,” he said. “If alcohol detox were an ambulatory care sensitive condition, it would be the largest in the VA by a substantial margin.”

The purpose of the project he and his coauthor, Laura Brown, MD, created to address the problem was to increase the number of patients treated for AWS as outpatients and decrease hospital admissions – without increasing readmissions or clinical deterioration.

They introduced four core operational changes for their study:

2. Benzodiazepine-sparing symptom-triggered medication regimen.
3. Daily clinical dashboard surveillance and risk stratification for continued hospital stay.
4. Telephone follow-up for patients discharged from the ED or hospital.

With these changes in place, 8 months of data showed a 50% reduction in AWS admissions and a 40% reduction in length of stays.

Their conclusion? “A well-designed and -executed QI [quality improvement] project can dramatically reduce hospitalist workload, while at the same time improving patient safety,” Dr. Patrick said. “Hospitalists just have to be willing to think outside the box, work with nursing and coordinate care outside of the hospital to make it happen.”

He added a caveat for hospital medicine groups still in a fee-for-service environment. “This saves money for the payer, not the hospital,” he said. “In our case they are one and the same, so the ROI [return on investment] is huge. If you are part of an ACO [accountable care organization] this is probably true for you, but I would check with your ACO first.”

Reference


Getting closer to an accurate early Alzheimer’s test

Researchers have created the most sensitive test yet

S cientists at Washington University in St. Louis have developed the most sensitive blood test yet for Alzheimer’s. In studies, the test identified patients with amyloid deposits, using mass spectrometry, before brain scans did.

Of course, amyloid is a normal brain protein; most people with amyloid deposits will not develop dementia, but it’s a significant risk factor. When blood amyloid levels are low, it may indicate it is clumping in the brain.

Researchers used mass spectrometry to test volunteers’ stored blood for beta-amyloid, then checked if the levels predicted the results of PET scans. Mass spectrometry identified asymptomatic people accumulating beta-amyloid in their brains when PET scans were still negative. The scans showed beta amyloid in the brain only years later. The blood test predicted the presence of plaque even in mostly asymptomatic people with 94% accuracy.

The test will not be available for clinical use for years, but prior to that it will be helpful to scientists conducting trials of drugs to prevent Alzheimer’s, seeking participants in the earliest stages of the disease.

Reference


Quick Byte: Looking back


“This will be an unprecedented moment in public health: according to the declaration negotiated by member states, this commitment is being made globally ‘for the first time.’ Whether or not the new commitment succeeds will depend on a large degree of advocacy at the national level,” as people will need to ‘demand more of their governments,’ the declaration notes.

Reference


Getting to secure text messaging in health care

Hospitalists and health care teams struggle with issues related to text messaging in the workplace. “It’s happening whether an institution has a secure text-messaging platform or not,” said Philip Hagedorn, MD, MBI, associate chief medical information officer at Cincinnati Children’s Hospital Medical Center.

“Many places reacted to this reality by procuring a solution – take your pick of secure text-messaging platforms – and implementing it, but bypassed an opportunity to think about how we tailor the use of this culturally ubiquitous medium to the health care setting,” he said.

It doesn’t work to just drop a secure text-messaging platform into clinical systems and expect that health care practitioners will know how to use them appropriately. Dr. Hagedorn says. “The way we use text messaging in our lives outside health care inevitably bleeds into how we use the medium at work, but it shouldn’t. The needs are different and the stakes are higher for communication in the health care setting.”

In a paper looking at the issue, Dr. Hagedorn and co-authors laid out critical areas of concern, such as text messaging becoming an alarm-fatigue risk. “These are starting points, and I’m sure there are plenty of other creative solutions out there. We wanted to get the conversation going. We’d love to hear from others who face similar issues or have come up with interesting solutions.”

Reference

Internal Medicine Hospitalist Opportunity

The University of Iowa Department of Internal Medicine is recruiting part-time and full-time BC/BE physicians for clinical faculty positions that offer a dynamic mix of activities within the Division of General Internal Medicine. Based upon individual’s interest, hospitalists can rotate on resident based teaching teams, attending only teams, transition of care follow up clinic, virtual hospitalists providing care at distant hospitals at both the University of Iowa Hospitals and Clinics (UIHC) and the Iowa City VA Medical Center (VAMC), physician led Advanced Practice Provider (APP) inpatient teams, staff the APP run observation unit, or the resident based surgical co-management services. We recently opened the University of Iowa Health Network Rehabilitation Hospital, a venture with Encompass Health, where our hospitalists co-manage patients with PMR staff. Additionally, general medicine hospitalists can rotate on two subspecialty services, the hem-onc service, in collaboration with hematologists, oncologists, the cardiology service, which provides collaborative care with cardiologists, and we plan to introduce a third subspecialty service, gastroenterology hospitalist.

