Survey Questionnaire

Since we all are facing new circumstances and experiences because of the coronavirus (COVID-19) the University of Chicago and your healthcare team want to know how the lives of our breast cancer patients are being affected by COVID-19.

For each question below, please indicate whether the pandemic has impacted you in the way described.

**Loneliness, Social Support, and Anxiety**

|   | Before COVID-19, how often did you feel left out? | Before COVID-19, how often did you feel isolated from others? |
|---|-----------------------------------------------|---------------------------------------------------------------|
| 1 | Never | Rarely | Sometimes | Often | Always |
| 2 | 0 | 1 | 2 | 3 | 4 |

|   | How isolated are you feeling now due to COVID-19? |
|---|-----------------------------------------------|
| 3 | Not at all | A little | Somewhat | Very isolated | Extremely isolated |
|   | 0 | 1 | 2 | 3 | 4 |

|   | Do you feel supported by friends and family during this time of COVID-19? |
|---|------------------------------------------------------------------------|
| 4 | Not at all | A little | Somewhat | Very | Extremely |
|   | 0 | 1 | 2 | 3 | 4 |

|   | How optimistic are you that you can manage life's challenges successfully? |
|---|------------------------------------------------------------------------|
| 5 | Not at all | A little | Somewhat | Very | Extremely |
|   | 0 | 1 | 2 | 3 | 4 |

|   | If you need medical help, how confident are you that you can find someone to take you to the doctor’s office? |
|---|----------------------------------------------------------------------------------------------------------------------------------|
| 6 | Not at all | A little | Somewhat | Very | Extremely |
|   | 0 | 1 | 2 | 3 | 4 |

7. How many people do you currently live with not including yourself? ____

|   | In the past 7 days… |
|---|---------------------|
| 8 | Did you feel you could keep up with your work and home responsibilities (including work from home now)? |
|   | Never | Rarely | Sometimes | Often | Always |
|   | 0 | 1 | 2 | 3 | 4 |

|   | Have you felt fearful? |
|---|-----------------------|
| 9 | Never | Rarely | Sometimes | Often | Always |
|   | 0 | 1 | 2 | 3 | 4 |

|   | Have your worries overwhelmed you? |
|---|----------------------------------|
| 10 | Never | Rarely | Sometimes | Often | Always |
|    | 0 | 1 | 2 | 3 | 4 |

|   | How much did you worry about getting sick from COVID-19? |
|---|---------------------------------------------------------|
| 11 | Never | Rarely | Sometimes | Often | Always |
|   | 0 | 1 | 2 | 3 | 4 |

|   | How often were you worried that you might need to go to the hospital? |
|---|---------------------------------------------------------------------|
| 12 | Never | Rarely | Sometimes | Often | Always |
|   | 0 | 1 | 2 | 3 | 4 |

13. Lately, have you felt hopeful? 0 | 1 | 2 | 3 | 4

14. In the past month, to what extent have you felt nervous or “stressed”? 0 | 1 | 2 | 3 | 4
Financial Concerns

15. Have you lost your job or had your wages significantly reduced due to COVID-19?
   □ Yes   □ No   □ Was not employed

16. Have you lost your health insurance as a result of COVID-19?
   □ Yes   □ No   □ Was not insured

17. Are you concerned about losing your health insurance due to loss of employment as a result of COVID-19?
   □ Yes   □ No   □ Was not insured

18. Have you experienced a major financial loss (i.e., savings/investment/retirement plan losses) due to COVID-19?
   □ Yes   □ No

19. Have you had difficulty paying bills, utilities, or other expenses due to financial challenges that resulted from COVID-19?
   □ Yes   □ No

20. Have you had difficulty getting either enough food or healthy food due to COVID-19?
   □ Yes   □ No

COVID-19

21. Have you experienced any flu-like symptoms such as cough, fever, body aches, and/or shortness of breath since March 2020?
   □ Yes   □ No

22. Have you had COVID-19 (novel coronavirus) testing in a clinic, curbside testing center, or emergency room/hospital?
   □ Yes   □ No

23. Have you tested positive for COVID-19?
   □ Yes   □ No

24. Have you been hospitalized due to COVID-19?
   □ Yes   □ No

25. Have you been admitted to the hospital in the past 4 months for other reasons?
   □ Yes   □ No

26. Do you have any family members or friends who have been diagnosed with COVID-19?
   □ Yes   □ No

27. If Yes to question #26, have you been in physical contact with them recently?
   □ Yes   □ No
Treatment Disruption

28. Has your breast surgery (mastectomy or lumpectomy) been canceled because of a COVID-19 related lockdown?
   □ Yes  □ No  □ I underwent surgery before March 2020

29. Has your chemotherapy been delayed because of COVID-19 related lockdown?
   □ Yes  □ No  □ I underwent surgery before March 2020

30. Has your radiation therapy been interrupted because of COVID-19 related lockdown?
   □ Yes  □ No  □ I do not need radiotherapy

