

Neonates Cardiac Monitoring Research Project  
Shahid Akbarabadi Maternity Hospital, Iran University of Medical Sciences

840 neonates have undergone standard medical examination besides, each one of them has also been examined double-blinded, by the intelligent phonocardiography machine, Pouya Heart. The results are presented in following table. The data are extracted from dataset presented hereunder.

Data extracted from the 840 neonates’ dataset

1	Neonates examined	840	9	Standard clinical medical examination including auscultation, negative error	44%
2	Average age	30,85 hours	10	Intelligent machine, Pouya Heart negative error	0%
3	Limit of age	1 hour to 192	11	CCHD and critical CHD detected in well-baby nursery	2
4	Average weight	3,12 Kg	12	Standard clinical medical examination including auscultation, CCHD detection negative error rate	50%
5	Female neonates	414	13	Intelligent machine, Pouya Heart, CCHD detection negative error rate	0%
6	Male neonates	426	14	Auscultation (human ear), precise correct detection rate	21%
7	Heart malformation detected	42 (13 f & 29 m)	15	Standard clinical medical examination including auscultation, precise detection rate	56 %
8	Auscultation (human ear) negative error	79%	16	Intelligent machine, Pouya Heart, including CCHD precise correct detection rate	100%

Flagged  
items to  
reorder

0	#	Gender	weight(K)	Age(Hour)	Apgar score of 1- min	Color of neonate	Auscultation result (human ear only)	Heart rate(beats/min)	Respiratory rate( per min)	Pulse oximetry(%)	Pulse of limbs	Intelligent Phonocardiography Screening result (Pouya-Heart )	Echoc Results	Echo-Follow UP	comments, family records
0	1	Female	2.1	24	9/10	pink	NL	130	44	99	NL- symetric	Healthy			
0	2	Male	1.85	48	8/10	pink	NL	145	58	97	NL- symetric	ill	small PDA	One week later	HTN-diabet
0	3	Male	2.8	9	10/10	pink	NL	134	43	98	NL- symetric	Healthy			
0	4	Male	1.7	48	9/10	pink	NL	156	53	98	NL- symetric	ill	small PDA	One week later	HTN
0	5	Male	2.7	24	9/10	pink	NL	145	44	99	NL- symetric	Healthy			
0	6	Male	3.6	48	8/10	pink	NL	156	45	97	NL- symetric	Healthy	NL		
0	7	Male	3.27	12	9/10	pink	NL	134	43	100	NL- symetric	Healthy			
0	8	Male	2.9	48	9/10	acrocyanosis	NL	145	56	97	NL- symetric	ill	Small ASD	Three months later	breech

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0	9	Male	2.1	24	8/10	pink	NL	146	42	98	NL- symetric	Healthy				
0	10	Male	3.55	30	9/10	pink	NL	147	55	99	NL- symetric	Healthy				
0	11	Male	2.35	24	8/10	pink	NL	156	53	98	NL- symetric	healthy				
0	12	Male	3	15	9/10	pink	NL	154	58	100	NL- symetric	Healthy				
0	13	Male	3.05	48	9/10	pink	NL	154	45	99	NL- symetric	Healthy				
0	14	Male	3.3	24	8/10	pink	NL	148	42	98	NL- symetric	ill	PFO/small PDA	One week later	diabet	
0	15	Male	3.2	24	9/10	pink	murmur heard	153	46	97	NL- symetric	ill	PFO	One week later	diabet	
0	16	Female	2.6	48	9/10	pink	NL	138	39	99	NL- symetric	Healthy				
0	17	Male	3.24	14	9/10	pink	murmur heard	145	55	98	NL- symetric	Healthy	NL			
0	18	Female	2.5	12	10/10	pink	NL	137	52	99	NL- symetric	Healthy				
0	19	Male	4	24	9/10	pink	NL	154	43	98	NL- symetric	Healthy				
0	20	Male	2.5	12	10/10	pink	NL	151	44	99	NL- symetric	Healthy				
0	21	Male	3	48	8/10	pink	murmur heard	144	46	97	NL- symetric	ill	small PDA	One week later		

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Data extracted from the 840 neonates’ dataset

0	22	Male	3.55	48	10/10	pink	NL	149	49	98	NL- symetric	Healthy			
0	23	Male	4.15	14	9/10	pink	NL	137	40	99	NL- symetric	ill	PFO/small PDA	One week later	
0	24	Female	3.25	72	10/10	pink	NL	145	56	97	NL- symetric	Healthy			
0	25	Male	3.4	72	8/10	pink	NL	155	54	97	NL- symetric	Healthy			
0	26	Female	3.4	48	9/10	acrocyanosis	NL	133	55	98	NL- symetric	ill	PDA/PFO	One week later	diabet
0	27	Female	2.3	48	9/10	pink	NL	141	53	99	NL- symetric	Healthy			
0	28	Male	3.65	24	9/10	pink	NL	143	58	97	NL- symetric	ill	PFO/mild IHSS	One week later	
0	29	Female	3.6	24	9/10	pink	NL	156	45	99	NL- symetric	Healthy			
0	30	Male	2.55	7	10/10	pink	NL	153	53	100	NL- symetric	Healthy			
0	31	Female	3.05	24	9/10	pink	murmur heard	141	55	100	NL- symetric	Healthy	NL		
0	32	Female	3.7	7	8/10	pink	NL	152	45	97	NL- symetric	Healthy			
0	33	Male	3.4	4	8/10	pink	NL	148	44	98	NL- symetric	Healthy			
0	34	Female	2.85	48	9/10	pink	NL	154	43	99	NL- symetric	Healthy			

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0	35	Male	2.75	168	9/10	pink	NL	161	43	98	NL- symetric	ill	PFO/small PDA	One week later	diabet-HTN
0	36	Male	2.15	26	9/10	pink	NL	157	56	99	NL- symetric	ill	PFO/small PDA	One week later	
0	37	Female	3.2	24	10/10	pink	NL	139	42	100	NL- symetric	Healthy			
0	38	Female	2.95	18	8/10	pink	murmur heard	133	50	97	NL- symetric	ill	PFO/small PDA	One week later	
	39	Male	3.4	24	8/10	pink	NL	132	53	98	NL- symetric	Healthy			
0	40	Female	3	12	9/10	pink	NL	156	44	99	NL- symetric	ill	PFO/smallPDA/mildIHSS	One week later	
0	41	Female	4	48	9/10	pink	NL	143	55	97	NL- symetric	Healthy			
0	42	Male	3.6	24	9/10	pink	murmur heard	148	55	97	NL- symetric	ill	PFO/smallPDA/mildIHSS	One week later	
0	43	Male	2.5	48	8/10	pink	NL	157	46	98	NL- symetric	Healthy			
0	44	Male	3.8	24	10/10	pink	NL	134	54	98	NL- symetric	Healthy			
0	45	Male	2.4	48	10/10	pink	NL	122	39	98	NL- symetric	Healthy			
0	46	Female	2.9	6	9/10	pink	NL	145	55	98	NL- symetric	Healthy			
0	47	Male	3.2	24	9/10	pink	NL	152	55	98	NL- symetric	ill	small ASD	Three months later	

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0	48	Female	2.85	22	9/10	pink	NL	129	42	97	NL- symetric	Healthy			
0	49	Female	3.2	15	9/10	pink	NL	148	51	98	NL- symetric	ill		LVH	One week later diabet
0	50	Female	3.3	48	10/10	pink	NL	132	49	97	NL- symetric	Healthy			
0	51	Male	2	96	9/10	pink	NL	147	43	97	NL- symetric	ill		PDA/PFO	One week later
0	52	Male	3	18	9/10	pink	NL	155	45	99	NL- symetric	Healthy			
0	53	Male	2.5	24	8/10	pink	NL	151	54	98	NL- symetric	Healthy		NL	
0	54	Male	3.35	11	8/10	pink	NL	134	53	100	NL- symetric	Healthy			
0	55	Male	2.8	48	9/10	pink	NL	128	55	99	NL- symetric	ill		PFO	One week later
0	56	Female	2.9	12	8/10	pink	NL	144	45	98	NL- symetric	Healthy			
0	57	Male	1.55	14	9/10	pink	NL	154	60	98	NL- symetric	ill		small PDA	One week later
0	58	Female	2.2	12	8/10	acrocyanosis	NL	123	56	97	NL- symetric	Healthy			
0	59	Male	2.55	6	9/10	pink	murmur heard	156	61	97	bounding	ill		PDA/LVH/IHSS	One week later
0	60	Female	3	9	9/10	pink	NL	146	55	97	NL- symetric	Healthy			

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0	61	Male	3	24	8/10	pink	NL	137	58	98	NL- symetric	ill	mild LPA stenosis	One week later
0	62	Male	3.1	24	9/10	pink	NL	130	58	99	NL- symetric	Healthy		
0	63	Female	2.85	12	9/10	pink	NL	143	45	98	NL- symetric	Healthy		
0	64	Male	3.4	72	9/10	pink	NL	123	55	97	NL- symetric	ill	PFO/LVH	One week later
0	65	Male	3.15	48	8/10	pink	NL	158	46	98	NL- symetric	Healthy		
0	66	Male	3.6	72	9/10	pink	murmur heard	141	49	98	NL- symetric	ill	LVH	One week later
0	67	Female	3.1	14	10/10	pink	NL	152	55	97	NL- symetric	Healthy		
0	68	Female	2.9	24	9/10	pink	NL	148	52	94 --> 97	bounding	ill	small PDA	One week later
0	69	Female	3.3	12	8/10	pink	NL	154	43	97	NL- symetric	Healthy		
0	70	Male	2.8	12	8/10	pink	NL	144	54	96	NL- symetric	ill	COA	NICU
0	71	Male	3.5	24	9/10	pink	NL	157	46	99	NL- symetric	Healthy		
0	72	Male	3.8	10	8/10	pink	NL	136	49	98	NL- symetric	Healthy		
0	73	Male	3.3	14	9/10	pink	murmur heard	133	52	97	NL- symetric	ill	IHSS/IVS	One week later

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0	74	Male	3	34	10/10	pink	NL	145	56	99	NL- symetric	Healthy			
0	75	Male	3	7	9/10	pink	NL	156	54	98	NL- symetric	Healthy			
0	76	Female	3.4	24	9/10	pink	murmur heard	128	55	97	NL- symetric	ill	mild LVH/mild IHSS	One week later	
0	77	Female	3.55	8	10/10	pink	NL	148	53	98	NL- symetric	Healthy			
0	78	Male	3.75	24	8/10	pink	NL	157	58	99	NL- symetric	Healthy			
0	79	Male	3.2	12	10/10	pink	NL	141	45	97	NL- symetric	Healthy			
0	80	Female	3.7	5	9/10	pink	NL	140	53	99	NL- symetric	Healthy			
0	81	Female	3.05	24	8/10	pink	NL	133	55	98	NL- symetric	Healthy			
0	82	Male	3	24	9/10	pink	NL	156	45	99	NL- symetric	Healthy			
0	83	Male	2.2	24	8/10	pink	NL	157	44	97	NL- symetric	Healthy			
0	84	Female	2.1	24	9/10	pink	NL	145	43	97	NL- symetric	Healthy			
0	85	Male	3.55	12	9/10	pink	NL	144	49	97	NL- symetric	Healthy			
0	86	Male	3.75	12	8/10	pink	NL	134	43	98	NL- symetric	Healthy			

