

# Pupočníková krv z rodinných bánk použitá na autológne a súrodenecké transplantácie

Pupočníková krv je dnes akceptovaným zdrojom krvotvorných kmeňových buniek na transplantácie pri hematologických, onkologických i genetických ochoreniach. Transplantológovia čoraz viac využívajú pupočníkovú krv uskladnenú v rodinných bankách a to na autológnu či súrodeneckú liečbu. Tabuľka sumarizuje publikované prípady použitia pupočníkovej krvi z rodinných bánk na štandardné transplantácie krvotvorných kmeňových buniek.

| Rok                                   | Pupočníková krv | Transplantačné centrum                                | Banka pupočníkovej krvi |
|---------------------------------------|-----------------|---|-------------------------|
| <b>Akútna lymfoblastická leukémia</b> |                 |   |                         |
| 2004                                  | autológna       | Oak Lawn Hospital, Oak Lawn, USA                      | Vita 34                 |
| 2011                                  | od súrodenca    | Cohen Children's Medical Center, New York, USA        | ViaCord                 |
| 2011                                  | od súrodenca    | Rainbow Babies and Children Hospital, Cleveland, USA  | CBR                     |
| 2011                                  | od súrodenca    | Maria Fareri Children's Hospital, Valhalla, USA       | CBR                     |
| 2010                                  | od súrodenca    | Cook Children's Medical Center, Fort Worth, USA       | CBR                     |
| 2010                                  | od súrodenca    | Hospital for Sick Children, Toronto, Kanada           | Insception Biosciences  |
| 2010                                  | od súrodenca    | Hospital for Sick Children, Toronto, Kanada           | Insception Biosciences  |
| 2010                                  | od súrodenca    | Cook Children's Medical Center, Fort Worth, USA       | ViaCord                 |
| 2009                                  | od súrodenca    | Europe  | Cryo-Save               |
| 2009                                  | od súrodenca    | Riley Hospital for Children, Indianapolis, USA        | ViaCord                 |
| 2009                                  | od súrodenca    | City of Hope, Duarte, USA                             | ViaCord                 |
| 2008                                  | od súrodenca    | University Medical Center, Tucson, USA                | CBR                     |
| 2008                                  | od súrodenca    | Children's Hospital of Wisconsin, Milwaukee, USA      | CBR                     |
| 2008                                  | od súrodenca    | UCLA, Los Angeles, USA                                | ViaCord                 |
| 2008                                  | od súrodenca    | Dana-Farber Cancer Institute, Boston, USA             | ViaCord                 |
| 2008                                  | od súrodenca    | Dana-Farber Cancer Institute, Boston, USA             | ViaCord                 |
| 2007                                  | od súrodenca    | Shands University of Florida, Gainesville, USA        | CBR                     |
| 2007                                  | od súrodenca    | University of Michigan, Ann Arbor, USA                | ViaCord                 |
| 2007                                  | od súrodenca    | University of North Carolina, Chapel Hill, USA        | ViaCord                 |
| 2007                                  | od súrodenca    | Duke University, Durham, USA                          | ViaCord                 |
| 2007                                  | od súrodenca    | Children's Memorial Hospital, Chicago, USA            | ViaCord                 |
| 2006                                  | od súrodenca    | Hospital 20 de Noviembre ISSTE, Mexico                | Cryo-Cell               |
| 2006                                  | od súrodenca    | Kapi'olani Medical Center, Honolulu, USA              | ViaCord                 |
| 2006                                  | od súrodenca    | Shands University of Florida, Gainesville, USA        | ViaCord                 |
| 2006                                  | od súrodenca    | Duke University, Durham, USA                          | ViaCord                 |
| 2005                                  | od súrodenca    | UC Davis Medical Center, Sacramento, USA              | ViaCord                 |
| 2004                                  | od súrodenca    | Ruiz Arguelles Clinic, Puebla, Mexico                 | Cryo-Cell               |
| 2004                                  | od súrodenca    | Cook Children's Medical Center, Fort Worth, USA       | CBR                     |
| 2004                                  | od súrodenca    | University Medical Center, Tucson, USA                | CBR                     |
| 2004                                  | od súrodenca    | Shands University of Florida, Gainesville, USA        | CBR                     |
| 2003                                  | od súrodenca    | Uni of Michigan, Michigan, USA                        | Cryo-Cell               |
| 2003                                  | od súrodenca    | Vanderbilt Medical Center, Nashville, USA             | CBR                     |
| 2003                                  | od súrodenca    | Hackensack University Medical Center, Hackensack, USA | CBR                     |
| 2003                                  | od súrodenca    | Hospital for Sick Children, Toronto, Kanada           | Insception Biosciences  |
| 2003                                  | od súrodenca    | Oregon Health & Science University, Portland, USA     | ViaCord                 |

