COVID-19 Research Initiative Report

Prepared by the COVID-19 Research Initiative Tracking Committee
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The primary goal of this research initiative is to identify and promote research performed by the Marquette community on the immediate and long-term issues and the impact on society related to the COVID-19 pandemic.

The COVID-19 pandemic has and continues to affect most aspects of the daily lives of Americans and people across the world. Marquette University, a research and student-focused institution, is in the unique position to bring together scholars from the Marquette community, including faculty, staff, and students, to address the consequences of the COVID-19 pandemic, how we got here, and the emerging trends and strategies to navigate the changing world.

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A. SUMMARY AND OVERVIEW

Report Summary: The Marquette COVID-19 Research Initiative is a multidisciplinary, faculty-led research initiative in response to the impact of the COVID-19 pandemic. It was initiated in April 2020 by faculty from three colleges (Health Sciences, Arts and Sciences, and Law) at the request of Vice President of Research and Innovation, Dr Jeanne Hossenlopp. A steering committee was quickly established with invitations to all colleges and several key institutional offices. Aims, desired outcomes (see link and Appendix), a strategic plan (Table 1: Focus and Priorities), and website were established. This report is based on research activity since the inception of the initiative in April 2020. The formation and outcomes of this initiative may serve, in part, as a model for approaches to future collaborative and multidisciplinary research initiatives at Marquette. Faculty, staff, and students mobilized to execute cross-campus and multidisciplinary collaborative research and educational experiences with urgency, and on a scale rarely seen before at Marquette. Lessons learned and next steps are highlighted in Section E.

The Marquette COVID-19 Research Initiative to date has involved research activity of faculty, students, and staff from **34 departments, 11 colleges, and 7 institutional offices**. All the desired outcomes outlined in April 2020 were accomplished. These included significant **externally-funded research awards** (~**$692,000, 20 awards, 17 lead PIs across 7 colleges/institutional offices)**, a relevant and intriguing podcast series (COVID Conversations with 24 episodes), a website devoted to the initiative, and multiple seminars and webinars including two townhalls (>200 participants) and four rounds of 'Lightning Talks' that highlighted the ongoing impactful COVID-19 pandemic research. There was significant undergraduate and graduate student involvement across most colleges. Student involvement included research experiences in the COVID-19 Research Initiative Summer Undergraduate Research Program (Summer 2020) and the Public Health Equities Fellowship (Fall 2020-Spring 2021). Students also contributed to the writing of research commentaries about the effects on the pandemic on society including the

changing patterns of physical activity levels, effects of the pandemic on food security among students, and the experience of death and dying. Students, graduate and undergraduate, continue to be involved in many of the studies initiated.

Overall, there were at least **35 research studies** initiated in the early stages of the pandemic aiming to understand related issues ranging from the long-term effects of COVID-19 on the human body to the changing behavior of people during isolation. Collaborations between faculty from different disciplines and colleges formed to address these emerging problems that required a multidisciplinary approach to understand. Some of these projects/studies are highlighted in Section D, although there are many more. Following is a summary of the major activities and outcomes achieved, and the processes established to achieve these outcomes.

Table 1: COVID-19 Research Initiative Strategic Plan – Focus and Priorities (also outlined on the website)

Support	Tracking & Metrics	Publicity
Promote academic and financial/resources support: - interdisciplinary teams of scholars - undergraduate & graduate students	***Track and quantify*** *research and educational activities, personnel, funding, community partnerships & outreach & other outcomes*	***Publicize and highlight*** *research activities, findings & application, educational experiences (classes/seminars), student involvement & community partnerships & impact*
Academic Support • Town halls • Website: central site to collect ideas and skill sets for team formation & addition to existing teams • Steering committee: ensuring connections being made • Create an undergraduate research student cohort (summer and fall) ***Financial Support and Resources*** • Internal – e.g. President's Challenge • External – ORSP support to provide possible avenues • Engage University Advancement (UA) • Office of Economic Engagement	***Track and Quantify*** • Colleges, dept's & disciplines • Student involvement • Projects submitted online vs. developed vs. executed • Funding (internal + external) • Student educational opportunities: classes, seminars, etc • Publications, conference presentations, seminars • Community outreach activities: webinars, podcasts, etc • Community Partnerships • Community Impact • Intellectual Property development • Media interactions • Social media Tracking to occur using at least the following tools - Microsoft Teams website - Surveys/questionnaires - Website metrics	***Publicize and Highlight*** to the MU community, alumni & public: • Dynamic - Interactive Website • Podcasts • Blogs • Monthly newsletter • Feature articles • Webinars • Seminars • Opinion pieces • Social Media • Engage Office of Marketing and Communication (OMC) to feature research findings and educational impact and to be utilized by UA

Connecting People and Skill Sets to Address Emerging Pandemic-Related Issues

A steering committee was established by the end of April 2020 with representation from most colleges.