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0	87	Male	3.7	12	8/10	pink	NL	138	58	98	NL- symetric	Healthy
0	88	Male	4.7	24	8/10	pink	NL	143	45	98	NL- symetric	Healthy
0	89	Male	2.15	15	9/10	pink	NL	145	42	97	NL- symetric	Healthy
0	90	Male	3	6	10/10	pink	NL	142	46	97	NL- symetric	Healthy
0	91	Male	2.45	17	8/10	pink	NL	154	44	98	NL- symetric	Healthy
0	92	Male	2.15	17	9/10	pink	NL	137	55	99	NL- symetric	Healthy
0	93	Male	2.95	15	8/10	pink	NL	135	52	98	NL- symetric	Healthy
0	94	Male	3.1	17	9/10	pink	NL	129	43	99	NL- symetric	Healthy
0	95	Female	2.8	14	8/10	pink	NL	149	44	98	NL- symetric	Healthy
0	96	Male	3.1	12	8/10	pink	NL	137	43	98	NL- symetric	Healthy
0	97	Male	3.15	5	10/10	pink	NL	145	54	97	NL- symetric	Healthy
0	98	Female	2.2	12	9/10	pink	NL	155	53	96	NL- symetric	Healthy
0	99	Female	3.5	14	10/10	pink	NL	133	55	97	NL- symetric	Healthy



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0	100	Male	2.8	9	9/10	pink	NL	141	45	96-97	NL- symetric	Healthy
0	101	Male	3.4	12	9/10	pink	NL	143	43	99	NL- symetric	Healthy
0	102	Male	3.5	12	8/10	pink	NL	156	56	98	NL- symetric	Healthy
0	103	Female	3.3	10	9/10	pink	NL	153	42	99	NL- symetric	Healthy
0	104	Female	3.3	12	9/10	pink	NL	148	55	99	NL- symetric	Healthy
0	105	Female	2.7	15	8/10	pink	NL	152	53	98	NL- symetric	Healthy
0	106	Male	2.1	15	10/10	pink	NL	148	58	97	NL- symetric	Healthy
0	107	Male	2	15	10/10	pink	NL	154	55	97	NL- symetric	Healthy
0	108	Female	3.5	24	8/10	pink	NL	144	42	97	NL- symetric	Healthy
0	109	Female	3.85	24	10/10	pink	NL	127	46	98	NL- symetric	Healthy
0	110	Female	3.5	24	8/10	pink	NL	136	39	98	NL- symetric	Healthy
0	111	Male	3.85	4	9/10	pink	NL	144	55	99	NL- symetric	Healthy
0	112	Male	3.4	14	8/10	pink	NL	145	44	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	113	Male	3.7	24	10/10	pink	NL	133	43	99	NL- symetric	Healthy
0	114	Female	4.25	14	9/10	pink	NL	137	44	95	NL- symetric	Healthy
0	115	Female	3.5	6	10/10	pink	NL	145	46	95	NL- symetric	Healthy
0	116	Female	3.35	24	9/10	pink	NL	155	49	99	NL- symetric	Healthy
0	117	Female	2.9	14	9/10	pink	NL	145	55	100	NL- symetric	Healthy
0	118	Female	4	16	9/10	pink	NL	141	56	95	NL- symetric	Healthy
0	119	Female	2.8	18	9/10	pink	NL	143	54	95	NL- symetric	Healthy
0	120	Female	2.55	12	9/10	pink	NL	129	39	99	NL- symetric	Healthy
0	121	Female	3.2	24	8/10	pink	NL	153	44	98	NL- symetric	Healthy
0	122	Female	3.1	24	8/10	pink	NL	141	58	96	NL- symetric	Healthy
0	123	Male	3.1	24	9/10	pink	NL	152	45	99	NL- symetric	Healthy
0	124	Male	3.4	24	9/10	pink	NL	140	53	99	NL- symetric	Healthy
0	125	Male	3	24	9/10	pink	NL	154	55	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates' dataset**

0	126	Male	3.6	7	10/10	pink	NL	145	45	96	NL- symetric	Healthy
0	127	Male	3.5	24	8/10	pink	NL	128	44	96	NL- symetric	Healthy
0	128	Male	3	24	9/10	pink	NL	136	45	97	NL- symetric	Healthy
0	129	Male	3.15	48	9/10	pink	NL	133	43	97	NL- symetric	Healthy
0	130	Male	3.4	48	8/10	pink	NL	133	56	97	NL- symetric	Healthy
0	131	Male	4	2	9/10	pink	NL	156	42	96	NL- symetric	Healthy
0	132	Female	2.5	24	8/10	pink	NL	157	50	98	NL- symetric	Healthy
0	133	Female	2.8	48	10/10	pink	NL	145	53	99	NL- symetric	Healthy
0	134	Female	3.15	24	9/10	pink	NL	144	44	99	NL- symetric	Healthy
0	135	Female	3.2	24	9/10	pink	NL	134	55	99	NL- symetric	Healthy
0	136	Male	3.8	15	8/10	pink	NL	138	55	98	NL- symetric	Healthy
0	137	Female	3.4	14	8/10	pink	NL	143	46	98	NL- symetric	Healthy
0	138	Female	3.7	24	9/10	pink	NL	145	54	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	139	Male	3.9	27	9/10	pink	NL	142	39	97	NL- symetric	Healthy
0	140	Male	3.3	24	8/10	pink	NL	154	55	98	NL- symetric	Healthy
0	141	Female	2.66	17	9/10	pink	NL	137	55	99	NL- symetric	Healthy
0	142	Female	3.2	24	10/10	pink	NL	135	42	100	NL- symetric	Healthy
0	143	Male	3.75	24	9/10	pink	NL	129	51	98	NL- symetric	Healthy
0	144	Female	3.4	72	9/10	pink	NL	134	49	100	NL- symetric	Healthy
0	145	Female	3	25	10/10	pink	NL	133	43	99	NL- symetric	Healthy
0	146	Female	3.4	12	8/10	pink	NL	132	45	98	NL- symetric	Healthy
0	147	Male	3.3	24	9/10	pink	NL	156	54	99	NL- symetric	Healthy
0	148	Male	3	24	9/10	pink	NL	143	53	96	NL- symetric	Healthy
0	149	Male	2.1	24	8/10	pink	NL	148	55	97	NL- symetric	Healthy
0	150	Female	3.8	4	8/10	pink	NL	157	45	97	NL- symetric	Healthy
0	151	Male	3.2	12	9/10	pink	NL	141	60	97	NL- symetric	Healthy

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0	152	Male	3	24	9/10	pink	NL	140	56	98	NL- symetric	Healthy
0	153	Female	2.85	24	10/10	pink	NL	133	61	98	NL- symetric	Healthy
0	154	Male	3.5	24	9/10	pink	NL	156	55	99	NL- symetric	Healthy
0	155	Male	3.3	24	10/10	pink	NL	157	58	100	NL- symetric	Healthy
0	156	Female	3.7	48	10/10	pink	NL	145	58	100	NL- symetric	Healthy
0	157	Female	3.75	72	10/10	pink	NL	144	45	99	NL- symetric	Healthy
0	158	Female	3.15	24	9/10	pink	NL	149	55	98	NL- symetric	Healthy
0	159	Male	3.5	24	9/10	pink	NL	150	46	98	NL- symetric	Healthy
0	160	Male	2.8	72	9/10	pink	NL	148	49	99	NL- symetric	Healthy
0	161	Male	3.6	24	8/10	pink	NL	141	55	98	NL- symetric	Healthy
0	162	Female	4.1	48	9/10	pink	NL	130	52	99	NL- symetric	Healthy
0	163	Female	3.7	24	8/10	pink	NL	145	43	98	NL- symetric	Healthy
0	164	Female	3	24	9/10	pink	NL	134	54	98	NL- symetric	Healthy

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0 165	Male	3.4	72	10/10	pink	NL	156	46	97	NL- symetric	Healthy
0 166	Female	3.6	15	8/10	pink	NL	145	49	97	NL- symetric	Healthy
0 167	Male	24h	24	9/10	pink	NL	156	52	97	NL- symetric	Healthy
0 168	Female	3.6	48	10/10	pink	NL	134	56	96	NL- symetric	Healthy
0 169	Female	3	8	9/10	pink	NL	145	54	97	NL- symetric	Healthy
0 170	Male	3	12	9/10	pink	NL	146	55	97	NL- symetric	Healthy
0 171	Male	3.8	48	9/10	pink	NL	147	53	98	NL- symetric	Healthy
0 172	Female	2.8	24	10/10	pink	NL	156	58	99	NL- symetric	Healthy
0 173	Male	3.15	24	9/10	pink	NL	154	45	99	NL- symetric	Healthy
0 174	Male	3	5	9/10	pink	NL	154	53	98	NL- symetric	Healthy
0 175	Male	3.2	24	10/10	pink	NL	150	55	99	NL- symetric	Healthy
0 176	Male	2.9	24	10/10	pink	NL	152	45	99	NL- symetric	Healthy
0 177	Female	3.1	48	8/10	pink	NL	138	44	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates' dataset**

0	178	Male	4.3	24	9/10	pink	NL	145	43	98	NL- symetric	Healthy
0	179	Female	2.8	72	9/10	pink	NL	148	49	98	NL- symetric	Healthy
0	180	Female	2.8	24	9/10	pink	NL	139	54	97	NL- symetric	Healthy
0	181	Male	3.5	48	8/10	pink	NL	137	45	97	NL- symetric	Healthy
0	182	Male	3.3	24	10/10	pink	NL	154	60	97	NL- symetric	Healthy
0	183	Female	3.1	72	8/10	pink	NL	151	56	98	NL- symetric	Healthy
0	184	Female	2.2	13	8/10	pink	NL	138	44	98	NL- symetric	Healthy
0	185	Female	3.1	72	9/10	pink	NL	145	55	99	NL- symetric	Healthy
0	186	Female	3.18	1	9/10	pink	NL	148	58	99	NL- symetric	Healthy
0	187	Male	2.85	72	8/10	pink	NL	139	58	98	NL- symetric	Healthy
0	188	Male	3	24	10/10	pink	NL	137	45	98	NL- symetric	Healthy
0	189	Male	2.75	48	9/10	pink	NL	154	44	98	NL- symetric	Healthy
0	190	Male	2.8	24	9/10	pink	NL	151	46	98	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0	191	Male	3	24	9/10	pink	NL	144	49	97	NL- symetric	Healthy
0	192	Male	3	96	9/10	pink	NL	149	55	97	NL- symetric	Healthy
0	193	Male	2.85	48	8/10	pink	NL	137	43	97	NL- symetric	Healthy
0	194	Female	3.45	48	8/10	pink	NL	145	43	98	NL- symetric	Healthy
0	195	Male	3.1	72	9/10	pink	NL	155	42	97	NL- symetric	Healthy
0	196	Male	3	48	9/10	pink	NL	133	55	97	NL- symetric	Healthy
0	197	Female	3	48	9/10	pink	NL	141	53	98	NL- symetric	Healthy
0	198	Male	3.4	24	8/10	pink	NL	143	52	98	NL- symetric	Healthy
0	199	Female	2.65	24	9/10	pink	NL	156	54	99	NL- symetric	Healthy
0	200	Male	2.7	4	9/10	pink	NL	153	39	99	NL- symetric	Healthy
0	201	Male	2.7	24	8/10	pink	NL	141	44	98	NL- symetric	Healthy
0	202	Male	2.45	24	9/10	pink	NL	152	42	99	NL- symetric	Healthy
0	203	Female	3.75	24	9/10	pink	NL	148	53	99	NL- symetric	Healthy



