The COVID-19 liquid gold rush: Critical perspectives of human milk and SARS-CoV-2 infection.
Breastfeeding and the provision of human milk are associated with positive maternal and infant health outcomes immediately postpartum, across the life course, and across generations (AAP, 2012; Victora et al., 2016). Over the last two decades, there have been groundbreaking advances in the areas of human milk science and infectious diseases (Colt et al., 2017; Foeller et al., 2020; WHO, 2016). In the wake of COVID-19, clinical case reports, retrospective and prospective studies, and systematic reviews related to perinatal maternal and child transmission of SARS-CoV-2 have been generated at an astonishing rate (Center for Humanitarian Health, 2020). Scientists around the world have united in a liquid gold rush to study human milk and COVID-19. But, to what end?

A majority of the studies have been designed to determine if SARS-CoV-2 can be transmitted to an infant via human milk (WHO, n.d.). Some scientists are investigating maternal immune response to SARS-CoV-2, particularly how milk bioactives may modulate vertical transmission or otherwise affect clinical presentation/disease trajectories of infants (Fox et al., 2020 preprint). Others are engaged in research to ascertain whether Holder pasteurization or other techniques may be used to maintain a safe supply of donor human milk (assuming SARS-CoV-2 is even in the milk). The quest for effective COVID-19 therapeutics raises questions about the possible excretion of drugs into milk, the relative risks of infant exposures to experimental drugs via milk, and the ethics of including pregnant and lactating people in clinical trials for COVID-19 medicines and vaccines.

It is not easy to conduct human milk research during a pandemic. Recent systematic reviews highlight a consistent lack of quality evidence, largely due to small sample size (Lackey et al., 2020; Martins-Filho, Santos, & Santos, 2020). Of the approximately 50 COVID-19+ individuals who have had their milk tested, with some individuals having donated multiple samples, scientists were only able to find viral RNA in a small percentage, and repeat samples from the same individuals did not consistently yield identification of viral RNA. Further, viral RNA does not mean that the milk has any infectious SARS-CoV-2 in it (Chambers et al., 2020 preprint). Collecting milk samples for these kinds of studies is also difficult, given high risk of samples becoming contaminated through droplets the air, skin, or surfaces and containers. Lackey et al. (2020) note there are major gaps in the published methodology, particularly detailing how the milk samples were collected and analyzed, making it difficult to rule out external contagion as the source of viral RNA. Further, viral RNA does not mean that the milk has any infectious SARS-CoV-2 in it (Chambers et al., 2020 preprint). Collecting milk samples for these kinds of studies is also difficult, given high risk of samples becoming contaminated through droplets the air, skin, or surfaces and containers. Lackey et al. (2020) note there are major gaps in the published methodology, particularly detailing how the milk samples were collected and analyzed, making it difficult to rule out external contagion as the source of viral RNA. Even so, they assert that methodological issues, such as matrix interference in the samples from the milk itself, rather than external sources of contamination probably explain the absence of detectable virus.

An even greater challenge is translating the limited and poor-quality evidence into global public health and clinical practice guidance, a process that is fraught with uncertainty. Because breastfeeding and human milk are so critical to maternal and infant health outcomes, especially during public health emergencies (Gribble, McGrath, MacLaine, & Lhotska, 2011; Gribble 2017, developing recommendations for infant feeding must rely on complex
decision-making in which the risks, benefits, and costs of available alternatives are weighed (Angood, 2017). Currently, the WHO states: “...that mothers with suspected or confirmed COVID-19 should be encouraged to initiate and continue breastfeeding. From the available evidence, mothers should be counselled that the benefits of breastfeeding substantially outweigh the potential risks of transmission.” (WHO, 2020, p. 42).

Nevertheless, clinical and laboratory-based COVID-19 studies are being used to cast suspicion on breastfeeding and the “quality” of human milk. For example, Wu et al., 2020 (p. 5) conclude that: “Our advice is against the use of breastfeeding even through breast expression; mothers with COVID-19 should not breastfeed until after full recovery, when breast milk tests negative for the virus.” Fan et al. (2020, p. 6): “In our cases, breastfeeding is discouraged even though we did not detect SARS-CoV-2 in consecutive breastmilk samples during follow-up.” Groß et al. (2020) suggest that more evidence is needed before health authorities can recommend “whether mothers with COVID-19 should breastfeed (Groß et al., 2020, p. 1758)” despite inconsistent evidence of SARS-CoV-2 RNA in multiple samples of one person’s milk. Even influential global health and healthcare authorities have put forth recommendations that contradict the WHO interim guidance for breastfeeding with COVID-19 infection (Tomori, Gribble, Palmquist, Verwers, & Gross, 2020). Unlike Ebola, there is no consistent evidence yet that infants who acquire SARS-CoV-2 infection will experience severe adverse outcomes, at least if they have access to responsive quality health care (Walker et al., 2020). When critical care is needed and healthcare resources are limited, breastfeeding confers immunological protection to help infants have best chances of survival (WHO, 2020). Given all that is known about passive immunity and the evolutionary significance of human lactation in newborn adaptation to novel infections, and knowing the importance of breastfeeding in emergencies, how do we parse studies that portray breastfeeding and human milk as expendable during this pandemic?