31. Did you have difficulty with refilling or obtaining your hormonal therapy (such as Tamoxifen) medicine because of COVID-19?
   □ Yes  □ No  □ I do not need hormonal therapy

32. If Yes to question #31, did you miss taking doses of your medication as a result?
   □ Yes  □ No

33. Do you have difficulty with making an appointment with a doctor (primary care, oncologist radiation oncologist or surgeon) because of COVID-19 related lockdown?
   □ Yes  □ No  □ I do not need to see doctors since March 2020

34. Have you utilized telemedicine (telephone call or Zoom meeting) with your doctors?
   □ Yes  □ No  □ I do not need to see doctors since March 2020

35. If Yes to question #34, how satisfied were you with your telemedicine experience?
   □ Not at all  □ A Little  □ Somewhat  □ Very satisfied  □ Extremely satisfied

36. Please share any comments or suggestions for improvement about the use of telemedicine in the space below.
Communication

37. What resource do you trust for accurate information about COVID-19 (please choose all that apply):

☐ Family/Friends
☐ Your Doctor or other health care provider/Hospital
☐ Local Chicago News
☐ World Health Organization (WHO)
☐ Centers for Disease Control (CDC)
☐ National Media, such as FOX or CNN
☐ Daily Briefings from White House Coronavirus Task Force
☐ Governor Pritzker’s Coronavirus Briefings

38. Do you feel you have enough information about how to protect yourself and your family from coronavirus, or not?

☐ Yes ☐ No ☐ Don’t know

39. Back when you first heard about the virus, did you think that this was something that could affect you or was it something that affected others? (In the space below, please tell us about your experience with what you were hearing and then how you reacted/felt.)

Please provide your current contact information so we can update our records and send our gift for appreciation:

Address: ___________________________________________________________________________

Cell/Home Phone #: ___________________

We greatly appreciate your taking this time to complete our survey. Please stay safe and well.
**eTable 1. Results of Multivariable Logistic Regression Analysis on Financial Challenges among Black and White Patients**

|                          | Odds Ratio<sup>1</sup> (95% CI) | p-value | Odds Ratio<sup>2</sup> (95% CI) | p-value | Odds Ratio<sup>3</sup> (95% CI) | p-value |
|--------------------------|---------------------------------|---------|---------------------------------|---------|---------------------------------|---------|
| Age at Survey (per 10-year increase) | 0.69 (0.62, 0.77) | <0.001 | 0.75 (0.66, 0.85) | <0.001 | 0.75 (0.66, 0.84) | <0.001 |
| Race                     |                                 |         |                                 |         |                                 |         |
| White patients           | 1.00                            | -       | 1.00                            | -       |                                 |         |
| Black patients           | 1.41 (1.07, 1.86)               | 0.015   | 1.17 (0.87, 1.59)               | 0.30    |                                 |         |
| Insurance Type           |                                 |         |                                 |         |                                 |         |
| Private Insurance        | 1.00                            | -       | 1.00                            | -       |                                 |         |
| Any Medicaid             | 3.65 (2.09, 6.38)               | <0.001  | 3.32 (1.85, 5.96)               | <0.001  |                                 |         |
| Medicare                 | 0.69 (0.44, 1.08)               | 0.11    | 0.68 (0.43, 1.07)               | 0.094   |                                 |         |
| Other/Unknown/Uninsured* | 1.12 (0.76, 1.64)               | 0.57    | 1.12 (0.76, 1.64)               | 0.57    |                                 |         |

<sup>1</sup> Multivariable logistic model 1: financial challenge ~ age at survey + race
<sup>2</sup> Multivariable logistic model 2: financial challenge ~ age at survey + insurance type
<sup>3</sup> Multivariable logistic model 3: financial challenge ~ age at survey + race + insurance type

* The uninsured group is combined with the others group because of small sample size
### eTable 2. Distribution of Selected Demographic and Clinical Factors between Respondents and Non-respondents