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**Data extracted from the 840 neonates’ dataset**

0	204	Female	3	1	10/10	pink	NL	154	51	98	NL- symetric	Healthy
0	205	Male	1.95	24	9/10	pink	NL	135	50	99	NL- symetric	Healthy
0	206	Female	2.75	24	9/10	pink	NL	157	40	99	NL- symetric	Healthy
0	207	Male	3	24	8/10	pink	NL	139	42	98	NL- symetric	Healthy
0	208	Female	2.3	24	9/10	pink	NL	133	52	98	NL- symetric	Healthy
0	209	Female	3.2	24	9/10	pink	NL	132	43	97	NL- symetric	Healthy
0	210	Male	3.1	24	10/10	pink	NL	156	46	99	NL- symetric	Healthy
0	211	Female	3.25	24	10/10	pink	NL	143	54	99	NL- symetric	Healthy
0	212	Female	3.3	24	10/10	pink	NL	148	38	98	NL- symetric	Healthy
0	213	Female	2.5	24	8/10	pink	NL	157	45	98	NL- symetric	Healthy
0	214	Male	3.15	24	9/10	pink	NL	141	55	97	NL- symetric	Healthy
0	215	Female	3.9	24	9/10	pink	NL	140	43	98	NL- symetric	Healthy
0	216	Female	2.7	24	10/10	pink	NL	133	49	97	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0	217	Male	3.8	192	10/10	pink	NL	156	44	98	NL- symetric	Healthy
0	218	Female	3.8	72	9/10	pink	NL	157	45	98	NL- symetric	Healthy
0	219	Male	3.2	24	8/10	pink	NL	145	45	97	NL- symetric	Healthy
0	220	Male	3.5	4	8/10	pink	NL	144	56	97	NL- symetric	Healthy
0	221	Male	2.9	24	9/10	pink	NL	149	55	99	NL- symetric	Healthy
0	222	Female	3.2	24	9/10	pink	NL	150	55	99	NL- symetric	Healthy
0	223	Female	2.4	24	9/10	pink	NL	148	58	100	NL- symetric	Healthy
0	224	Female	3.6	24	8/10	pink	NL	141	60	99	NL- symetric	Healthy
0	225	Female	2.7	24	9/10	pink	NL	130	45	98	NL- symetric	Healthy
0	226	Female	3.5	24	9/10	pink	NL	145	44	98	NL- symetric	Healthy
0	227	Male	2.5	24	9/10	pink	NL	134	54	98	NL- symetric	Healthy
0	228	Female	2.5	24	10/10	pink	NL	156	49	98	NL- symetric	Healthy
0	229	Male	3.5	24	8/10	pink	NL	145	44	97	NL- symetric	Healthy

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Data extracted from the 840 neonates' dataset

0	230	Male	3.35	24	8/10	pink	NL	156	56	97	NL- symetric	Healthy
0	231	Female	3	8	9/10	pink	NL	134	43	97	NL- symetric	Healthy
0	232	Male	4.35	24	9/10	pink	NL	145	42	99	NL- symetric	Healthy
0	233	Female	3.5	12	9/10	pink	NL	146	44	99	NL- symetric	Healthy
0	234	Male	3.3	24	9/10	pink	NL	147	53	99	NL- symetric	Healthy
0	235	Male	4.2	17	8/10	pink	NL	156	52	98	NL- symetric	Healthy
0	236	Female	2	24	9/10	pink	NL	154	55	98	NL- symetric	Healthy
0	237	Male	3.65	24	10/10	pink	NL	154	39	98	NL- symetric	Healthy
0	238	Female	3.35	24	8/10	pink	NL	150	55	97	NL- symetric	Healthy
0	239	Male	4.3	13	8/10	pink	NL	152	42	98	NL- symetric	Healthy
0	240	Female	3.45	24	9/10	pink	NL	138	53	99	NL- symetric	Healthy
0	241	Female	2.85	15	9/10	pink	NL	145	51	99	NL- symetric	Healthy
0	242	Male	2.65	14	8/10	pink	NL	148	43	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	243	Male	3.3	15	8/10	pink	NL	139	40	98	NL- symetric	Healthy
0	244	Male	2.7	48	10/10	pink	NL	137	51	98	NL- symetric	Healthy
0	245	Female	3.8	48	9/10	pink	NL	154	41	97	NL- symetric	Healthy
0	246	Female	2.65	48	10/10	pink	NL	151	43	97	NL- symetric	Healthy
0	247	Female	2.9	48	10/10	pink	NL	138	46	97	NL- symetric	Healthy
0	248	Male	3.45	48	8/10	pink	NL	145	55	98	NL- symetric	Healthy
0	249	Male	2.3	48	9/10	pink	NL	148	58	96	NL- symetric	Healthy
0	250	Male	3.2	24	8/10	pink	NL	139	45	98	NL- symetric	Healthy
0	251	Female	2.5	16	8/10	pink	NL	137	55	98	NL- symetric	Healthy
0	252	Female	2.8	15	10/10	pink	NL	154	44	99	NL- symetric	Healthy
0	253	Male	3.35	15	10/10	pink	NL	151	45	97	NL- symetric	Healthy
0	254	Female	3	16	9/10	pink	NL	138	44	97	NL- symetric	Healthy
0	255	Female	2.5	12	8/10	pink	NL	124	43	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	256	Male	2.45	12	8/10	pink	NL	145	49	98	NL- symetric	Healthy
0	257	Female	3.1	36	8/10	pink	NL	148	54	98	NL- symetric	Healthy
0	258	Female	2.65	20	9/10	pink	NL	145	45	99	NL- symetric	Healthy
0	259	Female	2.9	24	10/10	pink	NL	137	57	99	NL- symetric	Healthy
0	260	Female	2.9	24	8/10	pink	NL	133	56	98	NL- symetric	Healthy
0	261	Female	2.95	14	9/10	pink	NL	151	46	97	NL- symetric	Healthy
0	262	Female	3.6	18	9/10	pink	NL	144	55	97	NL- symetric	Healthy
	263	Male	3.27	48	8/10	pink	NL	149	58	98	NL- symetric	Healthy
0	264	Male	3.2	4	8/10	pink	NL	137	58	98	NL- symetric	Healthy
0	265	Male	3.6	48	9/10	pink	NL	145	59	99	NL- symetric	Healthy
0	266	Female	3.4	12	9/10	pink	NL	126	44	96	NL- symetric	Healthy
0	267	Male	3.35	24	8/10	pink	NL	133	46	97	NL- symetric	Healthy
0	268	Female	3.45	9	9/10	pink	NL	141	49	97	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0	269	Female	3.32	24	9/10	pink	NL	143	49	97	NL- symetric	Healthy
0	270	Male	3.35	19	8/10	pink	NL	134	43	98	NL- symetric	Healthy
0	271	Male	2.7	18	9/10	pink	NL	153	43	98	NL- symetric	Healthy
0	272	Female	2.8	18	8/10	pink	NL	141	41	98	NL- symetric	Healthy
0	273	Male	3.1	48	9/10	pink	NL	152	55	95	NL- symetric	Healthy
0	274	Female	4.7	12	10/10	pink	NL	148	49	97	NL- symetric	Healthy
0	275	Male	3.35	15	8/10	pink	NL	154	52	97	NL- symetric	Healthy
0	276	Male	2.9	15	10/10	pink	NL	161	40	95	NL- symetric	Healthy
0	277	Female	2.85	15	9/10	pink	NL	138	39	91-->97	NL- symetric	Healthy
0	278	Male	3.3	18	9/10	pink	NL	139	54	99	NL- symetric	Healthy
0	279	Female	2.8	18	8/10	pink	NL	128	42	98	NL- symetric	Healthy
0	280	Male	3.1	20	9/10	pink	NL	149	53	99	NL- symetric	Healthy
0	281	Male	4.6	48	8/10	pink	NL	128	51	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 282	Male	3.2	24	10/10	pink	NL	137	44	97	NL- symetric	Healthy
0 283	Female	3.7	24	9/10	pink	NL	129	40	94-->97	NL- symetric	Healthy
0 284	Male	3.7	48	9/10	pink	NL	147	42	99	NL- symetric	Healthy
0 285	Female	3.22	24	10/10	pink	NL	133	52	98	NL- symetric	Healthy
0 286	Male	3.4	9	8/10	pink	NL	136	43	97	NL- symetric	Healthy
0 287	Female	3.1	9	10/10	pink	NL	145	46	99	NL- symetric	Healthy
0 288	Male	3.13	18	9/10	pink	NL	142	54	96	NL- symetric	Healthy
0 289	Female	3.8	18	9/10	pink	NL	131	45	97	NL- symetric	Healthy
0 290	Female	3	4	8/10	pink	NL	143	45	97	NL- symetric	Healthy
0 291	Female	2.9	10	9/10	pink	NL	146	55	98	NL- symetric	Healthy
0 292	Female	3	48	9/10	pink	NL	132	45	98	NL- symetric	Healthy
0 293	Male	3.3	4	10/10	pink	NL	126	49	97	NL- symetric	Healthy
0 294	Female	3.8	7	10/10	pink	NL	133	56	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	295	Male	3.13	24	9/10	pink	NL	138	45	99	NL- symetric	Healthy
0	296	Female	3	5	9/10	pink	NL	144	45	100	NL- symetric	Healthy
0	297	Female	3.4	16	10/10	pink	NL	149	56	99	NL- symetric	Healthy
0	298	Female	3.3	15	10/10	pink	NL	146	56	98	NL- symetric	Healthy
0	299	Female	3.15	16	8/10	pink	NL	136	55	98	NL- symetric	Healthy
0	300	Female	2.73	24	9/10	pink	NL	133	46	99	NL- symetric	Healthy
0	301	Male	3.85	15	9/10	pink	NL	130	57	96	NL- symetric	Healthy
0	302	Female	2.9	14	10/10	pink	NL	151	44	97	NL- symetric	Healthy
0	303	Male	3.4	24	9/10	pink	NL	132	45	97	NL- symetric	Healthy
0	304	Female	2.8	24	8/10	pink	NL	125	54	97	NL- symetric	Healthy
0	305	Male	3.5	12	9/10	pink	NL	138	53	96	NL- symetric	Healthy
0	306	Female	3.3	15	9/10	pink	NL	147	42	99	NL- symetric	Healthy
0	307	Female	2.7	24	8/10	pink	NL	143	41	95	NL- symetric	Healthy



