

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

### Children with Profound Hearing Loss and conventional amplification

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	73-85 mon
	n=4	n=12	n=17	n=13	n=20	n=16	n=9	n=7	n=4	n=3
p	0.0%	0.0%	5.9%	7.7%	10.0%	6.2%	33.3%	0.0%	25.0%	66.7%
b	0.0%	8.3%	29.4%	30.8%	60.0%	75.0%	77.8%	71.4%	75.0%	66.7%
t	0.0%	0.0%	5.9%	15.4%	5.0%	12.5%	11.1%	0.0%	25.0%	0.0%
d	0.0%	16.7%	29.4%	23.1%	40.0%	43.7%	44.4%	42.9%	50.0%	66.7%
k	0.0%	0.0%	5.9%	0.0%	5.0%	6.2%	0.0%	0.0%	0.0%	33.3%
g	50.0%	8.3%	11.8%	7.7%	20.0%	25.0%	33.3%	28.6%	0.0%	0.0%
glottal	100.0%	100.0%	88.2%	92.3%	95.0%	100.0%	88.9%	100.0%	100.0%	66.7%
f	0.0%	0.0%	11.8%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%
v	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%	14.3%	0.0%	0.0%
theta	0.0%	0.0%	0.0%	0.0%	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%	0.0%	0.0%	0.0%	0.0%
s	0.0%	0.0%	0.0%	7.7%	0.0%	6.2%	0.0%	0.0%	0.0%	0.0%
z	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
sh	0.0%	0.0%	5.9%	0.0%	10.0%	0.0%	0.0%	14.3%	0.0%	33.3%
zh	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
h	25.0%	50.0%	64.7%	76.9%	50.0%	37.5%	44.4%	14.3%	50.0%	66.7%
ch	0.0%	0.0%	5.9%	7.7%	0.0%	0.0%	0.0%	14.3%	0.0%	33.3%
dz	0.0%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
m	75.0%	91.7%	94.1%	69.2%	80.0%	93.7%	88.9%	85.7%	100.0%	100.0%
n	25.0%	33.3%	41.2%	38.5%	40.0%	56.2%	66.7%	42.9%	75.0%	66.7%
ng	25.0%	0.0%	0.0%	7.7%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%
l	0.0%	8.3%	5.9%	0.0%	5.0%	12.5%	11.1%	0.0%	0.0%	0.0%
w	0.0%	41.7%	17.6%	23.1%	35.0%	31.2%	22.2%	71.4%	75.0%	66.7%
j	25.0%	25.0%	29.4%	23.1%	30.0%	50.0%	22.2%	85.7%	50.0%	0.0%
r	0.0%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	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