

ECLS Registry Report

International Trend Report

April, 2022

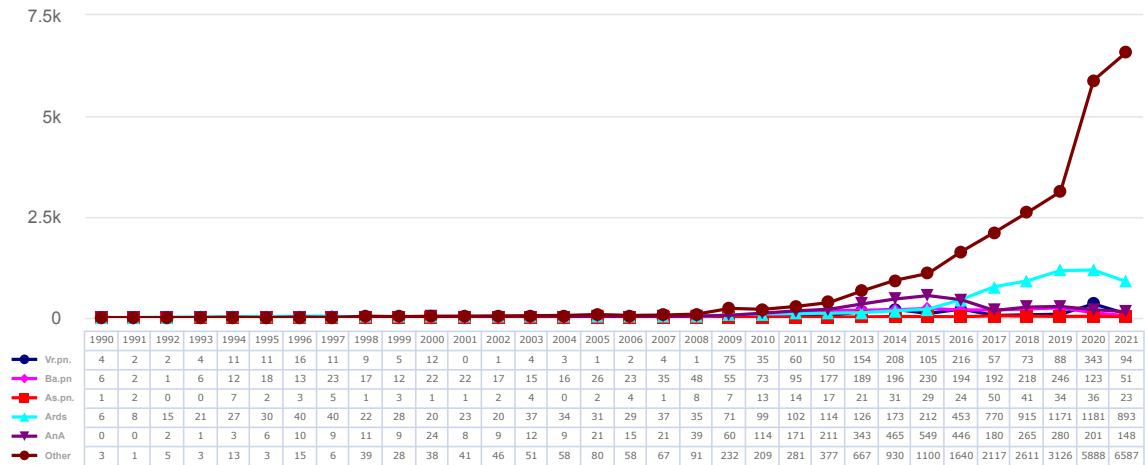
Report data through 2021



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Adult Respiratory (18 years and over)

Adult Respiratory Diagnoses by Year



Vr.pn. - Viral pneumonia

Ba.pn. - Bacterial pneumonia

As.pn. - Aspiration pneumonia

AnA - Acute resp failure non ARDS

Adult Respiratory Runs by Year

Viral pneumonia (Adult Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1990	4	4	195	532	4	100%
1991	2	6	688	1,246	1	50%
1992	2	8	258	379	1	50%
1993	4	12	284	514	2	50%
1994	11	23	254	586	7	63%
1995	11	34	253	1,357	8	72%
1996	16	50	189	380	8	50%
1997	11	61	315	792	6	54%
1998	9	70	200	570	6	66%
1999	5	75	280	725	2	40%
2000	12	87	207	695	8	66%
2002	1	88	907	907	1	100%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2003	4	92	239	401	4	100%
2004	3	95	111	158	3	100%
2005	1	96	123	123	1	100%
2006	2	98	221	298	2	100%
2007	4	102	350	1,117	2	50%
2008	1	103	528	528	1	100%
2009	75	178	364	3,018	45	60%
2010	35	213	310	689	24	68%
2011	60	273	403	2,959	38	63%
2012	50	323	351	5,519	33	66%
2013	154	477	320	2,443	107	69%
2014	208	685	356	3,208	142	68%
2015	105	790	329	1,595	58	55%
2016	216	1,006	373	2,541	138	63%
2017	57	1,063	405	3,691	37	64%
2018	73	1,136	297	2,538	50	68%
2019	88	1,224	454	2,714	60	68%
2020	343	1,567	575	4,150	167	48%
2021	94	1,661	572	2,415	57	60%

Bacterial pneumonia (Adult Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1988	1	1	196	196	0	0%
1990	6	7	196	240	2	33%
1991	2	9	521	639	0	0%
1992	1	10	372	372	0	0%
1993	6	16	296	735	3	50%
1994	12	28	288	557	4	33%
1995	18	46	201	863	9	50%
1996	13	59	185	526	4	30%
1997	23	82	265	641	12	52%
1998	17	99	252	489	9	52%
1999	12	111	222	407	9	75%
2000	22	133	227	852	12	54%
2001	22	155	257	585	14	63%
2002	17	172	202	624	10	58%
2003	15	187	223	425	10	66%
2004	16	203	216	735	9	56%
2005	26	229	215	1,061	13	50%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2006	23	252	295	1,585	11	47%
2007	35	287	211	521	20	57%
2008	48	335	211	1,419	35	72%
2009	55	390	248	1,456	38	69%
2010	73	463	260	1,088	49	67%
2011	95	558	229	1,973	61	64%
2012	177	735	297	4,110	109	61%
2013	189	924	304	3,185	111	58%
2014	196	1,120	293	3,288	136	69%
2015	230	1,350	281	2,520	140	60%
2016	194	1,544	334	2,083	120	61%
2017	192	1,736	326	3,911	117	60%
2018	218	1,954	342	3,985	139	63%
2019	246	2,200	291	1,544	167	67%
2020	123	2,323	327	3,702	76	61%
2021	51	2,374	277	806	37	72%

Aspiration pneumonia (Adult RespiratoryDiagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1990	1	1	206	206	0	0%
1991	2	3	470	522	0	0%
1994	7	10	136	313	6	85%
1995	2	12	120	198	2	100%
1996	3	15	120	165	2	66%
1997	5	20	259	666	1	20%
1998	1	21	598	598	1	100%
1999	3	24	162	311	1	33%
2000	1	25	54	54	0	0%
2001	1	26	117	117	1	100%
2002	2	28	420	687	1	50%
2003	4	32	215	452	3	75%
2005	2	34	105	128	2	100%
2006	4	38	168	259	3	75%
2007	1	39	202	202	1	100%
2008	8	47	138	346	5	62%
2009	7	54	140	402	4	57%
2010	13	67	293	1,663	6	46%
2011	14	81	167	379	11	78%
2012	17	98	277	1,051	13	76%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2013	21	119	350	2,634	14	66%
2014	31	150	333	1,274	20	64%
2015	29	179	207	1,176	22	75%
2016	24	203	251	1,172	15	62%
2017	50	253	276	1,361	36	72%
2018	41	294	257	1,575	36	87%
2019	34	328	270	1,274	24	70%
2020	36	364	188	481	34	94%
2021	23	387	159	752	21	91%

ARDS (Adult Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	1	1	16	16	0	0%
1987	1	2	300	300	1	100%
1988	3	5	244	330	1	33%
1989	1	6	379	379	0	0%
1990	6	12	248	671	3	50%
1991	8	20	300	731	4	50%
1992	15	35	266	647	8	53%
1993	21	56	300	1,326	11	52%
1994	27	83	286	768	9	33%
1995	30	113	208	1,032	18	60%
1996	40	153	201	826	19	47%
1997	40	193	238	981	18	45%
1998	22	215	237	955	9	40%
1999	28	243	246	803	10	35%
2000	20	263	300	1,308	14	70%
2001	23	286	277	1,089	16	69%
2002	20	306	292	1,942	11	55%
2003	37	343	237	1,315	26	70%
2004	34	377	236	594	17	50%
2005	31	408	262	1,220	15	48%
2006	29	437	414	5,014	8	27%
2007	37	474	353	2,750	16	43%
2008	35	509	273	1,596	20	57%
2009	71	580	291	1,292	33	46%
2010	99	679	268	1,091	55	55%
2011	102	781	323	2,554	63	61%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2012	114	895	365	6,248	66	57%
2013	126	1,021	361	3,716	78	61%
2014	173	1,194	282	3,045	109	63%
2015	212	1,406	314	3,078	122	57%
2016	453	1,859	320	5,355	302	66%
2017	770	2,629	312	5,014	461	59%
2018	915	3,544	326	6,479	575	62%
2019	1,171	4,715	329	6,380	759	64%
2020	1,181	5,896	435	9,259	650	55%
2021	893	6,789	574	5,311	516	57%

Acute resp failure, non-ARDS (Adult Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1992	2	2	558	1,083	1	50%
1993	1	3	89	89	1	100%
1994	3	6	332	788	3	100%
1995	6	12	104	152	1	16%
1996	8	20	116	374	4	50%
1997	7	27	156	701	2	28%
1998	8	35	180	358	4	50%
1999	6	41	180	421	4	66%
2000	20	61	164	449	12	60%
2001	5	66	170	285	3	60%
2002	7	73	141	237	6	85%
2003	5	78	187	225	4	80%
2004	6	84	305	1,012	3	50%
2005	10	94	170	432	7	70%
2006	5	99	147	308	2	40%
2007	10	109	184	509	3	30%
2008	16	125	185	791	7	43%
2009	44	169	277	1,007	23	52%
2010	89	258	237	1,374	54	60%
2011	140	398	239	1,317	68	48%
2012	179	577	221	1,203	90	50%
2013	299	876	284	4,527	171	57%
2014	407	1,283	325	2,347	241	59%
2015	498	1,781	299	2,852	289	58%
2016	392	2,173	289	1,813	237	60%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2017	116	2,289	235	1,812	76	65%
2018	178	2,467	255	2,686	110	61%
2019	176	2,643	273	4,180	112	63%
2020	154	2,797	282	1,694	94	61%
2021	129	2,926	445	3,456	69	53%

