Psychometric Characteristics of Visual Feedback Scale in Deaf Cochlear Implants

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Abstract

The current research aimed to identify the psychometric properties (validity and stability) of the Visual feedback scale for the deaf cochlear implants. The research sample included (30) deaf cochlear arms; The research procedures were also based on the Visual feedback scale for deaf cochlear implants (prepared by the researchers). The results of the research concluded that the Visual feedback scale has an acceptable degree of validity on a sample of deaf cochlear implants; The researchers also concluded that the Visual feedback scale has an acceptable degree of stability on a sample of deaf cochlear implants.

Keywords:Scale, Visual Feedback,Deaf Cochlear Implants
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of sign language; today most deaf children are electronic cochlear growers; They can reach Ahmadi, Sani, farnoosh, & Sani level of linguistic proficiency
;2017)Geers, Strube, Tobey, Pisoni, & Moog, 2011(
Electronic cochlear implants are therefore of great importance; It helps deaf children with auditory sensory and neurological loss to hear external sounds, reaching unprecedented levels of spoken language abilities(Qiao, & Yang, 2018; Ruden,Dai, Zhao, Shen, Zhang Lei 2018)
Before the advent of cochlear implants, most children with deep hearing impairments had

Introduction :

Deaf is the most potent sensory disability in humans. Among 26 pre-adults, early deafness is caused by genetic ,while the rest is due to bylaws factors or other reasons.
Traditional hearing devices benefit some religious patients who are impairedLiu, 2014, P156) hearing, but not for all types of hearing impairment
Before cochlear implants, most children with deep hearing impairment had little or no opportunity to calculate spoken language, and only a few number of deaf children who were speech-readers with high abilities can learn a spoken language as well as or instead

This is illustrated by: (Ruscello, 1995, P 298-299) S in its large syntax (S) in improving the production of sounds,Words and sentences .. (Michi, .Yamashita, Imai, Suzuki, & Yoshida, 1993)

From the foregoing, it can be said that the feedback has a great impact on the student's pronunciation learning, especially at the definitive level (consonants and vowels): It plays a major role in achieving the goals of communication and conveying ideas by using as much as possible tacitly acquired knowledge, and that these clear implications have a significant impact on the diminution of meaning (message comprehension) and transcendence (ability to understand). It also generalizes tang speech from the production of restricted speech during training sessions to the production of unrestricted speech in other sales, such as "long sentences" (narrative, "new offerman")0lson, 2016, Pp.45-59

It is clear from the beginning that it is important to use a visual feedback scale for deaf cochlear grower children in various situations of daily life, which is highly illiterated in order to adjust the sound rate and achieve active communication. It is important to identify strengths and weaknesses, and to establish durability between what has been achieved by the deaf cochlear grower and the goal to be achieved by which the required adjustments are made to achieve the desired goal

The problem of thestudy:

It can be said that 91 to 98 pupils with speech disorders did not respond to traditional methods while a number ofHey, hey, hey, hey, hey.

It can be said that 91-98 of the students with speech disorders did not respond to traditional methods, while a number ofnew methods of intervention to improve persistent phonological errors, such as those related to the itchiness of phonemic sounds.

N Late voices: A growing body of evidence suggests that little or no opportunity for spoken language, and only afew number of deaf children who were highly capable of being speech readers can learn a spoken language with or instead of a sign language. Today most deaf children are electronic cochlear growers; They can reach high level of linguistic proficiency(Ahmadi, Sani, farnoosh, & Sani) 2017)Geers, Strube, Tobey, Pisoni, & Moog, 2011: (

Thus, cochlear implants are of great importance: they help deaf children with auditory sensory and neurological loss to hear external sounds, reaching unprecedented levels of spoken language abilities

(Dai, Zhao, Shen, Zhang, LeiQiao, & Yang, 2018; Ruden, 2018Qiao, & Yang, 2018; Ruden, 2018)

Sense of sight, on the other hand, one of the most important cognitive processes at interaction with albinism in daily life, and vision may dominate other senses during recognition More recently, seeing information has appeared :Nesbitt, 2003) Visual information Several magazines using visual feedback, including the use of visual feedback to examine the phonetic domain's orbital orbital hops

(Hoffman, Rives, Surender)Devine, & Jiang, 2013, P.15

Visual feedback seeks to help children not only hear their own errors, but see those errors of interest, modify vowels and consonants through training, correct inset errors, including "a" sound, and produce objective-like sounds "Offerman, & Olson, 2016;").

Visual feedback ensures that the pupil gains greater awareness and control of physiological functions while controlling aspects of speech that relate to an effective tool for those who may not or may develop correct sound production through traditional methods

, (Volin, 1998) Byun, Hitchcock, p. 8).

various difficulties preventing them from reaching the goal

Based on this, the current search problem could be stated in the following questions:

(1)Why is the first version of the visual feedback scale for deaf-cochlear growers provided with an acceptable degree of authenticity on a sample of deaf-electronic cochlear growers?

(b) Why is the first version of the visual feedback meter for deaf ECC growers available with an acceptable degree of plates on a sample of deaf ECC growers?

