

**House Resolution**

**No. 37**

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**Introduced by Assembly Member Hill**

August 7, 2012

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House Resolution No. 37—Relative to umbilical cord blood banking.

1 WHEREAS, Since the first umbilical cord blood transplant in  
2 1988, the systems for collecting umbilical cord blood for both  
3 public and private use have grown rapidly, both as a treatment for  
4 over 80 medical conditions and as an investigational therapy in  
5 numerous United States Food and Drug Administration (FDA)  
6 approved clinical trials; and

7 WHEREAS, Umbilical cord blood is rich in hematopoietic, or  
8 blood-forming, stem cells, similar to those found in bone marrow.  
9 Therefore, cord blood can be used as an alternative to bone marrow  
10 transplants; and

11 WHEREAS, Scientists are currently researching the possibility  
12 that umbilical cord blood may be able to assist the body in the  
13 repair of nerve and tissue damage, such as nerve and heart cells;  
14 and

15 WHEREAS, The demand for stem cells from umbilical cord  
16 blood is greater than the supply, and both personal and public  
17 banking are needed in order to increase the storage of umbilical  
18 cord blood; and

19 WHEREAS, The umbilical cord blood industry has grown  
20 rapidly and umbilical cord blood is currently used to treat blood  
21 cancers, such as leukemia, myeloma, and lymphoma, and more  
22 than 80 inherited immunodeficiencies and other genetic and  
23 acquired blood diseases, including sickle cell anemia, thalassemias,

1 hemoglobinopathies, aplastic anemias, and marrow failure  
2 disorders, and inherited disorders or errors of metabolism; and

3 WHEREAS, The benefits of banking umbilical cord blood are  
4 life saving, and storing cord blood is less expensive compared to  
5 the medical costs associated with life-threatening illnesses; and

6 WHEREAS, It is the intent of the Assembly to assist families  
7 who have newborns scoring three or less on the activity, pulse,  
8 grimace, appearance, and respiration (Apgar) scale by providing  
9 the families access to the stem cells of the newborn. These children  
10 have a greater likelihood of developing neurological disabilities  
11 that may be helped by advancements in regenerative medicine and  
12 stem cell research to treat diseases like brain injury, cerebral palsy  
13 (CP), and hearing loss; and

14 WHEREAS, CP is a heterogeneous group of neurological  
15 disorder conditions that appear in infancy or early childhood and  
16 permanently affect body movement and muscle coordination. CP  
17 is caused by abnormal brain development or damage to the  
18 developing brain, and might not be detected until months or years  
19 later; and

20 WHEREAS, According to a 2010 study published in the British  
21 Medical Journal, a low Apgar score was strongly associated with  
22 a later diagnosis of CP. The prevalence of CP in children scoring  
23 less than three on the Apgar scale was more than 130-fold higher  
24 than in children with a score of 10; and

25 WHEREAS, The average prevalence of CP in the United States  
26 is 3.3 per 1,000. Currently, there are an estimated 800,000 children  
27 and adults living with CP in the United States; and

28 WHEREAS, Births in California account for approximately 13  
29 percent of all babies born in the United States. There were  
30 approximately 1,772 babies born with CP in California in 2009;  
31 and

32 WHEREAS, Based on federal Centers for Disease Control and  
33 Prevention data, the lifetime cost of CP in 2003 was \$921,000 per  
34 person. When multiplied by the number of babies described above,  
35 this equates to an approximate cost of \$1.632 billion; and

36 WHEREAS, Clinical trials looking at umbilical cord blood stem  
37 cells and CP are ongoing. Dr. James Carroll, pediatric neurologist  
38 at Georgia Health Sciences University, received the first FDA  
39 clearance to run a clinical trial using a child's own umbilical cord  
40 blood stem cells as a potential therapy for children with CP. Other

1 clinical trials also have been approved by the FDA to evaluate the  
2 use of a child's own umbilical cord blood in regenerative therapies  
3 for diseases and conditions that could not previously be treated,  
4 such as hearing loss, traumatic brain injury, and juvenile diabetes;  
5 and

6 WHEREAS, There is growing evidence of the restorative  
7 potential of umbilical cord blood stem cells, and indications that  
8 many future therapies may come from autologous cells using the  
9 patient's own immune system; and

10 WHEREAS, There are seven low-Apgar umbilical cord blood  
11 stem cell collection programs already in place in California, located  
12 at Providence Health Systems in southern California, Southwest  
13 Healthcare System at Inland Valley Medical Center, Southwest  
14 Healthcare System at Rancho Springs Medical Center, Hoag  
15 Memorial Hospital in Newport Beach, Washington Hospital in  
16 Fremont, John Muir Medical Center in Walnut Creek, and Sequoia  
17 Hospital in Redwood City; and