Other (Adult Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1988	1	1	17	17	0	0%
1989	1	2	90	90	1	100%
1990	3	5	98	139	1	33%
1991	1	6	45	45	0	0%
1992	5	11	99	195	4	80%
1993	3	14	388	864	2	66%
1994	13	27	136	365	6	46%
1995	3	30	135	211	2	66%
1996	15	45	144	406	7	46%
1997	6	51	133	237	2	33%
1998	39	90	178	1,238	17	43%
1999	28	118	156	551	12	42%
2000	38	156	177	1,152	15	39%
2001	41	197	206	1,417	20	48%
2002	46	243	134	1,134	23	50%
2003	51	294	197	2,035	23	45%
2004	58	352	185	1,142	29	50%
2005	80	432	174	1,210	36	45%
2006	58	490	175	1,277	22	37%
2007	67	557	165	702	38	56%
2008	91	648	163	1,091	36	39%
2009	232	880	221	1,225	141	60%
2010	209	1,089	221	2,004	118	56%
2011	281	1,370	224	1,545	158	56%
2012	377	1,747	265	5,630	197	52%
2013	667	2,414	281	6,745	394	59%
2014	930	3,344	271	3,087	537	57%
2015	1,100	4,444	270	7,576	604	54%
2016	1,640	6,084	295	4,410	1,039	63%
2017	2,117	8,201	258	5,199	1,278	60%
2018	2,611	10,812	263	5,009	1,590	60%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2019	3,126	13,938	271	5,245	2,023	64%
2020	5,888	19,826	457	6,632	3,266	55%
2021	6,587	26,413	594	7,613	3,612	54%

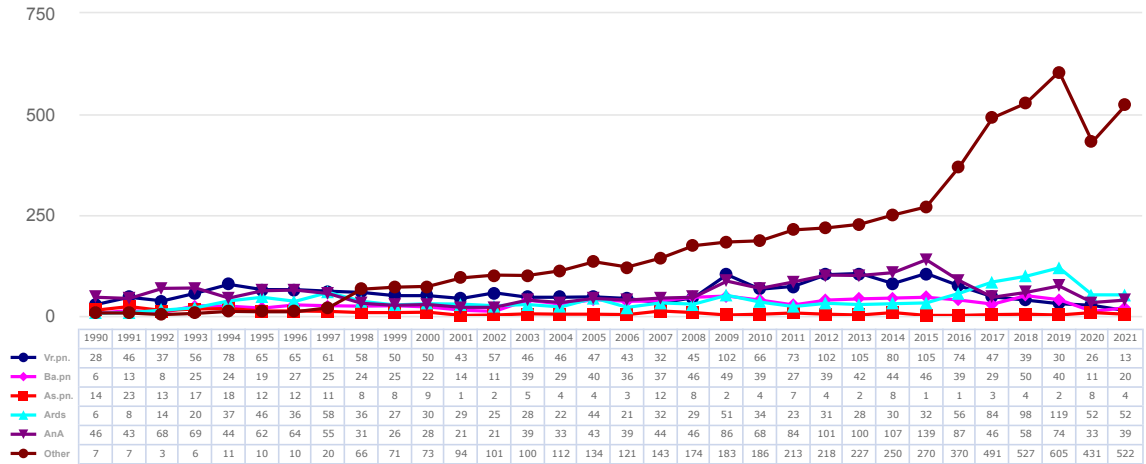
Adult Respiratory Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
<=1986	0	0	0	0	1
1987	0	0	0	0	1
1988	0	0	0	0	5
1989	0	0	0	0	2
1990	1	1	0	0	19
1991	0	0	0	0	15
1992	2	0	0	0	23
1993	2	0	0	0	33
1994	1	6	0	0	66
1995	1	1	0	1	67
1996	9	6	0	0	80
1997	10	4	0	1	78
1998	60	29	0	1	10
1999	65	20	0	0	0
2000	74	42	0	3	0
2001	66	31	0	6	0
2002	59	30	0	5	0
2003	75	45	0	3	0
2004	85	37	0	1	0
2005	108	44	0	1	1
2006	84	42	0	1	1
2007	111	55	0	1	0
2008	151	58	0	1	1
2009	416	109	2	3	3
2010	460	100	2	3	5
2011	606	124	2	2	5
2012	884	126	13	5	12
2013	1,368	173	10	7	29
2014	1,913	192	22	12	26
2015	2,158	251	23	17	24
2016	2,920	241	51	14	10
2017	3,295	298	93	19	1
2018	3,970	356	146	56	1

Year	VV	VA	VVA	Other	Unknown
2019	4,780	429	172	73	3
2020	7,755	417	201	63	1
2021	7,840	365	204	105	1

Pediatric Respiratory (> 28 days and < 18 years)

Pediatric Respiratory Diagnoses by Year



Vr.pn. - Viral pneumonia
 Ba.pn. - Bacterial pneumonia
 As.pn. - Aspiration pneumonia
 AnA - Acute resp failure non ARDS

Pediatric Respiratory Runs by Year

Viral pneumonia (Pediatric Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	2	2	278	372	1	50%
1987	3	5	285	308	0	0%
1988	9	14	265	450	3	33%
1989	18	32	261	612	11	61%
1990	28	60	333	744	11	39%
1991	46	106	358	1,090	27	58%
1992	37	143	328	885	25	67%
1993	56	199	328	978	34	60%
1994	78	277	345	1,156	50	64%
1995	65	342	350	1,372	39	60%
1996	65	407	323	874	37	56%
1997	61	468	356	1,043	40	65%
1998	58	526	261	706	35	60%
1999	50	576	287	735	39	78%
2000	50	626	307	669	28	56%
2001	43	669	327	672	31	72%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2002	57	726	270	884	37	64%
2003	46	772	282	801	31	67%
2004	46	818	303	1,222	34	73%
2005	47	865	286	809	31	65%
2006	43	908	429	1,326	25	58%
2007	32	940	321	882	18	56%
2008	45	985	339	1,112	26	57%
2009	102	1,087	348	2,968	59	57%
2010	66	1,153	325	930	49	74%
2011	73	1,226	350	1,686	50	68%
2012	102	1,328	251	1,013	80	78%
2013	105	1,433	318	1,359	80	76%
2014	80	1,513	285	1,285	56	70%
2015	105	1,618	365	1,996	76	72%
2016	74	1,692	294	1,218	45	60%
2017	47	1,739	327	1,385	42	89%
2018	39	1,778	325	1,246	29	74%
2019	30	1,808	289	1,053	21	70%
2020	26	1,834	295	1,149	17	65%
2021	13	1,847	328	1,383	10	76%

Bacterial pneumonia (Pediatric Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	1	1	210	210	0	0%
1988	4	5	136	231	0	0%
1989	7	12	129	280	3	42%
1990	6	18	305	853	3	50%
1991	13	31	266	762	9	69%
1992	8	39	244	521	3	37%
1993	25	64	279	964	13	52%
1994	24	88	268	735	13	54%
1995	19	107	265	665	7	36%
1996	27	134	401	1,231	16	59%
1997	25	159	232	720	13	52%
1998	24	183	299	912	18	75%
1999	25	208	348	1,332	13	52%
2000	22	230	280	784	10	45%
2001	14	244	206	453	6	42%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2002	11	255	198	548	8	72%
2003	39	294	206	677	24	61%
2004	29	323	272	744	18	62%
2005	40	363	254	634	24	60%
2006	36	399	291	1,078	22	61%
2007	37	436	369	1,010	22	59%
2008	46	482	274	1,029	26	56%
2009	49	531	380	1,411	31	63%
2010	39	570	325	1,092	26	66%
2011	27	597	253	748	18	66%
2012	39	636	281	1,171	23	58%
2013	42	678	287	1,465	27	64%
2014	44	722	295	1,177	29	65%
2015	46	768	294	1,390	30	65%
2016	39	807	385	4,286	30	76%
2017	29	836	260	1,057	19	65%
2018	50	886	399	1,193	39	78%
2019	40	926	353	2,302	30	75%
2020	11	937	487	2,603	8	72%
2021	20	957	532	3,903	12	60%

Aspiration pneumonia (Pediatric Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	4	4	231	450	2	50%
1987	2	6	105	139	2	100%
1988	4	10	175	285	2	50%
1989	5	15	179	404	4	80%
1990	14	29	234	521	10	71%
1991	23	52	365	1,256	14	60%
1992	13	65	285	600	4	30%
1993	17	82	276	567	13	76%
1994	18	100	231	624	11	61%
1995	12	112	344	1,044	8	66%
1996	12	124	247	592	9	75%
1997	11	135	323	910	7	63%
1998	8	143	350	791	6	75%
1999	8	151	249	621	7	87%
2000	9	160	382	2,437	5	55%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2001	1	161	313	313	1	100%
2002	2	163	140	170	2	100%
2003	5	168	234	700	4	80%
2004	4	172	101	195	2	50%
2005	4	176	536	1,099	3	75%
2006	3	179	200	287	3	100%
2007	12	191	157	404	6	50%
2008	8	199	145	326	6	75%
2009	2	201	504	756	1	50%
2010	4	205	269	659	4	100%
2011	7	212	300	932	6	85%
2012	4	216	592	1,870	3	75%
2013	2	218	191	293	2	100%
2014	8	226	94	247	7	87%
2015	1	227	456	456	0	0%
2016	1	228	257	257	1	100%
2017	3	231	231	356	3	100%
2018	4	235	568	1,724	3	75%
2019	2	237	237	312	1	50%
2020	8	245	121	388	5	62%
2021	4	249	171	464	3	75%