Steering Committee

- The COVID-19 Research Initiative Steering Committee were the group of Marquette researchers (faculty, staff and students, see Appendix for members) that helped develop, support, and drive the initiative and facilitate research collaborations in their areas of expertise. Faculty volunteers from all colleges on campus serve on the committee, in addition to graduate and undergraduate student representatives.
- **Faculty and staff were from 15 different departments/institutional offices and 10 colleges/institutional offices** including a graduate student and undergraduate student representative. The committee initially met every 1-2 weeks and then 4-8 weeks thereafter until May 2021, with the final meeting in September 2021. In addition to the established committee, meeting attendees included support staff from the Office of Research and Innovation, Office of Research and Sponsored Programs, and the Office of Marketing and Communication.

How did research multidisciplinary collaborations originate and grow?

Several pathways provided opportunity for faculty, staff, and students to connect virtually and foster cross-disciplinary collaborations in real time. These **grassroots strategies** provided a space for faculty to identify emerging problems, connect with others, and form collaborative and interdisciplinary approaches to problems and issues around the pandemic. Many of these collaborations would not have occurred otherwise. Pathways included:

1. **Townhalls and Lightning Talks:** These initial virtual meetings (Townhalls x 2 and Lightning Talks x 4, 5-minute presentations) provided a space and exposure to new research projects, personnel, and ideas for people to connect. The Townhalls and Lightning Talk events seeded future collaborations as they were an efficient and exciting platform with which to share research themes, with recordings made available so that audience members could watch and connect with potential collaborators at a later time.
2. **Online portal:** Connections between Marquette faculty, staff or students with different skill sets and availability were initially made via an online portal where each interested person identified their research question, project, or skill set. The portal and opportunities for research connections were advertised at the Townhalls (April 28-29, 2020) and in several all-campus communications. The portal could also be accessed on the newly established COVID-19 Research Initiative website.

A **key feature** was that faculty, staff, and students were encouraged to reach out to others should they wish to collaborate based on identified questions, skills, and availability. Several steering committee members followed up with people to ensure connections were established from the online portal.

Website: [https://www.marquette.edu/innovation/covid-19-research.php]

The COVID-19 Research Initiative website is a hub for up-to-date information on initiative events and associated research projects. The website directly links to all COVID-19 Research Initiative content including research presentations and COVID Conversations podcasts.

B. SUPPORTED PROGRAMS AND RESEARCH ACTIVITY

University Virtual Townhalls (2)

Two Townhalls: April 28 and 29, 2020 *Attendees: 212*

These were preliminary meetings to introduce the Marquette community to the new research initiative, share preliminary project ideas, and entertain questions. They were a major instigator of collaborative efforts across disciplines.

Virtual Lightning Talks (4) (short duration, high impact presentations)

These were impactful, online presentation events (Microsoft Teams) where Marquette researchers shared their pandemic-related research in five minutes or less.

Four Virtual Lightning Talks featuring 49 presentations.

Attendees: 242

[June 23, August 4, Sept 8, 2020, and April 21, 2021]

Presentations from **24 different departments and 8 colleges/units** (**35 faculty and 14 student presenters)**

Faculty Lightning Talks (Session 1, Session 2, Session 3) and Student Lightning Talks

In addition to the connections between the Marquette researchers, a significant outcome of Townhalls and Lightning Talks was drawing the attention of the Alumni Association/BeyondMU, facilitating connections between Marquette researchers and this important external audience of life-long learners.