| Rok  | Pupočniková krv | Transplantačné centrum                                 | Banka pupočnikovej krvi |
|------|-----------------|--|-------------------------|
| 2003 | od súrodenca    | Oregon Health & Science University, Portland, USA      | ViaCord                 |
| 2003 | od súrodenca    | Riley Hospital for Children, Indianapolis, USA         | ViaCord                 |
| 2003 | od súrodenca    | Cincinnati Children's Hospital, Cincinnati, USA        | ViaCord                 |
| 2003 | od súrodenca    | Fred Hutchinson Cancer Research Center, Seattle, USA   | ViaCord                 |
| 2003 | od súrodenca    | Children's Hospital, Denver, USA                       | ViaCord                 |
| 2002 | od súrodenca    | City of Hope, Duarte, USA                              | CBR                     |
| 2002 | od súrodenca    | City of Hope, Duarte, USA                              | CBR                     |
| 2002 | od súrodenca    | Children's Hospital San Diego, San Diego, USA          | CBR                     |
| 2002 | od súrodenca    | Children's Hospital Los Angeles, Los Angeles, USA      | CBR                     |
| 2002 | od súrodenca    | Johns Hopkins Hospital, Baltimore, USA                 | ViaCord                 |
| 2002 | od súrodenca    | Lucile Packard Children's Hospital, Palo Alto, USA     | ViaCord                 |
| 2001 | od súrodenca    | University Medical Center, Tucson, USA                 | CBR                     |
| 2001 | od súrodenca    | Children's Hospital of Pennsylvania, Philadelphia, USA | CBR                     |
| 2001 | od súrodenca    | Hospital for Sick Children, Toronto, Kanada            | Inception Biosciences   |
| 2001 | od súrodenca    | Johns Hopkins Hospital, Baltimore, USA                 | ViaCord                 |
| 2000 | od súrodenca    | Devos Children's Hospital, Grand Rapids, USA           | CBR                     |
| 2000 | od súrodenca    | Children's Hospital of Wisconsin, Milwaukee, USA       | CBR                     |
| 1999 | od súrodenca    | University Medical Center, Tucson, USA                 | CBR                     |
| 1998 | od súrodenca    | Kaiser Hospital Los Angeles, Los Angeles, USA          | CBR                     |
| 1997 | od súrodenca    | Children's Hospital Los Angeles, Los Angeles, USA      | CBR                     |
| 1996 | od súrodenca    | University Medical Center, Tucson, USA                 | CBR                     |
| 1996 | od súrodenca    | University of Miami, Miami, USA                        | ViaCord                 |

