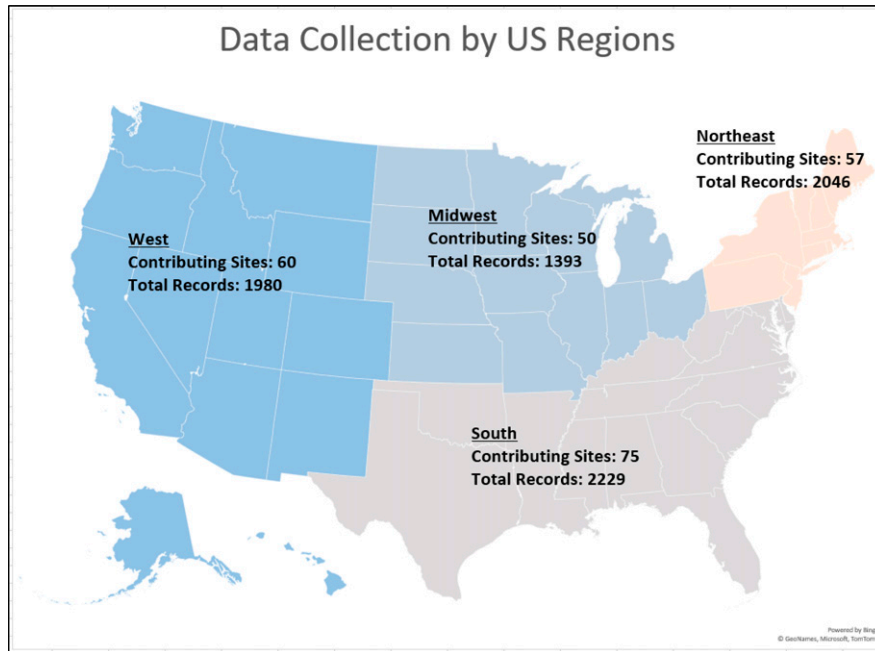


Supplemental Information



SUPPLEMENTAL FIGURE 3

Distribution of Centers Contributing to the American Academy of Pediatrics Perinatal COVID-19 Registry ($N = 242$), United States, April 6, 2020 to March 19, 2021, by United States Census Region.

SUPPLEMENTAL TABLE 4 American Academy of Pediatrics Perinatal COVID-19 Registry, United States, April 6, 2020 to March 19, 2021 Participant Centers and Investigators

Center	City	State	Investigators
Arkansas Children's Hospital	Little Rock	AR	Richard Whit Hall, Dalton Janssen
St Bernard's Medical Center	Jonesboro	AR	Enrique Gomez, Hailey McNew, Christal Steen, Evguenia Cole, Brenda Graff
University of Arkansas for Medical Science Medical Center	Little Rock	AR	Richard Whit Hall, Dalton Janssen
Banner Desert Medical Center and Cardon Children's Medical Center	Mesa	AZ	Suma Rao, Christina Wade, Mark Baker, Becky Micetic
Banner University Medical Center Phoenix	Phoenix	AZ	Suganya Kathiravan, Christine Wade
Children's Hospital of California	Orange	CA	Michel Mikhael, Ofelia Vargas-Shiraishi, Juliann Rosales
Good Samaritan Hospital	San Jose	CA	Pui Y. Lai, Rupal Patel, Loc Le, Tung-Ho Wang
Hoag Memorial Hospital Presbyterian	Newport Beach	CA	Sophia Jones, Gazelle Bahramianfard
John Muir Medical Center	Walnut Creek	CA	Stacie Bennett
Kaiser Permanente Deer Valley	Antioch	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Fresno	Fresno	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Modesto Medical Center	Modesto	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Oakland Medical Center	Oakland	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Redwood City	Redwood City	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Roseville Medical Center	Roseville	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente San Francisco Medical Center	San Francisco	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente San Jose Medical Center	San Jose	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente San Leandro Medical Center	San Leandro	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Santa Clara Medical Center	Santa Clara	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Santa Rosa Medical Center	Santa Rosa	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente South Sacramento Medical Center	Sacramento	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Vacaville Medical Center	Vacaville	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Vallejo Medical Center	Vallejo	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
Kaiser Permanente Walnut Creek Medical Center	Walnut Creek	CA	Michael Kuzniewicz, Allen Fischer, Eileen Walsh, Suyi Zhu, Brigid Acuna
LAC+USC Medical Center	Los Angeles	CA	Molly Easterlin, Manoj Biniwale, Lorayne Barton
PIH Health Good Samaritan Hospital	Los Angeles	CA	Manoj Biniwale, Rangasamy Ramanathan
PIH Health Whittier Hospital	Whittier	CA	Liesbeth Maggiotto, Devang Patel, Fred Shum, Lisa Batistelli
Pomona Valley Hospital Medical Center	Pomona	CA	Wang-Dar Sun, Hellen Rodriguez, Kenna Schnaar
Rady Children's Hospital	San Diego	CA	Laurel Moyer, Sarah Lazar, Jordan Bui, Melanie Crabtree
Santa Clara Valley Medical Center	San Jose	CA	Priya Jegatheesan, Angela Huang
St Francis Medical Center	Lynwood	CA	Kamakshi Devarajan, Valerie Colorado, Edna Mancao
St Joseph Hospital	Orange	CA	Renuka Kar, Maria Ransil, Cynthia Morton
St Jude Medical Center	Fullerton	CA	Lavonne Sheng, Terry Zeilinger
UC Irvine Medical Center	Orange	CA	Cherry Uy, Pam Aron-Johnson
UC San Diego Health	San Diego	CA	Ericka Fernandez, Sarah Lazar, Jordan Bui, Melanie Crabtree, Sabrina Fossi
UCSF Benioff Children's Hospital Oakland	Oakland	CA	Arthur D'Harlingue
Denver Health and Hospital Authority	Denver	CO	Patricia Hagen, Rachel Pena
Good Samaritan Medical Center	Lafayette	CO	Michelle Feinberg, Laura Celvenger, Kelly Allen
Lutheran Medical Center	Wheat Ridge	CO	Erica Wymore, Colleen Wheeler, Kelly Allen
Platte Valley Medical Center	Brighton	CO	Sadie Houin, Erin Jones, Kelly Allen
Saint Joseph Hospital	Denver	CO	Alfonso Pantoja, Corrie Alonzo, Allie Wildenstein, Kelly Allen