18 WHEREAS, These hospitals contract with an accredited  
19 umbilical cord blood bank that provides collection kits and  
20 processing in order to provide this service, under a memorandum  
21 of understanding. As part of the contract, training is provided to  
22 ensure quality collection, sufficient collection volume, and sterility  
23 to ensure eligibility for acceptance in FDA-regulated clinical trials  
24 for CP; and

25 WHEREAS, Transplanting physicians have performed 25,000  
26 stem cell transplants to date; and

27 WHEREAS, Not all umbilical cord blood samples collected  
28 specifically for public banks and allogeneic transplants are  
29 available for transplantation; and

30 WHEREAS, The remaining public banking units should be  
31 provided to research institutions to explore the potential of  
32 umbilical cord blood stem cells to treat many debilitating and lethal  
33 medical conditions; and

34 WHEREAS, The federal government enacted the Stem Cell  
35 Therapeutic and Research Act of 2005 to collect and maintain  
36 umbilical cord blood for public use in transplantation and research;  
37 and

38 WHEREAS, The Legislature enacted Senate Bill 1555 (Chapter  
39 484 of the Statutes of 2006), requiring the State Department of  
40 Public Health to conduct the Umbilical Blood Community

1 Awareness Campaign, which requires the department to, among  
2 other things, provide awareness, assistance, and information  
3 regarding umbilical cord blood banking options. Senate Bill 1555  
4 also authorized a primary prenatal care provider to provide to a  
5 woman who is known to be pregnant, during the first prenatal visit,  
6 with information developed by the department pursuant to Senate  
7 Bill 1555 regarding her options with respect to umbilical cord  
8 blood banking; and

9 WHEREAS, The Legislature enacted Assembly Bill 34 (Chapter  
10 516 of the Statutes of 2007) to create a public banking  
11 infrastructure in California that adds genetically diverse umbilical  
12 cord blood units to the national public inventory to ensure that  
13 Californians, who are ethnically and genetically diverse, have that  
14 ethnic and genetic diversity reflected in the inventory. The more  
15 the inventory mirrors the genetic makeup of California's  
16 population, the greater the chance residents of California will find  
17 a match when they are in need; and

18 WHEREAS, The Legislature passed Assembly Concurrent  
19 Resolution 74 (Resolution Chapter 116 of the Statutes of 2010)  
20 expressing the Legislature's desire to find ways to help California  
21 gain a viable public umbilical cord blood banking system, to ensure  
22 that all races and ethnicities have an equal probability of finding  
23 a match when medically necessary, and also to specify that the  
24 Legislature supports related research being done with collected  
25 units that are not suitable for transplantation; and

26 WHEREAS, The Legislature enacted Assembly Bill 52 (Chapter  
27 529 of the Statutes of 2010), to request the University of California  
28 to establish and administer the Umbilical Cord Blood Collection  
29 Program for the purpose of collecting units of umbilical cord blood  
30 for public use, for transplantation, and for providing nonclinical  
31 units for specified research; and

32 WHEREAS, The National Marrow Donor Program, in a recent  
33 plea to states to help increase the national umbilical cord blood  
34 public inventory, declared that states can help expand the number  
35 of publicly available umbilical cord blood units by appropriating  
36 additional resources for the collection and storage of units; now,  
37 therefore, be it

38 *Resolved by the Assembly of the State of California*, That the  
39 Assembly continues to desire to seek ways to help California gain  
40 a viable public umbilical cord blood banking system, to ensure all

1 that races and ethnicities have an equal probability of finding a  
2 match when medically necessary; and be it further

3 *Resolved*, That the Assembly continues to support related  
4 research being done with collected units that are not suitable for  
5 transplantation; and be it further

6 *Resolved*, That the Assembly encourages acute care hospitals  
7 to participate in free collection programs for umbilical cord blood  
8 and cord tissue in order to maximize the potential medical benefits  
9 that umbilical cord blood therapies can provide; and be it further

10 *Resolved*, That the Assembly encourages acute care hospitals  
11 to participate in free collection programs that provide parents of  
12 children born in those hospitals who have an activity, pulse,  
13 grimace, appearance, and respiration (Apgar) score of three or less  
14 at five minutes, with the option of storing the child's umbilical  
15 cord blood and cord tissue, at no cost to the parent, in order that  
16 the umbilical cord blood and cord tissue may be used for  
17 therapeutic purposes as therapies become medically available; and  
18 be it further

19 *Resolved*, That the Chief Clerk of the Assembly transmit copies  
20 of this resolution to the State Department of Public Health and the  
21 California Institute for Regenerative Medicine.