### Akútna myeloidná leukémia

|      |              |  |           |
|------|--------------|--|-----------|
| 2012 | od súrodenca | Children's Healthcare of Atlanta, Atlanta, USA         | CBR       |
| 2012 | od súrodenca | Children's National Medical Center, Washington DC, USA | ViaCord   |
| 2011 | od súrodenca | Amplatz Children's Hospital, Minneapolis, USA          | ViaCord   |
| 2011 | od súrodenca | Shanghai Daopei Hospital, Shanghai, Čína               | CBR       |
| 2009 | od súrodenca | Children's National Medical Center, Washington DC, USA | ViaCord   |
| 2008 | od súrodenca | All Children's Hospital, St. Petersburg, USA           | ViaCord   |
| 2008 | od súrodenca | All Children's Hospital, St. Petersburg, USA           | CBR       |
| 2008 | od súrodenca | Hospital Juan I. Menchaca, Guadalajara, Mexico Mexico  | Cryo-Cell |
| 2008 | od súrodenca | UCSF Medical Center, San Francisco, USA                | CBR       |
| 2008 | od súrodenca | University Medical Center, Tucson, USA                 | CBR       |
| 2007 | od súrodenca | Columbus Children's Hospital, Columbus, USA            | ViaCord   |
| 2007 | od súrodenca | Children's Hospital of Boston, Boston, USA             | CBR       |
| 2007 | od súrodenca | Westchester Medical Center, Valhalla, USA              | CBR       |
| 2006 | od súrodenca | All Children's Hospital, St. Petersburg, USA           | CBR       |
| 2006 | od súrodenca | Riley Hospital for Children, Indianapolis, USA         | ViaCord   |
| 2006 | od súrodenca | UCLA, Los Angeles, USA                                 | ViaCord   |
| 2005 | od súrodenca | Apollo Specialty Hospital, Chennai, India              | Cryo-Cell |
| 2005 | od súrodenca | Children's Hospital & Research Center, Oakland, USA    | ViaCord   |
| 2005 | od súrodenca | University Medical Center, Tucson, USA                 | ViaCord   |
| 2004 | od súrodenca | Primary Children's Medical Center, Salt Lake City, USA | ViaCord   |
| 2003 | od súrodenca | New York-Presbyterian Hospital, New York, USA          | ViaCord   |
| 2002 | od súrodenca | Children's Hospital & Research Center, Oakland, USA    | ViaCord   |
| 2002 | od súrodenca | Texas Transplant Institute, San Antonio, USA           | ViaCord   |

| Rok  | Pupočniková krv | Transplantačné centrum                             | Banka pupočnikovej krvi |
|------|-----------------|--|-------------------------|
| 2002 | od súrodca      | UCSF Medical Center, San Francisco, USA            | ViaCord                 |
| 2002 | od súrodca      | University of Nebraska, Omaha, USA                 | ViaCord                 |
| 2001 | od súrodca      | City of Hope, Duarte, USA                          | CBR                     |
| 2000 | od súrodca      | University of Minnesota, Minneapolis, USA          | ViaCord                 |
| 1998 | od súrodca      | Lucile Packard Children's Hospital, Palo Alto, USA | CBR                     |
| 1997 | od súrodca      | Rush University, Chicago, USA                      | ViaCord                 |

### Chronická myeloidná leukémia

|      |            |   |                     |
|------|------------|---|---------------------|
| 2008 | od súrodca | Apollo Specialty Hospital, Chennai, India | Cryo-Cell           |
| 1999 | od súrodca | Detská fakultná nemocnica, Bratislava, SR | KHaT FN, Bratislava |
| 1993 | od súrodca | University of Minnesota, Minneapolis, USA | CBR                 |

### Aplastická anémia

|      |            |   |                   |
|------|------------|---|-------------------|
| 2011 | autológna  | Children's Hospital, Los Angeles, USA                 | CBR               |
| 2010 | autológna  | Children's Hospital of Alabama, Birmingham, USA       | ViaCord           |
| 2009 | autológna  | MD Anderson Cancer Center, Houston, USA               | ViaCord           |
| 2006 | autológna  | City of Hope, Duarte, USA                             | CBR               |
| 2006 | autológna  | City of Hope, Duarte, USA                             | CBR               |
| 2004 | autológna  | Children's Hospital, Seattle, USA                     | CBR               |
| 2004 | autológna  | Universitaetsklinikum, Frankfurt, Nemecko             | Cryo-Save         |
| 2002 | autológna  | Cedars-Sinai Medical Center, LA, USA                  | Cryo-Cell         |
| 2002 | autológna  | University of Minnesota, Minneapolis, USA             | CBR               |
| 2001 | autológna  | Mount Sinai Medical Center, New York, USA             | ViaCord           |
| 2012 | od súrodca | Dana-Farber Cancer Institute, Boston, USA             | ViaCord           |
| 2009 | od súrodca | Detská fakultná nemocnica, Bratislava, SR             | Eurocord-Slovakia |
| 2008 | od súrodca | USA   | Cryo-Cell         |
| 2007 | od súrodca | Children's Hospital of Wisconsin, Milwaukee, USA      | ViaCord           |
| 2007 | od súrodca | University of Minnesota, Minneapolis, USA             | ViaCord           |
| 2006 | od súrodca | Children's Hospital of Wisconsin, Milwaukee, USA      | CBR               |
| 2005 | od súrodca | Hannover, Nemecko                                     | Vita 34           |
| 2005 | od súrodca | New York Medical College, Valhalla, USA               | ViaCord           |
| 2004 | od súrodca | UC Davis Medical Center, Sacramento, USA              | CBR               |
| 2001 | od súrodca | Memorial Sloan-Kettering Cancer Center, New York, USA | ViaCord           |
| 2000 | od súrodca | Children's Hospital & Research Center, Oakland, USA   | ViaCord           |
| 1997 | od súrodca | Duke University, Durham, USA                          | ViaCord           |