SUPPLEMENTAL TABLE 4 Continued

Center	City	State	Investigators
UC Health Greeley Hospital	Greeley	CO	Clyde Wright, Jessica Scott, Mary Pugh
UC Health Medical Center of the Rockies Trauma Center	Loveland	CO	Clyde Wright, Jessica Scott, Sue Townsend
UC Health Memorial Center	Colorado Springs	CO	Clyde Wright, Jessica Scott, Sue Townsend
UC Health Memorial Hospital North	Colorado Springs	CO	Clyde Wright, Jessica Scott, Lauren Beard
UCHealth Highlands Ranch Hospital	Highlands	CO	Clyde Wright, Jessica Scott, Wendy Barrett
UCHealth Poudre Valley Hospital	Fort Collins	CO	Clyde Wright, Jessica Scott, Jeanne Zenge
UCHealth Yampa Valley Medical Center	Steamboat Springs	CO	Clyde Wright, Jessica Scott, Kathleen Hannan
University of Colorado Hospital	Aurora	CO	Clyde Wright, Jessica Scott, Kathleen Hannan
Bridgeport Hospital	Bridgeport	CT	Catherine Buck, Christine Henry, Taryn Zamary
Connecticut Children's Medical Center	Hartford	CT	Annmarie Golioto, Nancy Cyr
Greenwich Hospital	Greenwich	CT	Catherine Buck, Christine Henry, Taryn Zamary
Hartford Hospital	Hartford	CT	Sandra Motta, Jessie Mangs
Hospital of Central Connecticut	New Britain	CT	Juliann Sheehan
Lawrence and Memorial Hospital	New London	CT	Catherine Buck, Christine Henry, Taryn Zamary
Middlesex Health	Middletown	CT	Cliff O'Callahan, Laura Pittari
Yale New Haven Hospital	New Haven	CT	Catherine Buck, Christine Henry, Taryn Zamary.
Children's National Hospital	Washington	D.C.	Lamia Soghier, Sofia Perazzo, Smitha Israel
George Washington University Hospital	Washington	D.C.	Ashley Sherwood
Medstar Georgetown University Hospital	Washington	D.C.	Siva Subramanian, Tiffany Spriggs
MedStar Washington Hospital Center	Washington	D.C.	Siva Subramanian, Tiffany Spriggs
Wilmington Hospital – ChristianaCare	Wilmington	DE	Ursula Guillen, Amy Mackley
Golisano Children's Hospital of Southwest FL	Fort Myers	FL	William Liu
Holtz Children's at Jackson Memorial Hospital	Miami	FL	Shahnaz Duara, Ana Cecilia Aguilar, Silvia Van Buskirk, Jan Mitchell
Mease Countryside Hospital	Safety Harbor	FL	Jenelle Ferry, Whitney Eldridge
Morton Plant Hospital	Clearwater	FL	Jenelle Ferry, Whitney Eldridge
St Joseph's Hospital	Tampa	FL	Jenelle Ferry, Whitney Eldridge
St Joseph's Women's Hospital	Tampa	FL	Jenelle Ferry, Whitney Eldridge
Tampa General Hospital – USF	Tampa	FL	Tara M. Randis, Marcia Kneusel
UF Health Jacksonville	Jacksonville	FL	Josef Cortez, Ashley Maddox
UF Health Shands Gainesville	Gainesville	FL	David Burchfield, Livia Sura
Winnie Palmer Hospital for Women and Babies	Orlando	FL	Rachel Prete, Cindy Tinder
Wolfson Children's Hospital	Jacksonville	FL	Colby Day-Richardson, Ashley Maddox
Emory Decatur Hospital	Decatur	GA	Michelle Pratt, Yvonne Loggins
Emory Johns Creek Hospital	Johns Creek	GA	Lisa Martin, Yvonne Loggins
Emory University Hospital Midtown	Atlanta	GA	Ravi Patel, Deepa Ranganathan, Yvonne Loggins, Colleen Mackie
Grady Memorial Hospital	Atlanta	GA	Ravi Patel, Yvonne Loggins, Colleen Mackie
Northeast Georgia Medical Center	Gainesville	GA	Bridgette Schulman, Aubrey Williams
Northside Hospital Atlanta	Atlanta	GA	Mike Hinkes, Katrina Grier, Janna Benston
St Joseph/Candler Hospital	Hinesville	GA	Joseph McLean, Meredith Scaccia
Wellstar Spalding Regional Hospital	Griffin	GA	Jessica Daigle
Kapi'olani Medical Center for Women and Children	Honolulu	HI	Sheree Kuo, Micah Tong
Tripler Army Medical Center	Honolulu	HI	Alicia Prescott, Lauren Staiger, William Sherman
University of Iowa Stead Family Medical Center	Iowa City	IA	Timothy Elgin, Karen Johnson
St Luke's Health System	Boise	ID	Jennifer Merchant, Nichele Parks
Ann and Robert Lurie Children's Hospital of Chicago	Chicago	IL	Kerri Machut, Leena Mithal, Molly Schau
NorthShore University Health System	Evanston	IL	William Mackendrick, Sue Wolf
Northwestern Medicine Center DuPage Hospital	Winfield	IL	Rita Brennan
OSF Heart of Mary Medical Center	Urbana	IL	Gretchen Kopec, Michele Astle
OSF Little Company of Mary Medical Center	Evergreen Park	IL	Gretchen Kopec, Michele Astle
OSF Sacred Heart Medical Center	Danville	IL	Gretchen Kopec, Michele Astle
OSF St Anthony's Health Center	Rockford	IL	Gretchen Kopec, Michele Astle
OSF St Elizabeth Medical Center Ottawa	Ottawa	IL	Gretchen Kopec, Michele Astle
OSF St Francis Medical Center	Peoria	IL	Gretchen Kopec, Michele Astle
OSF St James – John W. Albrecht Medical Center	Pontiac	IL	Gretchen Kopec, Michele Astle
OSF St. Mary Medical Center	Galesburg	IL	Gretchen Kopec, Michele Astle
Rush Copley Medical Center	Aurora	IL	Melissa Knapik
Rush University Medical Center	Chicago	IL	Andrew Berenz, Megan Gross
Silver Cross Hospital	New Lennox	IL	Colleen Malloy, Marilyn Paoletta