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For further information, contact Evelyn Kinne at evelyn-kinne@uiowa.edu

Interested candidates are invited to search the Jobs@UIOWA site: https://jobs.uiowa.edu/content/faculty/ and search for requisition # 73980

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Flattening the hierarchy

What fellows can learn about leadership from aircraft crews

By Brandon Palmer, MD

Fellowship is a time of great growth for pediatric hospital medicine fellows as clinicians, educators, scholars, and as leaders. Leadership is a crucial skill for hospitalists that is cultivated throughout fellowship. As fellows, we step into the role of clinical team leader for the first time and it is our responsibility to create a clinical and educational environment that is safe, inviting and engaging.

For possibly the first time in our careers, pediatric hospital medicine fellows are expected to make final decisions, big and small. We are faced with high-pressure situations almost daily, whether it is a rapid response on a patient, tough diagnostic and therapeutic decisions, difficult conversations with families, or dealing with challenging team members.

Soon after starting fellowship I was faced with such a situation. The patient was a 6-month-old infant with trisomy 21 who was admitted because of feeding difficulties.

They were working on oral feeds but required nasogastric (NG) feeds to meet caloric needs. On my first day on service, the residents indicated that the medical team desired the patient to have a gastrostomy tube (G-tube) placed. I was hoping to send the patient home for a few weeks with the NG tube to see if they were making progress on their oral feeds before deciding on the need for a G-tube. However, the patient’s parents pulled me aside in the hallway and said they were considering a third possibility.

The parents felt strongly about a trial period of a few weeks without the NG tube to see if the patient was able to maintain adequate weight gain with just oral feeds. The bedside nurse reiterates that the family felt their concerns had not been considered up until this point. As the fellow and team leader, it was my job to navigate between my resident team, myself, and the family in order to make a final decision. Through a bedside meeting and shared decision-making, we were able to compromise and negotiate a decision, allowing the patient to go home on just oral feeds with close follow-up with their pediatrician.

Afterward, I found myself searching for strategies to be a better leader in these situations.

I found a potential answer in a recent article from the Harvard Business Review titled “What Aircraft Crews Know About Managing High-Pressure Situations.” The article discusses crew resource management (CRM), which was developed in the 1980s and is used in aviation worldwide. CRM is based on two principles to improve crisis management: The hierarchy on the flight deck must be flattened, and crew members must be actively integrated into the flight’s workflows and decision-making processes.

If we can model ourselves after the airline industry by following the principles of CRM, then we will be better clinicians, educators, and leaders.

The authors of the article conducted two different studies to further understand CRM and its effects. The first study included observing 11 flight crews in emergency simulations. In the study, the flight crew had to react to an emergency, and then conduct a landing of the aircraft. The authors found that the captain’s style of communication had a major impact on crew performance in two major ways: Crews performed consistently better under times of pressure when the copilot was included in the decision-making process, and captains who asked open-ended questions came up with better solutions than captains who asked “yes or no” questions.

The authors conclude that “involving colleagues as equal decision partners by asking them questions ... aids constructive, factual information exchange.” The second study consisted of conducting 51 interviews with flight crew members to better understand crisis management. In the interviews, the same theme occurred, that open-ended questions are vital in all decision-making processes and may be preventative against dangerous or imperfect outcomes. As fellows and team leaders we can learn from CRM and these studies. We need to flatten the hierarchy and ask open-ended questions.

To flatten the hierarchy, we should value the thoughts and opinions of all our team members. Now more than ever in this current COVID-19 pandemic with many hospitals instituting telehealth/telerounding for some or all team members, it is essential to utilize our entire “flight crew” (physicians, nurses, therapists, subspecialists, social workers, case managers, etc.) during routine decisions and high-stake decisions. We should make sure our flight crew, especially the bedside nurse is part of the decision-making process. This means we need to ensure they are present and given a voice on clinical rounds. To flatten the hierarchy, we must take pride in eliciting other team member’s opinions. We must realize that we alone do not have all the answers, and other team members may have different frameworks in which they process a decision.

Finally, in medicine, our patients and families are included in our flight crew. They too must have a voice in the decision-making process. Previous studies have shown that patients and families desire to be included in the process, and opportunities exist to improve shared decision-making in pediatrics. Lastly, we should commit to asking open-ended questions from our team and our patients. We should value their input and use their answers and frameworks to make the best decision for our patients.

I wasn’t aware at the time, but I was using some of the principles of CRM while navigating my high-pressure situation. A bedside meeting with all team members and the patient’s family helped to flatten the hierarchy by understanding and valuing each team member’s input. Asking open-ended questions of the different team members led to a more inviting and engaging clinical and learning environment. These strategies helped to lead our team into a clinical decision that wasn’t entirely clear at first but ended up being the best decision for the patient, as they are now thriving without ever requiring supplemental nutrition after discharge.

As physicians, we have learned a lot from the airline industry about wellness and the effect of fatigue on performance. We can also learn from them about clinical decision-making and leadership strategies. When adopted for health care, CRM principles have been shown to result in a culture of safety and long-term behavioral change. If we can model ourselves after the airline industry by following the principles of CRM, then we will be better clinicians, educators, and leaders.

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