Breastfeeding has long been at the center of infant feeding controversies that are deeply rooted in ideologies about mothers being intrinsically, biologically, a danger to their infants (Hausman, 2011; López, 2019; Palmquist, 2017; Palmquist, 2020; Tomori, 2015; Tomori, Palmquist, & Dowling, 2016). As illustrated above, much of human milk science remains firmly grounded in these ideologies and, wittingly or not, reproduces them. The fact is that simply isolating virus in human milk neither leads to more straightforward infant feeding recommendations (Tomori et al., 2020) nor does it necessarily lead to the desired behavioral outcomes (Tuthill, Tomori, Natta, & Coleman, 2019; Van Hollen, 2011).

The consequences of promoting breastfeeding cessation among infants at risk of perinatal HIV are instructive for COVID-19. By the mid-1980s human immunodeficiency virus (HIV) had become global pandemic. The initial WHO guidance recommended that breastfeeding continue, particularly in places where lack of access to clean water and a sustainable supply of infant formula would increase the risks of infant death due to diarrheal disease, acute respiratory infections, and malnutrition (WHO 1987). Early clinical studies estimated that the risk of transmission during breastfeeding was 29% to 36%, but that this risk was relative to both the severity and timing of maternal infection (Nduati & John, 1995). In response to a growing number of perinatal HIV cases in Botswana, the Ministry of Health (MoH) implemented a large-scale formula feeding program to prevent HIV transmission through breastfeeding. Safeguards were implemented to offset the risks of formula feeding, such as ensuring caregivers had access to clean water, formula distribution in community clinics, and counseling about safer formula preparation and feeding.

The effects of replacement feeding were not as expected, however. A large randomized control trial for perinatal HIV showed no net benefit of formula feeding in infant morbidity or mortality at 18 months (Thior et al., 2006). Moreover, the unintended consequences of this intervention were cast into sharp relief after a massive flooding event in 2006 where nearly all hospital admissions and deaths were among formula fed infants (Arvelo et al., 2010; Creek et al., 2010; Mach et al., 2009). This dual public health catastrophe raised serious concerns about the relative ethics and safety of replacement feeding for HIV, as well as the need for comprehensive policies, guidance, and programming for infant feeding in emergencies (Angood, 2017). Today, the WHO (2016) recommends that HIV-positive mothers continue to exclusively breastfeed for the first 6 months, along with combined anti-retroviral therapy (cART) whenever available, especially in areas where formula feeding is not acceptable, feasible, affordable, sustainable, and safe.

Experts have argued more recently that failing to support informed decision-making for breastfeeding in the context of HIV infection, particularly in the U.S. where high-quality HIV testing and cART are readily available, is unethical (Gross, Taylor, Tomori, & Coleman, 2019).

With this said, there tends to be a group of scientists and healthcare professionals that generally operate as if their work is neither political nor biased. Yet, anthropologists and others have produced decades of scholarship describing how science and biomedicine are inherently political and biased (Benton, 2016; Franklin, 1995; Hahn &
Kleinman, 1983; Hardeman, Murphy, Karbeah, & Kozhimannil, 2018; Lock & Nguyen 2010; Martin, 2016; Rhodes, 1990; Sangaramoorthy, 2014; Skloot, 2011; Tallbear, 2013; Wilce Jr., 2003). Black, Indigenous, People of Color (BIPOC) scholars of have also drawn critical attention to how racism and anti-Blackness in science and medicine have been weaponized over centuries to maintain white supremacy through reproductive harm (Bridges, 2011; Davis-Floyd, Gutschow, & Schwartz, 2020; McLemore et al., 2019; Mullings & Wali, 2001; Owens & Fett, 2019; Roberts, 2011; Torres, 2019). COVID-19 has only amplified these biases (Hall et al., 2020), and there is mounting evidence that the science used to support perinatal separation policies for COVID-19, including strongly advising against breastfeeding or provision of human milk with SARS-CoV-2 infection (Tomori et al., 2020) are disproportionately harming BIPOC (Allers, 2020; Davis-Floyd et al., 2020; Furlow, 2020a, 2020b; Thayer this issue). Unequivocal recommendations to disrupt lactation due to COVID-19 reveal a blatant disregard of the potential harms that hang in the balance for parents and infants. It reflects a willingness to make infant feeding recommendations uncritically, ahistorically, and without regard for the basic human right to informed-decision making and patient-centered care (Tomori et al., 2020).

