

## Newborn Screening Program Statistics as of August 22, 2006

### Confirmed Cases 1991-2005

Disorder	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	Total
Classic Phenylketonuria (PKU) & Clinically Significant Hyperphe	2	2	2	3	1	3	1	2	1	2	3	6	3	4	1	36
Congenital Hypothyroidism (CH)	16	13	11	17	13	20	11	21	17	24	11	13	21	13	21	242
Classic Galactosemia*	0	2	0	1	0	2	0	1	2	0	0	0	0	1	2	11
Classic Cystic Fibrosis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
Congenital Adrenal Hyperplasia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
<b>Total by Year</b>	<b>18</b>	<b>17</b>	<b>13</b>	<b>21</b>	<b>14</b>	<b>25</b>	<b>12</b>	<b>24</b>	<b>20</b>	<b>26</b>	<b>14</b>	<b>19</b>	<b>24</b>	<b>18</b>	<b>38</b>	<b>303</b>

\* Investigation of galactosemia cases determined 2 cases identified in 1991 and 1994 were not GG genotypes (by confirmatory testing in 2004) – this graph reflects this change

### Confirmed Hemoglobin Diseases 1991-2005

Hemoglobin Disease	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	Totals
Hemoglobin SS	11	8	9	14	13	2	7	12	8	6	5	11	4	7	8	125
Hemoglobin SC	7	3	5	6	6	3	5	6	3	1	4	5	9	3	7	73
Hemoglobin C	-	4	1	1	-	2	-	1	1	3	2	-	-	-	-	15
S Beta + Thal	-	-	-	-	1	1	6	3	1	0 <sup>1</sup>	4	2	-	2	-	20
S Beta <sup>0</sup> Thal	-	1	2	-	-	-	-	-	-	-	-	1	-	1	-	5
C Beta + Thal	-	-	-	-	-	1	-	1	-	1	1	-	-	-	-	4
C Beta <sup>0</sup> Thal	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
E Beta <sup>0</sup> Thal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Hemoglobin SE	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2
Hemoglobin E	-	-	-	-	-	1	-	-	1	-	2	1	2	-	-	7
Hemoglobin SG	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Hemoglobin O	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Hemoglobin SD	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Beta Thalassemia Major	-	-	-	-	-	-	-	-	-	-	1 <sup>2</sup>	-	-	-	-	1
S-HPFH (hereditary persistence fetal hgb)	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
<b>Total by Year</b>	<b>18</b>	<b>16</b>	<b>17</b>	<b>22</b>	<b>21</b>	<b>10</b>	<b>20</b>	<b>23</b>	<b>14</b>	<b>13</b>	<b>19<sup>3</sup></b>	<b>20</b>	<b>15</b>	<b>13</b>	<b>16</b>	<b>257</b>

<sup>1</sup>Final diagnosis was AS trait – OSDH results were AS (initial screen) and SA (repeat whole blood); <sup>2</sup>Diagnosis updated to Beta Thalassemia Intermedia; <sup>3</sup>Total does not include two cases lost to follow-up i.e., confirmation testing not achieved (probable E and SS disease)

### Sickle Cell and Hemoglobin C Trait Conditions Identified on Initial Filter Paper Screen 1991-2005

Hemoglobin Trait	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	Totals
Sickle Cell Trait (AS)	331	433	435	436	387	377	385	397	425	385	448	401	474	410	402	6126
Hemoglobin C Trait (AC)	86	139	144	128	144	116	146	121	123	152	134	139	127	134	142	1975
<b>Total by Year</b>	<b>417</b>	<b>572</b>	<b>579</b>	<b>564</b>	<b>531</b>	<b>493</b>	<b>531</b>	<b>518</b>	<b>548</b>	<b>537</b>	<b>582</b>	<b>540</b>	<b>601</b>	<b>544</b>	<b>544</b>	<b>8101</b>

**History Note:** Oklahoma began screening for PKU in 1963 (it became law in 1967), CH screening began in 1979, sickle cell disease and galactosemia in 1991, cystic fibrosis and CAH on February 14, 2005.