### Meduloblastóm

|      |           |  |                   |
|------|-----------|--|-------------------|
| 2009 | autológna | Centro De Transfusions de la Comunidad de Madrid, Španielsko | Cryo-Save         |
| 2007 | autológna | Starship Children's Hospital, Auckland, Nový Zéland          | CordBank          |
| 2004 | autológna | Detská fakultná nemocnica, Bratislava, SR                    | Eurocord-Slovakia |

### Myelodysplastický syndróm

|      |            |  |                        |
|------|------------|--|------------------------|
| 2010 | autológna  | University of Erlangen, Erlangen, Nemecko              | ViaCord                |
| 2009 | autológna  | Chi Mei Medical Center, Taiwan                         | Bionet                 |
| 2006 | od súrodca | Hospital for Sick Children, Toronto, Kanada            | Insception Biosciences |
| 2006 | od súrodca | Children's Hospital of Philadelphia, Philadelphia, USA | ViaCord                |
| 2003 | od súrodca | University of Mississippi, Jackson, USA                | ViaCord                |
| 1999 | od súrodca | Oregon Health & Science University, Portland, USA      | ViaCord                |
| 1995 | od súrodca | University Medical Center, Tucson, USA                 | CBR                    |

| Rok | Pupočniková krv | Transplantačné centrum | Banka pupočnikovej krvi |
|-----|-----------------|------------------------|-------------------------|
|-----|-----------------|------------------------|-------------------------|

### Neuroblastóm

|      |           |  |                               |
|------|-----------|--|-------------------------------|
| 2009 | autológna | Royal Children's Hospital, Melbourne, Austrália      | Cell Care                     |
| 2007 | autológna | Medical City Children's Hospital, Dallas, USA        | Cryo-Cell                     |
| 2007 | autológna | Queen Mary Hospital, Hong Kong                       | Progenics Cord Blood Cryobank |
| 2007 | autológna | Starship Children's Hospital, Auckland, Nový Zéland  | CordBank                      |
| 2006 | autológna | Vanderbilt University Medical Center, Nashville, USA | Cryo-Cell                     |
| 2001 | autológna | Texas Children's Hospital, Houston, USA              | ViaCord                       |
| 1998 | autológna | Albert Einstein Hospital, Sao Paulo, Brazília        | Albert Einstein Hospital      |

### Retinoblastóm

|      |           |   |                        |
|------|-----------|---|------------------------|
| 2008 | autológna | Hospital for Sick Children, Toronto, Kanada | Inspection Biosciences |
| 2001 | autológna | Hospital for Sick Children, Toronto, Kanada | Inspection Biosciences |

### Shwachman-Diamondov syndróm

|      |              |   |            |
|------|--------------|---|------------|
| 2003 | autológna    | Children's Hospital, Denver, USA                | FamilyCord |
| 2006 | od súrodenca | Cincinnati Children's Hospital, Cincinnati, USA | ViaCord    |

### Ewing sarkóm

|      |           |                                       |                           |
|------|-----------|---------------------------------------|---------------------------|
| 2008 | autológna | Hospital Durango, Mexico City, Mexiko | Banco de Cordon Umbilical |
|------|-----------|---------------------------------------|---------------------------|

### Neuronálny tumor

|      |           |  |         |
|------|-----------|--|---------|
| 2008 | autológna | Children's Memorial Hospital, Chicago, USA | ViaCord |
|------|-----------|--|---------|