Aim of the study:

1- The current research was aims at identifying the psychometric characteristics of deaf chrone cochlear growers; (2) to determine to what extent it is useful to assist deaf chrone cochlear growers in correcting and developing accurate production and control of endeavor tasks, by detecting their actual level of various visual tasks, and to achieve the desired goal through a series of comparations between the actual goal and the desired goal.

The current research focuseson providing a measure of Vesarean feedback for deaf electronic chirp growers, which is one of the most important measures and tools used to detect their actual level in various auditory tasks and to achieve their goal by making comparisons between the actual goal and the desired goal.

KH: Procedural concepts of Deaf research Zari Taouka Ekronic are procedurally defined as: Deaf who have notbenefited from the use of traditional hearing AIDS; And then they use an auditory electronic device that gets surgically implanted in the cochleaInner ear: which functions immediately after sciencesurgical and the success of surgically deploying the electron signature device to the inner cochlear: hearing is engulfed by a spherical artery, different fromnormal amplitude; This is done by electrical activation in theTHE INNER COVIL, WHERE it Sound processing may include visual biological feedback. Studies suggest that tongue movements can be modifiedusing visual feedback through the wave images above

Real-time audio: This method is useful for processingthe vocal sequences of the word in the current students, as you have been able to Preston, Brick, 8) address subsequent phonologically similar sounds

And all the handling of the vote of the year :(Landi, 2013, P.621)

SOT/R which is a sound of sound complexity Adler-Bock, Bernhardt, Gick, & Bacsfalvi, 2007

Modha, Bernhardt, Church, & Bacsfalvi, 2008; Shuste Ruscello, Smith, 1992; Shuster, Ruscello, &Toth :.199

The area has been shown by the physical coexistence of deaf cochlear growers in various communication units, especially

Sharqiya Governorate says they are having problems achieving various tasks targeted and the attainment and accomplishment of the objectives concerned

They align the different goals, and they have problemsleading their performance in making comparisons between actual and target skills

In view of the foregoing and the absence of studies in the Arab world in general and in Egypt in particular, to the extent that the area is accessible, the treatment of the palate feedback of deaf claimants is very important, despite the fact that the spanula is particularly important; In addition, there are general or specific criteria for visual feedback on any disability, particularly on deaf cochlear implants; No research has ever targeted the psychometric characteristics of visual feedback, public or private, on any number of disability issues, in particular for deaf electronic cochlear growers. This is why the current research is intended to bridge the gap in this area so that deaf cochlear growers can be helped to overcome the

NewYork, 1995, is the first treatment for babies that are born deaf or deaf adults after birth Richter, Eibele, Laszig, & Lohle,2002)

(2) Electronic cochlear implant concept

Derinsu, Yuksel, Gecici, Ciprut, & Knows all of Akdeniz, (2018); Jang, Mon, Chow, Park, &Choung

Ringing Cattle: Martin, & Gil (2017)

Deaf children as "a highly effective surgical procedure for the treatment of people with disabilities with severe neurosensory and hearing loss Deep people who do not benefit from the use of traditional hearing AIDS .This electronic device is able to compensate for the function of lost or lost hair cells inside the inner ear by converting sound energy to an electrical level to directly stimulate the auditory nerve .Tracking the fundamentals to the rhythmic level to roast... the nerve tiger attribute the rest.

"**The deafness** of an electronic cochlear implant is still defined as deaf persons who have not benefited from the use of traditional hearing AIDS and who then use an audiotronic device that is surgically implanted in the inner cochlea and that works immediately after the surgical procedure. Unlike normal hearing, hearing occurs electronically through electrical activation within the inner cochlea: it directly activates the ganglionic cells protecting against the cochlear nerve, bypassing the damaged hair cells in the cochlea; Thus, it allows the deaf." to develop speech and language in a manner that is normally shielded.

(4) Benefits, advantages and results of an electronic cochlear implant is of great importance as it is worsened

Deaf children with auditory sensory loss cannot hear external voices and have reached unprecedented levels of spoken speech abilities. The success of cochlear implant is associated with lymphosis in deaf cochlear implant children

)Qiao, & Yang, 2018; Ruden, 2018 Dai, Zhao, Shen, Zhang, Lei)

is activitated in the ACTIVATESCELLS DIRECTLY

Remaining streptococcus from the cochlear nerve, bypassing cells , and MARO SAP damaged cochlea hair It then allows the deaf to develop "speech and language in an almost normal way.

Visual feedback personalization of the deaf by spherical anticipators is defined by the area as a method of feedback; Aims at improving access to and delivery of visual eyesight functions: by making comparisons between actual and target visual functions; concerned with all that has been done and the performance consequences; It is presented at the right time and in a low form by a teacher or a speech therapist and a computer assistant, and may be self-directed by a deaf Ekroon cochlear grower itself. Or any other means to help deaf cochlear growers improve and correct their tools

The conceptual framework

Deaf electrocochlear growers(1)

This is addressed in the following manner:

This is addressed by:

Hearing armpits and echinococcal transplantation for the deaf (x5,3) Other global estimates indicate that 360 million people (32 of the world's population) suffer from hearing loss, including

Of children, it is also estimated that X 9 softener prevalence of hearing loss in children is greatest in South Asia and Asia.