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**Data extracted from the 840 neonates’ dataset**

0	308	Female	2.55	16	9/10	pink	NL	134	51	96	NL- symetric	Healthy
0	309	Female	2.5	16	10/10	pink	NL	137	40	96	NL- symetric	Healthy
0	310	Male	3.1	20	10/10	pink	NL	147	53	97	NL- symetric	Healthy
0	311	Male	2.74	15	9/10	pink	NL	145	54	99	NL- symetric	Healthy
0	312	Male	2.22	24	8/10	pink	NL	155	56	97	NL- symetric	Healthy
0	313	Female	3.3	14	9/10	pink	NL	133	45	98	NL- symetric	Healthy
0	314	Female	3.15	12	9/10	pink	NL	141	47	99	NL- symetric	Healthy
0	315	Female	4	8	9/10	pink	NL	143	49	98	NL- symetric	Healthy
0	316	Male	3.4	24	8/10	pink	NL	156	50	98	NL- symetric	Healthy
0	317	Female	3	24	9/10	pink	NL	124	44	98	NL- symetric	Healthy
0	318	Female	2.85	14	8/10	pink	NL	141	43	97	NL- symetric	Healthy
0	319	Male	4.1	8	8/10	pink	NL	152	52	97	NL- symetric	Healthy
0	320	Female	2.75	24	10/10	pink	NL	148	51	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	321	Female	3.6	14	9/10	pink	NL	154	44	97	NL- symetric	Healthy			
0	322	Female	2.25	18	9/10	pink	NL	161	55	96	NL- symetric	Healthy			
0	323	Male	3.25	10	10/10	pink	NL	134	38	97	NL- symetric	Healthy			
0	324	Female	3	12	9/10	pink	NL	139	42	97	NL- symetric	Healthy			
0	325	Female	3.5	20	9/10	pink	NL	133	51	97	NL- symetric	Healthy			
0	326	Male	3.4	16	9/10	pink	NL	132	46	98	NL- symetric	Healthy			
0	327	Female	3.25	18	9/10	pink	NL	156	52	96	NL- symetric	Healthy			
	328	Female	3.4	10	8/10	pink	NL	143	55	97	NL- symetric	Healthy			
0	329	Male	3	4	9/10	pink	NL	148	44	99	NL- symetric	Healthy			
0	330	Male	3	8	9/10	pink	NL	157	43	99	NL- symetric	Healthy			
0	331	Female	2.6	24	10/10	pink	NL	134	47	98	NL- symetric	Healthy			
0	332	Male	2.55	24	9/10	pink	NL	129	46	98	NL- symetric	ill	PFO/mild IHSS	One week later	
0	333	Male	3.9	24	10/10	pink	NL	129	49	97	NL- symetric	Healthy			

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Data extracted from the 840 neonates’ dataset

0	334	Female	2.9	14	9/10	pink	NL	152	39	99	NL- symetric	Healthy
0	335	Male	2.85	24	10/10	pink	NL	129	51	99	NL- symetric	Healthy
0	336	Male	2.85	9	9/10	pink	NL	148	43	99	NL- symetric	Healthy
0	337	Female	3.7	24	9/10	pink	NL	132	52	97	NL- symetric	Healthy
0	338	Female	3.8	16	9/10	pink	NL	130	41	97	NL- symetric	Healthy
0	339	Male	3.8	5	9/10	pink	NL	155	40	98	NL- symetric	Healthy
0	340	Female	2	24	8/10	pink	NL	148	50	98	NL- symetric	Healthy
0	341	Female	3.1	20	9/10	pink	NL	157	52	99	NL- symetric	Healthy
0	342	Male	2.8	20	9/10	pink	NL	132	54	98	NL- symetric	Healthy
0	343	Male	3.8	13	9/10	pink	NL	140	53	99	NL- symetric	Healthy
0	344	Male	3	18	9/10	pink	NL	133	44	100	NL- symetric	Healthy
0	345	Female	2.75	10	10/10	pink	NL	156	42	97	NL- symetric	Healthy
0	346	Female	3.4	12	8/10	pink	NL	157	43	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	347	Female	3	48	10/10	pink	NL	145	48	98	NL- symetric	Healthy
0	348	Female	3.5	48	8/10	pink	NL	144	57	94--> 97	NL- symetric	Healthy
0	349	Male	3.9	48	9/10	pink	NL	149	46	99	NL- symetric	Healthy
0	350	Female	3.5	24	8/10	pink	NL	150	45	98	NL- symetric	Healthy
0	351	Female	3.1	24	8/10	pink	NL	148	48	98	NL- symetric	Healthy
0	352	Female	3.35	7	9/10	pink	NL	141	49	97	NL- symetric	Healthy
0	353	Male	2.7	48	8/10	pink	NL	130	56	97	NL- symetric	Healthy
0	354	Male	2.95	48	9/10	pink	NL	145	54	98	NL- symetric	Healthy
0	355	Male	3.3	48	9/10	pink	NL	134	47	96	NL- symetric	Healthy
0	356	Female	2.8	48	9/10	pink	NL	156	44	96	NL- symetric	Healthy
0	357	Male	2.9	48	8/10	pink	NL	145	42	98	NL- symetric	Healthy
0	358	Male	2.8	48	9/10	pink	NL	156	43	99	NL- symetric	Healthy
0	359	Male	3.5	24	9/10	pink	NL	134	51	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates' dataset**

0	360	Male	2.4	48	8/10	pink	NL	145	43	98	NL- symetric	Healthy
0	361	Male	3	48	9/10	pink	NL	138	41	96	NL- symetric	Healthy
0	362	Female	2.9	48	9/10	pink	NL	146	42	99	NL- symetric	Healthy
0	363	Female	3.4	24	9/10	pink	NL	138	44	96	NL- symetric	Healthy
0	364	Female	3	24	9/10	pink	NL	154	46	99	NL- symetric	Healthy
0	365	Male	2.8	24	9/10	pink	NL	154	54	96	NL- symetric	Healthy
0	366	Male	4.55	48	9/10	pink	NL	150	44	97	NL- symetric	Healthy
0	367	Female	4.2	24	9/10	pink	NL	152	45	99	NL- symetric	Healthy
0	368	Male	2.2	24	8/10	pink	NL	145	52	96	NL- symetric	Healthy
0	369	Male	3.2	5	10/10	pink	NL	145	44	96	NL- symetric	Healthy
0	370	Male	2.75	48	9/10	pink	NL	148	49	99	NL- symetric	Healthy
0	371	Female	2.8	48	10/10	pink	NL	139	50	97	NL- symetric	Healthy
0	372	Male	3.5	16	8/10	pink	NL	137	43	96	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 373	Female	3.15	4	8/10	pink	NL	154	43	97	NL- symetric	ill	PFO/mild TR	One week later
0 374	Female	2.6	4	10/10	pink	NL	132	52	98	NL- symetric	Healthy		
0 375	Male	3.6	48	9/10	pink	NL	130	55	96	NL- symetric	Healthy		
0 376	Female	3.8	24	9/10	pink	NL	145	44	98	NL- symetric	Healthy		
0 377	Male	3.7	20	8/10	pink	NL	148	55	99	NL- symetric	Healthy		
0 378	Female	2.5	24	9/10	pink	NL	139	43	98	NL- symetric	Healthy		
0 379	Female	2.7	18	9/10	pink	NL	137	42	96	NL- symetric	Healthy		
0 380	Male	4	24	9/10	pink	NL	154	38	99	NL- symetric	Healthy		
0 381	Male	2.65	24	8/10	pink	NL	150	46	98	NL- symetric	Healthy		
0 382	Female	2.9	24	10/10	pink	NL	144	52	98	NL- symetric	Healthy		
0 383	Female	3.69	48	9/10	pink	NL	149	55	97	NL- symetric	Healthy		
0 384	Female	2.85	16	8/10	pink	NL	137	54	96	NL- symetric	Healthy		
0 385	Male	3	15	9/10	pink	NL	145	43	97	NL- symetric	Healthy		

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**Data extracted from the 840 neonates' dataset**

0	386	Male	1.3	10	9/10	pink	NL	155	47	98	NL- symetric	Healthy			
0	387	Female	3.15	40	9/10	pink	NL	133	44	97	NL- symetric	Healthy			
0	388	Male	1.6	168	9/10	pink	NL	141	49	99	NL- symetric	ill	Small ASD	Three months later	
0	389	Male	2.1	48	9/10	pink	NL	143	39	98	NL- symetric	ill	mild TR	One week later	breech
0	390	Male	1.25	48	9/10	pink	NL	156	44	97	NL- symetric	Healthy			
0	391	Female	2.6	48	8/10	pink	NL	153	43	99	NL- symetric	ill	small ASD	Three months later	
0	392	Male	3.45	24	8/10	pink	NL	141	34	98	NL- symetric	ill	mild LPA stenosis	One week later	
0	393	Male	3.7	72	9/10	pink	NL	152	54	97	NL- symetric	Healthy			
0	394	Female	3.65	48	9/10	pink	NL	148	54	97	NL- symetric	Healthy			
0	395	Male	3.5	48	9/10	pink	NL	154	53	99	NL- symetric	Healthy			
0	396	Male	3.6	48	9/10	pink	NL	140	44	97	NL- symetric	Healthy			
0	397	Male	3.3	24	9/10	pink	NL	157	45	98	NL- symetric	Healthy			
0	398	Female	2.7	24	9/10	pink	NL	139	44	99	NL- symetric	Healthy			

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**Data extracted from the 840 neonates’ dataset**

0	399	Male	2.4	42	8/10	pink	NL	133	56	98	NL- symetric	Healthy
0	400	Male	3.4	24	10/10	pink	NL	132	42	97	NL- symetric	Healthy
0	401	Male	3.35	48	9/10	pink	NL	156	55	97	NL- symetric	Healthy
0	402	Female	2.5	48	9/10	pink	NL	143	53	98	NL- symetric	Healthy
0	403	Male	3	48	8/10	pink	NL	130	55	96	NL- symetric	Healthy
0	404	Female	2.1	48	9/10	pink	NL	157	45	97	NL- symetric	Healthy
0	405	Male	2.4	48	10/10	pink	NL	141	42	97	NL- symetric	Healthy
0	406	Male	3.2	24	10/10	pink	NL	140	46	98	NL- symetric	Healthy
0	407	Male	3.15	48	9/10	pink	NL	133	39	98	NL- symetric	Healthy
0	408	Female	2.5	24	10/10	pink	NL	156	53	97	NL- symetric	Healthy
0	409	Female	3.15	24	9/10	pink	NL	148	52	97	NL- symetric	Healthy
0	410	Female	3	24	9/10	pink	NL	145	43	98	NL- symetric	Healthy
0	411	Female	3.78	24	9/10	pink	NL	144	44	98	NL- symetric	Healthy



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**Data extracted from the 840 neonates’ dataset**