### Mozgový nádor

|      |           |   |                        |
|------|-----------|---|------------------------|
| 2007 | autológna | Miami Children's Hospital, Miami, USA       | ViaCord                |
| 2006 | autológna | Hospital for Sick Children, Toronto, Kanada | Inspection Biosciences |

### Blackfan - Diamondova anémia

|      |              |   |                     |
|------|--------------|---|---------------------|
| 2007 | od súrodenca | Schneider Children's Hospital, New Hyde Park, USA | CBR                 |
| 2004 | od súrodenca | Hospital for Children, Wilmington, USA            | Cryo-Cell           |
| 2003 | od súrodenca | Dana-Farber Cancer Institute, Boston, USA         | ViaCord             |
| 2001 | od súrodenca | Detská fakultná nemocnica, Bratislava, SR         | KHaT FN, Bratislava |
| 1999 | od súrodenca | Detská fakultná nemocnica, Bratislava, SR         | KHaT FN, Bratislava |

### Fanconiho anémia

|      |              |   |         |
|------|--------------|---|---------|
| 2012 | od súrodenca | City of Hope, Duarte, USA                             | ViaCord |
| 2012 | od súrodenca | Maria Fareri Children's Hospital, Valhalla, USA       | ViaCord |
| 2009 | od súrodenca | Memorial Sloan-Kettering Cancer Center, New York, USA | ViaCord |
| 2005 | od súrodenca | Cincinnati Children's Hospital, Cincinnati, USA       | ViaCord |
| 2004 | od súrodenca | Children's Hospital San Diego, San Diego, USA         | CBR     |
| 2003 | od súrodenca | Cincinnati Children's Hospital, Cincinnati, USA       | ViaCord |
| 2002 | od súrodenca | University of Minnesota, Minneapolis, USA             | ViaCord |
| 1999 | od súrodenca | Johns Hopkins Hospital, Baltimore, USA                | ViaCord |
| 1999 | od súrodenca | University Medical Center, Tucson, USA                | CBR     |

### Vrodená dyserytropeická anémia

|      |              |                             |           |
|------|--------------|-----------------------------|-----------|
| 2010 | od súrodenca | University of Michigan, USA | Cryo-Cell |
|------|--------------|-----------------------------|-----------|

### $\beta$ -Talasémia

|      |              |   |                        |
|------|--------------|---|------------------------|
| 2011 | od súrodenca | Lucile Packard Children's Hospital, Palo Alto, USA    | ViaCord                |
| 2011 | od súrodenca | Children's Medical Center of Dallas, Dallas, USA      | ViaCord                |
| 2011 | od súrodenca | UCSF Medical Center, San Francisco, USA               | ViaCord                |
| 2011 | od súrodenca | Memorial Sloan-Kettering Cancer Center, New York, USA | CBR                    |
| 2010 | od súrodenca | Hospital for Sick Children, Toronto, Kanada           | Inspection Biosciences |