ARDS (Pediatric Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1987	1	1	162	162	1	100%
1989	2	3	425	488	1	50%
1990	6	9	135	233	3	50%
1991	8	17	206	655	4	50%
1992	14	31	324	661	5	35%
1993	20	51	242	647	8	40%
1994	37	88	276	709	19	51%
1995	46	134	324	1,440	25	54%
1996	36	170	295	999	21	58%
1997	58	228	258	721	36	62%
1998	36	264	287	768	22	61%
1999	27	291	274	990	13	48%
2000	30	321	248	997	17	56%
2001	29	350	248	984	15	51%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2002	25	375	225	542	16	64%
2003	28	403	237	618	20	71%
2004	22	425	323	936	11	50%
2005	44	469	276	931	27	61%
2006	21	490	295	908	10	47%
2007	32	522	270	1,242	20	62%
2008	29	551	400	1,987	19	65%
2009	51	602	298	1,340	25	49%
2010	34	636	347	2,026	20	58%
2011	23	659	377	962	10	43%
2012	31	690	347	2,781	16	51%
2013	28	718	370	3,086	19	67%
2014	30	748	253	700	18	60%
2015	32	780	304	1,481	19	59%
2016	56	836	416	2,874	34	60%
2017	84	920	406	4,013	56	66%
2018	98	1,018	431	4,379	67	68%
2019	119	1,137	306	2,622	93	78%
2020	52	1,189	316	1,427	34	65%
2021	52	1,241	400	2,460	36	69%

Acute resp failure, non-ARDS (Pediatric Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	13	13	151	312	3	23%
1987	7	20	203	595	3	42%
1988	19	39	274	648	7	36%
1989	17	56	196	492	9	52%
1990	46	102	267	744	19	41%
1991	43	145	209	474	18	41%
1992	68	213	295	933	32	47%
1993	68	281	267	880	31	45%
1994	42	323	206	910	24	57%
1995	61	384	206	753	28	45%
1996	62	446	266	1,483	38	61%
1997	55	501	251	1,258	31	56%
1998	19	520	269	1,015	8	42%
1999	16	536	320	749	7	43%
2000	18	554	304	1,003	10	55%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2001	19	573	265	494	5	26%
2002	16	589	250	661	7	43%
2003	23	612	160	658	11	47%
2004	22	634	214	771	13	59%
2005	24	658	247	832	11	45%
2006	29	687	265	910	16	55%
2007	33	720	262	1,103	23	69%
2008	36	756	226	645	25	69%
2009	70	826	269	1,000	43	61%
2010	59	885	293	1,562	32	54%
2011	76	961	256	2,429	55	72%
2012	89	1,050	280	1,702	55	61%
2013	91	1,141	380	6,862	55	60%
2014	96	1,237	274	1,515	57	59%
2015	130	1,367	337	7,503	83	63%
2016	80	1,447	299	2,190	50	62%
2017	30	1,477	207	642	24	80%
2018	37	1,514	422	2,444	23	62%
2019	50	1,564	255	1,505	37	74%
2020	30	1,594	347	2,717	19	63%
2021	29	1,623	198	559	23	79%

Other (Pediatric Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1987	1	1	210	210	0	0%
1988	2	3	245	401	1	50%
1989	1	4	96	96	1	100%
1990	7	11	189	351	3	42%
1991	7	18	306	833	1	14%
1992	3	21	81	143	1	33%
1993	6	27	358	1,144	3	50%
1994	11	38	328	668	5	45%
1995	10	48	240	624	4	40%
1996	10	58	91	260	5	50%
1997	20	78	232	816	12	60%
1998	66	144	192	781	35	53%
1999	71	215	159	632	41	57%
2000	73	288	216	833	39	53%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2001	94	382	196	2,239	38	40%
2002	101	483	211	1,108	60	59%
2003	100	583	221	881	54	54%
2004	112	695	195	941	61	54%
2005	134	829	205	1,280	60	44%
2006	121	950	210	1,038	56	46%
2007	143	1,093	222	1,309	73	51%
2008	174	1,267	217	1,720	76	43%
2009	183	1,450	234	1,353	98	53%
2010	186	1,636	216	2,140	99	53%
2011	213	1,849	248	2,465	111	52%
2012	218	2,067	221	1,752	123	56%
2013	227	2,294	267	2,347	126	55%
2014	250	2,544	250	1,932	143	57%
2015	270	2,814	273	2,421	150	55%
2016	370	3,184	282	2,699	212	57%
2017	491	3,675	309	4,557	319	64%
2018	527	4,202	280	6,011	347	65%
2019	605	4,807	283	2,670	436	72%
2020	431	5,238	302	4,564	288	66%
2021	522	5,760	296	2,726	373	71%

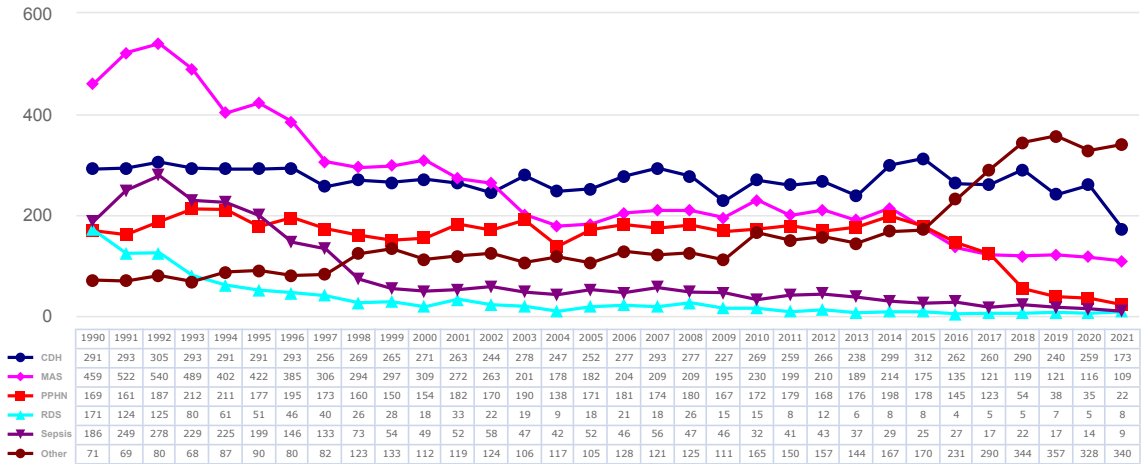
Pediatric Respiratory Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
<=1986	2	19	0	0	0
1987	1	14	0	0	0
1988	6	32	0	0	1
1989	9	44	0	0	0
1990	16	95	0	0	0
1991	30	118	0	0	1
1992	45	108	0	0	0
1993	68	141	0	0	0
1994	68	153	0	0	1
1995	69	155	0	1	3
1996	60	146	0	3	10
1997	84	152	0	3	4
1998	62	159	0	3	1
1999	82	117	0	5	1
2000	98	117	0	3	0

Year	VV	VA	VVA	Other	Unknown
2001	104	109	0	2	0
2002	97	129	0	0	0
2003	113	144	0	5	2
2004	113	136	0	6	1
2005	139	176	1	4	1
2006	100	165	0	5	2
2007	132	176	1	3	0
2008	147	217	0	4	1
2009	202	283	1	8	4
2010	189	219	0	4	1
2011	232	215	0	3	1
2012	261	248	3	5	2
2013	307	218	2	6	8
2014	323	216	3	3	7
2015	371	253	5	2	7
2016	376	275	15	8	4
2017	456	257	17	11	0
2018	514	303	33	6	0
2019	574	346	30	8	0
2020	363	233	18	3	1
2021	440	234	15	1	0

Neonatal Respiratory (0-28 days)

Neonatal Respiratory Diagnoses by Year



Neonatal Respiratory Runs by Year

CDH (Neonatal Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	147	147	123	336	93	63%
1987	85	232	154	411	60	70%
1988	179	411	162	601	109	60%
1989	203	614	170	494	114	56%
1990	291	905	201	611	174	59%
1991	293	1,198	220	744	178	60%
1992	305	1,503	219	708	158	51%
1993	293	1,796	237	884	162	55%
1994	291	2,087	230	748	156	53%
1995	291	2,378	237	794	154	52%
1996	293	2,671	236	856	136	46%
1997	256	2,927	244	740	136	53%
1998	269	3,196	268	1,072	127	47%
1999	265	3,461	254	802	136	51%
2000	271	3,732	265	711	151	55%
2001	263	3,995	266	949	129	49%
2002	244	4,239	273	743	108	44%
2003	278	4,517	286	1,001	108	38%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2004	247	4,764	283	934	114	46%
2005	252	5,016	297	1,006	111	44%
2006	277	5,293	301	1,033	135	48%
2007	293	5,586	289	1,229	136	46%
2008	277	5,863	301	1,133	131	47%
2009	227	6,090	286	814	112	49%
2010	269	6,359	293	2,549	135	50%
2011	259	6,618	304	2,745	122	47%
2012	266	6,884	297	3,435	150	56%
2013	238	7,122	302	1,508	127	53%
2014	299	7,421	302	1,069	155	51%
2015	312	7,733	300	1,662	143	45%
2016	262	7,995	324	1,733	132	50%
2017	260	8,255	310	1,549	148	56%
2018	290	8,545	326	1,025	175	60%
2019	240	8,785	327	2,178	131	54%
2020	259	9,044	333	2,235	159	61%
2021	173	9,217	312	1,810	102	58%