0	412	Male	3.2	12	10/10	pink	NL	149	46	97	NL- symetric	Healthy
0	413	Female	2.6	24	9/10	pink	NL	152	44	98	NL- symetric	Healthy
0	414	Female	3.1	12	9/10	pink	NL	148	40	98	NL- symetric	Healthy
0	415	Male	2.8	48	8/10	pink	NL	141	56	99	NL- symetric	Healthy
0	416	Male	3.45	24	9/10	pink	NL	130	46	99	NL- symetric	Healthy
0	417	Male	2.6	48	9/10	pink	NL	145	55	98	NL- symetric	Healthy
0	418	Female	3.65	48	9/10	pink	NL	134	53	99	NL- symetric	Healthy
0	419	Female	2.9	24	9/10	pink	NL	156	58	97	NL- symetric	Healthy
0	420	Male	3.55	48	8/10	pink	NL	145	45	97	NL- symetric	Healthy
0	421	Male	3	12	10/10	pink	NL	156	53	98	NL- symetric	Healthy
0	422	Male	3.5	20	9/10	pink	NL	143	55	99	NL- symetric	Healthy
0	423	Male	3.2	10	9/10	pink	NL	145	45	97	NL- symetric	Healthy
0	424	Female	2.8	24	9/10	pink	NL	146	44	97	NL- symetric	Healthy

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Data extracted from the 840 neonates' dataset

0 425	Male	3.8	24	9/10	pink	NL	147	43	98	NL- symetric	Healthy
0 426	Female	3.3	24	8/10	pink	NL	156	43	97	NL- symetric	Healthy
0 427	Male	2.85	72	10/10	pink	NL	154	56	98	NL- symetric	Healthy
0 428	Male	3.98	24	9/10	pink	NL	139	54	98	NL- symetric	Healthy
0 429	Female	3	24	9/10	pink	NL	154	50	96	NL- symetric	Healthy
0 430	Male	2.6	48	9/10	pink	NL	154	53	99	NL- symetric	Healthy
0 431	Male	3.1	24	9/10	pink	NL	150	55	98	NL- symetric	Healthy
0 432	Male	2.8	48	9/10	pink	NL	135	44	99	NL- symetric	Healthy
0 433	Female	3.25	15	10/10	pink	NL	145	55	97	NL- symetric	Healthy
0 434	Female	3.7	4	9/10	pink	NL	145	46	98	NL- symetric	Healthy
0 435	Female	2.6	24	8/10	pink	NL	148	54	99	NL- symetric	Healthy
0 436	Female	3.3	24	9/10	pink	NL	139	39	100	NL- symetric	Healthy
0 437	Female	2.8	48	8/10	pink	NL	137	43	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 438	Female	3.5	18	9/10	acrocyanosis	NL	146	55	97	NL- symetric	Healthy
0 439	Male	2.7	14	9/10	pink	NL	134	42	98	NL- symetric	Healthy
0 440	Female	3.51	24	9/10	pink	NL	138	48	98	NL- symetric	Healthy
0 441	Male	3	48	8/10	pink	NL	154	49	99	NL- symetric	Healthy
0 442	Male	3.25	48	10/10	pink	NL	144	46	97	NL- symetric	Healthy
0 443	Female	3.3	12	9/10	pink	NL	158	45	99	NL- symetric	Healthy
0 444	Female	3.1	48	8/10	pink	NL	145	54	97	NL- symetric	Healthy
0 445	Male	3.6	48	9/10	pink	NL	132	53	98	NL- symetric	Healthy
0 446	Female	2	24	8/10	pink	NL	126	47	98	NL- symetric	Healthy
0 447	Male	3.35	2	9/10	pink	NL	133	45	98	NL- symetric	Healthy
0 448	Male	3.3	12	9/10	pink	NL	138	60	97	NL- symetric	Healthy
0 449	Male	3.35	6	9/10	pink	NL	144	56	97	NL- symetric	Healthy
0 450	Male	3.3	14	9/10	pink	NL	126	59	99	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	451	Female	3.3	4	9/10	pink	NL	145	55	98	NL- symetric	Healthy
0	452	Female	2.8	9	10/10	pink	NL	136	58	98	NL- symetric	Healthy
0	453	Male	3	18	8/10	pink	NL	133	58	97	NL- symetric	Healthy
0	454	Female	3	15	9/10	pink	NL	135	60	97	NL- symetric	Healthy
0	455	Male	2.7	15	9/10	pink	NL	151	55	98	NL- symetric	Healthy
0	456	Female	3.05	10	9/10	pink	NL	132	46	99	NL- symetric	Healthy
0	457	Female	2.9	12	9/10	pink	NL	135	49	98	NL- symetric	Healthy
0	458	Male	2.5	15	10/10	pink	NL	128	55	98	NL- symetric	Healthy
0	459	Female	2.65	20	9/10	pink	NL	147	61	98	NL- symetric	Healthy
0	460	Female	3.8	29	9/10	pink	NL	143	43	98	NL- symetric	Healthy
0	461	Female	2.45	24	9/10	pink	NL	134	54	99	NL- symetric	Healthy
0	462	Male	3.7	24	8/10	pink	NL	137	46	98	NL- symetric	Healthy
0	463	Male	3	10	9/10	pink	NL	147	49	98	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0 464	Male	3.5	12	8/10	pink	NL	125	52	99	NL- symetric	Healthy
0 465	Male	2.3	24	9/10	pink	NL	151	55	99	NL- symetric	Healthy
0 466	Female	3.3	10	9/10	pink	NL	142	54	97	NL- symetric	Healthy
0 467	Female	2.6	12	9/10	pink	NL	152	55	97	NL- symetric	Healthy
0 468	Female	3.46	15	9/10	pink	NL	129	53	98	NL- symetric	Healthy
0 469	Male	2.7	48	9/10	pink	NL	148	58	98	NL- symetric	Healthy
0 470	Female	3.35	24	8/10	pink	NL	132	45	97	NL- symetric	Healthy
0 471	Male	3.1	15	9/10	pink	NL	130	53	97	NL- symetric	Healthy
0 472	Male	3.9	10	10/10	pink	NL	155	44	96	NL- symetric	Healthy
0 473	Female	2.92	24	9/10	pink	NL	142	45	99	NL- symetric	Healthy
0 474	Male	3.2	24	9/10	pink	NL	157	44	98	NL- symetric	Healthy
0 475	Male	3	12	9/10	pink	NL	132	43	98	NL- symetric	Healthy
0 476	Female	2.7	20	10/10	pink	NL	140	49	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 477	Female	4.1	12	10/10	pink	NL	133	43	99	NL- symetric	Healthy
0 478	Female	2.6	20	9/10	pink	NL	144	58	97	NL- symetric	Healthy
0 479	Female	2.95	48	9/10	pink	NL	145	45	97	NL- symetric	Healthy
0 480	Female	2.85	10	9/10	pink	NL	134	40	97	NL- symetric	Healthy
0 481	Male	2.7	12	9/10	pink	NL	156	46	100	NL- symetric	Healthy
0 482	Male	3.85	18	9/10	pink	NL	133	44	98	NL- symetric	Healthy
0 483	Male	3.8	18	9/10	pink	NL	156	55	97	NL- symetric	Healthy
0 484	Male	3.7	48	9/10	pink	NL	134	52	97	NL- symetric	Healthy
0 485	Male	4.15	5	8/10	pink	NL	145	43	98	NL- symetric	Healthy
0 486	Male	3.2	14	9/10	pink	NL	146	44	97	NL- symetric	Healthy
0 487	Female	4.25	24	9/10	pink	NL	147	43	99	NL- symetric	Healthy
0 488	Male	2.9	48	9/10	pink	NL	156	39	97	NL- symetric	Healthy
0 489	Female	2.9	10	9/10	pink	NL	138	55	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 490	Male	3	14	9/10	pink	NL	154	43	99	NL- symetric	Healthy
0 491	Male	3.5	72	8/10	pink	NL	148	49	98	NL- symetric	Healthy
0 492	Female	3.2	24	9/10	pink	NL	153	39	98	NL- symetric	Healthy
0 493	Male	2.65	24	9/10	pink	NL	138	51	97	NL- symetric	Healthy
0 494	Female	2.3	72	8/10	pink	NL	145	42	97	NL- symetric	Healthy
0 495	Female	2.4	72	8/10	pink	NL	156	52	99	NL- symetric	Healthy
0 496	Female	2	48	10/10	pink	NL	138	41	97	NL- symetric	Healthy
0 497	Male	2.9	12	10/10	pink	NL	129	40	98	NL- symetric	Healthy
0 498	Male	3.7	48	9/10	pink	NL	143	50	98	NL- symetric	Healthy
0 499	Male	2.4	24	10/10	pink	NL	151	52	98	NL- symetric	Healthy
0 500	Male	3.4	24	9/10	pink	NL	132	41	98	NL- symetric	Healthy
0 501	Male	3.5	48	8/10	pink	NL	134	53	97	NL- symetric	Healthy
0 502	Female	3	72	9/10	pink	NL	138	44	99	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 503	Male	2.6	48	10/10	pink	NL	145	42	97	NL- symetric	Healthy			
0 504	Male	3	72	10/10	pink	NL	149	43	97	NL- symetric	Healthy			
0 505	Male	3.05	48	10/10	pink	NL	129	48	98	NL- symetric	Healthy			
0 506	Male	2.6	48	9/10	pink	NL	151	57	99	NL- symetric	Healthy			
0 507	Female	2.8	48	9/10	pink	NL	139	44	99	NL- symetric	Healthy			
0 508	Female	2.7	48	8/10	pink	NL	144	45	98	NL- symetric	Healthy			
0 509	Male	3.5	48	10/10	pink	NL	144	48	98	NL- symetric	Healthy			
0 510	Female	3.5	48	9/10	pink	NL	149	49	98	NL- symetric	Healthy			
0 511	Male	3.4	18	9/10	pink	NL	137	56	98	NL- symetric	ill	PFO/mild TR	One week later	
0 512	Female	2.9	24	9/10	pink	NL	145	47	99	NL- symetric	Healthy			
0 513	Female	2.65	24	9/10	pink	NL	138	45	98	NL- symetric	Healthy			
0 514	Female	2.8	48	10/10	pink	NL	133	54	97	NL- symetric	Healthy			
0 515	Female	3.3	48	9/10	pink	NL	141	54	99	NL- symetric	Healthy			



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**Data extracted from the 840 neonates' dataset**