SUPPLEMENTAL TABLE 4 Continued

Center	City	State	Investigators
University of Chicago	Chicago	IL	Christine Carlos, Elena Yzchaki
University of Illinois Hospital and Health Science System	Chicago	IL	De-Ann Pillers, Zaynab Kadhem, Sara Cooper, Joann Romano-Keeler
Southern Illinois University School of Medicine	Springfield	IL	Beau Batton, Allison Spenner, Erin Bauer
IU Health Methodist Hospital	Indianapolis	IN	Gregory Sokol, Leah Engelstad, Hannah Rakow
IU Health North Hospital	Indianapolis	IN	Gregory Sokol, Leah Engelstad, Hannah Rakow
Peyton Manning Children's Hospital	Indianapolis	IN	Markus Tauscher, Zenaída Tauscher
Sidney and Lois Eskenazi Hospital	Indianapolis	IN	Gregory Sokol, Leah Engelstad, Hannah Rakow
Overland Park Regional Medical Center	Overland	KS	Kathleen Weatherstone, Jessica Howlett
Norton Children's Hospital	Louisville	KY	Tamina Singh, Stephanie Houston, Jennifer Nason Brittany Chumbley
UK Kentucky Children's Hospital	Lexington	KY	John Bauer, Beth McKinney-Whitlock, Susan DeGraff
East Jefferson General Hospital	Metairie	LA	Jessica Patrick-Esteve, Peter Joslyn, Christy Mumphrey
North Oaks Medical Center	Hammond	LA	Jessica Patrick-Esteve, Peter Joslyn, Christy Mumphrey
Slidell Memorial Hospital	Slidell	LA	Jessica Patrick-Esteve, Peter Joslyn, Christy Mumphrey
Touro Infirmary LCMC Health	New Orleans	LA	Jessica Patrick-Esteve, Peter Joslyn, Christy Mumphrey
Tulane Lakeside Hospital	Metairie	LA	Elizabeth Lindsay, Michelle Steinhardt, Leslie Smitley, Monique Diles
Woman's Hospital	Baton Rouge	LA	Steven B. Spedale
Baystate Health	Springfield	MA	Ruben Vaidya, Rachana Singh, Katie Wagner
Beth Israel Deaconess Medical Center	Boston	MA	John Zupancic, Neha Chaudhary
Beverly Hospital	Beverly	MA	Ivana Culic
Boston Children's Hospital	Boston	MA	Amy O'Connell
Boston Medical Center	Boston	MA	Margaret Parker, Vishakha Sabharwal, Lisa Tucker, Ruby Bartolome, Stephanie Houston, Maggie Brownrigg
Brigham and Women's Hospital	Boston	MA	Mandy Belfort, Kaitlin Drouin, Tina Steele
Cambridge Health Alliance	Cambridge	MA	Neha Chaudhary
Massachusetts General Hospital	Boston	MA	Jessica Shui
Newton-Wellesley Hospital	Newton	MA	Silvia Patrizi
Tufts Medical Center	Boston	MA	Jill L. Maron, Taysir Mahmoud
U Mass Memorial Health Medical Center	Worcester	MA	Katherine Sullivan, Heather White, Archana Kalyanasundaram, Crystal Vasquez
Winchester Hospital	Winchester	MA	Diana Yanni, Asimena Angelidou
Holy Cross Hospital	Silver Springs	MD	Isabelle Von Kohorn, Karla Rondon
Johns Hopkins University	Baltimore	MD	Pamela Donohue, Jennifer Shepard
MedStar Franklin Square Medical Center	Rossville	MD	Siva Subramanian, Tiffany Spriggs
MedStar Harbor Hospital	Baltimore	MD	Siva Subramanian, Tiffany Spriggs
MedStar Montgomery Medical Center	Olney	MD	Siva Subramanian, Tiffany Spriggs
MedStar Southern Maryland Hospital Center	Clinton	MD	Siva Subramanian, Tiffany Spriggs
Walter Reed National Military Medical Center	Bethesda	MD	Kristen Smith
Maine Medical Center	Portland	ME	Alan Picarillo
Helen DeVos Children's Hospital	Grand Rapids	MI	David Colombo, Emily Beltz, Kathy Nystrom
Henry Ford Hospital	Detroit	MI	Sudhakar Ezhuthachan, Heather Abraam
Hutzel Women's Hospital	Detroit	MI	Sanket Jani, Monica Bajaj, Jorge Lua, Shanita Binyard
Sparrow Hospital	Lansing	MI	Said Omar, Cheryl Abernathy, Sara Hackett
Trinity Health West Michigan d/b/a Mercy Health Saint Mary's	Grand Rapids	MI	Steven Gelfand, Stacy Smith
University of Michigan Hospital	Ann Arbor	MI	Rebecca Vartanian, Diane White, Rachael Pace
Grand Itasca Clinic and Hospital	Grand Rapids	MN	Cheryl Gale, Amy Hanson, Martha Demeules, Emiliee Plautz, Jenna Wassenaar
M Health Fairview Lakes Medical Center	Wyoming	MN	Cheryl Gale, Amy Hanson, Martha Demeules, Emiliee Plautz, Jenna Wassenaar
M Health Fairview Northland Hospital	Princeton	MN	Cheryl Gale, Amy Hanson, Martha Demeules, Emiliee Plautz, Jenna Wassenaar
M Health Fairview Range Hospital	Hibbing	MN	Cheryl Gale, Amy Hanson, Martha Demeules, Emiliee Plautz, Jenna Wassenaar
M Health Fairview Ridges Hospital	Burnsville	MN	Cheryl Gale, Amy Hanson, Martha Demeules, Emiliee Plautz, Jenna Wassenaar
M Health Fairview Southdale Hospital	Edina	MN	Cheryl Gale, Amy Hanson, Martha Demeules, Emiliee Plautz, Jenna Wassenaar