MAS (Neonatal Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	372	372	112	453	338	90%
1987	258	630	118	377	242	93%
1988	369	999	123	541	347	94%
1989	432	1,431	126	457	405	93%
1990	459	1,890	122	552	427	93%
1991	522	2,412	128	488	500	95%
1992	540	2,952	126	571	510	94%
1993	489	3,441	131	936	458	93%
1994	402	3,843	127	479	380	94%
1995	422	4,265	131	445	395	93%
1996	385	4,650	131	738	360	93%
1997	306	4,956	135	542	289	94%
1998	294	5,250	140	478	283	96%
1999	297	5,547	145	812	281	94%
2000	309	5,856	142	531	292	94%
2001	272	6,128	142	608	252	92%
2002	263	6,391	139	745	253	96%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2003	201	6,592	128	415	178	88%
2004	178	6,770	130	507	165	92%
2005	182	6,952	131	619	170	93%
2006	204	7,156	141	455	187	91%
2007	209	7,365	132	519	188	89%
2008	209	7,574	153	520	196	93%
2009	195	7,769	151	1,327	183	93%
2010	230	7,999	146	967	216	93%
2011	199	8,198	169	810	182	91%
2012	210	8,408	167	1,595	198	94%
2013	189	8,597	145	641	173	91%
2014	214	8,811	166	2,305	203	94%
2015	175	8,986	141	585	160	91%
2016	135	9,121	145	712	122	90%
2017	121	9,242	158	2,286	113	93%
2018	119	9,361	146	721	109	91%
2019	121	9,482	148	920	109	90%
2020	116	9,598	153	616	107	92%
2021	109	9,707	155	655	97	88%

PPHN/PFC (Neonatal Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	102	102	126	473	82	80%
1987	105	207	97	299	93	88%
1988	149	356	110	460	128	85%
1989	116	472	123	500	98	84%
1990	169	641	143	672	148	87%
1991	161	802	139	696	124	77%
1992	187	989	137	751	139	74%
1993	212	1,201	142	959	172	81%
1994	211	1,412	150	829	167	79%
1995	177	1,589	139	512	129	72%
1996	195	1,784	149	1,176	147	75%
1997	173	1,957	144	852	130	75%
1998	160	2,117	152	483	115	71%
1999	150	2,267	161	677	114	76%
2000	154	2,421	162	690	124	80%
2001	182	2,603	178	806	136	74%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2002	170	2,773	161	689	134	78%
2003	190	2,963	158	689	150	78%
2004	138	3,101	158	628	92	66%
2005	171	3,272	164	986	134	78%
2006	181	3,453	162	537	122	67%
2007	174	3,627	161	722	138	79%
2008	180	3,807	171	707	141	78%
2009	167	3,974	183	877	130	77%
2010	172	4,146	172	636	125	72%
2011	179	4,325	176	1,175	132	73%
2012	168	4,493	168	761	125	74%
2013	176	4,669	192	1,908	129	73%
2014	198	4,867	184	717	147	74%
2015	178	5,045	152	622	130	73%
2016	145	5,190	186	1,154	107	73%
2017	123	5,313	146	937	92	74%
2018	54	5,367	149	409	38	70%
2019	38	5,405	169	545	26	68%
2020	35	5,440	196	480	27	77%
2021	22	5,462	132	311	16	72%

RDS (Neonatal Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	112	112	116	840	85	75%
1987	111	223	120	384	87	78%
1988	159	382	126	466	139	87%
1989	168	550	125	406	146	86%
1990	171	721	124	430	146	85%
1991	124	845	140	504	105	84%
1992	125	970	153	710	103	82%
1993	80	1,050	125	354	72	90%
1994	61	1,111	160	546	52	85%
1995	51	1,162	129	285	45	88%
1996	46	1,208	130	470	40	86%
1997	40	1,248	148	301	33	82%
1998	26	1,274	182	1,093	20	76%
1999	28	1,302	158	506	21	75%
2000	18	1,320	141	362	15	83%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2001	33	1,353	169	522	25	75%
2002	22	1,375	175	419	19	86%
2003	19	1,394	122	258	18	94%
2004	9	1,403	141	338	6	66%
2005	18	1,421	182	497	15	83%
2006	21	1,442	156	338	18	85%
2007	18	1,460	179	441	17	94%
2008	26	1,486	140	357	23	88%
2009	15	1,501	148	338	11	73%
2010	15	1,516	133	324	14	93%
2011	8	1,524	214	417	6	75%
2012	12	1,536	180	394	11	91%
2013	6	1,542	120	221	4	66%
2014	8	1,550	153	562	4	50%
2015	8	1,558	97	132	7	87%
2016	4	1,562	150	253	4	100%
2017	5	1,567	111	158	5	100%
2018	5	1,572	123	156	5	100%
2019	7	1,579	299	522	4	57%
2020	5	1,584	160	412	3	60%
2021	8	1,592	214	415	6	75%

Sepsis (Neonatal Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	71	71	131	338	49	69%
1987	66	137	124	288	54	81%
1988	120	257	135	498	88	73%
1989	157	414	122	448	123	78%
1990	186	600	122	440	148	79%
1991	249	849	137	827	188	75%
1992	278	1,127	142	1,200	212	76%
1993	229	1,356	135	484	175	76%
1994	225	1,581	135	526	161	71%
1995	199	1,780	145	714	153	76%
1996	146	1,926	140	713	110	75%
1997	133	2,059	158	864	102	76%
1998	73	2,132	172	543	53	72%
1999	54	2,186	134	490	38	70%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2000	49	2,235	163	508	34	69%
2001	52	2,287	135	403	38	73%
2002	58	2,345	129	424	40	68%
2003	47	2,392	145	365	34	72%
2004	42	2,434	152	556	30	71%
2005	52	2,486	171	647	40	76%
2006	46	2,532	189	1,012	28	60%
2007	56	2,588	138	375	39	69%
2008	47	2,635	161	733	22	46%
2009	46	2,681	222	900	28	60%
2010	32	2,713	161	594	21	65%
2011	41	2,754	165	579	30	73%
2012	43	2,797	162	657	20	46%
2013	37	2,834	142	368	19	51%
2014	29	2,863	158	448	13	44%
2015	25	2,888	212	1,155	11	44%
2016	27	2,915	161	536	13	48%
2017	17	2,932	177	686	11	64%
2018	22	2,954	207	624	12	54%
2019	17	2,971	98	285	9	52%
2020	14	2,985	116	424	6	42%
2021	9	2,994	209	521	3	33%

Other (Neonatal Respiratory Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	15	15	101	229	11	73%
1987	26	41	131	312	22	84%
1988	39	80	141	360	30	76%
1989	43	123	144	454	31	72%
1990	71	194	158	528	52	73%
1991	69	263	176	488	46	66%
1992	80	343	185	2,832	58	72%
1993	68	411	176	595	51	75%
1994	87	498	181	936	56	64%
1995	90	588	184	736	53	58%
1996	80	668	195	634	42	52%
1997	82	750	192	1,131	47	57%
1998	123	873	175	722	81	65%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1999	133	1,006	177	535	79	59%
2000	112	1,118	181	936	76	67%
2001	119	1,237	178	797	74	62%
2002	124	1,361	201	944	70	56%
2003	106	1,467	182	749	66	62%
2004	117	1,584	178	956	72	61%
2005	105	1,689	194	905	61	58%
2006	128	1,817	188	920	85	66%
2007	121	1,938	174	829	65	53%
2008	125	2,063	208	915	67	53%
2009	111	2,174	206	1,131	58	52%
2010	165	2,339	191	1,227	99	60%
2011	150	2,489	226	914	84	56%
2012	157	2,646	271	2,365	94	59%
2013	144	2,790	208	908	77	53%
2014	167	2,957	200	1,088	115	68%
2015	170	3,127	199	792	104	61%
2016	231	3,358	201	1,558	150	64%
2017	290	3,648	181	846	206	71%
2018	344	3,992	190	2,693	266	77%
2019	357	4,349	177	2,197	269	75%
2020	328	4,677	179	1,357	233	71%
2021	340	5,017	175	1,165	250	73%

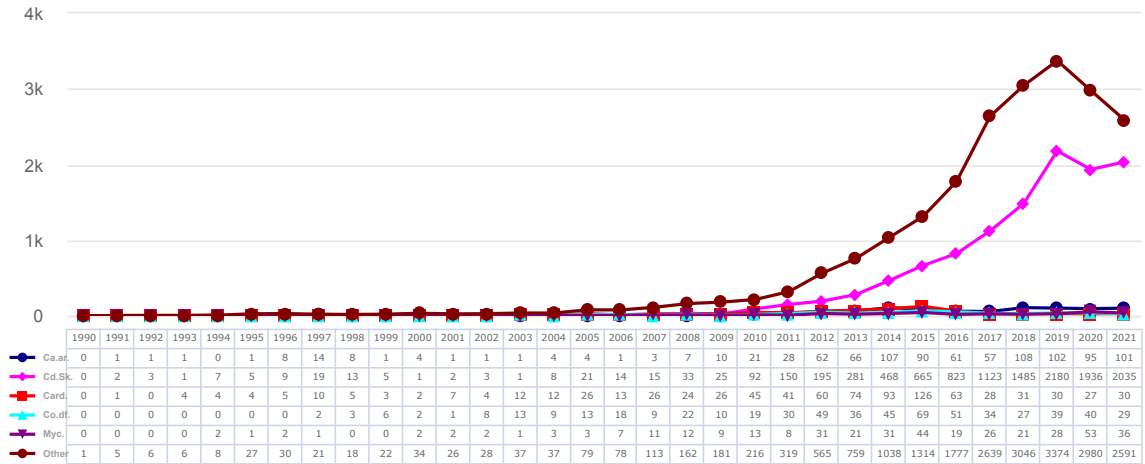
Neonatal Respiratory Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
<=1986	18	808	0	0	0
1987	1	650	0	0	1
1988	10	1,005	0	0	0
1989	29	1,093	0	0	0
1990	108	1,247	0	0	0
1991	242	1,206	0	0	0
1992	406	1,171	0	0	0
1993	409	1,013	0	0	0
1994	377	958	0	1	1
1995	363	904	0	4	4
1996	394	802	0	3	5
1997	354	682	0	0	4
1998	311	660	0	4	5