Student-Focused Initiatives/Programs (4)

1. **COVID-19 Summer Student Research Program** (ICreSPR) (8 students, 3 departments, 2 colleges). A 10-week 2020 summer research program on COVID-19 related research. Directed by Dr. Khadijah (Gigi) Makky (Biomedical Sci) and Ms. Toni Uhrich (Exercise Sci). Students and faculty met weekly for seminars, workshops, student-led presentations, and journal paper discussions. A capstone presentation by all students at a Lightning Talks seminar (Sept 8, 2020).
2. **Public Health Equities Fellowship program** (10 students: 6 departments in 4 different colleges, Sept 2020 - May 2020). Students met biweekly for seminars, presentations, journal clubs and discussions about many pandemic-related topics and outcomes. Led by Drs. Joseph Byonanebye (Biomedical Sci) and Nil Lodh (Medical Lab Sci).
3. **Athletic and Human Performance Research Center (AHPRC) Student Research Initiative** (6 students from 5 departments in 3 different colleges). This recurring program focuses on engaging students and faculty mentors to grow research in health and human performance and support a network of researchers from various disciplines on campus who perform research in this area. The program was initially supposed to take place in-person in Summer 2020 but was deferred to the 2020-21 academic year after COVID-19 caused the cancellation of the summer program. Some research teams used the opportunity to explore COVID-related research questions including pain characteristics of COVID-19 survivors and college students' family relationships and mental and physical well-being during the pandemic.
4. Student Commentaries (16 to date): Developed in conjunction with the Athletic and Human Performance Research Center, COVID-19 Student Commentaries is an outlet for Marquette undergraduate and graduate students to delve into research stemming from the COVID-19 pandemic and gain experience writing research pieces.

COVID Conversations Podcasts (24)

Innovation in action: sharing emerging knowledge in real time

24 episodes over 2 "seasons:" led and organized by Dr Lezlie Knox (History)

Found on Spotify, iTunes, Stitcher, or https://www.marquette.edu/innovation/covid-conversations.php

- **Faculty and staff from 12 different colleges and institutional offices**
- **Students: 6 undergrads and 3 graduate students**
- **Guests from 21 Marquette departments and 6 community organizations**
- **~3830 total plays (as of 10-7-2021)**

Covid Conversations is a multidisciplinary view of the impact of the pandemic from the viewpoint and expertise of faculty and students. It is designed to highlight some of the research currently underway at Marquette, as well as share how Marquette classes explore the pandemic and its impact on society. The goal was to bring together an interdisciplinary group to reflect on a topic and then produce a podcast based on their conversation to highlight similarities and divergences in the ways different fields do research and share the resulting information.

CURTO COVID-19 Webinar

- The Marquette Center for Urban Teaching, Research and Outreach hosted a webinar with Marquette faculty discussing the financial and societal impact of the COVID-19 pandemic in Wisconsin.

C. TRACKING

External Funding Achieved on COVID-19 Related Research

(May 2020 - July 2021)

21 funded proposals on COVID-related research
18 different Principal Investigators

Total: $741,767

Unit	# proposals
College of Engineering	3
College of Arts & Sciences	6
College of Health Sciences	2
College of Education	2
Office of Economic Engagement	2
Law School	1
School of Dentistry	1
Haggerty Museum of Art	4
	21

2 Federal, 4 State, 13 Foundation and 2 Corporate

Research Projects

At least 35 collaborative research projects initiated from most colleges and with multiple collaborations.

Publications and Presentations

Follow up with faculty who presented at a Lightning Talks presentation indicated at least

- 22 conference presentations
- 28 peer-reviewed publications
- 25 op-eds and blogs

See Appendices for Links to *some* (not all) of the publications/op-ed (**BOLD** = MU Personnel)

Media Publicity

Faculty and students were featured in the media for their expert opinions about pandemic-related issues including exercise habits during the pandemic, mask-wearing behavior, and the long-term effects of COVID-19 to name a few. Known media and publicity are highlighted in the Appendices.

D. FEATURED RESEARCH COLLABORATIONS

These examples feature the breadth and depth of grassroots research projects and collaborations that formed during the pandemic.

1. *Generation C(ovid) Heads to College: Examining the Transition Process (3 colleges, 3 departments)*

Lead PI: Gabriel Velez, Educational Policy and Leadership

Co-PIs: Jody Jessup-Anger, Educational Policy and Leadership
Sam Nemanich, Occupational Therapy
Erin Hoekstra, Social and Cultural Sciences

Students: Max Herteen, Educational Policy and Leadership

Project Aims: This project is a collaboration between faculty in Educational Policy and Leadership (Gabriel Velez and Jody Jessup-Anger), Occupational Therapy (Sam Nemanich), and Social and Cultural Sciences (Erin Hoekstra) aimed at understanding more about the transition to college for Generation C(ovid) – students who spent most of their junior and senior year in high school navigating the global pandemic alongside their preparation for college.