SUPPLEMENTAL TABLE 4 Continued

Center	City	State	Investigators
M Health Fairview University of Minnesota Masonic Children's Hospital	Minneapolis	MN	Cheryl Gale, Amy Hanson, Martha Demeules, Emilee Plautz, Jenna Wassenaar
Mayo Clinic	Rochester	MN	Ellen Bendel-Stenzel, Kelly Haines
Barnes Jewish Hospital	St. Louis	MO	Samuel Julian, Laura Linneman
SSM Health DePaul Hospital	Bridgeton	MO	Justin Josephsen, Melissa Hawkins
SSM Health St. Mary's Health	St. Louis	MO	Justin Josephsen, Melissa Hawkins
St Louis Children's Hospital	St. Louis	MO	Samuel Julian, Laura Linneman
University of Mississippi Medical Center	Jackson	MS	Jagdish Desai, Heather Williams, Aurora Diaz, Nilesh Dankhara
St Vincent Healthcare	Billings	MT	Alison Rentz
Atrium Health Levine Children's Hospital	Charlotte	NC	Matthew Saxonhouse, Gail Harris
Brenner Children's Hospital – Wake Forest Baptist Health	Winston-Salem	NC	Jeffrey S Shenberger, Cobi Ingram
Duke University Health System	Durham	NC	Kristin Weimer, Melissa Babilonia-Rosa, Mandy Marion
James and Connie Maynard Children's Hospital	Greenville	NC	Kelly Bear, Sherri Moseley
Mission Hospital	Asheville	NC	Ansley Miller, Mary Cascio
University of North Carolina Children's Hospital	Chapel Hill	NC	Genevieve Taylor, Jennifer Talbert, Cynthia Clark
WakeMed Health Raleigh Campus	Raleigh	NC	Stephen Kicklighter, Donna White
University of North Carolina Hospital – Newborn Nursery and Pediatric Floor	Chapel Hill	NC	Alison Sweeney, Athena Samaras
UNMC/Nebraska Medicine	Omaha	NE	Ann Anderson-Berry, Betty Oberle, Kerry Petersen
Hackensack University Medical Center	Hackensack	NJ	Nicole Spillane, Krsytyna Toczylowski
Hackensack University Medical Center Mountainside	Hackensack	NJ	Jonathan Mintzer, Antoine Alexandra Lespinasse
Morristown Medical Center	Morristown	NJ	Caryn Peters
Newton Medical Center	Newton	NJ	Caryn Peters
Overlook Medical Center	Summit	NJ	Caryn Peters
Saint Barnabus Medical Center	Livingston	NJ	Kwanchai Chan, Deborah Ann Ciaffi
St Joseph's Medical Center	Patterson	NJ	Linda Skroce
University Hospital	Newark	NJ	Harpreet Kaur, Rani Thomas
Virtua Lady of Lourdes	Camden	NJ	Sarvin Ghavam, Christine Catts, Jonathan Snyder
Virtua Memorial Hospital	Mount Holly	NJ	Sarvin Ghavam, Christine Catts, Jonathan Snyder
Virtua Voorhees Hospital	Voorhees Township	NJ	Sarvin Ghavam, Christine Catts, Jonathan Snyder
University of New Mexico HSC	Albuquerque	NM	Janelle Fuller, Sandra Beauman, Conra Backstrom Lacy
Albany Medical Center	Albany	NY	Debra Tristram, Philip Cook
Catholic Health Good Samaritan Hospital	West Islip	NY	Donna Celetano, Carol Rooney
Columbia University Irving Medical Center	New York	NY	Donna Garey, Tina Leone, Caitlin Ehret
Jack D. Weiler Hospital	Bronx	NY	Thomas Havranaek, Magdy El-Hennawy
John R. Oishei Children's Hospital	Buffalo	NY	Praveen Chandrasekharan, Emily Li, Jennifer Donato
Maria Fareri Children's Hospital	Valhalla	NY	Edmund La Gamma, Shetal Shah, Clare Giblin
Tisch Hospital	New York	NY	Michelle Vaz, Sourabh Verma, N. S. Freda Auyeung
United Health Services Hospitals, Inc.	Johnson City	NY	Paula Farrell, Marybeth Culp, Terri Peters
UR Medicine – Strong Memorial Hospital	Rochester	NY	Kristin Scheible, Mallory Prideaux, Rachel Jones, Tanya Scalise
NYU Winthrop	Mineola	NY	Caterina Tiozzo
ProMedica Toledo Hospital	Toledo	OH	Howard Stein, Jessica Shoemaker
St. Vincent's Mercy Medical Center	Toledo	OH	Gagandeep Brar, Kelly Parker, Christine Calcamuggio
University Hospitals Cleveland Medical Center	Cleveland	OH	Michele C. Walsh, Anna Maria Hibbs, Nancy Newman, Riddhi Desai
University of Cincinnati Medical Center	Cincinnati	OH	Emily DeFranco, Lynea Bach, Allison Gurney-McMaster
Children's Hospital University of Oklahoma Health Science Center	Oklahoma City	OK	Patricia Williams, Mike McCoy, Shannon Wilson
Comanche County Memorial Hospital	Lawton	OK	Vadim Ivanov, Mike McCoy
Asante Rogue Regional Medical Center	Medford	OR	Hilary Redden
Oregon Health and Science University	Portland	OR	Dmitry Dukhovny, Monica Rincon, Milica Ivanovic
Women and Children's Services Providence Health System	Portland	OR	Joe Kaempf, Chiayi Chen, Nicole Tipping
Randall Children's Hospital at Legacy Emanuel	Portland	OR	Howard Cohen, Kristin Hickey, Lori Keeth
Salem Health	Salem	OR	Christopher Traudt
Children's Hospital of Philadelphia	Philadelphia	PA	David Munson, Dustin Flannery, Madeline Pfeifer
Crozer Keystone Health Network	Springfield	PA	Kathryn Kauffman
Einstein Medical Center Philadelphia	Philadelphia	PA	Agnes Salvador, Gail Cameron
Einstein Medical Center Montgomery	East Norriton	PA	Sandeep Sadashiv