Year	VV	VA	VVA	Other	Unknown
1999	333	619	0	1	6
2000	350	598	0	3	2
2001	389	569	0	1	0
2002	377	555	0	0	0
2003	324	539	0	2	2
2004	278	476	0	3	0
2005	292	523	0	0	0
2006	296	596	0	0	3
2007	310	587	0	1	1
2008	272	611	0	0	1
2009	284	501	0	2	2
2010	330	574	0	3	2
2011	294	577	0	0	6
2012	293	601	0	0	9
2013	256	558	0	0	4
2014	292	662	0	1	5
2015	265	628	3	0	7
2016	209	609	6	1	2
2017	207	639	6	1	0
2018	206	654	9	0	0
2019	128	668	3	4	0
2020	91	677	4	0	0
2021	58	617	0	0	0

Adult Cardiac (18 years and over)

Adult Cardiac Diagnoses by Year



Co.df. - Congenital Defect
 Ca.ar. - Cardiac Arrest
 Cd.Sk. - Cardiogenic Shock
 Card. - Cardiomyopathy
 Myc. - Myocarditis

Adult Cardiac Runs by Year

Congenital Defect (Adult Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1988	1	1	279	279	0	0%
1997	2	3	63	117	0	0%
1998	3	6	139	248	0	0%
1999	6	12	134	233	2	33%
2000	2	14	53	68	0	0%
2001	1	15	43	43	0	0%
2002	8	23	132	404	1	12%
2003	13	36	133	374	3	23%
2004	9	45	162	733	4	44%
2005	13	58	101	394	4	30%
2006	18	76	136	446	6	33%
2007	9	85	70	237	3	33%
2008	22	107	107	233	10	45%
2009	10	117	121	290	6	60%
2010	19	136	148	529	7	36%
2011	30	166	114	386	6	20%
2012	49	215	142	601	16	32%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2013	36	251	123	445	18	50%
2014	45	296	172	801	15	33%
2015	69	365	166	2,030	28	40%
2016	51	416	146	732	17	33%
2017	34	450	158	492	16	47%
2018	27	477	177	644	10	37%
2019	39	516	206	846	22	56%
2020	40	556	180	618	16	40%
2021	29	585	195	867	16	55%

Cardiac Arrest (Adult Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1991	1	1	6	6	0	0%
1992	1	2	28	28	0	0%
1993	1	3	8	8	1	100%
1995	1	4	192	192	0	0%
1996	8	12	68	216	2	25%
1997	14	26	65	187	2	14%
1998	8	34	84	257	2	25%
1999	1	35	65	65	0	0%
2000	4	39	100	211	0	0%
2001	1	40	61	61	0	0%
2002	1	41	52	52	0	0%
2003	1	42	41	41	1	100%
2004	4	46	71	216	1	25%
2005	4	50	72	115	0	0%
2006	1	51	50	50	1	100%
2007	3	54	31	41	1	33%
2008	7	61	75	134	4	57%
2009	10	71	97	167	3	30%
2010	21	92	142	1,017	8	38%
2011	28	120	97	681	11	39%
2012	62	182	111	772	19	30%
2013	66	248	119	1,010	22	33%
2014	107	355	117	678	34	31%
2015	90	445	126	768	34	37%
2016	61	506	103	769	19	31%
2017	57	563	87	481	18	31%
2018	108	671	116	536	46	42%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2019	102	773	113	588	37	36%
2020	95	868	125	1,013	41	43%
2021	101	969	157	1,253	41	40%

Cardiogenic Shock (Adult Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1991	2	2	215	382	1	50%
1992	3	5	77	114	0	0%
1993	1	6	73	73	0	0%
1994	7	13	92	322	3	42%
1995	5	18	93	120	4	80%
1996	9	27	136	564	2	22%
1997	19	46	112	900	14	73%
1998	13	59	142	786	4	30%
1999	5	64	83	209	2	40%
2000	1	65	75	75	0	0%
2001	2	67	52	93	1	50%
2002	3	70	147	166	2	66%
2003	1	71	379	379	0	0%
2004	8	79	54	111	2	25%
2005	21	100	103	278	8	38%
2006	14	114	92	303	6	42%
2007	15	129	101	399	2	13%
2008	33	162	107	345	9	27%
2009	25	187	87	285	8	32%
2010	92	279	106	534	35	38%
2011	150	429	123	697	51	34%
2012	195	624	166	2,950	72	36%
2013	281	905	157	1,028	110	39%
2014	468	1,373	152	3,306	219	46%
2015	665	2,038	162	1,494	295	44%
2016	823	2,861	162	2,539	376	45%
2017	1,123	3,984	170	2,552	460	40%
2018	1,485	5,469	158	1,900	640	43%
2019	2,180	7,649	176	4,783	1,059	48%
2020	1,936	9,585	168	1,903	880	45%
2021	2,035	11,620	186	2,270	960	47%

Cardiomyopathy (Adult Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1988	1	1	370	370	0	0%
1991	1	2	115	115	0	0%
1993	4	6	140	210	1	25%
1994	4	10	73	115	2	50%
1995	4	14	75	162	3	75%
1996	5	19	86	167	0	0%
1997	10	29	66	188	3	30%
1998	5	34	213	369	1	20%
1999	3	37	80	170	1	33%
2000	2	39	59	68	0	0%
2001	7	46	93	149	3	42%
2002	4	50	79	181	1	25%
2003	12	62	105	229	7	58%
2004	12	74	98	190	5	41%
2005	26	100	183	663	11	42%
2006	13	113	258	842	6	46%
2007	26	139	133	648	15	57%
2008	24	163	217	1,296	14	58%
2009	26	189	137	360	17	65%
2010	45	234	213	2,105	21	46%
2011	41	275	163	489	19	46%
2012	60	335	175	948	31	51%
2013	74	409	198	1,345	39	52%
2014	93	502	185	1,399	53	56%
2015	126	628	177	838	66	52%
2016	63	691	175	2,116	28	44%
2017	28	719	136	470	15	53%
2018	31	750	178	997	16	51%
2019	30	780	167	809	11	36%
2020	27	807	303	1,255	13	48%
2021	30	837	196	1,990	24	80%

Myocarditis (Adult Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1994	2	2	356	622	1	50%
1995	1	3	70	70	1	100%
1996	2	5	105	138	2	100%
1997	1	6	2	2	0	0%
2000	2	8	103	132	2	100%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2001	2	10	69	71	1	50%
2002	2	12	201	230	0	0%
2003	1	13	155	155	1	100%
2004	3	16	128	147	3	100%
2005	3	19	125	185	2	66%
2006	7	26	191	672	6	85%
2007	11	37	209	761	8	72%
2008	12	49	151	458	8	66%
2009	9	58	180	567	7	77%
2010	13	71	246	1,024	7	53%
2011	8	79	213	527	4	50%
2012	31	110	249	1,878	19	61%
2013	21	131	340	3,035	13	61%
2014	31	162	365	6,192	16	51%
2015	44	206	217	772	25	56%
2016	19	225	256	1,370	13	68%
2017	26	251	214	956	17	65%
2018	21	272	229	635	17	80%
2019	28	300	185	857	19	67%
2020	53	353	171	593	41	77%
2021	36	389	185	661	26	72%

Other (Adult Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	1	1	136	136	0	0%
1988	1	2	44	44	0	0%
1989	2	4	63	102	1	50%
1990	1	5	147	147	0	0%
1991	5	10	132	357	0	0%
1992	6	16	94	303	2	33%
1993	6	22	84	214	0	0%
1994	8	30	101	266	0	0%
1995	27	57	104	438	10	37%
1996	30	87	87	252	10	33%
1997	21	108	90	262	9	42%
1998	18	126	74	305	5	27%
1999	22	148	94	225	8	36%
2000	34	182	110	431	15	44%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2001	26	208	90	259	9	34%
2002	28	236	87	376	13	46%
2003	37	273	134	576	11	29%
2004	37	310	104	309	12	32%
2005	79	389	105	585	21	26%
2006	78	467	130	965	37	47%
2007	113	580	112	632	41	36%
2008	162	742	120	937	78	48%
2009	181	923	131	871	67	37%
2010	216	1,139	130	1,222	101	46%
2011	319	1,458	146	4,570	120	37%
2012	565	2,023	144	1,901	243	43%
2013	759	2,782	157	3,066	301	39%
2014	1,038	3,820	160	6,539	423	40%
2015	1,314	5,134	145	2,849	577	43%
2016	1,777	6,911	149	2,941	805	45%
2017	2,639	9,550	158	6,359	1,191	45%
2018	3,046	12,596	158	4,049	1,421	46%
2019	3,374	15,970	154	2,709	1,669	49%
2020	2,980	18,950	157	2,029	1,463	49%
2021	2,591	21,541	154	2,561	1,302	50%

