Critical Review: The effect of sign language on spe

sign to spont neous speech Further, it w s found the p rticip nt pri ri y produced words she h d seen the c inici n sign, with on y of her produced words not initi y signed y the c inici n The uthor conc uded th t there w s contingent re tionship suggested etween the p rticip nt s signed nd or e pression nd th t the signing f ci it ted r ther th n i peded her e pression As with c se studies, the or S s pe nd ck of e peri ent contro re i it tions, however the det i of the d t co ected nd ength of the study ow for etter picture of the ong ter effects of signing on speech th n so e of the ore contro ed e peri ent designs

DiCro Strick in & Bn jee ined the effect of nu signing on the e co unic tion of oth de yed nd nor preschoo setting Nine chi dren todd ers in with dis *i* ities were included in the study which e p oyed u tip e se ine design cross two groups The study e ined the chi dren in four ctivities one which w s contro throughout nd three where the te cher eg n to use tot co unic tion in her the chi dren The inter ctions with unic tions of the chi dren were recorded co nd descriptive st tistics of the group s who e were provided An ysis reve ed th t there w s ini incre se in the chi dren s signing nd The chi dren their ver iz tions with dis *i* ities were e sured s h ving se ine ver iz tions t nd 4 t intervention, while there will no children in ver iz tions during the contro ctivity A jor i it tion of this study is the f ct th t the resu ts re provided for the group, r ther th n ining the eh viour of the individu e p rticip nts It is not possi e to deter ine whether or not the incre se in ver iz tions w s the chidren or if so e evident cross chi dren showed decre se in ver iz tions whi e others showed rger incre se, resu ting in the over incre se A positive spect of this study is the f ct it e ined perfor nce in ore n tur environ ent th t the other studies, which took p ce in priv te ther py sessions

Four of the studies used n tern ting tre t ent design to co p re two intervention ppro ches within sing e su ject The first of these y Sisson & B rrett 4 co p red the use of tot co unic tion speech nd sign to speech one in tr ining sentences to chi dren ges 4 with deve op ent dis i ities Fo owing se ine testing tr ining took p ce twice d y once using e ch e peri ent condition In oth e peri ent conditions chi dren were t ught equiv ent sentences through the use of ch ining te ching one word to criterion nd then dding second word In the tot co unic tion condition chi dren received signed nd spoken pro pts nd were

e to respond with speech nd or sign, whi e in the or condition they received on y spoken pro pts nd required spoken responses The resu ts showed th t tot co unic tion f ci it ted stery for two of the three chi dren whi e or tr ining yie ded on y s g ins The re ining chi d who w s the youngest, showed so e g ins in oth conditions ut ess differenti ted effects The rese rchers suggested that the ge of the chi d yh vehd n effect on his perfor nce No tests of st tistic signific nce were perfor ed on the d t ut r ther provided in gr phs, which kes it difficut to deter ine the signific nce of the difference seen etween the two conditions

The re ining three tern ting tre t ent designs were y one group of rese rchers nd si i r design for e ch study, whi e used ining different questions In C rke e Re ington & Light the cquisition of signs that were not were not in the receptive voc u ry of the chi d were co p red Three chi dren ges with deve op ent dis i ities, p rticip ted In C rke, Re ington, & Light the cquisition of signs using tot co unic tion nd sign one tr ining were co p red Four chi dren, ges with deve op ent dis i ities, p rticip ted Fin y, in Re ington & C rke they co p red the cquisition of signs using Differenti Sign Tr ining nd E tensive Sign Tr ining This study invo ved five chi dren etween the ges of three studies fo owed 4 nd Α n tern ting tre t ent design in which the chi dren, fo owing se ine testing p rticip ted in two d i y sessions, one for e ch e peri ent design The p rticip nts were t ught sing e words fro picture referents using eh viour reinforce ents nd the p rticu r e peri ent condition unti the chi dren de onstr ted cquisition of the word After the tre t ent period post tre t ent testing w s co p eted to ssess the p rticip nts cquisition of the signs A three studies so inc uded ssess ent of speech production nd so c n e e ined for the effects of sign on speech production

Reference	Design	Goal of Study	Participants	Intervention	Reported Effects on Speech
C rke Re ington & Light	A tern ting tre t ents co p rison of known vs unknown words	Te ch sing e words	chi dren with MR ye rs o d	D i y tr ining sessions using Tot co unic tion nu sign speech with picture referents	Incre se in chi d chi dren unknown
C rke Re ington & Light	A tern ting tre t ents co p rison of tot co unic tion vs sign one	Te ch sing e words	4 chi dren with MR ye rs o d	D i y tr ining sessions using Tot co unic tion or sign one with picture referents	Incre se in chi dren
DiC r o Strick in & B n jee	Mu tip e se ine te cher directed tot co unic tion intervention cross c ssroo ctivities	Te ch sing e words	chi dren with v rious di gnoses ye rs o d	Te cher ode ing of Tot co unic tion in structured d i y c ssroo ctivities	Incre se reported s group
ouri	Tre t ent withdr w	Te ch sing e words	chi dren with v rious di gnoses 4 ye rs o d	Twice week y tre t ent of chi d oriented ode ing of tot co unic tion	Incre se in chi dren decre se in chi dren
ouri	Longitudin c se study	Te ch sing e words	chi d with Down syndro e ye rs o d	Twice week y tre t ent of chi d oriented ode ing of tot co unic tion	Incre se
Re ington & C rke	A tern ting tre t ents co p rison of Differenti Sign Tr ining vs E pressive Sign Tr ining	Te ch sing e words	4 chi dren with MR 4 ye rs o d	D i y tr ining sessions using tot co unic tion differenti or e pressive conditions using picture referents	Incre se in chi dren, no ch nge in chi d
Sisson & B rrett 4	A tern ting tre t ents co p rison of or vs tot co unic tion	Te ch word co in tions	chi dren with MR <b>4</b> ye rs o d	D i y tr ining sessions of sentences using ch ining with or or tot co unic tion using picture referents	Incre se in chi dren

<b>ble 1</b> Studies invo ving sign intervention with docu en	nted speech production outco	es in chi dren with deve op	ent	dis	i ities

MR Ment Ret rd tion