SUPPLEMENTAL TABLE 4 Continued

Center	City	State	Investigators
Geisinger Community Medical Center	Scranton	PA	James A. Cook, Karena Moran
Geisinger Lewiston Hospital	Lewiston	PA	James A. Cook, Karena Moran
Geisinger Medical Center	Danville	PA	James A. Cook, Karena Moran
Geisinger Wyoming Valley Medical Center	Wilkes-Barre	PA	James A. Cook, Karena Moran
Holy Spirit Medical Center	Camp Hill	PA	James A. Cook, Karena Moran
Hospital of the University of Pennsylvania	Philadelphia	PA	Elizabeth Foglia, Dustin Flannery, Madeline Pfeifer
Pennsylvania Hospital	Philadelphia	PA	Karen Puopolo, Dustin Flannery, Madeline Pfeifer
Temple University Hospital	Philadelphia	PA	Heidi Taylor, Sruthi Polavarapu
University of Pittsburgh Medical Center	Pittsburgh	PA	Toby Yanowitz, Victoria D'Orto
Valley Hospital Medical Center	King of Prussia	PA	Christiana Farkouh-Karoleski, Peggy Bischoff
Wellspring York Hospital	York	PA	Elias Abebe, Michael Goodstein, Michelle Eppinger
Medical University of South Carolina	Charleston	SC	Julie Ross, Ebony Dawkins Mikell
Spartanburg Medical Center	Spartanburg	SC	Imelda Uy
Avera McKennan Hospital and University Health Center	Sioux Falls	SD	Maria Talavera-Barber, Christa Friedrich, Jessica Sundleaf
Monument Health	Rapid City	SD	Kim Balay, Nan Fitzgerald, Tara O'Leary
Sanford USD Medical Center	Sioux Falls	SD	Michelle Baack, Megan Henning, Sarah Van Muyden
Erlanger Health System	Chattanooga	TN	Heather Gilliam
Jackson-Madison County General Hospital	Jackson	TN	Josefina Go, Laura Richards
Regional One Women and Newborn Services	Memphis	TN	Vineet Lamba, Gail Camp
University of Tennessee Medical Center Knoxville	Knoxville	TN	Courtney Gutman, Kristin Gipson
Vanderbilt University Medical Center	Nashville	TN	Joern-Hendrik Weitkamp, Theresa Rogers
Baptist Medical Center	San Antonio	TX	Kaashif Ahmad, Melanie Drummond
Brooke Army Medical Center	Fort Sam Houston	TX	Rasheda Vereen, Caitlin Drumm
Children's Medical Center Dallas	Dallas	TX	Luc Brion, Maria Caraig, Emilie Vanguyen
Children's Memorial Hermann Hospital	Houston	TX	Michael Chang, Gabriela Del Bianco
CHRISTUS Santa Rosa Hospital – Westover Hills	San Antonio	TX	Kaashif Ahmad, Melanie Drummond
Methodist Hospital	San Antonio	TX	Kaashif Ahmad, Katy Kohlleppel
Methodist Hospital Stone Oak	San Antonio	TX	Kaashif Ahmad, Katy Kohlleppel
Methodist Metropolitan	San Antonio	TX	Kaashif Ahmad, Katy Kohlleppel
Northeast Baptist Hospital	San Antonio	TX	Kaashif Ahmad, Melanie Drummond
Parkland Health and Hospital System	Dallas	TX	Luc Brion, Maria Caraig, Erin Trout, Karina Frias-Esparza, Brooke Payton, Julide Sisman
St Luke's Baptist Hospital	San Antonio	TX	Kaashif Ahmad, Melanie Drummond
The Children's Hospital of San Antonio	San Antonio	TX	Kaashif Ahmad, Melanie Drummond
University Hospital in San Antonio	San Antonio	TX	Joseph B. Cantey, Diana Guerra
University of Utah Health	Salt Lake City	UT	Mariana Baserga, Manndi Loertscher, Kelli Lund
Children's Hospital of Richmond at Virginia Commonwealth University	Richmond	VA	Karen Hendricks-Muñoz, Russell Moores, Mark Astoria, Karen Fabian
University of Virginia Children's Hospital	Charlottesville	VA	Jonathan R. Swanson, Monika Thielen
Winchester Medical Center	Winchester	VA	Edward I. Lee
Valley Medical Center – UW Medical Center	Renton	WA	Christina Long, Toby Cohen
Unity Point Health – Meriter Hospital	Madison	WI	Elizabeth Goetz, Jamie Limjoco, Nina Menda
Cabell Huntington Hospital	Huntington	WV	Balaji Govindaswami, Jessica Haas

