

**Supplemental Material S3.** Per child sound errors & VMPAC scores.

Total Sounds Possible = 123				Errors/Total Sounds* (%)		Errors/Total Errors (%)		VMPAC Score (%)
CHILD	ArtErr	PhonErr	Total Errors	ArtErr	PhonErr	ArtErr	PhonErr	Sequencing
1	3	4	7	2.44	3.25	42.86	57.14	65.20
2	15	7	22	12.20	5.69	68.18	31.82	87.00
3	18	5	23	14.63	4.07	78.26	21.74	80.40
4	8	24	32	6.50	19.51	25.00	75.00	63.00
5	18	37	55	14.63	30.08	32.73	67.27	47.80
6	8	58	66	6.50	47.15	12.12	87.88	59.00
7	14	42	56	11.38	34.15	25.00	75.00	63.00
8	28	26	54	22.76	21.14	51.85	48.15	69.60
9	14	34	48	11.38	27.64	29.17	70.83	58.70
10	5	9	14	4.07	7.32	35.71	64.29	87.00
11	16	7	23	13.01	5.69	69.57	30.43	95.70
12	15	0	15	12.20	0.00	100.00	0.00	73.90
13	19	7	26	15.45	5.69	73.08	26.92	91.30
14	5	5	10	4.07	4.07	50.00	50.00	76.10
15	11	10	21	8.94	8.13	52.38	47.62	58.70
16	6	57	63	4.88	46.34	9.52	90.48	43.50
17	10	9	19	8.13	7.32	52.63	47.37	60.90
18	2	11	13	1.63	8.94	15.38	84.62	80.40
19	13	3	16	10.57	2.44	81.25	18.75	84.80
20	15	1	16	12.20	0.81	93.75	6.25	57.50
21	16	14	30	13.01	11.38	53.33	46.67	74.00
22	14	57	71	11.38	46.34	19.72	80.28	39.10
23	13	5	18	10.57	4.07	72.22	27.78	80.40
24	5	7	12	4.07	5.69	41.67	58.33	89.10
25	3	9	12	2.44	7.32	25.00	75.00	76.10
26	17	13	30	13.82	10.57	56.67	43.33	69.60
27	25	15	40	20.33	12.20	62.50	37.50	50.00
28	12	8	20	9.76	6.50	60.00	40.00	82.60
29	25	4	29	20.33	3.25	86.21	13.79	71.70
30	3	3	6	2.44	2.44	50.00	50.00	63.00
31	3	6	9	2.44	4.88	33.33	66.67	71.70
32	1	4	5	0.81	3.25	20.00	80.00	76.10
33	8	39	47	6.50	31.71	17.02	82.98	67.40
34	12	3	15	9.76	2.44	80.00	20.00	80.40

<b>35</b>	4	6	10		3.25	4.88		40.00	60.00		54.30
<b>36</b>	8	4	12		6.50	3.25		66.67	33.33		76.10
<b>37</b>	8	79	87		6.50	64.23		9.20	90.80		50.00
<b>38</b>	13	3	16		10.57	2.44		81.25	18.75		73.90
<b>39</b>	12	8	20		9.76	6.50		60.00	40.00		69.60
<b>40</b>	13	7	20		10.57	5.69		65.00	35.00		60.90
<b>41</b>	8	9	17		6.50	7.32		47.06	52.94		73.90
<b>42</b>	5	10	15		4.07	8.13		33.33	66.67		67.40
<b>43</b>	1	5	6		0.81	4.07		16.67	83.33		78.30
<b>44</b>	3	5	8		2.44	4.07		37.50	62.50		52.20
<b>45</b>	8	16	24		6.50	13.01		33.33	66.67		71.20
<b>46</b>	9	16	25		7.32	13.01		36.00	64.00		78.30
<b>47</b>	9	6	15		7.32	4.88		60.00	40.00		56.50
<b>48</b>	1	10	11		0.81	8.13		9.09	90.91		80.40
<b>49</b>	8	26	34		6.50	21.14		23.53	76.47		50.00
<b>50</b>	5	60	65		4.07	48.78		7.69	92.31		32.60
<b>51</b>	12	14	26		9.76	11.38		46.15	53.85		84.80
<b>52</b>	18	6	24		14.63	4.88		75.00	25.00		65.20
<b>53</b>	22	5	27		17.89	4.07		81.48	18.52		91.30
<b>54</b>	9	60	69		7.32	48.78		13.04	86.96		47.80
<b>55</b>	15	19	34		12.20	15.45		44.12	55.88		69.60
<b>56</b>	22	4	26		17.89	3.25		84.62	15.38		52.20
<b>57</b>	5	1	6		4.07	0.81		83.33	16.67		91.30
<b>58</b>	0	1	1		0.00	0.81		0.00	100.00		71.70
<b>59</b>	15	32	47		12.20	26.02		31.91	68.09		76.10
<b>60</b>	8	22	30		6.50	17.89		26.67	73.33		58.70
<b>61</b>	23	15	38		18.70	12.20		60.53	39.47		58.70
<b>62</b>	15	14	29		12.20	11.38		51.72	48.28		82.60
<b>63</b>	3	5	8		2.44	4.07		37.50	62.50		60.90
<b>64</b>	12	7	19		9.76	5.69		63.16	36.84		73.90
<b>65</b>	4	24	28		3.25	19.51		14.29	85.71		45.70
<b>66</b>	17	14	31		13.82	11.38		54.84	45.16		60.90
<b>67</b>	9	42	51		7.32	34.15		17.65	82.35		43.50
<b>68</b>	6	43	49		4.88	34.96		12.24	87.76		54.30
<b>69</b>	9	21	30		7.32	17.07		30.00	70.00		60.90
<b>70</b>	14	17	31		11.38	13.82		45.16	54.84		58.70
<b>71</b>	1	2	3		0.81	1.63		33.33	66.67		84.80
<b>72</b>	10	6	16		8.13	4.88		62.50	37.50		80.40
<b>73</b>	13	17	30		10.57	13.82		43.33	56.67		56.50