The group plans to study how student's experiences during the Covid-19 pandemic will impact their transition to college, focusing on their mental and physical health, college going expectations and experiences, and career expectations. One branch of the research project entails a small cohort (N=50) who will be interviewed before they begin their first year at Marquette, and then follow up with an interview at the end of the academic year and in future years. Interviews will explore in depth how experiences and ideas about COVID-19 (including schooling, social life, family impacts, mental and physical health changes) influences their transition to college. Additionally, the research team will survey a 1/3 representational sample of the first-year undergraduate class to quantitatively study their transition to college in relation to their experiences of the COVID-19 pandemic.

Presentations: Clinical & Translational Science Institute of Southeast Wisconsin (CTSI) Child Advancement Network (CAN)

2. *'When Safer at Home is Not Actually Safe'* (4 colleges, 5 departments)

Lead PI: Andrea Schneider (Law).

Co-PIs: A collaboration of six researchers from five different departments (Law, Management, Anthropology, Social and Cultural Sciences, Biomedical Sciences), students, as well as the Milwaukee County Court System and the Sojourner Family Peace Center, plus other organizations which must remain anonymous due to the nature of this project.

Students: 19 students (undergrads and grad students) from 4 colleges (Law, Business, Nursing and A&S)

Project Background and Aims: In March 2020, state governments began issuing "Safer-at-Home" orders to mitigate the spread of COVID-19. But for women living with abusive partners, being quarantined at home was anything but safe. The research team analyzed the effect these orders had on the prevalence of domestic abuse cases, and their impact on the wellness and mental health of survivors.

This team, in partnership with Milwaukee County Circuit Court and the Sojourner Family Peace Center, is working toward improving services for survivors during the pandemic, to enhance court processes, and to guide best practices in advising workplaces on how to respond to Intimate Partner Violence.

The general aim is to improve assistance for DV/IPV survivors, especially in times of crisis, through improved advocacy to other support services and improved collaboration amongst survivor support organizations as well as sharing insights and data with the local court systems to help better the judicial process for DV/IPV survivors.

Funding: President's Challenge, Institute for Women's Leadership

Presentations/Publications: As of August 2021, this project has produced 2 presentations (Lightning Talk and Beyond MU: Lifelong Learning), 3 reports, and 2 white papers. There are numerous presentations and publications forthcoming.

3. *'Persistent Effects of COVID-19 on Physical and Psychological Function'* (3 colleges, 3 departments)

Lead PI: Sandra Hunter (Exercise Science, Dept of Physical Therapy and AHPRC)
Co-PIs: Paula Papanek (Exercise Science, Physical Therapy), Marie Bement (Physical Therapy), Linda Piacentine (Nursing), and Jacqueline Kulinski (Cardiology, MCW)

Co-Investigators: Toni Uhrich (Exercise Science, Physical Therapy), Rachel Bollaert (Exercise Science, Physical Therapy), Michael Danduran (Exercise Science, Physical Therapy), Erik Munson (Clinical Lab Science), Norah Johnson (Nursing), Kristin Haglund (Nursing), Lauren Opielinski (Exercise Science, Physical Therapy)

Students: 10 students from 2 colleges (CHS and Nursing): Mike Haischer (EXRS Grad), Brianna Weibye (EXRS Grad), Lindsey Mirkes (EXRS Grad), Rachel Beilfuss (DPT), Emma Schmit (DPT), Rachel Nesburg (DPT), Gretchen Zirgaitis (DPT), Hannah Barbosa (Nursing Undergrad), Rachel Nwia (Nursing Undergrad), Maryann Jimenez (Nursing Undergrad)

Project Aims: The purpose of the study is to determine whether male and female COVID-19 survivors experience long-term deficits in respiratory function, muscle function, and psychological health compared to healthy controls. The study aims to assess respiratory function, cardiovascular function, pain perception, psychological health, and physical activity levels. The qualitative arm of this study will consider how peoples' lives have been impacted by COVID-19 including strengths, challenges/ deficits, and unmet needs.

Funding: Institute for Women's Leadership ($12,300), Clinical Translational Science Institute Ensemble award ($35,000).