SUPPLEMENTAL TABLE 5 Registry Data Elements Recorded in the American Academy of Pediatrics Perinatal COVID-19 Registry, United States, April 6, 2020 to March 19, 2021

Element	Maternal	Recorded data
Demographic information		
Age at delivery hospitalization admission	Number	
Gravidity	Number	
Race	Black or African American; white; Asian; American Indian or Alaska Native; Native Hawaiian or other Pacific Islander; other; unknown or not in medical record	
Ethnicity	Hispanic; Non-Hispanic; unknown or not in medical record	
Labor and delivery		
Labor	Spontaneous; augmented; induced; no labor	
Route of delivery	Vaginal; cesarean section	
If labor was augmented or induced or delivery was by c-section, list indications (choose all that apply):	Postdates; preeclampsia; arrest of descent; abruptio; chorioamnionitis; concern about worsening maternal condition because of COVID-19 infection; other (provide narrative)	
Fetal indications for delivery	Severe intrauterine growth restriction; fetal distress; hydrops fetalis; malpresentation; other (provide narrative)	
Rupture of membranes	Spontaneous; artificial	
Duration of rupture of membranes	Number (hours)	
Did mother receive betamethasone before delivery?	Yes or no	
SARS-CoV-2 testing and illness		
COVID status at delivery	Confirmed COVID-19 or PUI (Person Under Investigation)	
Indication for which mother was tested (check all that apply)	Policy to test all pregnant women admitted to labor and delivery; URI symptoms (cough, nasal congestion, sinus congestion, sore throat); LRI symptoms (respiratory distress, cough, wheezing); fever; GI symptoms (vomiting, diarrhea, nausea); myalgia and fatigue; anosmia or ageusia; contact with SARS-CoV-2 case; travel; unknown; other (provide narrative)	
Maternal condition before admission for delivery	Asymptomatic; sick at home; required hospitalization for SARS-CoV-2 before delivery (anytime within 14 d before delivery); unknown (outborn)	
If sick at home	URI symptoms (cough, nasal congestion, sinus congestion, sore throat); LRI symptoms (respiratory distress, cough, wheezing); fever; GI symptoms (vomiting, diarrhea, nausea); myalgia and fatigue; anosmia/ageusia; other (provide narrative)	
If required hospitalization for SARS-CoV-2 before delivery	IV fluids; supplemental O ₂ ; CPAP; mechanical ventilation; ECMO; other (provide narrative)	
Duration of illness before delivery	Number (days)	
Interval between date of admission for delivery and newborn date of birth (DOB)	Number (days)	
Interval between date of first maternal symptoms of COVID-19 infection and newborn DOB	Number (days)	
Interval between first positive maternal test and newborn DOB	Number (days)	
Interval between most recent maternal positive test and newborn DOB	Number (days)	
Did mother have negative SARS-CoV-2 testing after the positive test?	Yes or no	
If no, choose 1 of the following options	No further testing was done after delivery; repeat testing after delivery remained positive	
Interval from delivery that mother was tested and negative	Number (days) (if applicable)	
Maternal outcomes		
Duration of maternal hospitalization	Number (days)	
Final maternal disposition	Discharged; transferred; died	
Cause of maternal death (if applicable)	Related to COVID; unrelated to COVID; unknown	
Did mother receive specific treatment of SARS-CoV-2? if yes, list therapy	Yes or no Chloroquine; Hydroxychloroquine; Remdesivir; Ritonavir; Favipiravir; Lopinavir; other (provide narrative)	

