Twitter Thread by Jack Iwashyna



Jack Iwashyna
@iwashyna

In the midst of all the grief + chaos of 2020, it's hard to remember there were good things

For me, an incredible group of young scholars doing highly relevant science was the #Bestof2020. Here are my favorite 2020 paper by each of several young scholars with whom I get to work

To see where some of these folks were last year see this thread

let's start this #BestOfResp2020 with @UM_IHPI K-awardees

https://t.co/xygPoUATXJ

> It's time for #BestOf2019 lists
>
> I thought I would try something new. Here are my single favorite paper by each of several young scholars with whom I get to work. They are all rock-stars. In lots of cases these were hard choices 'cause they were very productive this year...
>
> — Jack Iwashyna (@iwashyna) December 26, 2019

.@msjoding changed the way I look at pulse oximetry in @nejm, rethinking my bedside care

This paper has rightly gotten a lot of attention

https://t.co/mqiGLzq79g

> 1/ Our research letter on racial bias in pulse oximetry measurement, out today in NEJM https://t.co/6dLuNGosxp pic.twitter.com/XXsfWfc5dv
>
> — Michael Sjoding (@msjoding) December 17, 2020

But I think it is useful to look at it as an example of what makes Mike's work so interesting. A grant to build a dataset just to look at this project would, I think, have been un-fundable. Instead Mike had built an infrastructure to look at ARDS detection

When @msjoding came across Prof Amy Moran-Thomas's provocative @BostonReview essay (https://t.co/VB63h74o9U) he was able to pivot that data infrastructure to ask an important question...

because he had done a ton of bedside #COVID19 care, had a broad @ncspMICHIGAN education, + rigorous epi training in addition to his machine learning work. @UM_MiCHAMP's book group had primed him to thing about algorithmic bias. And he had MIMIC clean to rapidly replicate

Serendipity + the prepared mind -- in an environment instrumented (in terms of both technical infrastructure + colleagues) to be able to go answer questions that arise from bedside intuitions + broad reading + vigorous discussions, w enough financial + time flexibility to do that

.@tsvalley fielded a survey to every Michigan hospital in the midst of the first wave pandemic, to investigate how hospitals were helping--or not--families stay in touch with ICU patients. The results were horrifying when they came out in @ATSBlueEditor

https://t.co/XqyC8GVM9r

> Family members are integral to #ICU care but were unable to visit their loved ones during the pandemic - I'm excited to share a tweetorial on our recent #COVID19 study in @ATSBlueEditor
>
> 1/https://t.co/MCVo0rDTF6
>
> — Tom Valley (@tsvalley) August 6, 2020

.@UMichNursing superstar Sue Anne Bell was helping to organize everything from #COVID19 field hospitals to #COVID19 nursing home care while serving on an @theNASEM panel on health effects of climate change

https://t.co/7tIqhoO3pv

> Three members of the #UMichNursing community will be inducted as fellows of the AAN during a virtual ceremony tomorrow. Congrats to Sue Anne Bell, Lauren Underwood and Pamela Martyn-Nemeth, who will be inducted alongside other distinguished nurse leaders: https://t.co/S9XLQZOgyN. pic.twitter.com/AFrliqt4eU
>
> — U-M School of Nursing (@UMichNursing) October 30, 2020

I loved Sue Anne Bell's clever @PLOSONE paper that used public data on clinician's office locations to examine another threat of disasters to health -- disruptions of relationships with clinicians + diminished access to care

https://t.co/EL32uN92lP

I also work with a group of K12 scholars, supported by @nih_nhlbi training grant in implementation science in critical care

Again, great examples of @Jdos_WoT's hypothesis that universities are a reserve force whose value, in part, is their ability to meet unforeseen challenges

.@RyanPBarbaro showed @TheLancet that initial pessimism about role of #ECMO in #COVID19 was wrong: ECMO outcomes for #COVID19 were quite similar to those for other causes of respiratory failure--full ICU support saves COVID lives

https://t.co/5GCg69MPrL

https://t.co/YUeFuxV6PC

.@jpdonnepi showed @JAMA_current that #COVID19 does not always end at hospital discharge--readmission + post-discharge death are ongoing problems, comparable to other conditions for which readmission prevention is a major focus

https://t.co/M2ieJE1G9B

https://t.co/E3jWFcVdjw

.@JenniferNErvin published a definitive review of 20 Evidence-Based Practices in mechanical ventilation in ARDS in @accpchest, just in time to help counter somer of the CRAZY things that were being proposed on twitter

https://t.co/L2BGuWGALN

https://t.co/hnq8ZeqgrC

In this midst of #COVID19, @L_ViglianiMD submitted a superb #K23 to @nih_nhlbi and earned a "highly promising" score (comfortably inside the funding line, NOGA awaited), and provided #COVID19 surge care, and was still writing