Presentations/Publications: 3 COVID-19 Lightning Talks, 2 Summer Research Project Posters, 1 McNair Scholar Poster, 1 EXRS Master's Professional Project Presentation, 2 EXRS Summer Research Day Presentation, and 5 additional national conference presentations (American College of Sports Medicine Annual Meeting, San Diego, CA, May 2022). There are multiple publications in preparation.

E. LESSONS LEARNED AND NEXT STEPS

1. Why successful and what were some outcomes?

   a. **Gaps and Solidarity**: The pandemic affected everyone and almost every aspect of daily life with minimal understanding of the implications and long-term effects. Thus, significant knowledge and application gaps were created immediately that needed urgent yet sustained attention. The 'collective suffering' of many created a solidarity and commitment that were needed for success of this initiative and a sustained commitment.

   b. **Research became compressed into real time with urgency and flexibility: it grew organically and quickly.** The problems that were exposed during the pandemic needed to be addressed in real time and urgently, yet with few templates to follow. Consequently, research solutions grew organically and forced new innovative ways of accomplishing research and collaborating in a virtual space across many disciplines.

   c. **Time and space in schedules were naturally created** for some faculty, staff, and students with the stay-at-home orders and redirected to research efforts.

   d. **Strong and committed multidisciplinary and cross-campus collaborations and partnerships** were created that did not previously exist.

   e. **Virtual gathering spaces** (townhalls, lightning talks, online portal) were important for initial connections, collaborations, exposure/development of ideas and formation of teams.

   f. **Students** were a vital part of the research productivity. Many student opportunities for learning and application were created. Students engaged when provided with pathways such as research programs and commentaries. Summer undergraduate research programs that had shut down due to the pending created an available workforce of students who were open to new and virtual ways of doing research.

   g. **Research productivity occurred because there was some space and structure provided.** The COVID-19 Research Initiative provided Townhalls, Lightning Talks and an online portal for connections.

   h. **Research communication expanded and diversified:** We mobilized new ways of growing research, delivering, and communicating new projects, findings, and outcomes beyond publications to more real time and cross-disciplinary podcasts and blog-like commentaries that engaged students and faculty across many colleges in real time as the research was unfolding.

   i. **Multidisciplinary Leadership Team** – the COVID-19 leadership team (including the Steering Committee) were from many different colleges including Health Sciences, Law, Arts and Sciences, Education, Dentistry, and various offices. Thus, there was investment from across the university in a collective research outcome and the communications at steering committee meetings and virtual townhalls and lightning talks provided fertile ground for collaborative research endeavors to address the urgent and the emerging issues that needed to be addressed.

   j. **A dedicated leadership team** (Steering Committee and core groups such as tracking teams, organizational support staff) did the programming, publicity, and organizing programs. This support was essential to the success of the virtual meetings (Townhalls and Lightning talks).

k. **Integration of support staff** (OMC, website development) into the initiative was paramount. Much of the behind-the-scenes work including organization of the Townhalls, Lightning Talks, website and online portal was accomplished by the Research and Innovation and AHPRC staff.

l. **Small financial investments** can reap large rewards and productivity: e.g., COVID Conversations.

m. **Public-facing initiatives needed for broader engagement and investment**: e.g., the Lightning Talks drew the attention of the Alumni Association/BeyondMU, allowing connection between Marquette researchers and this important external audience of life-long learners.

n. **Investment of Funds:** The President's Challenge channeled collaborative research opportunities.

o. **This initiative was for a fixed time,** but the collaborations and teams continue to be productive and evolve.

2. Opportunities for the Future / What Could Be Done Better?

a. **Relevant and significant initiatives** in the future need broad and societal impact. There are many urgent and pressing societal problems. The COVID-19 pandemic, however, was unique in the timing of the problem that amplified the effects. The pressing problem was urgent and compressed because all of society was affected immediately and with large knowledge gaps on how to address the problems. The COVID-19 Research Initiative illustrates that societal issues can be addressed in university initiatives.

b. **Funding and Dedicated University Resources:** Investment of internal funds and resources will jump start collaborative and long-lasting efforts.

c. **Supportive Internal Institutional Structure and Leadership:** While enduring collaborations are typically grassroots, there needs to be supportive internal structures and compensated leadership from across colleges driving future initiatives.

d. **Research faculty leadership training** is a next step is to provide capacity and competency for future research initiatives.

e. **A Fixed Time Initiative:** Initiatives and support can be established for a fixed time.

f. **Tracking of productivity, activities and people** is needed to understand successes and losses.