SUPPLEMENTAL TABLE 5 Continued

Element	Maternal	Recorded data
Newborn		
Demographic		
Gestational age at birth	Number (nearest completed week)	
Birth wt	Number (grams)	
Sex	Female; male; other	
Apgar at 5 min	Number (0–10)	
Birth multiplicity	Single; twin A; twin B; higher order (triplet, etc.)	
Status at birth	Liveborn; stillborn; death in delivery room	
Delivery room and postnatal condition and care		
Resuscitation at birth (check all that apply):	Drying and stimulation only; supplemental oxygen; positive pressure (CPAP or mask ventilation); intubation; chest compressions; epinephrine; vol expansion	
Neonatal signs during hospitalization (choose all that apply)	None; fever (>37.8 C); cough; vomiting or diarrhea; respiratory distress; hypotonia; other diagnosis (provide narrative)	
Respiratory distress diagnosis (if applicable)	Provide narrative	
Maximum level of respiratory support during hospitalization	None; supplemental oxygen; CPAP; mechanical ventilation; ECMO	
Other diagnoses (choose all that apply):	None; delayed transition; surfactant deficiency; pulmonary hypertension; hypotension; hypoglycemia; hypothermia; culture-confirmed bacterial sepsis (organism, provide narrative); microcephaly; encephalopathy; congenital anomalies (provide narrative); other (provide narrative)	
Other administered neonatal intensive care (choose all that apply):	None; antibiotics; antiviral agents (provide narrative); intravenous fluids; inhaled nitric oxide or prostacyclin; pressors; surfactant; hydrocortisone; dexamethasone; therapeutic hypothermia; ECMO; other	
Pressors	Dopamine; dobutamine epinephrine	
Other intensive care administered	Provide narrative	
Did mother provide breast milk (choose all that apply):	Direct nursing by mother; expressed maternal milk fed by mother; expressed maternal milk fed by another caregiver; donor milk; no; unknown	
If infant received mother's own milk, either by direct breast feeding or by expression, what was the testing status of the mother at that time	Positive; pending; negative; not tested; unknown	
Primary reason for neonatal transfer to your hospital (select NA if child was inborn)	Clinical illness presumed related to COVID-19 infection; other clinical illness not presumed related to COVID-19 infection; no clinical illness; transport because of maternal COVID-19 diagnosis; NA	
Newborn outcomes		
Duration of neonatal hospitalization at your hospital	Number (days)	
Final newborn disposition	Discharge home; transferred to other facility; died before discharge (provide narrative cause)	
Cause of newborn death	Related to COVID-19; not related to COVID-19; unknown	
Discharge medications	None; if given, provide narrative	
Newborn isolation		
Was newborn admitted to a higher level of care (eg, NICU) than a newborn nursery or general hospital ward (for boarding care)?	Yes or no	
If inborn: were mother and infant separated at your hospital at birth?	Yes, no, or unknown	
If outborn: was mother not given visitation rights until she was virologically cleared?	Yes, no, or unknown	
Was the infant isolated in your hospital (choose all that apply)?	Contact and droplet precautions only (gown, gloves, surgical mask and face or eye shield); contact, droplet, and airborne precautions (gown, gloves, N95 mask and face or eye shield); contact, droplet, and airborne precautions (gown, gloves, N95 mask and face or eye shield) and negative pressure room; yes - other (provide narrative); no; unknown	

SUPPLEMENTAL TABLE 5 Continued

Element	Maternal	Recorded data
<p>What were the locations at which the infant was cared for at your hospital (choose all that apply):</p> <p>Newborn laboratory testing</p> <p>Did newborn have SARS-CoV-2 testing at days 0–14 after birth?</p> <p>SARS-CoV-2 test results (data entry fields provided for days 0–14 after birth)</p>	<p>NICU; nursery room separate from mother; room-in with mother; negative pressure isolation room; regular isolation room; other (provide narrative)</p> <p>Yes or no</p> <p>Indicate day of test; and site of specimen nasopharyngeal, throat or rectal site; if done, amniotic fluid; placenta; gastric aspirate and breastmilk testing results (all results recorded as positive or negative)</p> <p>Lowest white count; lowest neutrophil count; lowest lymphocyte count; lowest hemoglobin; highest AST; highest ALT; highest CRP (provide value and day value obtained)</p>	
<p>Laboratory data from days 0–7 after birth</p>		

ALT, alanine transaminase; AST, aspartate transaminase; CPAP, continuous positive airway pressure; CRP, C-reactive protein; IRI, lower respiratory infection; NA, not applicable; URI, upper respiratory infection.

SUPPLEMENTAL TABLE 6 Maternal Characteristics Associated With Newborn Testing Status in the American Academy of Pediatrics Perinatal COVID-19 Registry, United States, April 6, 2020 to March 19, 2021

	All (<i>n</i> = 7524)	Newborn Not Tested (<i>n</i> = 1149)	Newborn Tested (<i>n</i> = 6375)	<i>P</i>
Age, y, median (IQR)	28 (24–33)	29 (24–33)	28 (24–33)	.348
Gravidity, <i>n</i> , median (IQR)	2 (1–4)	2 (1–4)	2 (1–4)	.217
Maternal race and ethnicity, <i>n</i> (%)				<.001
Hispanic	3337 (44.4)	372 (32.4)	2965 (46.5)	
non-Hispanic Black	1457 (19.4)	191 (16.6)	1266 (19.9)	
non-Hispanic white	1846 (24.5)	442 (38.5)	1404 (22.0)	
Asian	290 (3.9)	52 (4.5)	238 (3.7)	
American Indian or Alaska Native	63 (0.8)	12 (1.0)	51 (0.8)	
Native Hawaiian or other Pacific Islander	62 (0.8)	13 (1.1)	49 (0.8)	
Other or unknown ^a	469 (6.2)	67 (5.8)	402 (6.3)	
Multiple gestation, <i>n</i> (%)	145 (1.9)	12 (1.0)	133 (2.1)	.018
Betamethasone before delivery, <i>n</i> (%) ^b	571/7381 (7.7)	50/1129 (4.4)	521/6252 (8.3)	<.001
Delivery mode, <i>n</i> (%)				<.001
Vaginal	4889 (65.0)	831 (72.3)	4058 (63.7)	
Cesarean	2604 (34.6)	314 (27.3)	2290 (35.9)	
Unknown	31 (0.4)	4 (0.3)	27 (0.4)	
Maternal COVID-19 status at admission, <i>n</i> (%)				.003
Asymptomatic	5875 (78.1)	927 (80.7)	4948 (77.6)	
Symptomatic	1369 (18.2)	195 (17.0)	1174 (18.4)	
Admitted for COVID care ≤14 d before delivery	254 (3.4)	21 (1.8)	233 (3.7)	
Unknown	26 (0.3)	6 (0.5)	20 (0.3)	
Maternal status at discharge, <i>n</i> (%)				.067
Discharged from the hospital	7483 (99.5)	1148 (99.9)	6335 (99.4)	
Transferred	21 (0.3)	0 (0)	21 (0.3)	
Died	18 (0.2)	1 (0.1)	17 (0.3)	
Unknown	2 (0.0)	0 (0)	2 (0.0)	

IQR, interquartile range (25th and 75th percentiles).

