**Table S1.** Sequence of primers used in qPCR.

| *Primers* | Sequence |
|---|---|
| *B2M* | *B2M* F: AGCAGAGAATGGAAAGTCAAA |
| | *B2M* R: TGTTGATGTTGGATAAGAGAA |
| *IL-1β* | *IL-1*β F: ACAGGATATGGAGCAACAAGTGG |
| | *IL1-β* R: GGGCTTATCATCTTTCAACACGC |
| *IL-6* | *IL-6* F: GATTCCAAAGATGTAGCCGCC |
| | *IL-6* R: ATTTTCACCAGGCAAGTCTCCTC |
| *IL-10* | *IL-10* F: ACCCACTTCCCAGGCAACC |
| | *IL-10* R: TGGCAACCCAGGTAACCCTT |
| *TNFα* | *TNFα* F: CAGGCGGTGCTTGTTCCT |
| | *TNFα* R: GGGGTTCGAGAAGATGATCTGAC |

F – primer forward; R – primer reverse.

**Table S2.** Transcriptional levels of inflammatory markers analyzed in breast cancer patients undergoing chemotherapy at a university hospital in Uberlândia, Minas Gerais, Brazil, 2014-2015.

| Inflammatory Markers | N | Median (p25-p75) |
|---|---|---|
| *IL-1β* | 22 | 1.11 (0.65-2.77) |
| *IL-6* | 23 | 0.28 (0.14-0.72) |
| *IL-10* | 23 | 1.06 (0.43-3.58) |
| *TNFα* | 20 | 1.24 (0.48-3.98) |

IL-1β, Interleukin-1β (n = 22); IL-6, Interleukin-6 (n = 22); IL-10, Interleukin-10 (n = 23); TNF-α, Tumor Necrosis Factor α (n = 20). Non-normal distribution.

**Table S3.** Plasma antioxidant markers in breast cancer patients undergoing chemotherapy at a university hospital in Uberlândia, Minas Gerais, Brazil, 2014-2015 (Median/mean and Percentiles/SD), n = 43.

| Antioxidant Markers | Median (p25-p75)<br>Mean ± SD |
|---|---|
| GR | 0.65 ± 0.49 |
| GPx | 6.51 ± 1.66 |
| GSH | 3.82 ± 0.81 |
| CAT | 0.13 ± 0.63 |
| SOD[a] | 0.10 (0.09-0.12) |

GR, Glutathione Reductase; GPx, Glutathione Peroxidase; GSH, Reduced Glutathione; SOD, Superoxide Dismutase; CAT, Catalase; SD, Standard Deviation. [a] Non-normal distribution (the others have a normal distribution).

**Table S4.** Characterization of women who presented post-treatment metastasis - data obtained in 2019 (N = 9 for metastatic cases and N = 46 for non-metastatic cases).

| Patient | TACd | DII |
|---|---|---|
| **ID1** | 8.753 | 2.59 |
| **ID2** | 5.831 | 3.21 |
| **ID3** | 8.655 | 2.17 |
| **ID4** | 4.588 | -0.41 |
| **ID5** | 10.196 | 1.13 |
| **ID6** | 2.784 | 1.87 |
| **ID7** | 4.435 | 2.19 |
| **ID8** | 2.047 | 1.89 |
| **ID9** | 11.477 | -0.84 |

| | | |
|---|---|---|
| **Metastasis cases Median (p25-p75)** | 5.83 (3.61 – 9.47) | 1.90 (0.36 – 2.39) |
| **Non-metastasis cases Median (p25-p75)** | 13.83 (7.93 – 21.22) | 1.89 (1.21 – 2.45) |

TACd, total antioxidant capacity of the diet; ID, identification; DII, dietary inflammatory index; metastasis cases, occurrence of metastases after T2 (n = 9); non-metastasis cases, no metastasis after T2 (n = 46).