The largest geographic concentration of human milk laboratories and scientific training centers for human milk research are located in North America. Disparities in COVID-19 cases in the U.S. and Canada provide a stark reminder of how racism, colonialism, xenophobia, and all the related structural inequities, which are also embedded in science and medicine, disproportionately harm BIPOC (Hooper, Nápoles, & Pérez-Stable, 2020; Poteat, Millett, Nelson, & Beyrer, 2020; van Dorn, Cooney, & Sabin, 2020). Human milk scientists studying SARS-CoV-2 must reckon with the limitations and unintended, yet predictable, consequences of extractive clinical and laboratory-based studies that do not adequately account for context, power and privilege, racism, colonialism, or nuance in designing human milk studies and interpreting scientific data. The politics that permeate scientific studies of human milk are made visible by interrogating fundamental assumptions driving the research questions, study methodologies, (in) consistencies in interpretation of findings across the literature, and lack of diversity, equity, and inclusion among the study participants and within investigator teams. Like other science, technology, and engineering fields, the field of human milk research is characterized by inequitable access to capital, resources, laboratory space, institutional infrastructures, to educational and training opportunities, and most importantly, access to human milk. There are serious racial disparities in access, power, and privilege that continue to drive human milk research across this global and interdisciplinary field, which is in many cases is extractive, mired in financial conflicts of interest, and largely disengaged from conversations regarding broader political economic contexts of the work. When the scientific teams of clinical research studies do not include BIPOC as principal investigators, fail to engage in ethical, community-centered, co-creation of biobanks and research studies, and do not articulate a commitment to racial equity in the research enterprises, they risk simply reproducing harmful, and deeply racist scientific enterprises. Anti-racist, decolonized methodologies and ethical funding streams are needed in this work (McLemore et al., 2019; Scott, Bray, & McLemore, 2020).

Perhaps one of the most critical perspectives that anthropology and other disciplines can offer is that studying human milk outside of human lived experiences is not only extremely limited, it is potentially harmful. Anthropologists have long studied both endemic and emergent infectious diseases as one way of understanding the confluence of ecological, biological, and sociocultural factors that have shaped human evolutionary history, biological variation, and contemporary disease patterns (Inhorn &

**TABLE 1** Key points for studying human milk in the context of COVID

| Number | Key Point |
|--------|----------|
| 1 | Breastfeeding and human milk are critical to maternal and infant health outcomes, especially during public health emergencies; recommendations for infant feeding must rely on complex decision-making in which the risks, benefits, and costs of available alternatives are weighed. |
| 2 | Of the COVID-19+ individuals who had milk tested, viral RNA was only detected in a small percentage, and repeat samples from the same individuals did not consistently yield identification of viral RNA; there is no evidence that this RNA is infectious. |
| 3 | There is considerable evidence that the science used to support perinatal separation policies for COVID-19, including strongly advising against breastfeeding or provision of human milk with SARS-CoV-2 infection are disproportionately harming BIPOC. |
| 4 | Structural racism directly and indirectly perpetuates problematic cultural ideologies about the risks of breastfeeding and human milk, leading to obstetric violence and harm among Black, Indigenous, and People of Color families during the COVID-19 pandemic. |
| 5 | Human ecological studies of human milk, in which human milk studies are co-created with the people whose milk is under investigation and where study findings are interpreted in the context of human lived experiences, offer conceptual and methodological alternatives to more extractive, reductionistic, and racist scientific approaches. |
AUTHOR CONTRIBUTIONS

Aunchalee Palmquist: Conceptualization; project administration; writing-original draft; writing-review and editing. Ifeyinwa Asiodu: Conceptualization; writing-review and editing. Elizabeth Quinn: Conceptualization; project administration; writing-original draft; writing-review and editing.

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