| Rok  | Pupočniková krv | Transplantačné centrum                                | Banka pupočnikovej krvi |
|------|-----------------|---|-------------------------|
| 2010 | od súrodenca    | Children's Hospital Medical Center, Cincinnati, USA   | ViaCord                 |
| 2009 | od súrodenca    | Apollo Specialty Hospital, Chennai, India             | Cryo-Cell               |
| 2009 | od súrodenca    | Apollo Specialty Hospital, Chennai, India             | Cryo-Cell               |
| 2009 | od súrodenca    | Apollo Specialty Hospital, Chennai, India             | Cryo-Cell               |
| 2009 | od súrodenca    | Cook Children's Medical Center, Fort Worth, USA       | CBR                     |
| 2009 | od súrodenca    | Texas Children's Hospital, Houston, USA               | CBR                     |
| 2009 | od súrodenca    | Ulm, Nemecko  | Vita 34                 |
| 2008 | od súrodenca    | UCSF Medical Center, San Francisco, USA               | ViaCord                 |
| 2008 | od súrodenca    | University of Michigan, Ann Arbor, USA                | ViaCord                 |
| 2007 | od súrodenca    | Apollo Specialty Hospital, Chennai, India             | Cryo-Cell               |
| 2007 | od súrodenca    | City of Hope, Duarte, USA                             | ViaCord                 |
| 2007 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA   | ViaCord                 |
| 2007 | od súrodenca    | Mount Elisabeth Hospital, Singapore                   | Cryo-Cell               |
| 2007 | od súrodenca    | Steriling Hospital, Ahmedabad, India                  | Cryo-Cell               |
| 2006 | od súrodenca    | Hospital for Sick Children, Toronto, Kanada           | Insception Biosciences  |
| 2006 | od súrodenca    | Shands University of Florida, Gainesville, USA        | ViaCord                 |
| 2006 | od súrodenca    | Hackensack University Medical Center, Hackensack, USA | ViaCord                 |
| 2006 | od súrodenca    | Siriraj Hospital, Bangkok, Thailand                   | Cryo-Cell               |
| 2005 | od súrodenca    | Duke University, Durham, USA                          | ViaCord                 |
| 2005 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA   | ViaCord                 |
| 2005 | od súrodenca    | Children's Memorial Hospital, Chicago, USA            | ViaCord                 |
| 2005 | od súrodenca    | Children's Memorial Hospital, Chicago, USA            | ViaCord                 |
| 2005 | od súrodenca    | Mattel Children's Hospital, Los Angeles, USA          | CBR                     |
| 2005 | od súrodenca    | University of Michigan, Ann Arbor, USA                | ViaCord                 |
| 2004 | od súrodenca    | All Children's Hospital, St. Petersburg, USA          | ViaCord                 |
| 2004 | od súrodenca    | Hackensack University Medical Center, Hackensack, USA | ViaCord                 |
| 2004 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA   | ViaCord                 |
| 2004 | od súrodenca    | Memorial Sloan-Kettering Cancer Center, New York, USA | ViaCord                 |
| 2004 | od súrodenca    | UCSF Medical Center, San Francisco, USA               | ViaCord                 |
| 2003 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA   | ViaCord                 |
| 2003 | od súrodenca    | San Francisco General Hospital, San Francisco, USA    | ViaCord                 |
| 2002 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA   | ViaCord                 |
| 2002 | od súrodenca    | University of Michigan, Ann Arbor, USA                | CBR                     |
| 2001 | od súrodenca    | Hackensack University Medical Center, Hackensack, USA | ViaCord                 |
| 2000 | od súrodenca    | Children's Hospital of Orange County, Orange, USA     | ViaCord                 |
| 2000 | od súrodenca    | Miami Children's Hospital, Miami, USA                 | ViaCord                 |
| 2000 | od súrodenca    | Duke University, Durham, USA                          | ViaCord                 |
| 2000 | od súrodenca    | Children's Memorial Hospital, Chicago, USA            | ViaCord                 |
| 1999 | od súrodenca    | University Medical Center, Tucson, USA                | CBR                     |
| 1998 | od súrodenca    | University of Chicago, Chicago, USA                   | ViaCord                 |
| 1998 | od súrodenca    | UCSF Medical Center, San Francisco, USA               | ViaCord                 |

### Kosáčikovitá anémia

|      |              |   |         |
|------|--------------|---|---------|
| 2011 | od súrodenca | Mount Sinai Medical Center, New York, USA       | ViaCord |
| 2011 | od súrodenca | Cohen Children's Medical Center, New York, USA  | ViaCord |
| 2011 | od súrodenca | Cincinnati Children's Hospital, Cincinnati, USA | ViaCord |
| 2011 | od súrodenca | All Children's Hospital, St. Petersburg, USA    | CBR     |
| 2011 | od súrodenca | Cook Children's Medical Center, Fort Worth, USA | CBR     |