^a Other or unknown category includes 171 persons with other race or ethnicity; 250 persons with unknown ethnicity; 48 persons with non-Hispanic ethnicity and unknown race.

^b Data missing for 143 subjects.

SUPPLEMENTAL TABLE 7 Newborn Characteristics Associated with Newborn Testing Status in the American Academy of Pediatrics Perinatal COVID-19 Registry, United States, April 6, 2020 to March 19, 2021

	All (n = 7648)	Newborn Not Tested (n = 1162)	Newborn Tested (n = 6486)	P
Birth wt, g, median (IQR)	3210 (2830–3540)	3274 (2930–3600)	3200 (2820–3530)	<.001
Sex, n (%)				.018
Female	3678 (48.1)	597 (51.4)	3081 (47.5)	
Male	3966 (51.9)	565 (48.6)	3401 (52.4)	
Unreported	4 (0.1)	0 (0)	4 (0.1)	
Multiple gestation infants, n (%)	269 (3.5)	25 (2.2)	244 (3.8)	.050
Small for gestational age, n (%) ^a	747/7630 (9.8)	101/1149 (8.8)	646/6481 (10.0)	.225
Infants born ≥37 wk' gestation	6458 (84.4)	1041 (89.6)	5417 (83.5)	
NICU admission, n (%) ^b	901/6392 (14.1)	46/1028 (4.5)	855/5364 (15.9)	<.001
Mechanical ventilation, n (%) ^c	63/6394 (1.0)	5/1035 (0.5)	58/5359 (1.1)	.083
Infants born <37 wk' gestation	1190 (15.6)	121 (10.4)	1069 (16.5)	
NICU admission, n (%) ^d	699/1177 (59.4)	40/120 (33.3)	659/1057 (62.3)	<.001
Mechanical ventilation, n (%) ^e	184/1182 (15.6)	11/120 (9.2)	173/1062 (16.3)	.030
Maternal-infant separation at birth, n (%) ^f	2414/7610 (31.7)	112/1150 (9.7)	2302/6460 (35.6)	<.001
Any breast milk feeding, n (%)	5401 (70.6)	944 (81.2)	4457 (68.7)	<.001
Infant disposition, n (%)				.003
Discharge home	7541 (98.6)	1134 (97.6)	6407 (98.8)	
Transferred	78 (1.0)	16 (1.4)	62 (1.0)	
Died	29 (0.4)	12 (1.0)	17 (0.3)	

Table includes all live births that survived beyond delivery room, and with available postnatal testing data. IQR, interquartile range (25th and 75th percentiles.)

^a Data missing for 18 infants.

^b Data missing for 66 infants.

^c Data missing for 64 infants. ECMO support provided to 2 infants.

^d Data missing for 13 infants.

^e Data missing for 8 infants. No infants born <37 wk' gestation were treated with ECMO.

^f Data missing for 38 infants.

SUPPLEMENTAL TABLE 8 Relationship Between Maternal COVID Illness, Timing of Maternal SARS-CoV-2 Testing and Newborn SARS-CoV-2 Test Results, American Academy of Pediatrics Perinatal COVID-19 Registry, United States, April 6, 2020 to March 19, 2021

Duration Between First Positive Maternal Test and Delivery	≥1 Newborn Resulting From the Pregnancy was Tested for SARS-CoV-2 (<i>n</i> = 6375) ^a	≥1 Newborn PCR Positive (<i>n</i> = 139) ^a	All Newborns PCR Negative (<i>n</i> = 6236) ^a
All pregnant persons (<i>n</i> = 6375)			
14 to 4 d, <i>n</i> (% PCR +)	1211	26 (2.1)	1185 (97.9)
3 to 0 d, <i>n</i> (% PCR +)	5011	95 (1.9)	4916 (98.1)
-1 to -10 d, <i>n</i> (% PCR +)	153	18 (11.8)	135 (88.2)
Total	6375	139 (2.2)	6236 (97.8)
Asymptomatic at time of delivery (<i>n</i> = 4948)			
14 to 4 d, <i>n</i> (% PCR +)	577	7 (1.2)	570 (98.8)
3 to 0 d, <i>n</i> (% PCR +)	4246	67 (1.6)	4179 (98.4)
-1 to -10 d, <i>n</i> (% PCR +)	125	17 (13.6)	108 (86.4)
Total	4948	91 (1.8)	4857 (98.2)
Symptomatic at time of delivery (<i>n</i> = 1174)			
14 to 4 d, <i>n</i> (% PCR +)	472	14 (3.0)	458 (97.0)
3 to 0 d, <i>n</i> (% PCR +)	676	26 (3.8)	650 (96.2)
-1 to -10 d, <i>n</i> (% PCR +)	26	1 (3.8)	25 (96.2)
Total	1174	41 (3.5)	1133 (96.5)
Hospitalized for COVID-19 care ≤14 d before delivery (<i>n</i> = 233)			
14 to 4 d, <i>n</i> (% PCR +)	156	4 (2.6)	152 (97.4)
3 to 0 d, <i>n</i> (% PCR +)	76	1 (1.3)	75 (98.7)
-1 to -10 d, <i>n</i> (% PCR +)	1	0 (0)	1 (100.0)
Total	233	5 (2.1)	228 (97.9)

Table includes all newborns who survived beyond delivery room and who had postnatal testing data. In 21 instances, SARS-CoV-2 illness status for the pregnant person on admission was unknown or was not reported. Comparison of the proportion of persons with newborns testing PCR positive across the 3 time frames was significant ($P < .001$) for all pregnant persons and for those asymptomatic at the time of delivery. This comparison was not significant for symptomatic or hospitalized for COVID-19 pregnant persons.

^a*N* refers to number of pregnant persons.