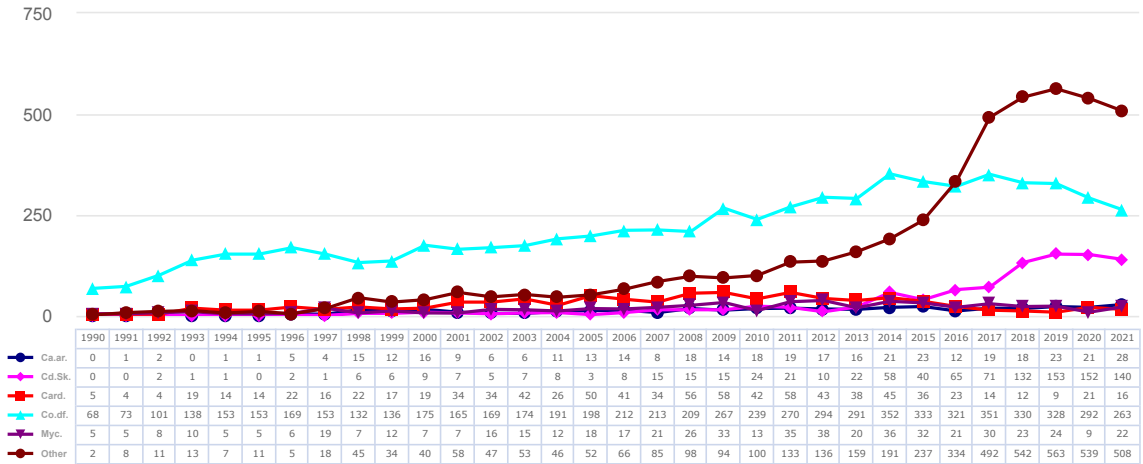
Adult Cardiac Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
<=1986	0	0	0	0	1
1988	0	0	0	0	3
1989	0	0	0	0	2
1990	0	0	0	0	1
1991	0	0	0	0	9
1992	0	0	0	0	10
1993	0	1	0	0	11
1994	0	2	0	0	19
1995	0	3	0	0	35
1996	0	0	0	0	54
1997	3	35	0	0	29
1998	2	42	0	1	4
1999	0	39	0	0	0
2000	1	43	0	1	1
2001	0	35	0	4	1

Year	VV	VA	VVA	Other	Unknown
2002	0	44	0	0	2
2003	1	64	0	1	1
2004	4	71	0	0	1
2005	3	149	0	0	0
2006	4	127	1	0	2
2007	1	173	0	2	2
2008	6	253	0	0	3
2009	4	264	0	4	2
2010	10	396	1	11	3
2011	10	582	1	7	15
2012	30	1,052	4	22	11
2013	50	1,282	14	10	23
2014	75	1,801	30	18	33
2015	78	2,447	49	20	33
2016	73	3,036	59	27	12
2017	171	4,228	134	69	3
2018	269	4,780	207	128	9
2019	444	5,803	307	183	3
2020	368	5,185	203	122	2
2021	332	4,713	160	113	1

Pediatric Cardiac (> 28 days and < 18 years)

Pediatric Cardiac Diagnoses by Year



Co.df. - Congenital Defect
 Ca.ar. - Cardiac Arrest
 Cd.Sk. - Cardiogenic Shock
 Card. - Cardiomyopathy
 Myc. - Myocarditis

Pediatric Cardiac Runs by Year

Congenital Defect (Pediatric Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	28	28	84	196	12	42%
1987	28	56	102	312	16	57%
1988	38	94	117	353	14	36%
1989	60	154	126	293	26	43%
1990	68	222	129	544	26	38%
1991	73	295	114	432	34	46%
1992	101	396	136	547	35	34%
1993	138	534	147	1,080	53	38%
1994	153	687	136	691	55	35%
1995	153	840	156	984	48	31%
1996	169	1,009	124	504	66	39%
1997	153	1,162	153	864	51	33%
1998	132	1,294	155	1,183	51	38%
1999	136	1,430	142	1,029	56	41%
2000	175	1,605	130	818	84	48%
2001	165	1,770	144	1,077	72	43%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2002	169	1,939	144	891	72	42%
2003	174	2,113	148	693	85	48%
2004	191	2,304	140	864	88	46%
2005	198	2,502	153	1,133	110	55%
2006	212	2,714	135	1,260	104	49%
2007	213	2,927	159	764	93	43%
2008	209	3,136	155	645	90	43%
2009	267	3,403	149	1,282	161	60%
2010	239	3,642	142	962	123	51%
2011	270	3,912	142	1,216	146	54%
2012	294	4,206	163	2,452	150	51%
2013	291	4,497	198	6,798	147	50%
2014	352	4,849	143	2,736	189	53%
2015	333	5,182	158	1,350	180	54%
2016	321	5,503	171	2,720	182	56%
2017	351	5,854	167	3,379	208	59%
2018	330	6,184	157	1,028	180	54%
2019	328	6,512	158	1,752	193	58%
2020	292	6,804	157	3,549	167	57%
2021	263	7,067	163	2,538	157	59%

Cardiac Arrest (Pediatric Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1991	1	1	35	35	0	0%
1992	2	3	24	32	0	0%
1994	1	4	44	44	1	100%
1995	1	5	3	3	0	0%
1996	5	10	176	455	1	20%
1997	4	14	208	506	1	25%
1998	15	29	148	525	3	20%
1999	12	41	87	396	1	8%
2000	16	57	125	533	9	56%
2001	9	66	123	485	6	66%
2002	6	72	79	186	1	16%
2003	6	78	153	327	4	66%
2004	11	89	157	517	7	63%
2005	13	102	89	250	5	38%
2006	14	116	92	313	5	35%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2007	8	124	240	587	4	50%
2008	18	142	95	231	10	55%
2009	14	156	109	283	9	64%
2010	18	174	127	452	8	44%
2011	19	193	101	446	7	36%
2012	17	210	66	336	4	23%
2013	16	226	160	558	8	50%
2014	21	247	96	288	9	42%
2015	23	270	273	2,352	12	52%
2016	12	282	160	495	5	41%
2017	19	301	179	731	11	57%
2018	18	319	170	898	6	33%
2019	23	342	118	606	12	52%
2020	21	363	113	352	15	71%
2021	28	391	107	471	14	50%

Cardiogenic Shock (Pediatric Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1988	1	1	21	21	0	0%
1989	1	2	48	48	1	100%
1992	2	4	95	149	0	0%
1993	1	5	8	8	0	0%
1994	1	6	78	78	0	0%
1996	2	8	114	224	0	0%
1997	1	9	147	147	0	0%
1998	6	15	121	177	0	0%
1999	6	21	110	186	2	33%
2000	9	30	93	196	5	55%
2001	7	37	63	173	3	42%
2002	5	42	155	297	3	60%
2003	7	49	87	227	3	42%
2004	8	57	320	1,157	1	12%
2005	3	60	61	171	1	33%
2006	8	68	132	191	5	62%
2007	15	83	136	325	10	66%
2008	15	98	134	489	5	33%
2009	15	113	195	692	14	93%
2010	24	137	159	1,259	13	54%
2011	21	158	181	548	10	47%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2012	10	168	157	694	7	70%
2013	22	190	124	240	14	63%
2014	58	248	148	787	32	55%
2015	40	288	157	1,347	23	57%
2016	65	353	175	2,977	36	55%
2017	71	424	248	3,199	41	57%
2018	132	556	163	1,224	81	61%
2019	153	709	158	3,158	86	56%
2020	152	861	142	1,173	94	61%
2021	140	1,001	164	829	78	55%

Cardiomyopathy (Pediatric Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	1	1	120	120	0	0%
1987	4	5	90	215	1	25%
1990	5	10	135	264	1	20%
1991	4	14	106	262	1	25%
1992	4	18	116	161	1	25%
1993	19	37	142	704	12	63%
1994	14	51	153	720	6	42%
1995	14	65	162	602	8	57%
1996	22	87	140	721	11	50%
1997	16	103	161	360	8	50%
1998	22	125	222	1,137	10	45%
1999	17	142	202	818	9	52%
2000	19	161	188	871	11	57%
2001	34	195	267	1,490	14	41%
2002	34	229	251	1,119	24	70%
2003	42	271	227	923	25	59%
2004	26	297	231	756	13	50%
2005	50	347	200	1,174	30	60%
2006	41	388	205	1,073	26	63%
2007	34	422	243	963	23	67%
2008	56	478	179	910	34	60%
2009	58	536	271	3,456	42	72%
2010	42	578	136	361	26	61%
2011	58	636	145	680	37	63%
2012	43	679	179	936	28	65%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2013	38	717	306	3,605	26	68%
2014	45	762	180	1,224	27	60%
2015	36	798	390	2,506	23	63%
2016	23	821	191	695	16	69%
2017	14	835	325	1,835	8	57%
2018	12	847	221	647	6	50%
2019	9	856	217	752	6	66%
2020	21	877	129	361	12	57%
2021	16	893	293	2,182	8	50%