| Rok  | Pupočniková krv | Transplantačné centrum                                      | Banka pupočnikovej krvi |
|------|-----------------|---|-------------------------|
| 2011 | od súrodenca    | Tulane University Hospital, New Orleans, USA                | CBR                     |
| 2010 | od súrodenca    | Cook Children's Medical Center, Fort Worth, USA             | CBR                     |
| 2010 | od súrodenca    | Hackensack University Medical Center, Hackensack, USA       | CBR                     |
| 2010 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA         | ViaCord                 |
| 2010 | od súrodenca    | Miami Children's Hospital, Miami, USA                       | ViaCord                 |
| 2010 | od súrodenca    | Vanderbilt University Medical Center, Nashville, USA        | ViaCord                 |
| 2009 | od súrodenca    | Dana-Farber Cancer Institute, Boston, USA                   | ViaCord                 |
| 2009 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA         | ViaCord                 |
| 2009 | od súrodenca    | Children's National Medical Center, Washington DC, USA      | ViaCord                 |
| 2009 | od súrodenca    | Medical University of South Carolina, Charleston, USA       | ViaCord                 |
| 2009 | od súrodenca    | Miami Children's Hospital, Miami, USA                       | ViaCord                 |
| 2009 | od súrodenca    | Mount Sinai Medical Center, New York, USA                   | ViaCord                 |
| 2008 | od súrodenca    | Children's Healthcare of Atlanta, Atlanta, USA              | ViaCord                 |
| 2008 | od súrodenca    | Methodist Children's Hospital, San Antonio, USA             | CBR                     |
| 2008 | od súrodenca    | North Shore Long Island Jewish Children's Hospital, NY, USA | Cryo-Cell               |
| 2008 | od súrodenca    | Schneider Children's Hospital, New Hyde Park, USA           | ViaCord                 |
| 2007 | od súrodenca    | Duke University, Durham, USA                                | ViaCord                 |
| 2007 | od súrodenca    | Children's Hospital of Philadelphia, Philadelphia, USA      | ViaCord                 |
| 2007 | od súrodenca    | Miami Children's Hospital, Miami, USA                       | ViaCord                 |
| 2007 | od súrodenca    | Mount Sinai Medical Center, New York, USA                   | ViaCord                 |
| 2007 | od súrodenca    | Nemours Children's Clinic, Jacksonville, USA                | ViaCord                 |
| 2007 | od súrodenca    | New York-Presbyterian Hospital, New York, USA               | ViaCord                 |
| 2006 | od súrodenca    | New York-Presbyterian Hospital, New York, USA               | ViaCord                 |
| 2006 | od súrodenca    | Texas Children's Hospital, Houston, USA                     | ViaCord                 |
| 2006 | od súrodenca    | Virginia Commonwealth University, Richmond, USA             | ViaCord                 |
| 2005 | od súrodenca    | Children's Hospital & Research Center, Oakland, USA         | ViaCord                 |
| 2005 | od súrodenca    | University of Mississippi, Jackson, USA                     | ViaCord                 |
| 2005 | od súrodenca    | University of Mississippi, Jackson, USA                     | ViaCord                 |
| 2004 | od súrodenca    | New York-Presbyterian Hospital, New York, USA               | ViaCord                 |
| 2003 | od súrodenca    | Medical University of South Carolina, Charleston, USA       | ViaCord                 |
| 2002 | od súrodenca    | Medical City Children's Hospital, Dallas, USA               | CBR                     |
| 2002 | od súrodenca    | Memorial Sloan-Kettering Cancer Center, New York, USA       | ViaCord                 |
| 2002 | od súrodenca    | Texas Transplant Institute, San Antonio, USA                | ViaCord                 |
| 2001 | od súrodenca    | Hackensack University Medical Center, Hackensack, USA       | ViaCord                 |
| 2001 | od súrodenca    | University of Michigan, Ann Arbor, USA                      | CBR                     |
| 2001 | od súrodenca    | University of Oklahoma, Oklahoma City, USA                  | ViaCord                 |
| 2000 | od súrodenca    | Lucile Packard Children's Hospital, Palo Alto, USA          | ViaCord                 |
| 2000 | od súrodenca    | St. Jude's Children's Research Hospital, Memphis, USA       | ViaCord                 |
| 2000 | od súrodenca    | University of North Carolina, Chapel Hill, USA              | ViaCord                 |
| 1999 | od súrodenca    | Hackensack University Medical Center, Hackensack, USA       | ViaCord                 |