APPENDICES

1. DESIRED OUTCOMES (ESTABLISHED - APRIL 2020)

1. Interdisciplinary collaborations and research studies
2. New knowledge and applications
3. Publications
4. Grant applications to external agencies and subsequent funding
5. Research blogs, podcasts and webinars by faculty and students
6. Research seminar series offered by faculty on COVID-19 - related issues
7. Dynamic website to centralize and streamline communication of the details of the initiative, host blogs, podcasts, webinars and promote the outcomes of the research
8. High-impact educational experiences through research and teaching for graduate and undergraduate students
9. Graduate and undergraduate classes/seminars: education on the research and consequences of Covid-19 and emerging diseases in a changing world
10. External and corporate partnerships in the local and broader community

2. STEERING COMMITTEE

Steering Committee Members of the Marquette COVID-19 Research Initiative

Sandra Hunter, Committee Chair (AHPRC, Exercise Science, Physical Therapy, College of Health Sciences)
Dan Bergen (Office of Economic Engagement)
Edward Blumenthal (College of Arts & Sciences)
Andrew Dentino (School of Dentistry)
Kimberlee A. Gretebeck (College of Nursing)
Michael Haischer (AHPRC, and Graduate Student Rep)
Krassimira Hristova (Dept of Biological Sciences, College of Arts and Sciences)
Lezlie Knox (Dept. of History, College of Arts and Sciences)
Khadijah Makky (Dept. of Biomedical Sciences, College of Health Sciences)
John Mantsch (Dept. of Biomedical Sciences, College of Health Sciences)
Sameena Mulla (Dept. of Social and Cultural Science, College of Arts and Sciences)
Paula Papanek (Exercise Science, Dept. of Physical Therapy, College of Health Sciences)
Andrea Schneider (Law School)
Lucas Torres (Dept. of Psychology, College of Arts and Sciences)
Toni Uhrich (Exercise Science, Dept. of Physical Therapy, College of Health Sciences)
Leigh Vandenkieboom (Dept. of Educational Policy, College of Education)
Amy Van Hecke (Dept of Psychology, College of Arts and Sciences)
Kalpa Vithalani (Office of Economic Engagement)
Gretchen Zirgaitis (Undergraduate student rep, ExPH, College of Health Sciences)

Office of Research and Innovation Support

Melody Baker
Kat McConnell

Office of Marketing and Communication Support

Kevin Conway
Tracy Staedter

3. PUBLICATIONS AND PRESENTATIONS

Below is a representation of some but not all the publications and external presentations on COVID-19 related research by Marquette faculty, students and staff between April 2020 and September 2021.

- College of Communication

Deng T, **Ekachai D, Pokrywczynski J.** (2020). Global COVID-19 advertisements: Use of informational, transformational, and narrative advertising strategies. *Health Commun*: 1-9. https://doi.org/10.1080/10410236.2020.1859725

- College of Education

Anderson CA, **Jones WD**, Hergenrather K. (2021). Empowering community voices: The influences of consumer race, disability, and poverty on public vocational rehabilitation service engagement. *Journal of Rehabilitation*, 87(1), 40-47.

Anderson C, **Jones WD**, Hergenrather K. (2021, July). *Empowering community voices: The influences of consumer race, disability, and poverty on public vocational rehabilitation service engagement.* [Conference Session]. National Council on Rehabilitation Education Conference, Virtual.

Clayton-Jones D, **Haglund K*, Ong L, Jones W**, Beltran E, Field J. (2021, August). *Promoting group self-management strategies during COVID-19 for young adults living with sickle cell disease.* [Conference Session]. National Black Nurses Association Conference, Virtual. ***College of Nursing**

Edwards LM, Loyo K, Faytol A, Goertz M, **McConnell K**, Turnbow I, Camarillo J, Kudick O. (2021, April). *Well-Being in Pregnant Latina Mothers during COVID-19*. Poster presented at the Midwestern Psychological Association Conference, Virtual Conference.

Velez G, Hahn M, Troyer B. (in press). Making Meaning of COVID-19: US Adolescent Experiences and Development Amid the Pandemic. *Translational Issues in Psychological Science*.

Velez G. Adolescent Meaning Making: Processing What Covid-19 Means for Sense Of Self, Place In Society, And Future Trajectory. (self-published)

Velez G. "Educating for Peace During COVID-19: Challenges and Lessons," as part of "One Future Direction of Global Psychology: Conflict Prevention and Resolution, and Peacebuilding". Presidential Roundtable Discussion. APA Annual Conference. Virtual Format.