74	22	5	27		17.89	4.07		81.48	18.52		60.90
75	10	11	21		8.13	8.94		47.62	52.38		63.00
76	4	15	19		3.25	12.20		21.05	78.95		52.20
77	5	18	23		4.07	14.63		21.74	78.26		58.70
78	12	6	18		9.76	4.88		66.67	33.33		65.20
79	7	50	57		5.69	40.65		12.28	87.72		30.40
80	9	18	27		7.32	14.63		33.33	66.67		41.30
81	17	26	43		13.82	21.14		39.53	60.47		69.60
82	14	13	27		11.38	10.57		51.85	48.15		80.40
83	12	7	19		9.76	5.69		63.16	36.84		91.30
84	6	18	24		4.88	14.63		25.00	75.00		63.00
85	13	9	22		10.57	7.32		59.09	40.91		50.00
86	2	2	4		1.63	1.63		50.00	50.00		54.30
87	1	1	2		0.81	0.81		50.00	50.00		78.30
88	2	4	6		1.63	3.25		33.33	66.67		82.60
89	1	3	4		0.81	2.44		25.00	75.00		78.30
90	4	3	7		3.25	2.44		57.14	42.86		84.70
91	0	0	0		0.00	0.00	no errors	no errors			69.60
92	0	2	2		0.00	1.63	0.00	100.00			78.30
93	0	0	0		0.00	0.00	no errors	no errors			73.90
94	0	0	0		0.00	0.00	no errors	no errors			65.20
95	0	1	1		0.00	0.81	0.00	100.00			91.30
96	1	3	4		0.81	2.44	25.00	75.00			76.10
97	0	1	1		0.00	0.81	0.00	100.00			69.60
98	3	0	3		2.44	0.00	100.00	0.00			87.00
99	0	1	1		0.00	0.81	0.00	100.00			89.10
100	1	1	2		0.81	0.81	50.00	50.00			84.80
101	0	0	0		0.00	0.00	no errors	no errors			93.50
102	14	0	14		11.38	0.00	100.00	0.00			73.90
103	10	3	13		8.13	2.44	76.92	23.08			76.10
104	0	1	1		0.00	0.81	0.00	100.00			91.30
105	0	0	0		0.00	0.00	no errors	no errors			93.50
106	4	1	5		3.25	0.81	80.00	20.00			65.20
107	5	4	9		4.07	3.25	55.56	44.44			80.40
108	12	1	13		9.76	0.81	92.31	7.69			95.70
109	1	3	4		0.81	2.44	25.00	75.00			95.70
110	2	0	2		1.63	0.00	100.00	0.00			89.10
111	7	2	9		5.69	1.63	77.78	22.22			80.40
112	2	0	2		1.63	0.00	100.00	0.00			87.00

<b>113</b>	8	0	8		6.50	0.00		100.00	0.00		95.70
<b>114</b>	9	1	10		7.32	0.81		90.00	10.00		82.60
<b>115</b>	7	1	8		5.69	0.81		87.50	12.50		87.00
<b>116</b>	0	0	0		0.00	0.00		no errors	no errors		93.50
<b>117</b>	11	0	11		8.94	0.00		100.00	0.00		73.90
<b>118</b>	1	3	4		0.81	2.44		25.00	75.00		80.40
<b>119</b>	4	0	4		3.25	0.00		100.00	0.00		65.20
<b>120</b>	0	1	1		0.00	0.81		0.00	100.00		95.70
<b>121</b>	0	0	0		0.00	0.00		no errors	no errors		85.00
<b>122</b>	0	0	0		0.00	0.00		no errors	no errors		65.20
<b>123</b>	3	1	4		2.44	0.81		75.00	25.00		65.20

*Note.* ArtErr = articulation errors; PhonErr = phonological speech errors index; VMPAC = Verbal Motor Production Assessment for Children; Cutoff values for VMPAC: Within Normal Limits: 100-70, Mild: 69-63, Mod: 62-57, Sev: 56 and below.