|                          | Respondents (n=1300) | Non-respondents (n=1361) | p-value* |
|--------------------------|-----------------------|--------------------------|----------|
| **Age at Survey**        |                       |                          |          |
| < 40 years old           | 46 (3.5%)             | 51 (3.7%)                | 0.83     |
| 40 - 50 years old        | 168 (12.9%)           | 169 (12.4%)              |          |
| 50 – 60 years old        | 337 (25.9%)           | 367 (27.0%)              |          |
| 60 – 70 years old        | 389 (29.9%)           | 386 (28.4%)              |          |
| > 70 years old           | 360 (27.7%)           | 388 (28.5%)              |          |
| **Race**                 |                       |                          |          |
| White                    | 930 (71.5%)           | 781 (57.4%)              | <0.001   |
| Black                    | 291 (22.4%)           | 464 (34.1%)              |          |
| Others                   | 79 (6.1%)             | 116 (8.5%)               |          |
| **Time Since Diagnosis** |                       |                          |          |
| < 1 year                 | 52 (4.0%)             | 24 (1.8%)                | <0.001   |
| 1 – 5 years              | 560 (43.1%)           | 399 (29.3%)              |          |
| > 5 years                | 669 (51.5%)           | 923 (67.8%)              |          |
| Unknown                  | 19 (1.5%)             | 15 (1.1%)                |          |
| **Breast Cancer Subtype**|                       |                          | 0.87     |
| HR+/Her2-                | 621 (47.8%)           | 642 (47.2%)              |          |
| HR+/Her2+                | 96 (7.4%)             | 111 (8.2%)               |          |
| HR-/Her2+                | 50 (3.8%)             | 57 (4.2%)                |          |
| TNBC                     | 156 (12.0%)           | 164 (12.0%)              |          |
| Unknown                  | 377 (29.0%)           | 387 (28.4%)              |          |
| **Tumor Stage**          |                       |                          | 0.037    |
| 0                        | 209 (16.1%)           | 222 (16.3%)              |          |
| 1                        | 519 (39.9%)           | 476 (35.0%)              |          |
| 2                        | 326 (25.1%)           | 395 (29.0%)              |          |
| 3                        | 116 (8.9%)            | 114 (8.4%)               |          |
| 4                        | 11 (0.8%)             | 22 (1.6%)                |          |
| Unknown                  | 119 (9.2%)            | 132 (9.7%)               |          |
| **Charlson Comorbidity Index** |               |                          | <0.001   |
| 0                        | 1044 (80.3%)          | 1008 (74.1%)             |          |
| 1                        | 66 (5.1%)             | 109 (8.0%)               |          |
| ≥ 2                      | 87 (6.7%)             | 124 (9.1%)               |          |
| Unknown                  | 103 (7.9%)            | 120 (8.8%)               |          |
| **Insurance Type**       |                       |                          | <0.001   |
| Uninsured                | 2 (0.2%)              | 5 (0.4%)                 |          |
| Any Medicaid             | 63 (4.8%)             | 118 (8.7%)               |          |
| Medicare                 | 255 (19.6%)           | 253 (18.6%)              |          |
| Private Insurance        | 839 (64.5%)           | 815 (59.9%)              |          |
| Other/Unknown            | 141 (10.8%)           | 170 (12.5%)              |          |

* The four breast cancer subtypes are: HR+/HER2- [estrogen receptor (ER) or progesterone receptor (PR) positive (together referred as hormone receptor (HR) positive) and human epidermal growth factor receptor 2 (HER2) negative]; HR+/HER2+ (ER or PR positive and HER2 positive); HR-/HER2+ (ER and PR negative and HER2 positive); and TNBC (triple-negative breast cancer, ER and PR negative and HER2 negative)

* Comparison between respondents and non-respondents using chi-square tests (including missing category)
### eTable 3. Main Findings after IPW between Black and White Patients

| Psychosocial Well-being                        | Non-Hispanic White | Non-Hispanic Black | p-value* |
|------------------------------------------------|--------------------|--------------------|----------|
| Feeling of isolation pre-COVID, median (IQR)   | 0.5 (0.0, 1.0)     | 0.0 (0.0, 1.0)     | 0.003    |
| Feeling of isolation, median (IQR)             | 0.8 (0.5, 1.2)     | 0.8 (0.5, 1.2)     | 0.982    |
| Feeling of stress, median (IQR)                | 1.3 (0.9, 1.7)     | 1.3 (0.7, 1.9)     | 0.852    |
| Overall isolation/stress score, median (IQR)   | 1.2 (0.7, 1.5)     | 1.1 (0.7, 1.5)     | 0.823    |
| **COVID Testing**                              |                    |                    |          |
| No                                             | 670.3 (79.3%)      | 223.6 (62.5%)      | <0.001   |
| Yes                                            | 174.2 (20.6%)      | 134.0 (37.5%)      |          |
| **COVID Test Positive**                        |                    |                    |          |
| No                                             | 837.8 (99.2%)      | 347.9 (98.1%)      | 0.099    |
| Yes                                            | 6.5 (0.8%)         | 6.8 (1.9%)         |          |
| **Any financial challenge**                    |                    |                    |          |
| No                                             | 579.6 (68.2%)      | 231.1 (62.2%)      | 0.068    |
| Yes                                            | 270.0 (31.8%)      | 140.2 (37.8%)      |          |
| **Any treatment difficulty**                   |                    |                    |          |
| No                                             | 547.9 (77.5%)      | 244.6 (76.8%)      | 0.819    |
| Yes                                            | 159.4 (22.5%)      | 74.1 (23.2%)       |          |

* Comparison between non-Hispanic White patients and non-Hispanic Black patients using weighted linear regression for continuous variables and weighted logistic regression for categorical variables. Missing categories not reported.