Table 1: Molecular and Metagenomic Testing of Persons Under Investigation

	SARS-CoV-2 RT-PCR negative PUIs (N=30)	SARS-CoV-2 RT-PCR positive PUIs (N=23)
PUIs with molecular testing for non-SARS- CoV-2 respiratory viruses	28 (93%)	15 (58%)
Flu/RSV PCR	22 (73%)	12 (46%)
Multiplex Respiratory Pathogen PCR†	24 (8%)	14 (54%)
PUIs with alternative and co-infecting viruses detected by both routine methods and mNGS	8 (29%)	0 (0%)
Specific viruses detected by both routine methods and mNGS	Influenza A (N=3), Human metapneumovirus (N=2), Human coronavirus OC43 (N=2), Human coronavirus HKU1(N=1)	n/a
PUIs with additional viruses detected by mNGS alone	3 (14%)	0 (0%)
Specific viruses detected by mNGS alone	Respiratory syncytial virus (N=1), Human metapneumovirus (N=1), Human coronavirus NL63 (N=1)	n/a
PUIs with SARS-CoV-2 detected by mNGS	0 (0%)	23 (100%)

N (%) unless otherwise states

Abbreviations: mNGS: metagenomic sequencing, PCR: polymerase chain reaction, RT-PCR: reverse-transcriptase PCR, SARS-CoV-2: severe acute respiratory synderome-coronavirus-2

† Multiplex respiratory panels included eSensor® Respiratory Viral Panel (GenMark Diagnostics, Inc., Carlsbad, CA) and BioFire® FilmArray® Respiratory and Pneumonia panels (BioFire Diagnostics, LLC, Salt Lake City, UT)

Conclusion: Unbiased mNGS offers the powerful opportunity to streamline testing for PUIs by assessing for SARS-CoV-2 and alternative infections simultaneously; this technique can also be used to identify co-infections, but none were observed in our study population. Interestingly, many PUIs had no infection identified on routine testing or mNGS, which may reflect inadequate sampling, rapid virus clearance, or a non-viral process.

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## 65. Vaccine Confidence, COVID19, and the Influence of Peer Networks

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Session: O-13. COVID-19 Epidemiology + Prevention

Background: An increased appreciation for vaccines could be expected due to COVID-19. However, surveys show a polarization in opinions with about 20% of Americans preemptively rejecting any COVID-19 vaccine, partly due to inconsistent risk communication. While Health Care Professionals (HCPs) will be heavily relied upon to encourage uptake of a COVID-19 vaccine and 70% of Americans receive their vaccine information from HCPs, 84% also rely on peer networks. Understanding that HCPs have an important, but not exclusive, influence on health decision making can signal a new approach. This study provides data on where women, the main decision-makers regarding immunization in most families access information about vaccination.

*Methods:* Through an online survey conducted in UK, Brazil, Germany, Italy and Canada from 10 to 19-March 2020, we collected data on where, and from whom, women aged 25–54 years access information about vaccination. We set 1000 respondents/country quotas to reflect regional differences with data weighted as necessary.

Results: 5,036 women who met inclusion criteria responded: from the UK (1,003), Brazil (1,002), Germany (1,008), Italy (1,007), and Canada (1,016). Though most likely to receive vaccination info via their HCP: in Germany, women are likely to be influenced by HCPs, with those aged 25–34 years more likely to turn to family members or online sources; in the UK, they are more likely to find info via a health authority's website; and in Brazil, they are more likely to see info in traditional media and on Facebook. Only 50% ranked vaccine efficacy and disease risk in the Top 5 factors influencing their vaccine decisions, alongside the opinion of an HCP, recommendation of a Public Health Authority and impact of the disease.

Conclusion: HCPs, families and peers are important sources of info regarding vaccination. COVID-19 is unlikely to improve vaccine confidence as the issue becomes increasingly polarized and communications more inconsistent. We can respond by investing in health promotion and harmonized communications through peer networks. Since caregivers, their families and peers have increased weight in vaccination decisions, then they should have increased weight in preventive health strategies.

**Disclosures:** Ivo Vojtek, PharmD, PhD, MSc, FRSM, RPh, GSK Vaccines (Employee, Shareholder) Vanessa Palsenbarg, MA, GSK Vaccines (Employee, Shareholder) Joe Smyser, PhD, Public Good Project (Board Member, Employee)

## 66. What Worked (And Didn't Work): A Survey of COVID-19 Response in Michigan Nursing Homes in the Midst of the Pandemic

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**Background:** Nursing home (NH) populations are at higher risk for morbidity and mortality due to COVID-19. A March 2020 NH survey indicated improvements in pandemic planning when compared to a similar survey in 2007. We surveyed NHs to evaluate how well pandemic preparedness plans and infection prevention strategies met the reality of COVID-19.