### Adrenoleukodystrofia

|      |              |   |                                  |
|------|--------------|---|----------------------------------|
| 2005 | od súrodenca | Duke University, Durham, USA              | ViaCord                          |
| 2003 | od súrodenca | Detská fakultná nemocnica, Bratislava, SR | Združená tkanivová banka, Košice |

### Cartilage-hair dysplázia

|      |              |  |         |
|------|--------------|--|---------|
| 2010 | od súrodenca | Lucile Packard Children's Hospital, Palo Alto, USA | ViaCord |
|------|--------------|--|---------|

| Rok                                    | Pupočniková krv | Transplantačné centrum                                | Banka pupočnikovej krvi |
|--|-----------------|---|-------------------------|
| <b>Ektodermálna dysplázia</b>          |                 |   |                         |
| 2004                                   | od súrodenca    | Dana-Farber Cancer Institute, Boston, USA             | ViaCord                 |
| <b>Hurlerov syndróm</b>                |                 |   |                         |
| 2012                                   | od súrodenca    | Amplatz Children's Hospital, Minneapolis, USA         | CBR                     |
| 2003                                   | od súrodenca    | University of Louisville, Louisville, USA             | ViaCord                 |
| 2000                                   | od súrodenca    | Children's Medical Center, Dallas, USA                | CBR                     |
| <b>Chronická granulomatóza</b>         |                 |   |                         |
| 2009                                   | od súrodenca    | Texas Children's Hospital, Houston, USA               | ViaCord                 |
| 2007                                   | od súrodenca    | University of Rochester, Rochester, USA               | ViaCord                 |
| 2002                                   | od súrodenca    | Hackensack University Medical Center, Hackensack, USA | ViaCord                 |
| <b>Kostmannov syndróm</b>              |                 |   |                         |
| 2005                                   | od súrodenca    | Children's Hospital of Pittsburg, Pittsburg, USA      | ViaCord                 |
| <b>Non-Hodgkinov lymfóm</b>            |                 |   |                         |
| 2008                                   | od súrodenca    | New York-Presbyterian Hospital, New York, USA         | ViaCord                 |
| <b>Sanfilippov syndróm</b>             |                 |   |                         |
| 2004                                   | od súrodenca    | University Medical Center, Tucson, USA                | Cryo-Cell               |
| <b>T-bunkový lymfóm</b>                |                 |   |                         |
| 2002                                   | od súrodenca    | All Children's Hospital, St. Petersburg, USA          | Cryo-Cell               |
| <b>Ťažká vrodená neutropénia</b>       |                 |   |                         |
| 2007                                   | od súrodenca    | Schneider Children's Hospital, New Hyde Park, USA     | ViaCord                 |
| <b>Vrodená imunodeficiencia (SCID)</b> |                 |   |                         |
| 2011                                   | od súrodenca    | Argentina   | Vita34                  |
| 2007                                   | od súrodenca    | Cincinnati Children's Hospital, Cincinnati, USA       | ViaCord                 |
| 2007                                   | od súrodenca    | Europe  | Cryo-Save               |
| <b>Wiskott-Aldrichov syndróm</b>       |                 |   |                         |
| 2008                                   | od súrodenca    | Washington Hospital Center, Washington, USA           | CBR                     |
| 2003                                   | od súrodenca    | Penn State Hershey Medical Center, Hershey, USA       | ViaCord                 |
| 1997                                   | od súrodenca    | Fred Hutchinson Cancer Research Center, Seattle, USA  | ViaCord                 |
| <b>Wolmanova choroba</b>               |                 |   |                         |
| 2007                                   | od súrodenca    | Children's Hospital Los Angeles, Los Angeles, USA     | CBR                     |
| <b>X-viazaný syndróm hyper IgM</b>     |                 |   |                         |
| 2004                                   | od súrodenca    | Children's Memorial Hospital, Chicago, USA            | CBR                     |
| <b>X-viazaný vrodený syndróm</b>       |                 |   |                         |
| 2002                                   | od súrodenca    | Fred Hutchinson Cancer Research Center, Seattle, USA  | ViaCord                 |
| <b>Porucha imunity</b>                 |                 |   |                         |
| 2007                                   | autológna       | Children's Memorial Hospital, Chicago, USA            | CBR                     |

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