Myocarditis (Pediatric Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1988	2	2	82	148	0	0%
1990	5	7	167	260	3	60%
1991	5	12	171	321	4	80%
1992	8	20	176	428	3	37%
1993	10	30	159	280	7	70%
1994	5	35	66	116	1	20%
1995	5	40	137	208	4	80%
1996	6	46	329	494	2	33%
1997	19	65	189	664	15	78%
1998	7	72	354	849	5	71%
1999	12	84	158	283	9	75%
2000	7	91	183	311	2	28%
2001	7	98	155	299	5	71%
2002	16	114	268	1,246	8	50%
2003	15	129	199	509	10	66%
2004	12	141	217	360	9	75%
2005	18	159	252	1,207	13	72%
2006	17	176	142	295	14	82%
2007	21	197	190	769	17	80%
2008	26	223	159	555	18	69%
2009	33	256	156	597	27	81%
2010	13	269	151	385	10	76%
2011	35	304	206	648	26	74%
2012	38	342	217	1,152	30	78%
2013	20	362	227	976	15	75%
2014	36	398	211	1,367	23	63%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2015	32	430	204	1,005	25	78%
2016	21	451	178	620	14	66%
2017	30	481	229	866	27	90%
2018	23	504	156	480	20	86%
2019	24	528	268	1,746	20	83%
2020	9	537	180	467	8	88%
2021	22	559	150	290	22	100%

Other (Pediatric Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	3	3	88	112	1	33%
1987	1	4	100	100	0	0%
1988	1	5	90	90	1	100%
1990	2	7	76	92	1	50%
1991	8	15	96	242	2	25%
1992	11	26	179	414	3	27%
1993	13	39	122	251	4	30%
1994	7	46	173	330	1	14%
1995	11	57	124	253	5	45%
1996	5	62	122	280	0	0%
1997	18	80	163	483	8	44%
1998	45	125	144	936	23	51%
1999	34	159	177	739	15	44%
2000	40	199	169	720	17	42%
2001	58	257	144	496	21	36%
2002	47	304	138	659	22	46%
2003	53	357	174	987	25	47%
2004	46	403	191	1,026	20	43%
2005	52	455	172	844	26	50%
2006	66	521	165	624	35	53%
2007	85	606	163	797	45	52%
2008	98	704	136	585	59	60%
2009	94	798	173	2,520	60	63%
2010	100	898	155	1,059	45	45%
2011	133	1,031	190	3,605	75	56%
2012	136	1,167	161	2,270	86	63%
2013	159	1,326	198	2,880	91	57%
2014	191	1,517	222	3,506	100	52%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2015	237	1,754	177	2,564	143	60%
2016	334	2,088	180	2,803	198	59%
2017	492	2,580	181	3,408	311	63%
2018	542	3,122	205	6,194	331	61%
2019	563	3,685	169	3,572	331	58%
2020	539	4,224	165	4,941	335	62%
2021	508	4,732	173	2,936	306	60%

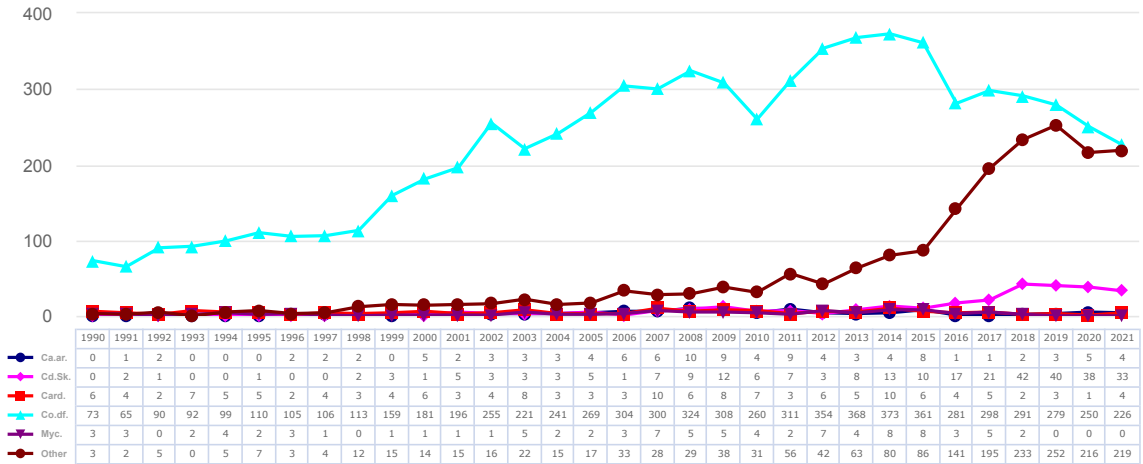
Pediatric Cardiac Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
<=1986	1	32	0	0	0
1987	0	34	0	0	0
1988	1	41	0	0	0
1989	0	61	0	0	0
1990	0	81	0	0	0
1991	1	103	0	0	0
1992	2	132	0	0	0
1993	4	188	0	0	1
1994	5	182	0	0	0
1995	2	187	0	0	0
1996	2	225	0	1	5
1997	3	218	0	3	2
1998	4	223	0	6	3
1999	5	214	0	2	1
2000	3	261	0	3	1
2001	7	270	0	5	3
2002	4	276	0	0	0
2003	4	291	0	5	1
2004	2	297	0	4	1
2005	9	332	0	3	1
2006	5	351	0	5	1
2007	7	370	1	2	1
2008	4	418	0	3	1
2009	3	468	0	5	7
2010	7	428	2	2	5
2011	7	524	3	7	3
2012	14	540	0	4	3
2013	19	536	2	6	7
2014	14	692	2	5	15

Year	VV	VA	VVA	Other	Unknown
2015	13	706	4	5	2
2016	13	781	22	7	0
2017	17	1,004	22	11	0
2018	26	1,095	37	10	0
2019	32	1,093	38	24	0
2020	20	1,034	20	9	0
2021	32	964	28	11	1

Neonatal Cardiac (0-28 days)

Neonatal Cardiac Diagnoses by Year



Co.df. - Congenital Defect
 Ca.ar. - Cardiac Arrest
 Cd.Sk. - Cardiogenic Shock
 Card. - Cardiomyopathy
 Myc. - Myocarditis

Neonatal Cardiac Runs by Year

Congenital Defect (Neonatal Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	22	22	150	453	15	68%
1987	11	33	109	217	5	45%
1988	25	58	123	336	12	48%
1989	46	104	124	344	25	54%
1990	73	177	125	348	28	38%
1991	65	242	139	600	25	38%
1992	90	332	167	696	36	40%
1993	92	424	171	831	32	34%
1994	99	523	169	667	31	31%
1995	110	633	145	701	38	34%
1996	105	738	137	767	40	38%
1997	106	844	154	1,126	33	31%
1998	113	957	139	765	43	38%
1999	159	1,116	140	1,258	50	31%
2000	181	1,297	135	645	54	29%
2001	196	1,493	138	1,198	67	34%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2002	255	1,748	135	907	88	34%
2003	221	1,969	151	708	79	35%
2004	241	2,210	139	989	99	41%
2005	269	2,479	146	1,022	93	34%
2006	304	2,783	135	685	112	36%
2007	300	3,083	139	952	120	40%
2008	324	3,407	146	721	130	40%
2009	308	3,715	154	1,524	132	42%
2010	260	3,975	144	1,099	116	44%
2011	311	4,286	160	3,141	135	43%
2012	354	4,640	142	1,196	163	46%
2013	368	5,008	151	1,400	160	43%
2014	373	5,381	137	1,481	170	45%
2015	361	5,742	151	1,251	155	42%
2016	281	6,023	153	1,080	124	44%
2017	298	6,321	139	1,046	161	54%
2018	291	6,612	132	862	155	53%
2019	279	6,891	137	1,463	133	47%
2020	250	7,141	137	866	128	51%
2021	226	7,367	135	744	122	53%

Cardiac Arrest (Neonatal Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1991	1	1	22	22	0	0%
1992	2	3	67	80	2	100%
1996	2	5	83	144	0	0%
1997	2	7	179	325	0	0%
1998	2	9	123	237	0	0%
2000	5	14	128	280	1	20%
2001	2	16	61	108	1	50%
2002	3	19	171	309	0	0%
2003	3	22	13	33	1	33%
2004	3	25	167	241	2	66%
2005	4	29	96	164	2	50%
2006	6	35	75	140	0	0%
2007	6	41	113	214	2	33%
2008	10	51	135	403	2	20%
2009	9	60	143	306	1	11%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2010	4	64	113	289	2	50%
2011	9	73	179	399	5	55%
2012	4	77	230	488	2	50%
2013	3	80	129	174	1	33%
2014	4	84	188	600	2	50%
2015	8	92	144	309	4	50%
2016	1	93	220	220	0	0%
2017	1	94	189	189	0	0%
2018	2	96	27	40	0	0%
2019	3	99	117	130	2	66%
2020	5	104	153	284	2	40%
2021	4	108	211	417	1	25%