*Methods:* The first COVID-19 case in Michigan was reported March 10, 2020. In the setting of 46,088 cases and 4,327 deaths statewide as of May 1, we disseminated an online survey to state department-registered NHs to describe their experience of the initial pandemic wave. Responses were collected May 1–12, during which the state averaged 585 cases/day. We were particularly interested in NH preparedness, challenges, testing capacity, and adaptations made.

Results: Of 452 NHs contacted, 145 opened the survey and 143 (32%) responded. A majority (68%) indicated that their facility's pandemic response plan addressed > 90% of issues they experienced; 29% reported their plan addressed most but not all anticipated concerns (Table 1). As the pandemic evolved, all facilities (100%) provided additional staff education on proper personal protective equipment (PPE) use. 66% reported experiencing shortages of PPE and other supplies. Half of all facilities (50%) lacked sufficient resources to test asymptomatic residents or staff; only 36% were able to test all residents and staff with suspected COVID-19 infection. Half (52%) considered their communication regarding COVID-19 with nearby hospitals "very good." The majority of facilities (55%) experienced staffing shortages, often relying on remaining staff to work additional hours and/or contracted staff to fill deficits (Table 2). NH staff resignations increased, with 63% of NHs experiencing resignations; staff with greater bedside contact were more likely to leave, including nurses and nurse assistants.

Table 1. Preparation and Resources Dedicated to COVID-19 in Michigan Nursing  Question	N (%)
Question How well has your facility's Pandemic Response Plan for COVID-19 addressed ac	
Very well; plan addressed > 90% of issues	94/139 (67.6%)
Fair; plan addressed most but not all issues	40/139 (28.8%)
Not very well; plan addressed < 50% of issues	2/139 (1.4%)
Not applicable; we did not have a Pandemic Response Plan for COVID-19	3/139 (1.4%)
For residents and staff with suspected COVID-19 infection: Does your facility	3/139 (2.2%)
have resources for adequate testing?	40 (405 (05 00))
Yes, we can test residents, direct-care and administrative staff with	49/136 (36.0%)
symptoms	7/425/5 20/1
Yes, we can test residents and direct-care staff with symptoms	7/136 (5.2%)
Yes, we can test residents with symptoms	58/136 (42.7%)
No, we cannot test at our facility	22/136 (16.2%)
Does your facility have resources (specimen collection/swabs, labs to perform te	ests) for surveillance
testing of all residents and/or staff including those without symptoms?	
Yes, we can do testing of all residents, direct-care and administrative staff	34/135 (25.2%)
without symptoms	
Yes, we can do testing of all residents and direct-care staff without	1/135 (0.7%)
symptoms	
Yes, we can do testing of residents without symptoms	33/135 (24.4%)
No, we don't have resources to test any asymptomatic residents or staff	67/135 (49.6%)
How well have your nearby hospitals communicated with your facility on COVID	
Communication is very good	71/136 (52.2%)
Communication is fair	47/136 (34.6%)
Communication is poor	18/136 (13.2%)
How well have state and local public health officials communicated with your fa	cility on COVID-19?
Communication is very good	99/136 (72.8%)
Communication is fair	34/136 (25.0%)
Communication is poor	3/136 (2.2%)
As the COVID-19 pandemic was evolving, were facility staff given additional edu	ication on PPE use?
Yes	139/139 (100.0%
No	0
Don't know	0
Has your facility experienced a shortage of any supplies?	
Yes	91/139 (65.5%)
No	48/139 (34.5%)
Which supplies ran low or out?	
N95 respirators	47/91 (51.7%)
Masks (surgical)	38/91 (41.8%)
Gowns	76/91 (83.5%)
Eye shields/goggles	18/91 (19.8%)
Gloves	15/91 (16.5%)
Alcohol-based sanitizer	54/91 (59.3%)
Other	10/91 (11.0%)

Question	N (%)
Has your facility experienced staffing shortages due to absences and illness	during the COVID-19 pandemic?
Yes	76/138 (55.1%)
No	62/138 (44.9%)
Who helped with staff shortages? (check all that apply)	
Volunteers from the community	1/76 (1.3%)
Non-clinical staff filled different roles	46/76 (60.5%)
Remaining staff volunteered to work extended hours	60/76 (79.0%)
Remaining staff mandated to work extended hours	36/76 (47.4%)
Agency/contracted staff	27/76 (35.5%)
We didn't get additional help	2/76 (2.6%)
Other	7/76 (9.2%)
Has your facility experienced increased loss of staff (resignations) in the mid	st of COVID-19?
Yes	87/138 (63.0%)
No	51/138 (37.0%)
Don't know	0
Which staff resigned?	
Physicians/Physician extenders	2/87 (2.3%)
Nurses (RN, LPN/LVN)	56/87 (64.4%)
Nurse assistants/CENAs	73/87 (83.9%)
Therapists (physical, occupational, speech)	4/87 (4.6%)
Housekeeping/environmental services	34/87 (39.1%)
Food service	35/87 (40.2%)
Administrative/clerical services	14/87 (16.1%)
Other	5/87 (5.8%)