0	516	Female	3.3	72	8/10	pink	NL	143	43	99	NL- symetric	Healthy
0	517	Female	4.3	24	9/10	pink	NL	156	50	97	NL- symetric	Healthy
0	518	Female	3.4	24	9/10	pink	NL	153	42	97	NL- symetric	Healthy
0	519	Male	2.15	48	9/10	pink	NL	143	40	97	NL- symetric	Healthy
0	520	Male	3.35	48	9/10	pink	NL	152	41	98	NL- symetric	Healthy
0	521	Male	4.4	8	9/10	pink	NL	148	44	98	NL- symetric	Healthy
0	522	Female	3.1	24	8/10	pink	NL	154	41	97	NL- symetric	Healthy
0	523	Female	2.9	24	9/10	pink	NL	161	55	96	NL- symetric	Healthy
	524	Female	3.2	24	9/10	pink	NL	157	40	96	NL- symetric	Healthy
	525	Female	2.9	48	10/10	pink	NL	139	53	97	NL- symetric	Healthy
	526	Female	3.2	24	9/10	pink	NL	133	54	98	NL- symetric	Healthy
	527	Female	2.95	72	9/10	pink	NL	132	50	97	NL- symetric	Healthy
	528	Male	3.75	24	9/10	pink	NL	156	45	97	NL- symetric	Healthy

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Data extracted from the 840 neonates' dataset

529	Female	3.35	48	8/10	pink	NL	143	47	96	NL- symetric	Healthy
530	Female	2.9	24	10/10	pink	NL	134	49	97	NL- symetric	Healthy
531	Female	2.9	24	9/10	pink	NL	157	50	97	NL- symetric	Healthy
532	Female	3.4	48	9/10	pink	NL	134	40	97	NL- symetric	Healthy
533	Male	3.2	24	10/10	pink	NL	129	43	99	NL- symetric	Healthy
534	Female	3.45	14	10/10	pink	NL	145	52	97	NL- symetric	Healthy
0 535	Male	2.8	72	8/10	pink	NL	145	53	97	NL- symetric	Healthy
0 536	Female	3	48	9/10	pink	NL	129	44	97	NL- symetric	Healthy
0 537	Male	3.6	48	9/10	pink	NL	148	55	97	NL- symetric	Healthy
0 538	Female	3.9	24	8/10	pink	NL	132	38	96	NL- symetric	Healthy
0 539	Female	3.4	10	8/10	pink	NL	130	57	96	NL- symetric	Healthy
0 540	Male	3.5	48	9/10	pink	NL	126	47	97	NL- symetric	Healthy
541	Male	3.6	24	9/10	pink	NL	151	46	97	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

542	Male	3	24	9/10	pink	NL	134	44	96	NL- symetric	Healthy
0 543	Male	3.5	24	9/10	pink	NL	151	43	99	NL- symetric	Healthy
0 544	Male	2.9	48	9/10	pink	NL	155	44	99	NL- symetric	Healthy
0 545	Male	2.8	4	9/10	pink	NL	133	43	98	NL- symetric	Healthy
0 546	Female	3.4	24	9/10	pink	NL	138	44	98	NL- symetric	Healthy
0 547	Female	3.65	48	9/10	pink	NL	121	40	98	NL- symetric	Healthy
0 548	Female	3.9	24	10/10	pink	NL	143	49	98	NL- symetric	Healthy
0 549	Male	2.95	48	9/10	pink	NL	156	39	99	NL- symetric	Healthy
0 550	Female	3.14	24	9/10	pink	NL	153	51	99	NL- symetric	Healthy
0 551	Male	3.3	48	8/10	pink	NL	141	43	96	NL- symetric	Healthy
0 552	Male	3.15	24	9/10	pink	NL	143	40	97	NL- symetric	Healthy
0 553	Female	3.3	48	9/10	pink	NL	148	41	98	NL- symetric	Healthy
0 554	Female	3.4	48	9/10	pink	NL	154	40	98	NL- symetric	Healthy

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840 neonates have undergone standard medical examination besides, each one of them has also been examined double-blinded, by the intelligent phonocardiography machine, Pouya Heart. The results are presented in following table. The data are extracted from dataset presented hereunder.

Data extracted from the 840 neonates' dataset

0	555	Female	3.2	24	9/10	pink	NL	135	50	98	NL- symetric	Healthy
0	556	Female	3.8	24	9/10	pink	NL	157	42	98	NL- symetric	Healthy
0	557	Male	3.25	24	8/10	pink	NL	139	54	98	NL- symetric	Healthy
0	558	Female	3.55	48	9/10	pink	NL	153	53	96	NL- symetric	Healthy
0	559	Male	3	48	9/10	pink	NL	132	41	96	NL- symetric	Healthy
0	560	Female	3.1	48	9/10	pink	NL	156	42	97	NL- symetric	Healthy
0	561	Male	3	24	9/10	pink	NL	143	43	97	NL- symetric	Healthy
0	562	Female	3.25	48	8/10	pink	NL	148	48	98	NL- symetric	Healthy
0	563	Female	3.4	24	9/10	pink	NL	157	44	97	NL- symetric	Healthy
0	564	Female	2.95	48	9/10	pink	NL	134	46	97	NL- symetric	Healthy
0	565	Female	3.9	24	9/10	pink	NL	140	60	98	NL- symetric	Healthy
0	566	Male	3.3	72	9/10	pink	NL	133	55	97	NL- symetric	Healthy
0	567	Female	2	48	9/10	pink	NL	156	49	97	NL- symetric	Healthy

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Data extracted from the 840 neonates' dataset

0	568	Female	2.85	48	8/10	pink	NL	157	56	98	NL- symetric	Healthy
0	569	Female	3.8	48	9/10	pink	NL	128	48	98	NL- symetric	Healthy
0	570	Female	2.7	48	10/10	pink	NL	144	47	96	NL- symetric	Healthy
0	571	Female	2.7	96	9/10	pink	NL	149	44	99	NL- symetric	Healthy
0	572	Male	2.8	24	9/10	pink	NL	150	44	97	NL- symetric	Healthy
0	573	Female	2.7	48	9/10	pink	NL	148	43	96	NL- symetric	Healthy
0	574	Female	2.2	24	9/10	pink	NL	141	51	98	NL- symetric	Healthy
0	575	Female	3.2	12	10/10	pink	NL	144	40	99	NL- symetric	Healthy
0	576	Female	2.7	48	9/10	pink	NL	131	41	98	NL- symetric	Healthy
0	577	Female	2.95	24	9/10	pink	NL	145	56	97	NL- symetric	Healthy
0	578	Female	3	24	9/10	pink	NL	152	44	98	NL- symetric	Healthy
0	579	Male	3.8	24	9/10	pink	NL	129	46	97	NL- symetric	Healthy
0	580	Male	2	72	10/10	pink	NL	148	48	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 581	Female	2.9	48	10/10	pink	NL	141	44	98	NL- symetric	Healthy			
0 582	Female	4	48	9/10	pink	NL	130	45	99	NL- symetric	ill	mild LVH/mild IHSS	One week later	diabet
0 583	Female	3.6	24	9/10	pink	NL	155	52	98	NL- symetric	Healthy			
0 584	Male	2	24	10/10	pink	NL	151	47	98	NL- symetric	Healthy			
0 585	Female	1.25	10	9/10	pink	murmur heard	134	49	96	NL- symetric	ill	large PFO/mid mmc VSD/LR shunt	NICU	
0 586	Male	3.3	24	8/10	pink	NL	151	50	97	NL- symetric	Healthy			
0 587	Female	3.9	72	9/10	pink	NL	155	43	97	NL- symetric	Healthy			
0 588	Female	4	24	8/10	pink	NL	160	45	97	NL- symetric	Healthy			
0 589	Female	3.47	48	10/10	pink	NL	137	52	98	NL- symetric	Healthy			
0 590	Male	3.1	48	9/10	pink	NL	131	55	98	NL- symetric	Healthy			
0 591	Female	3.5	24	8/10	pink	NL	133	53	99	NL- symetric	Healthy			
0 592	Female	3	6	9/10	pink	NL	144	55	98	NL- symetric	Healthy			
0 593	Male	2.9	10	8/10	pink	NL	123	43	98	NL- symetric	Healthy			

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**Data extracted from the 840 neonates’ dataset**

0	594	Male	4.1	48	10/10	pink	NL	134	42	97	NL- symetric	Healthy
0	595	Male	3.8	48	9/10	acrocyanosis	NL	133	38	97	NL- symetric	Healthy
0	596	Female	2.6	24	9/10	pink	NL	143	40	98	NL- symetric	Healthy
0	597	Male	4.5	24	9/10	pink	NL	147	52	96	NL- symetric	Healthy
0	598	Male	2.8	24	8/10	pink	NL	154	55	98	NL- symetric	Healthy
0	599	Male	2.86	48	9/10	pink	NL	134	54	99	NL- symetric	Healthy
0	600	Female	3.2	24	9/10	pink	NL	156	44	98	NL- symetric	Healthy
0	601	Male	2.8	24	9/10	pink	NL	143	47	96	NL- symetric	Healthy
0	602	Female	2.9	24	9/10	pink	NL	130	44	97	NL- symetric	Healthy
0	603	Male	3	5	10/10	pink	NL	157	49	97	NL- symetric	Healthy
0	604	Female	3.8	48	9/10	pink	NL	141	47	98	NL- symetric	Healthy
0	605	Male	3.15	48	9/10	pink	NL	140	44	97	NL- symetric	Healthy
0	606	Female	1.15	24	9/10	pink	NL	133	43	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates' dataset**

0 607	Female	3.8	48	9/10	pink	NL	156	34	98	NL- symetric	Healthy
0 608	Male	2.9	72	10/10	pink	NL	132	39	98	NL- symetric	Healthy
0 609	Male	3.8	48	9/10	pink	NL	145	50	98	NL- symetric	Healthy
0 610	Male	6	48	9/10	pink	NL	144	37	99	NL- symetric	Healthy
0 611	Male	3.7	72	9/10	pink	NL	149	53	100	NL- symetric	Healthy
0 612	Female	2.15	48	9/10	pink	NL	122	40	98	NL- symetric	Healthy
0 613	Male	3.3	24	8/10	pink	NL	148	45	98	NL- symetric	Healthy
0 614	Male	2.3	24	10/10	pink	NL	133	43	97	NL- symetric	Healthy
0 615	Male	3.4	24	10/10	pink	NL	143	38	97	NL- symetric	Healthy
0 616	Male	3	48	9/10	pink	NL	143	42	99	NL- symetric	Healthy
0 617	Male	2.7	48	10/10	pink	NL	156	55	97	NL- symetric	Healthy
0 618	Male	2.8	72	10/10	pink	NL	128	50	98	NL- symetric	Healthy
0 619	Female	2.7	24	9/10	pink	NL	141	58	98	NL- symetric	Healthy



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**Data extracted from the 840 neonates' dataset**

