Supplementary Online Content


**eAppendix.**

This supplementary material has been provided by the authors to give readers additional information about their work.
Online Appendix

Operational Definitions

I. Palivizumab claims
II. Hospitalizations due to bronchiolitis or pneumonia
III. Patient categories
I. Palivizumab claims

Palivizumab pharmacy claims were identified if associated with any of the following NDC codes: 60574411101, 60574411201, 60574411301, or 60574411401

II. Hospitalizations due to bronchiolitis or pneumonia

1. RSV-related: ICD-9 codes: 079.6, 466.11 or 480.1 for inpatient claims
2. Specific to other organisms including bacterial infections: 480.0, 480.2, 480.3, 480.8, 481, 482.xx, 483.xx, 484.xx, 466.19
3. Unspecified: 480.9, 486, 466.1

III. Patient categories

1. Chronic Lung Disease

   Children younger than 2 years with chronic lung disease (CLD) who received medication for CLD (Steroids, bronchodilators, oxygen, diuretics) within 6 months of the current month
      ○ They need to have at least one (ICD-9: 770.7, 496x) claim at any time since birth and
      ○ At least one of
         a) with at least one of the following generic drug codes:
            20110, 14633, 14634, 20100, 20101, 22697, 22780, 22910, 22913, 24858, 24859, 41680, 41681, 41683, 45730, 45731, 45732, 13456, 72951, 15665, 23146, 24540, 24541, 36801, 19701, 19710, 19711, 19712, 19720, 19730, 19731, 64012, 64026, 50584, 50594, 50604, 09950, 20060, 20071, 20072, 20100, 20101, 22697, 22780, 22910, 22913, 24858, 24859, 41680, 41681, 41683, 45730, 45731, 45732, 13456, 72951, 15665, 23146, 24540, 24541, 36801, 19701, 19710, 19711, 19712, 19720, 19730, 19731, 64012, 64026, 50584, 50594, 50604, 09950, 20060, 20071, 20072, 21815, 24731, 00233, 00260, 00261, 00262, 00263, 00265, 00310, 00311, 00312, 00313, 00316, 00320, 00323, 00324, 00325, 00326, 00352, 00371, 00410, 00411, 00412, 00413, 00414, 00415, 00416, 00421, 00422, 01080, 24621, 42230, 42233, 42235, 42238, 42239, 90107, 17853, 00950, 15793, 34270, 47100, 47102, 80128, 80131, 17957, 17958, 27740, 28680, 62998, 92231, 26480, 24682, 26483, 22691, 27400, 27411, 27412, 27421, 27422, 27424, 27425, 27426, 27427, 27428, 27429, 41691, 41950, 27280, 27350, 27354, 33200, 33220, 27680, 00840, 19663, 34280, 52861, 24717, 48641, 53633, 53634, 53635, 53636, 53638, 53639, 62263, 50584, 50594, 50604, 09180, 09181, 26781, 26782, 26783, 30942, 30943, 30975, 66392, 26521, 30846, 85200, 30880, 30885, 48811, 20706, 26620, 26640, 18878, 18879, 18880, 18882, 26650, 26651, 26652, 26653, 14273, 85220, 45920, 45930, 71431, 26800, 26892, 26963, 26829, 09115, 28650, 33806, 27160, 27161, 27171, 27172, 27173, 27174, 27175, 27176, 38363, 38364, 27614, 01210, 01211, 01214, 27450, 27452, 27490, 30629, 31200, 31231, 31241, 31242, 31243, 31260, 31261, 31870, 53440, 53441, 53442, 53821, 27542, 27560, 27562, 00081, 00082, 00100, 00101, 00110, 00120, 00132, 00133, 00134, 54940, 54941, 54942, 88000, 48614, 47264, 00960, 00961, 00962, 00963, 01480, 01481, 01482, 01483, 10455, 13758, 13759, 15621, 15777, 25750, 25751, 25752, 25753, 32191, 32192, 33191, 33192, 33193, 33194, 47260, 47261, 47262, 47263, 47264, 47265, 48541, 48542, 48543, 48561, 48562, 48580, 48581, 48582, 48611, 48612, 48613, 48614, 54160, 54161, 54680, 54682, 54940, 54941, 54942, 54943, 67721, 67722, 88000, 88001, 88002, 93207, 94490, 34700, 34721, 34722, 34740, 34741, 07310, 07311, 10270, 10271, 34820, 34824, 34825, 34826, 34830, 34842, 34852, 34861, 34871, 34872, 34880, 34881, 34882, 34961, 34962, 34963, 34981, 34982, 34984, 34985, 34990, 34991, 34992, 88740, 27690, 27691, 27692, 27700, 35040, 35041, 91883, 91884, 82330, 82331, 82341, 88730, 88731, 88740, 88741, 21130, 21131, 21132, 21133, 34900, 34910, 34950, 34951, 34961, 34962, 34963, 35020, 35021, 35022
b) ICD-9 code: V46.2

