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%

#	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 Phonocardiograghy Screening result (Pouya-Heart)	Echoc Results	Echo-Follow UP	comments, family records
1	Female	2.1	24	9/10	pink	NL	130	44	99	NL- symetric	Healthy			
2	Male	1.85	48	8/10	pink	NL	145	58	97	NL- symetric	ill	small PDA	One week later	HTN-diabet
3	Male	2.8	9	10/10	pink	NL	134	43	98	NL- symetric	Healthy			
4	Male	1.7	48	9/10	pink	NL	156	53	98	NL- symetric	ill	small PDA	One week later	HTN
5	Male	2.7	24	9/10	pink	NL	145	44	99	NL- symetric	Healthy			
6	Male	3.6	48	8/10	pink	NL	156	45	97	NL- symetric	Healthy	NL		
7	Male	3.27	12	9/10	pink	NL	134	43	100	NL- symetric	Healthy			
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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9	Male	2.1	24	8/10	pink	NL	146	42	98	NL- symetric	Healthy		
10	Male	3.55	30	9/10	pink	NL	147	55	99	NL- symetric	Healthy		
11	Male	2.35	24	8/10	pink	NL	156	53	98	NL- symetric	healthy		
12	Male	3	15	9/10	pink	NL	154	58	100	NL- symetric	Healthy		
13	Male	3.05	48	9/10	pink	NL	154	45	99	NL- symetric	Healthy		
14	Male	3.3	24	8/10	pink	NL	148	42	98	NL- symetric	ill	PFO/small PDA	One week later	diabet
15	Male	3.2	24	9/10	pink	murmur heard	153	46	97	NL- symetric	ill	PFO	One week later	diabet
16	Female	2.6	48	9/10	pink	NL	138	39	99	NL- symetric	Healthy		
17	Male	3.24	14	9/10	pink	murmur heard	145	55	98	NL- symetric	Healthy	NL	
18	Female	2.5	12	10/10	pink	NL	137	52	99	NL- symetric	Healthy		
19	Male	4	24	9/10	pink	NL	154	43	98	NL- symetric	Healthy		
20	Male	2.5	12	10/10	pink	NL	151	44	99	NL- symetric	Healthy		
21	Male	3	48	8/10	pink	murmur heard	144	46	97	NL- symetric	ill	small PDA	One week later	

Data extracted from the 840 neonates' dataset

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Neonates Cardiac Monitoring Research Project
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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

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

516	Female	3.3	72	8/10	pink	NL	143	43	99	NL- symetric	Healthy
517	Female	4.3	24	9/10	pink	NL	156	50	97	NL- symetric	Healthy
518	Female	3.4	24	9/10	pink	NL	153	42	97	NL- symetric	Healthy
519	Male	2.15	48	9/10	pink	NL	143	40	97	NL- symetric	Healthy
520	Male	3.35	48	9/10	pink	NL	152	41	98	NL- symetric	Healthy
521	Male	4.4	8	9/10	pink	NL	148	44	98	NL- symetric	Healthy
522	Female	3.1	24	8/10	pink	NL	154	41	97	NL- symetric	Healthy
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

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
535	Male	2.8	72	8/10	pink	NL	145	53	97	NL- symetric	Healthy
536	Female	3	48	9/10	pink	NL	129	44	97	NL- symetric	Healthy
537	Male	3.6	48	9/10	pink	NL	148	55	97	NL- symetric	Healthy
538	Female	3.9	24	8/10	pink	NL	132	38	96	NL- symetric	Healthy
539	Female	3.4	10	8/10	pink	NL	130	57	96	NL- symetric	Healthy
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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

672	Male	2.3	24	9/10	pink	NL	139	50	99	NL- symetric	Healthy			
673	Male	3.1	24	8/10	pink	NL	137	49	97	NL- symetric	Healthy			
674	Male	3	24	9/10	pink	NL	154	43	98	NL- symetric	Healthy			
675	Female	3.5	48	9/10	pink	NL	151	52	98	NL- symetric	Healthy			
676	Male	3.15	48	9/10	pink	NL	120	42	96	NL- symetric	Healthy			
677	Female	3.15	48	9/10	pink	NL	149	40	96	NL- symetric	Healthy			
678	Male	3.5	24	8/10	pink	NL	137	46	97	NL- symetric	Healthy			
679	Female	4.2	24	9/10	pink	NL	145	41	97	NL- symetric	Healthy			
680	Female	3.4	48	9/10	pink	NL	155	52	97	NL- symetric	Healthy			
681	Female	3.1	48	9/10	pink	NL	133	39	98	NL- symetric	Healthy			
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
683	Female	2.6	48	9/10	pink	NL	143	55	98	NL- symetric	Healthy			
684	Female	2.68	12	9/10	pink	NL	156	54	96	NL- symetric	Healthy			

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

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

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

Data extracted from the 840 neonates' dataset

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

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Data extracted from the 840 neonates' dataset