

## Development of Individual Consonants in non-words by degree of hearing loss

### Children with Profound Hearing Loss and Cochlear Implants

Consonant Phone	0-6 mon	7-12 mon	13-18 mon	19-24 mon	25-30 mon	31-36 mon	37-48 mon	49-60 mon	61-72 mon
			n=1	n=8	n=9	n=8	n=3	n=4	n=4
p			0.0%	0.0%	33.3%	25.0%	66.70%	50.0%	0%
b			0.0%	62.5%	88.9%	87.5%	66.70%	75.0%	75%
t			0.0%	0.0%	22.2%	0.0%	33.30%	25.0%	0%
d			0.0%	62.5%	77.8%	62.5%	33.30%	50.0%	100%
k			0.0%	0.0%	0.0%	0.0%	33.30%	50.0%	0%
g			0.0%	12.5%	44.4%	25.0%	33.30%	50.0%	25%
glottal			0.0%	100.0%	88.9%	100.0%	100%	100.0%	75%
f			0.0%	0.0%	0.0%	0.0%	0%	0.0%	0%
v			0.0%	12.5%	11.1%	0.0%	0%	0.0%	0%
theta			0.0%	0.0%	0.0%	0.0%	0%	0.0%	0%
th			0.0%	0.0%	0.0%	0.0%	0%	0.0%	0%
s			0.0%	0.0%	22.2%	0.0%	33.30%	0.0%	25%
z			0.0%	0.0%	0.0%	0.0%	0%	0.0%	25%
sh			0.0%	0.0%	22.2%	12.5%	66.70%	50.0%	0%
zh			0.0%	0.0%	0.0%	0.0%	0%	0.0%	0%
h			0.0%	75.0%	77.8%	50.0%	33.30%	50.0%	25%
ch			0.0%	12.5%	0.0%	0.0%	0%	50.0%	50%
dz			0.0%	12.5%	0.0%	0.0%	33.30%	0.0%	25%
m			100.0%	100.0%	100.0%	100.0%	100%	75.0%	75%
n			0.0%	50.0%	55.6%	62.5%	100%	75.0%	75%
ng			0.0%	0.0%	11.1%	0.0%	33.30%	25.0%	0%
l			0.0%	12.5%	22.2%	37.5%	33.30%	0.0%	0%
w			0.0%	37.5%	77.8%	87.5%	66.70%	50.0%	75%
j			0.0%	25.0%	66.7%	50.0%	0%	0.0%	25%
r			0.0%	0.0%	0.0%	12.5%	0%	0.0%	0%

established (purple) = 50% or more of infants produced consonant 2 or more times

emerging (green) = 25 to 49% of infants produced consonant 2 or more times