0 620	Male	2.3	24	10/10	pink	NL	152	45	97	NL- symetric	Healthy
0 621	Female	3.1	72	9/10	pink	NL	148	42	97	NL- symetric	Healthy
0 622	Female	3.7	24	10/10	pink	NL	154	43	99	NL- symetric	Healthy
0 623	Female	3.6	24	8/10	pink	NL	161	39	98	NL- symetric	Healthy
0 624	Female	2.665	24	8/10	pink	NL	157	55	98	NL- symetric	Healthy
0 625	Female	3.04	24	9/10	pink	NL	139	41	97	NL- symetric	Healthy
0 626	Male	3.5	24	9/10	pink	NL	133	43	97	NL- symetric	Healthy
0 627	Male	3.2	48	10/10	pink	NL	132	44	98	NL- symetric	Healthy
0 628	Female	3.2	48	10/10	pink	NL	156	60	96	NL- symetric	Healthy
0 629	Female	2.7	48	8/10	pink	NL	143	49	98	NL- symetric	Healthy
0 630	Female	2.88	24	8/10	pink	NL	148	40	98	NL- symetric	Healthy
0 631	Female	2.9	48	10/10	pink	NL	157	51	97	NL- symetric	Healthy
0 632	Male	3.4	48	9/10	pink	NL	134	54	99	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	633	Female	2.75	48	9/10	pink	NL	129	55	97	NL- symetric	Healthy
0	634	Female	2.4	48	8/10	pink	NL	145	53	98	NL- symetric	Healthy
0	635	Male	3.45	48	9/10	pink	NL	152	55	98	NL- symetric	Healthy
0	636	Female	3.1	24	9/10	pink	NL	129	45	99	NL- symetric	Healthy
0	637	Male	3.5	72	10/10	pink	NL	148	43	97	NL- symetric	Healthy
0	638	Female	2.6	72	10/10	pink	NL	132	55	97	NL- symetric	Healthy
0	639	Female	3.3	72	9/10	pink	NL	130	45	97	NL- symetric	Healthy
0	640	Male	3.8	48	10/10	pink	NL	155	47	98	NL- symetric	Healthy
0	641	Female	3	48	9/10	pink	NL	151	43	99	NL- symetric	Healthy
0	642	Male	2.5	48	8/10	pink	NL	134	43	98	NL- symetric	Healthy
0	643	Female	3.2	12	8/10	pink	NL	128	44	98	NL- symetric	Healthy
0	644	Female	3.55	36	9/10	pink	NL	155	42	97	NL- symetric	Healthy
0	645	Male	3	9	9/10	pink	NL	160	50	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	646	Female	3.58	10	9/10	pink	NL	137	53	97	NL- symetric	Healthy
0	647	Female	3.3	8	8/10	pink	NL	145	44	98	NL- symetric	Healthy
0	648	Female	3	13	9/10	pink	NL	132	56	99	NL- symetric	Healthy
0	649	Male	2.7	25	9/10	pink	NL	134	55	98	NL- symetric	Healthy
0	650	Female	3	24	10/10	pink	NL	156	46	97	NL- symetric	Healthy
0	651	Female	4.1	14	9/10	pink	NL	123	54	97	NL- symetric	Healthy
0	652	Male	4.1	24	9/10	pink	NL	156	43	97	NL- symetric	Healthy
0	653	Male	3.2	24	10/10	pink	NL	134	55	98	NL- symetric	Healthy
0	654	Male	2.8	24	9/10	pink	NL	145	42	98	NL- symetric	Healthy
0	655	Male	3.5	48	9/10	pink	NL	146	42	99	NL- symetric	Healthy
0	656	Female	3.1	48	9/10	pink	NL	147	51	98	NL- symetric	Healthy
0	657	Female	3.1	36	9/10	pink	NL	144	46	98	NL- symetric	Healthy
0	658	Male	2.85	24	8/10	pink	NL	154	43	98	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0	659	Male	3.05	60	9/10	pink	NL	154	45	97	NL- symetric	Healthy
0	660	Female	2.6	48	9/10	pink	NL	150	45	97	NL- symetric	Healthy
0	661	Male	2.6	48	9/10	pink	NL	152	53	99	NL- symetric	Healthy
0	662	Male	3.6	39	10/10	pink	NL	138	56	97	NL- symetric	Healthy
0	663	Female	3.15	36	9/10	pink	NL	145	45	98	NL- symetric	Healthy
0	664	Female	3.1	12	9/10	pink	NL	148	60	98	NL- symetric	Healthy
0	665	Male	3.6	24	9/10	pink	NL	139	55	99	NL- symetric	Healthy
0	666	Female	3.25	48	9/10	pink	NL	137	61	97	NL- symetric	Healthy
0	667	Male	2.5	24	10/10	pink	NL	154	55	99	NL- symetric	Healthy
0	668	Male	2.5	24	10/10	pink	NL	143	58	98	NL- symetric	Healthy
0	669	Female	3.3	24	9/10	pink	NL	138	57	98	NL- symetric	Healthy
0	670	Female	3.7	24	9/10	pink	NL	145	45	97	NL- symetric	Healthy
0	671	Female	2.8	72	10/10	pink	NL	118	55	97	NL- symetric	Healthy

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**Data extracted from the 840 neonates’ dataset**

0 672	Male	2.3	24	9/10	pink	NL	139	50	99	NL- symetric	Healthy			
0 673	Male	3.1	24	8/10	pink	NL	137	49	97	NL- symetric	Healthy			
0 674	Male	3	24	9/10	pink	NL	154	43	98	NL- symetric	Healthy			
0 675	Female	3.5	48	9/10	pink	NL	151	52	98	NL- symetric	Healthy			
0 676	Male	3.15	48	9/10	pink	NL	120	42	96	NL- symetric	Healthy			
0 677	Female	3.15	48	9/10	pink	NL	149	40	96	NL- symetric	Healthy			
0 678	Male	3.5	24	8/10	pink	NL	137	46	97	NL- symetric	Healthy			
0 679	Female	4.2	24	9/10	pink	NL	145	41	97	NL- symetric	Healthy			
0 680	Female	3.4	48	9/10	pink	NL	155	52	97	NL- symetric	Healthy			
0 681	Female	3.1	48	9/10	pink	NL	133	39	98	NL- symetric	Healthy			
0 682	Female	2.7	72	9/10	pink	NL	141	54	97	NL- symetric	ill	PDA- mild L to R shunt	One week later	diabet
0 683	Female	2.6	48	9/10	pink	NL	143	55	98	NL- symetric	Healthy			
0 684	Female	2.68	12	9/10	pink	NL	156	54	96	NL- symetric	Healthy			

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Data extracted from the 840 neonates’ dataset

0	685	Female	2.8	48	9/10	pink	NL	153	58	96	NL- symetric	Healthy			
0	686	Male	4.2	48	9/10	pink	NL	141	45	97	NL- symetric	Healthy			
0	687	Female	3.8	24	8/10	pink	NL	123	53	97	bounding	ill	PDA- continues shunt	One week later	diabet
0	688	Male	3.3	36	9/10	pink	NL	148	55	98	NL- symetric	Healthy			
0	689	Female	3	24	10/10	pink	NL	154	45	98	NL- symetric	Healthy			
0	690	Male	2.1	48	8/10	pink	NL	135	44	98	NL- symetric	Healthy			
0	691	Male	2.44	24	9/10	pink	NL	157	40	97	NL- symetric	Healthy			
0	692	Male	3.1	48	10/10	pink	NL	139	49	99	NL- symetric	Healthy			
0	693	Female	2.3	48	9/10	pink	NL	133	43	97	NL- symetric	Healthy			
0	694	Male	2.58	24	9/10	pink	NL	132	58	98	NL- symetric	Healthy			
0	695	Female	3	48	10/10	pink	NL	156	40	98	NL- symetric	Healthy			
0	696	Male	2.9	24	9/10	pink	NL	143	42	98	NL- symetric	ill	small ASD,mild TR	Three months later	
0	697	Female	3.6	24	9/10	pink	NL	148	46	97	NL- symetric	Healthy			

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**Data extracted from the 840 neonates’ dataset**

0 698	Male	4.2	72	9/10	pink	murmur heard	157	44	97	NL- symetric	Healthy
0 699	Female	3	48	9/10	pink	NL	141	55	98	NL- symetric	Healthy
0 700	Male	3.4	72	10/10	pink	NL	140	52	98	NL- symetric	Healthy
0 701	Female	2.9	24	10/10	pink	NL	154	42	98	NL- symetric	Healthy
0 702	Male	3	24	9/10	pink	NL	156	44	97	NL- symetric	Healthy
0 703	Male	3.6	72	9/10	pink	NL	157	45	97	NL- symetric	Healthy
0 704	Male	3.45	48	9/10	pink	NL	145	56	97	NL- symetric	Healthy
0 705	Male	3.25	24	9/10	pink	NL	157	58	98	NL- symetric	Healthy
0 706	Male	2.78	24	8/10	pink	NL	139	54	98	NL- symetric	Healthy
0 707	Female	3.45	48	9/10	pink	NL	133	44	99	NL- symetric	Healthy
0 708	Female	3	48	8/10	pink	NL	132	38	98	NL- symetric	Healthy
0 709	Female	3.3	48	9/10	pink	NL	156	50	97	NL- symetric	Healthy
0 710	Female	3.3	22	9/10	pink	NL	143	43	97	NL- symetric	Healthy

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Data extracted from the 840 neonates' dataset

0	711	Male	2.55	48	9/10	pink	NL	148	40	98	NL- symetric	Healthy					
0	712	Female	3	48	9/10	pink	NL	157	44	99	NL- symetric	Healthy					
0	713	Male	3.9	16	9/10	pink	NL	134	43	99	NL- symetric	Healthy					
0	714	Female	3.2	48	8/10	pink	NL	140	49	98	NL- symetric	Healthy					
0	715	Male	3.3	48	10/10	pink	NL	133	44	100	NL- symetric	Healthy					
0	716	Female	4.9	24	9/10	pink	NL	152	45	98	NL- symetric	Healthy					
0	717	Male	3	24	9/10	pink	NL	157	60	97	NL- symetric	Healthy					
0	718	Male	3.1	12	9/10	pink	NL	145	43	97	NL- symetric	Healthy					
0	719	Female	3.1	3	9/10	pink	NL	143	44	98	NL- symetric	Healthy					
0	720	Male	2.8	48	9/10	pink	NL	136	55	98	NL- symetric	Healthy					
0	721	Female	2	48	9/10	pink	NL	154	50	97	NL- symetric	Healthy					
0	722	Male	3.8	24	9/10	pink	NL	141	58	97	NL- symetric	ill		small ASD	Three months later	diabet	
0	723	Male	3.6	24	9/10	pink	NL	140	45	97	NL- symetric	Healthy					



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Data extracted from the 840 neonates’ dataset

