

## Intrahospital costs in very low birth weight premature infants with bronchopulmonary dysplasia

### Costos intrahospitalarios de prematuros de muy bajo peso al nacer con displasia broncopulmonar

**Supplementary table 1. Characteristics of subjects excluded from the analysis. Neocosur Network in centers from Chile, 2006-2021**

|                                |              |
|--------------------------------|--------------|
| Gestational age                | 28 wk        |
| Female sex                     | 44.01%       |
| Prenatal corticosteroids       | 84.5%        |
| NICU days                      | 54           |
| MV days                        | 13           |
| O <sub>2</sub> days            | 37           |
| Discharge with O <sub>2</sub>  | 502 (17.41%) |
| Surfactant use (%)             | 2601 (66.2%) |
| Major congenital malformations | 545          |
| Central nervous system defects | 55           |
| Cardiac defects                | 75           |
| Gastrointestinals defects      | 36           |
| Genitourinary defects          | 39           |
| Chromosomal abnormalities      | 65           |
| Necrotizing enterocolitis      | 1040         |
| Severe IVH                     | 1540         |
| Periventricular leukomalacia   | 433          |
| Late-onset sepsis              | 826          |
| Another defects                | 68           |
| Death before 28 days           | 1088         |

Wk: Week; NICU: Neonatal intensive care unit; MV: Mechanical ventilation; O<sub>2</sub>: Oxygen; IVH: Intraventricular hemorrhage. NICU days, MV days and O<sub>2</sub> days are expressed on average. It is important to highlight that there were patients with more than one comorbidity.

**Supplementary table 2. Variation in BPD cost per year. Neocosur Network of centers from Chile, 2006-2021**

| Year | Cost per year<br>(Chilean pesos) | Cost per year<br>(USD) | Subjects |
|------|----------------------------------|------------------------|----------|
| 2006 | 2.954.528 ± 1.053.005            | 5446.54 ± 1941.17      | 83       |
| 2007 | 3.012.765 ± 1.020.253            | 5719.86 ± 1936.99      | 92       |
| 2008 | 2.980.470 ± 905.151              | 6038.11 ± 1833.74      | 84       |
| 2009 | 3.200.319 ± 1.155.848            | 5786.35 ± 2089.84      | 91       |
| 2010 | 3.074.935 ± 1.044.209            | 5729.66 ± 1945.72      | 105      |
| 2011 | 3.509.863 ± 1.062.599            | 7477.18 ± 2263.69      | 109      |
| 2012 | 3.750.346 ± 1.213.761            | 7417.17 ± 2400.49      | 90       |
| 2013 | 3.721.134 ± 1.141.937            | 7399.50 ± 2270.75      | 91       |
| 2014 | 3.550.762 ± 1.205.981            | 6420.21 ± 2180.56      | 125      |
| 2015 | 4.125.840 ± 1.393.075            | 6549.05 ± 2211.27      | 105      |
| 2016 | 4.142.097 ± 1.190.779            | 6081.75 ± 1748.39      | 101      |
| 2017 | 4.006.245 ± 1.178.025            | 6023.07 ± 1771.07      | 110      |
| 2018 | 4.234.447 ± 1.555.900            | 6656.37 ± 2445.81      | 90       |
| 2019 | 4.799.736 ± 1.775.845            | 6903.04 ± 2564.73      | 83       |
| 2020 | 4.773.132 ± 1.595.908            | 6013.62 ± 2010.67      | 91       |
| 2021 | 5.299.209 ± 1.556.893            | 7293.76 ± 2142.89      | 84       |

Cost per year expressed in mean and standard deviation. The dollar value was obtained from of "Servicio de impuestos internos" from Chile, using the dollar value from June of each year. BPD: Bronchopulmonary dysplasia.

**Supplementary table 3. Variation by year of the variables associated with costs**

| Year    | NICU day cost     | NICU days         | MV days           | O <sub>2</sub> days | N° surfactant doses |
|---------|-------------------|-------------------|-------------------|---------------------|---------------------|
| 2006    | \$33.560          | 85                | 16                | 51                  | 1.8                 |
| 2007    | \$34.730          | 82                | 16                | 60                  | 1.8                 |
| 2008    | \$36.190          | 79                | 11                | 56                  | 1.5                 |
| 2009    | \$38.430          | 81                | 12                | 53                  | 1.7                 |
| 2010    | \$39.101          | 77                | 10                | 44                  | 1.6                 |
| 2011    | \$40.170          | 84                | 15                | 71                  | 1.7                 |
| 2012    | \$40.970          | 91                | 15                | 75                  | 1.7                 |
| 2013    | \$41.790          | 86                | 15                | 72                  | 1.6                 |
| 2014    | \$42.420          | 81                | 10                | 62                  | 1.5                 |
| 2015    | \$43.690          | 93                | 15                | 71                  | 1.7                 |
| 2016    | \$45.350          | 89                | 15                | 78                  | 1.6                 |
| 2017    | \$46.710          | 82                | 14                | 71                  | 1.5                 |
| 2018    | \$47.920          | 78                | 14                | 66                  | 1.6                 |
| 2019    | \$52.270          | 81                | 20                | 66                  | 1.6                 |
| 2020    | \$55.000          | 80                | 14                | 66                  | 1.5                 |
| 2021    | \$55.000          | 95                | 18                | 85                  | 1.6                 |
| Valor-p | <b>&lt; 0.001</b> | <b>&lt; 0.001</b> | <b>&lt; 0.001</b> | <b>&lt; 0.001</b>   | <b>&lt; 0.001</b>   |

P-value shows significant difference over the years. NICU: Neonatal intensive care unit; MV: Mechanical ventilation; O<sub>2</sub>: Oxygen.