c) Oxygen Procedure Code: 93.96, E1390, E1392, E1400, E1401, E1402, E1403, E1404, E1405, E1406, E0424, E0431, E0434, E0439, E0441, E0442, E0443, E0444, E0450, within 6 months before the current month

2. Premature infants

Children with gestational age up to 32 weeks if they are not more than 6 months old at the beginning of the current month

3. Congenital Heart Disease

Children younger than 2 years with hemodynamically significant cyanotic and acyanotic congenital heart disease.

Acyanotic CHD is only considered significant if medication (ACE-Inhibitor, Digoxin, Diuretics, or Oxygen) is necessary to treat the disease.

They need to have at least one of the following ICD-9 codes: 745.10, 747.41, 745.0, 745.11, 745.2, 747.42, 745.3, 746.1, 746.7, 746.8, 745.12, 745.19, 746.2, 747.3, 747.4, 747.40, 747.49 (cyanotic heart disease) any time since birth

OR

[at least one of the ICD-9 codes: 746.86, 747.11, 747.22, 745.4, 745.5, 745.6, 745.60, 745.61, 745.69, 745.7, 745.8, 745.9, 746.0, 746.01, 746.02, 746.09, 746.3, 746.4, 746.5, 746.6, 746.8, 746.82, 746.83, 746.84, 746.85, 746.86, 746.87, 746.89, 747.0, 747.1, 747.10, 746.9, 747.2, 747.20, 747.21, 747.29, 747.5, 747.6, 747.60, 747.61, 747.62, 747.63, 747.64, 747.69, 747.8, 747.81, 747.82, 747.83, 747.89, 747.9 (Acyanotic CHD) any time since birth

AND

At least one of the following generic drug codes:

00081, 00082, 00100, 00101, 00110, 00120, 00132, 00133, 00134, 00135, 54940, 54941, 54943, 88000, 48614, 47264, 00960, 00961, 00962, 00963, 01480, 01481, 01482, 01483, 01484, 10455, 13758, 13759, 15621, 15777, 27570, 27571, 27572, 27573, 32191, 32192, 32193, 33191, 33192, 33193, 33194, 47260, 47261, 47262, 47263, 47264, 47265, 48541, 48542, 48543, 48545, 48562, 48580, 48581, 48582, 48611, 48612, 48613, 48614, 48615, 48616, 54160, 54161, 54162, 54860, 54862, 54864, 54940, 54941, 54942, 54943, 67721, 67722, 88000, 88001, 88002, 93207, 94490, 34700, 34721, 34722, 34740, 34741, 07310, 07311, 10270, 10271, 34820, 34824, 34825, 34790, 34802, 34803, 34830, 34842, 34852, 34861, 34871, 34872, 34880, 34881, 34882, 34961, 34962, 34963, 34981, 34982, 34984, 34985, 34990, 34991, 34992, 88740, 27690, 27691, 27692, 27700, 35040, 35041, 91883, 91884, 82330, 82331, 82341, 88730, 88731, 88740, 88741, 21130, 21131, 21132, 21133, 34900, 34910, 34950, 34951, 34961, 34962, 34963, 35020, 35021, 35022,


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