Cardiogenic Shock (Neonatal Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1987	1	1	34	34	0	0%
1991	2	3	232	454	0	0%
1992	1	4	227	227	0	0%
1995	1	5	2	2	0	0%
1998	2	7	5	6	0	0%
1999	3	10	169	275	3	100%
2000	1	11	96	96	0	0%
2001	5	16	193	404	4	80%
2002	3	19	196	299	1	33%
2003	3	22	275	621	3	100%
2004	3	25	80	175	1	33%
2005	5	30	261	470	0	0%
2006	1	31	10	10	0	0%
2007	7	38	140	365	2	28%
2008	9	47	218	592	6	66%
2009	12	59	120	297	4	33%
2010	6	65	160	344	2	33%
2011	7	72	103	165	4	57%
2012	3	75	159	414	0	0%
2013	8	83	105	189	1	12%
2014	13	96	156	669	6	46%
2015	10	106	112	379	6	60%
2016	17	123	129	299	9	52%
2017	21	144	147	409	12	57%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2018	42	186	196	1,746	21	50%
2019	40	226	134	451	16	40%
2020	38	264	131	357	18	47%
2021	33	297	169	678	11	33%

Cardiomyopathy (Neonatal Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	1	1			1	100%
1987	1	2	96	96	1	100%
1988	3	5	165	241	3	100%
1989	3	8	136	138	2	66%
1990	6	14	120	190	6	100%
1991	4	18	149	293	2	50%
1992	2	20	24	45	1	50%
1993	7	27	210	351	6	85%
1994	5	32	235	376	3	60%
1995	5	37	271	561	0	0%
1996	2	39	104	140	1	50%
1997	4	43	178	394	2	50%
1998	3	46	159	206	2	66%
1999	4	50	442	867	2	50%
2000	6	56	166	248	3	50%
2001	3	59	247	297	3	100%
2002	4	63	207	288	3	75%
2003	8	71	176	356	6	75%
2004	3	74	513	757	1	33%
2005	3	77	275	452	1	33%
2006	3	80	140	243	2	66%
2007	10	90	270	536	4	40%
2008	6	96	141	337	4	66%
2009	8	104	220	473	3	37%
2010	7	111	229	363	6	85%
2011	3	114	271	370	1	33%
2012	6	120	190	438	3	50%
2013	5	125	211	340	5	100%
2014	10	135	221	848	7	70%
2015	6	141	140	281	1	16%
2016	4	145	347	627	2	50%

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
2017	5	150	186	346	4	80%
2018	2	152	296	338	1	50%
2019	3	155	817	2,109	0	0%
2020	1	156	1,614	1,614	0	0%
2021	4	160	240	350	3	75%

Myocarditis (Neonatal Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
1987	1	1	72	72	1	100%
1990	3	4	170	179	2	66%
1991	3	7	136	200	2	66%
1993	2	9	208	284	1	50%
1994	4	13	312	467	1	25%
1995	2	15	344	423	1	50%
1996	3	18	89	117	0	0%
1997	1	19	241	241	0	0%
1999	1	20	506	506	0	0%
2000	1	21	100	100	1	100%
2001	1	22	183	183	1	100%
2002	1	23	128	128	0	0%
2003	5	28	457	868	2	40%
2004	2	30	199	243	1	50%
2005	2	32	141	214	1	50%
2006	3	35	333	371	3	100%
2007	7	42	319	536	4	57%
2008	5	47	224	303	3	60%
2009	5	52	234	594	2	40%
2010	4	56	308	547	1	25%
2011	2	58	375	562	2	100%
2012	7	65	209	308	3	42%
2013	4	69	221	375	3	75%
2014	8	77	286	587	3	37%
2015	8	85	262	478	5	62%
2016	3	88	182	260	1	33%
2017	5	93	225	628	3	60%
2018	2	95	146	197	2	100%

Other (Neonatal Cardiac Diagnoses)

	Annual Runs	Cumulative Runs	Average Run Time	Longest Run Time	No. Survived	% Survived
<=1986	4	4	48	48	3	75%
1987	1	5	86	86	0	0%
1988	2	7			1	50%
1989	3	10	135	241	3	100%
1990	3	13	96	110	3	100%
1991	2	15	130	193	1	50%
1992	5	20	195	330	3	60%
1994	5	25	202	432	4	80%
1995	7	32	214	501	3	42%
1996	3	35	202	311	1	33%
1997	4	39	104	216	4	100%
1998	12	51	292	704	4	33%
1999	15	66	186	500	6	40%
2000	14	80	109	382	6	42%
2001	15	95	227	649	4	26%
2002	16	111	152	456	8	50%
2003	22	133	196	954	11	50%
2004	15	148	207	800	7	46%
2005	17	165	277	1,871	5	29%
2006	33	198	199	726	8	24%
2007	28	226	224	819	14	50%
2008	29	255	147	548	10	34%
2009	38	293	190	1,176	19	50%
2010	31	324	155	476	20	64%
2011	56	380	147	614	24	42%
2012	42	422	189	1,192	23	54%
2013	63	485	159	484	36	57%
2014	80	565	171	832	31	38%
2015	86	651	177	4,053	48	55%
2016	141	792	174	1,676	75	53%
2017	195	987	158	1,082	109	55%
2018	233	1,220	177	3,566	120	51%
2019	252	1,472	193	956	136	53%
2020	216	1,688	169	1,015	114	52%
2021	219	1,907	178	1,848	129	58%

Neonatal Cardiac Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
<=1986	0	27	0	0	0

Year	VV	VA	VVA	Other	Unknown
1987	0	16	0	0	0
1988	0	30	0	0	0
1989	0	53	0	0	0
1990	3	84	0	0	0
1991	1	89	0	0	0
1992	9	97	0	0	0
1993	4	100	0	0	0
1994	5	108	0	0	2
1995	0	125	0	2	1
1996	4	111	0	1	1
1997	9	115	0	2	2
1998	8	127	0	3	1
1999	9	176	0	0	3
2000	3	206	0	1	0
2001	2	217	0	3	0
2002	7	275	0	3	2
2003	6	262	0	0	1
2004	2	269	0	1	1
2005	4	296	0	2	1
2006	7	349	0	0	0
2007	5	355	0	1	0
2008	6	377	0	1	0
2009	9	373	0	1	2
2010	3	308	1	1	1
2011	2	390	0	2	0
2012	8	411	0	2	6
2013	8	443	0	5	3
2014	7	492	0	0	4
2015	9	477	0	0	6
2016	4	454	6	0	1
2017	6	535	3	0	0
2018	4	590	9	3	0
2019	7	587	0	0	0
2020	6	523	2	2	0
2021	2	492	0	2	0

Adult ECPR (18 years and over)

Adult ECPR Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
1992	1	1	0	0	0
1993	0	1	0	0	0
1995	0	1	0	0	0
1996	1	1	0	0	0
1997	0	1	0	0	0
1998	0	10	0	0	0
1999	1	13	0	1	0
2000	3	31	0	1	0
2001	0	13	0	1	0
2002	1	26	0	0	0
2003	2	28	0	0	0
2004	2	33	0	2	1
2005	0	20	0	0	0
2006	3	59	0	0	0
2007	5	82	0	1	1
2008	2	74	0	0	0
2009	1	85	0	0	0
2010	2	104	1	0	1
2011	3	151	0	1	2
2012	6	247	2	2	1
2013	16	452	4	0	8
2014	12	521	1	2	10
2015	21	851	11	1	13
2016	20	958	13	0	4
2017	39	1,234	24	5	0
2018	50	1,519	48	15	4
2019	95	2,016	80	17	1
2020	66	1,585	50	17	0
2021	80	1,293	50	23	0

Pediatric ECPR (> 28 days and < 18 years)

Pediatric ECPR Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
1992	0	1	0	0	0
1993	0	1	0	0	0
1995	0	4	0	0	0
1996	0	1	0	0	0
1997	0	3	0	0	0
1998	0	18	0	0	0
1999	1	35	0	0	0
2000	1	43	0	1	0
2001	1	53	0	1	0
2002	3	63	0	0	0
2003	1	70	0	1	0
2004	1	94	0	1	0
2005	3	95	0	0	0
2006	3	145	0	0	0
2007	2	159	0	2	0
2008	0	159	0	1	0
2009	7	218	0	1	0
2010	2	240	1	1	0
2011	2	248	2	1	0
2012	5	314	1	1	2
2013	3	357	2	6	2
2014	4	370	0	1	1
2015	3	373	1	4	5
2016	10	422	4	2	1
2017	11	443	12	2	0
2018	9	538	21	7	0
2019	14	585	13	1	0
2020	9	509	8	5	0
2021	8	439	16	5	0

Neonatal ECPR (0-28 days)

Neonatal ECPR Support Mode by Year (Tabular)

Year	VV	VA	VVA	Other	Unknown
1994	0	1	0	0	0
1995	0	2	0	0	0
1996	0	2	0	0	0
1997	0	1	0	0	0
1998	0	11	0	0	0
1999	0	15	0	0	0
2000	1	26	0	0	0
2001	0	26	0	0	0
2002	0	26	0	0	0
2003	2	45	0	0	0
2004	0	46	0	0	0
2005	0	51	0	0	1
2006	1	65	0	0	0
2007	0	88	0	0	1
2008	0	98	0	1	0
2009	4	106	0	0	0
2010	2	114	0	1	0
2011	1	116	1	0	1
2012	0	121	0	0	1
2013	1	146	0	1	0
2014	0	147	0	1	0
2015	1	141	0	0	0
2016	0	189	0	0	0
2017	2	158	0	0	0
2018	0	182	1	2	0
2019	1	178	0	0	0
2020	0	150	0	0	0
2021	0	157	0	0	0