Velez G. "Coming of Age in the Age of COVID-19: Adolescents' Perspectives on the Pandemic's Impacts on Their Lives". Nativity Miguel Coalition National Conference.

Velez G. "COVID-19 and Youth: Understanding and Supporting their Development amid a Pandemic". Jesuit Schools Network/Arrupe Virtual Learning Institute; Regis High School; St. Ignatius Prep and Jesuit Portland High School.

- College of Health Sciences

Haischer MH, Beilfuss R, Hart MR, Opielinski L, Wrucke D, Zirgaitis G, Uhrich TD, & Hunter SK. (2020). Who is wearing a mask? Gender-, age-, and location-related differences during the COVID-19 pandemic. *PLoS ONE*, 15(10): e0240785. https://doi.org/10.1371/journal.pone.0240785

- College of Arts and Sciences

Hargittai, E., Redmiles, E. M., Vitak, J., & **Zimmer, M**. (2020). Americans' willingness to adopt a COVID-19 tracking app. *First Monday*, *25*(11). https://doi.org/10.5210/fm.v25i11.11095

Vitak J, **Zimmer M.** (2020). More than just privacy: Using contextual integrity to evaluate the long-term risks from COVID-19 surveillance technologies. *Soc Media Soc*, 6(3): 1-4. https://doi.org/10.1177%2F2056305120948250

Rocco P, Rich JAJ, Klasa K, Dubin KA, Beland D. (2021). Who counts where? COVID-19 surveillance in federal countries. *J Health Polit Policy Law*: 9349114. https://doi.org/10.1215/03616878-9349114

Stanley R, George A, Van Hecke A. (2021). "Listen, I've Been Thriving" Vs. "This Is the Worst I've Ever Felt!": An Exploratory Study of Autistic Experiences with In-Person and Online Social Interaction during the COVID-19 Pandemic. Invited paper presentation to the International Society on Autism Research (INSAR) annual meeting, Virtual, May 3-7.

- College of Engineering

Katul GG, Mrad A, Bonetti S, Manoli G, **Parolari AJ.** (2020). Global convergence of COVID-19 basic reproduction number and estimation from early-time SIR dynamics. *PLoS ONE,* 15(9): e0239800. https://doi.org/10.1371/journal.pone.0239800

Marani M, Katul GG, Pan W, **Parolari AJ.** (In press). Intensity and frequency of extreme novel epidemics. *Proc Nat Acad Sci.*

4. MEDIA AND PUBLICITY

- Take a Walk in the Park Day: Dr. Hunter gives tips on exercise during time of quarantine and social distancing.
- Tips for Wearing a Mask While Exercising - AHPRC director, Dr. Sandra Hunter, makes an appearance on Milwaukee's WUWM radio station to give tips for exercising while wearing a mask (8/4/2020).
- Who is wearing a mask? - Dr. Sandra Hunter and Mike Haischer make an appearance on NPR to talk about their research in mask-wearing in Wisconsin (9/28/2020)
- So why does the city think wearing face masks outside could help with COVID-19? Denverite, Sandra Hunter was cited for her study on face masks, which suggests Wisconsin women and urban and suburban residents are more likely to wear face coverings. (10/21/20)
- Study finds mask mandates result in compliance Joplin Globe; Sandra Hunter discussed her team's observational study on face masks as it relates to a similar study in Joplin, Missouri. (11/28/20)
- Man who was Milwaukee County's 1st COVID case part of MU long haul study – FOX6 News feature on the long-haul COVID research happening at the AHPRC (3/9/2021)
- Vaccinated era is near, but not without continued virus safety – Mike Haischer (AHPRC, EXRS) discussed the results of the "Who is wearing a mask?" study in the context of the vaccine rollout (4/21/2021)
- Marquette in Milwaukee podcast – Mike Haischer (AHPRC, EXRS) joins President Lovell and others to discuss Marquette's community efforts during the pandemic.
- Marquette researchers looking for more long-haul COVID-19 survivors WTMJ-TV (NBC 4) Sandra Hunter and Marie Bement discussed research they are conducting on COVID-19 survivors to determine the long-term effects of the virus, as well as how the research team is in search of more survivors to participate in the study. (7/28/21)