0 724	Male	3.1	48	9/10	pink	NL	149	56	98	NL- symetric	Healthy
0 725	Male	3.8	120	9/10	pink	NL	139	46	97	NL- symetric	Healthy
0 726	Female	2.7	96	9/10	pink	NL	150	49	98	NL- symetric	Healthy
0 727	Female	2.9	96	9/10	pink	NL	130	57	98	NL- symetric	Healthy
0 728	Female	2.6	48	9/10	pink	NL	138	43	97	NL- symetric	Healthy
0 729	Male	3.3	16	10/10	pink	NL	155	43	99	NL- symetric	Healthy
0 730	Female	2.9	96	9/10	pink	NL	154	44	98	NL- symetric	Healthy
0 731	Male	2.8	48	9/10	pink	NL	134	50	98	NL- symetric	Healthy
0 732	Female	3	40	9/10	pink	NL	153	53	98	NL- symetric	Healthy
0 733	Female	3.36	24	9/10	pink	NL	121	52	97	NL- symetric	Healthy
0 734	Male	3.4	48	9/10	pink	NL	133	43	98	NL- symetric	Healthy
0 735	Female	3	48	8/10	pink	NL	144	40	99	NL- symetric	Healthy
0 736	Male	3.15	48	9/10	pink	NL	149	44	98	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0 737	Male	3.4	48	9/10	pink	NL	145	42	98	NL- symetric	Healthy		
0 738	Female	3.2	48	9/10	pink	NL	145	50	99	NL- symetric	Healthy		
0 739	Male	3	24	9/10	pink	NL	155	51	97	NL- symetric	Healthy		
0 740	Male	2.95	24	9/10	pink	NL	133	50	97	NL- symetric	Healthy		
0 741	Male	3.6	8	9/10	pink	NL	141	40	97	NL- symetric	Healthy		
0 742	Male	3.2	48	10/10	pink	NL	143	44	98	NL- symetric	Healthy		
0 743	Male	3.7	24	10/10	pink	NL	156	52	97	NL- symetric	Healthy		
0 744	Female	3	24	9/10	pink	NL	153	43	96	NL- symetric	Healthy		
0 745	Female	2.2	7	9/10	pink	NL	141	46	97	NL- symetric	Healthy		
0 746	Male	3.3	24	9/10	pink	NL	152	54	97	NL- symetric	Healthy		
0 747	Male	2.45	24	8/10	pink	NL	148	42	97	NL- symetric	ill	NL	diabet
0 748	Female	3.05	24	10/10	pink	NL	154	45	97	NL- symetric	Healthy		
0 749	Female	3	24	9/10	pink	NL	161	55	99	NL- symetric	Healthy		

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**Data extracted from the 840 neonates’ dataset**

0	750	Female	4	24	9/10	pink	NL	157	37	99	NL- symetric	Healthy
0	751	Male	3.1	24	9/10	pink	NL	139	49	98	NL- symetric	Healthy
0	752	Female	2.1	36	9/10	pink	NL	133	44	97	NL- symetric	Healthy
0	753	Female	3	24	9/10	pink	NL	132	50	97	NL- symetric	Healthy
0	754	Male	3.7	24	9/10	pink	NL	144	43	97	NL- symetric	Healthy
0	755	Male	3.65	24	10/10	pink	NL	143	40	99	NL- symetric	Healthy
0	756	Male	4	24	9/10	pink	NL	148	43	97	NL- symetric	Healthy
0	757	Female	2.9	48	9/10	pink	NL	157	41	98	NL- symetric	Healthy
0	758	Male	3.2	24	9/10	pink	NL	134	56	98	NL- symetric	Healthy
0	759	Female	2.85	24	9/10	pink	NL	122	55	98	NL- symetric	Healthy
0	760	Female	3.3	48	10/10	pink	NL	143	54	98	NL- symetric	Healthy
0	761	Male	3	3	9/10	pink	NL	152	44	97	NL- symetric	Healthy
0	762	Male	3.2	36	9/10	pink	NL	129	46	97	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0 763	Male	3.2	24	9/10	pink	NL	148	48	96	NL- symetric	Healthy
0 764	Male	3.1	24	9/10	pink	NL	132	43	96	NL- symetric	Healthy
0 765	Female	2.8	24	9/10	pink	NL	143	42	97	NL- symetric	Healthy
0 766	Male	3.3	3	10/10	pink	NL	123	53	97	NL- symetric	Healthy
0 767	Female	3.5	12	9/10	pink	NL	128	52	99	NL- symetric	Healthy
0 768	Female	3.2	24	9/10	pink	NL	147	39	99	NL- symetric	Healthy
0 769	Female	2.6	24	9/10	pink	NL	137	55	97	NL- symetric	Healthy
0 770	Male	3	16	9/10	pink	NL	155	43	97	NL- symetric	Healthy
0 771	Female	3	24	9/10	pink	NL	133	49	99	NL- symetric	Healthy
0 772	Male	2.9	12	9/10	pink	NL	140	44	97	NL- symetric	Healthy
0 773	Male	3.15	24	10/10	pink	NL	155	45	98	NL- symetric	Healthy
0 774	Male	3.1	24	9/10	pink	NL	147	43	98	NL- symetric	Healthy
0 775	Female	3.4	24	10/10	pink	NL	147	42	97	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0 776	Male	2.5	7	9/10	pink	NL	132	42	97	NL- symetric	healthy
0 777	Female	3.66	24	9/10	pink	NL	143	50	97	NL- symetric	Healthy
0 778	Female	3.4	48	10/10	pink	NL	138	52	96	NL- symetric	Healthy
0 779	Male	3.85	24	10/10	pink	NL	147	40	98	NL- symetric	Healthy
0 780	Male	3.5	24	9/10	pink	NL	153	39	97	NL- symetric	Healthy
0 781	Male	3.4	24	10/10	pink	NL	140	43	97	NL- symetric	Healthy
0 782	Female	3	24	9/10	pink	NL	127	42	99	NL- symetric	Healthy
0 783	Male	3.4	48	9/10	pink	NL	133	41	98	NL- symetric	Healthy
0 784	Male	3	24	9/10	pink	NL	131	51	97	NL- symetric	Healthy
0 785	Female	2.7	24	9/10	pink	NL	141	43	99	NL- symetric	Healthy
0 786	Male	3.1	48	9/10	pink	NL	137	56	97	NL- symetric	Healthy
0 787	Male	3.65	24	8/10	pink	NL	142	51	97	NL- symetric	Healthy
0 788	Male	3.2	24	9/10	pink	NL	151	54	97	NL- symetric	Healthy

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Data extracted from the 840 neonates’ dataset

0 789	Male	2.6	48	9/10	pink	NL	144	43	98	NL- symetric	ill	small VSD	Two months later	diabet
0 790	Female	3.1	48	10/10	pink	NL	133	51	98	NL- symetric	Healthy			
0 791	Female	3.6	48	9/10	pink	NL	142	55	99	NL- symetric	Healthy			
0 792	Female	3.3	48	9/10	pink	NL	147	52	98	NL- symetric	Healthy			
0 793	Female	3.1	24	9/10	pink	NL	132	45	99	NL- symetric	Healthy			
0 794	Female	3.3	44	8/10	pink	NL	143	55	98	NL- symetric	Healthy			
0 795	Male	2.4	96	9/10	pink	NL	132	44	98	NL- symetric	Healthy			
0 796	Male	3.8	21	9/10	pink	NL	147	53	97	NL- symetric	Healthy			
0 797	Male	3.15	24	10/10	pink	NL	153	44	97	NL- symetric	Healthy			
0 798	Male	3.8	120	9/10	pink	NL	140	43	97	NL- symetric	Healthy			
0 799	Male	3.6	24	9/10	pink	NL	143	49	99	NL- symetric	Healthy			
0 800	Female	3.1	48	9/10	pink	NL	133	54	98	NL- symetric	Healthy			
0 801	Female	3.05	36	8/10	pink	NL	131	45	98	NL- symetric	Healthy			

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**Data extracted from the 840 neonates’ dataset**

0	802	Male	3	48	9/10	pink	NL	141	57	97	NL- symetric	Healthy						
0	803	Female	2.3	26	9/10	pink	NL	137	56	97	NL- symetric	Healthy						
0	804	Male	2.35	24	10/10	pink	NL	144	55	98	NL- symetric	Healthy						
0	805	Male	2.3	24	9/10	pink	NL	142	58	97	NL- symetric	Healthy						
0	806	Female	3.2	24	9/10	pink	NL	137	58	99	NL- symetric	Healthy						
0	807	Female	3.35	22	9/10	pink	NL	154	58	97	NL- symetric	Healthy						
0	808	Male	2.85	37	10/10	pink	NL	142	59	97	NL- symetric	Healthy						
0	809	Female	3	10	10/10	pink	NL	138	55	98	NL- symetric	Healthy						
0	810	Female	2.8	72	9/10	pink	NL	145	41	98	NL- symetric	Healthy						
0	811	Female	3.6	60	9/10	pink	NL	148	49	98	NL- symetric	Healthy						
	812	Female	2.8	36	9/10	pink	NL	128	49	99	NL- symetric	Healthy						
0	813	Female	3.1	5	9/10	pink	NL	147	46	97	NL- symetric	Healthy						
0	814	Female	3.8	120	8/10	pink	NL	132	43	95	NL- symetric	ill		PDA + MA	5 days later	diabet		

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**Data extracted from the 840 neonates' dataset**

0 815	Male	3.8	50	8/10	pink	NL	143	42	99	NL- symetric	Healthy
0 816	Female	2.7	40	9/10	pink	NL	138	55	98	NL- symetric	Healthy
0 817	Female	3.2	34	9/10	pink	NL	147	49	97	NL- symetric	Healthy
0 818	Male	3	20	9/10	pink	NL	153	43	97	NL- symetric	Healthy
0 819	Male	3.7	20	9/10	pink	NL	140	40	99	NL- symetric	Healthy
0 820	Female	3.4	14	9/10	pink	NL	127	39	98	NL- symetric	Healthy
0 821	Female	3.15	96	8/10	pink	NL	133	54	97	NL- symetric	Healthy
0 822	Male	4.08	72	10/10	pink	NL	131	44	97	NL- symetric	Healthy
0 823	Female	4.5	20	9/10	pink	NL	141	53	99	NL- symetric	Healthy
0 824	Female	3.6	48	9/10	pink	NL	137	51	98	NL- symetric	Healthy
0 825	Male	3.5	48	9/10	pink	NL	142	45	98	NL- symetric	Healthy
0 826	Female	3.6	36	9/10	pink	NL	147	40	99	NL- symetric	Healthy
0 827	Male	2.85	24	9/10	pink	NL	146	42	97	NL- symetric	Healthy



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**Data extracted from the 840 neonates’ dataset**

0 828	Male	2.7	48	10/10	pink	NL	134	47	98	NL- symetric	Healthy
0 829	Female	3.3	48	10/10	pink	NL	140	43	98	NL- symetric	Healthy
0 830	Female	2.55	24	9/10	pink	NL	147	46	99	NL- symetric	Healthy
0 831	Female	3.15	3	9/10	pink	NL	144	54	98	NL- symetric	Healthy
0 832	Male	3.05	43	9/10	pink	NL	133	49	98	NL- symetric	Healthy
0 833	Female	3.9	32	9/10	pink	NL	142	52	99	NL- symetric	Healthy
0 834	Male	3.5	31	10/10	pink	NL	147	51	98	NL- symetric	Healthy
0 835	Male	3.4	26	9/10	pink	NL	132	55	98	NL- symetric	Healthy
0 836	Female	2.6	28	9/10	pink	NL	143	51	98	NL- symetric	Healthy
0 841	Female	2.4	23	9/10	pink	NL	132	45	97	NL- symetric	Healthy
0 842	Male	3.85	96	9/10	pink	NL	147	49	99	NL- symetric	Healthy
0 839	Male	3.5	39	9/10	pink	NL	153	55	98	NL- symetric	healthy
0 840	Female	4.1	46	8/10	pink	NL	134	49	99	NL- symetric	Healthy

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