.@L_ViglianiMD continued her pathbreaking work on #PersistentCriticalIllness -- rethinking why patients get stuck in the ICU in terms of cascading complications rather than simply non-resolving respiratory failure

This piece in @yourICM, for example

https://t.co/CKQ1OcMiCZ

> Excited to share our newest publication @yourICM on persistent critical illness by looking beyond the patient and focusing on how hospitals may contribute to its development. https://t.co/50kVruJuye pic.twitter.com/oqgmieMsiI
>
> — Elizabeth Viglianti (@L_ViglianiMD) June 5, 2020

#COVID19 emphasized the importance of @L_ViglianiMD's clinical + epi + HSR work, as I wrote in support of her back in May (which seems an eternity ago, doesn't it?)

And while I do not get to work closely enough with @abrnurse to get even any reflected glory--@AnneSales4 + @DeenaKCosta are her amazing mentors--I must bring to your attention in this thread her nationwide work rethinking burn center staffing

https://t.co/ODP1e1sDrj

All of that science was made possible by @nih_nhlbi's support for clinician scientist, plus the incredible environment of @UMIntMed + @UM_IHPI + @VA_CCMR + @MichiganPulmCC @UM_MICReW + @ncspMICHIGAN -- we benefit from multiple mutually supportive institutions

But that's not all! There are an amazing group of @ncspMICHIGAN Scholars (and those in the associated @UM_IHPI Master's Program) that I get to work with

Before she returned to yet more hand surgery training, @BilligJessica capped her @ncspmichigan series on potentially inappropriate #gabapentin use with a lovely paper looking at its role--and there should be almost none--in carpal tunnel syndrome

https://t.co/6kdhrtiaum

And @ncspMICHIGAN Scholar @ADeRooMD showed results that ought to fundamentally change the way we assess the risks + benefits of some surgeries

https://t.co/qpSlYYQI5B
and also
https://t.co/HzwwwDM2Iy

Nurse @ashleevance_phd is primarily mentored by @DeenaKCosta and continues her amazing line of work on the impact of medical complexity in neonatal ICUs and parenting -- for #PedsICU, taking the family rather than the organ as the unit of analysis/care

https://t.co/ARk1Gd1i6K

> Just in time for #NursesWeek2020, my last 2 dissertation papers are published! \U0001f929 This work made possible by amazing mentorship @DukeU_NrsngSchl and support from @ncspMICHIGAN @UMichNursing. Links to pubs in thread 1/ pic.twitter.com/wRwYy3kfFs
>
> — Ashlee J. Vance (@ashleevance_phd) May 6, 2020

(@ashleevance_phd has a SUPER COOL project on the incoherent variation in children's hospital visitation policies under review that I can't wait for you to see, too)

.@DrHuerto, primarily mentored by @chang_tammy, continues to be an unflinching voice for racial equity in care, from @ConversationUS (https://t.co/PD8FiowUbt) to @Health_Affairs (https://t.co/GT6oBHg2U2)

Dr @v_valbuen of @ncspmichigan has written powerfully about our moral and professional obligations as clinicians in this hard, hard year

https://t.co/fVy9ycljiT

even as her emerging Stata skills have some great new data almost ready for submission

And @lcagino of @MichiganPulmCC capped her first 6 months of protected research time (after so many months of extra #COVID19 care) with an important new paper @AnnalsATS with @dulcetarpeggio and @JackieKercheval on benefits of tracheostomy in #COVID19

https://t.co/MhsiWhZvAr

That analysis by @lcagino, @JackieKercheval, @dulcetarpeggio certainly moved my thinking in 2 different directions--redoubling my commitment to re-implement A2F bundle w @dclaar22 even in #COVID19, but also supporting earlier trach given the very long arc of #COVID19 recovery

somehow I screwed up the threading on this... reconnecting here

https://t.co/0xNCm6wD4u

> Have I mentioned I get to work with the best people?
>
> This is so much fun pic.twitter.com/wr72aPV7MH
>
> — Jack Iwashyna (@iwashyna) December 29, 2020