(The Pacific and Sub-Saharan Africa

Nanjundaswamy, Prabhu, RajannaNingegowda, & Sharma, 2018)

Sensorineural hearing loss is the most common type of auditory loss in the world, resulting in damaging the cochlea or auditory nerve, and many areas are frequently synchronized; Therapy focuses on restoring hearing to unheard voices due to a loss of Hopkins acoustic: through an electronic cochlear implant (2015)

Since the National Institutes of Global Health Consensus Conference was held in

the NIH Consensus Conference was held in

In both ears, or without electronic signature in one ear (the use of hearing AIDS in the other ear will enhance hearing
Spatial.
Electroacoustic implant modulation, combining acoustic and electrical stimulation simultaneously, is designed for those who want to maintain a low-frequency listening. Assisting speech aid in noise X - regenerating hair cells through an electronic cochlear implant that stimulates auditory neurons, with or without electrical stimulation
H - The brain stem of those who were born without auditory nerves or have Archbolg, O'Donoghue, 2009) is implanted with severe cochlear deformity (P.462
Visual feedback canons and deaf ETA growers: H: l Visual feedback concept
Baciu, Acher, Kauffmann, Cousin, and Boilley are known as
Hueber, Badin, & et al. (2016)
It is "a system of ultrasound with video images that allows patients to see (their lips and tongue are circulatory vases and are working on
Their colorful mumbo tale. I read them.
hImprove their awareness of their tongues and orals and improve their ability to coordinate and combine phonemes.
Visual feedback for deaf cochlear growers is defined by the area as "a method of feedback; Aimed at improving access to and accomplishing different visual tasks: By making comparisons between actual and target visual tasks, they are concerned with all that has been done and performance consequences and are presented in a timely and different manner by a teacher or speech therapist with the help of a computer. Or any other way to help deaf cochlear growers improve
And correct his instrument.
(b) Areas using visual feedback
Recently, several areas using the visual feedback have come to light, among them assisting the checking parties by the grip

On the other hand, it may be argued that for a deaf child there may be a considerable degree of interest that may be shown as follows:
A-Electronic cochlear implant is a safe procedure with significant benefits. The researcher is going to talk about them. .
For the deaf, it has few complications even in infants, although it requires a high cost
B - The best tang is obtained when the cochlea is implanted for early deaf children.
c-signature cultivation helps deaf-disabled natural cognitive abilities, that children acquire and understand language
They're fluent, they're on the phone.
D. Deaf children who grow electronic cochlear implants have been entitled to progress in reading, depression and academic achievements compared to children who suffer Hearing loss
.E-A large number of deaf cochlear implants go online to the national schools, instead of private schools
f- Cochlear implants are not just for deaf children but for people with, complex disabilities
g. Deaf adolescents who have lost their hearing after gaining a vocabulary benefit and are willing to communicate auditory with others through electronic cochlear implants
h. Children enjoy and appreciate the rhythmic features of music after an electro cochlear implant, but contemporary references only convey a poor tendency to refer to musicsignals only transmit an impoverished representation .of the music signal
i) Michaelic implants (electronic cochlear implants in bothAdenine) Improves noise listening and localization capabilitiesDudlin is well advised to allow the squads and the regentssound abilities
j. Contradictory conditions - typical classrooms - providing hearing in both ears - through ecchlearimplants.

lips, their tongue, vases of speech, and improves their awareness of their tongues and oral movements and their ability toThey are in the middle of the night, in the middle of the night.
Deaf: And it has few complications even in infants, although it requires a high cost
Of monsoon. THE BEST TANG IS GENERATED WHEN THE COCHLANG IS TRANSPLANTED
Chronic for early deaf children.
The electronic anticipation arm helps the majority of deaf children with
Natural cognitive abilities as they acquire and understand language.
They talk fluently, they use a phone.
De-deaf cochlear growers have earned the right to progress in reading, depression, and academic achievement compared to children who suffer
Hearing loss.
A large number of electronic cochlear implant deaf children go to public schools instead of private schools h Cochlear implants are not limited to deaf children but include people with complex disabilities
X. Deaf adolescents who have lost their hearing after acquiring their vocation benefit and are willing to auditorially communicate with others through echronic cochlear implants
D. Children enjoy and appreciate the rhythmic features of music after an electronic cochlear implant, but contemporary references are just as short of musical as contemporary
signals only transmit an impoverished representation .of the music signal
I have observed that the thymus arm (chiral clam) in both
Ears) Improves noise listening and sound localization capabilities... Psychometric characteristics of toxic feedback
Pa.
:-Visual feedback illiteracy
A number of points of interest may be seen as follows:
(1)Visual retrospective learning tasks.
force applied in determining the applicable grip force
A prosthetic hand. Visual feedback has been used to improve
Walking people with walking disorders. Just like you said.
Use visual feedback to study specific applications in the acoustic field. Where I use a portable, flexible device to reduce the altitude
Excessive voice in people with cognitive deficits.
Hoffman, Rieves, Surender, Devine, & Jiang, 2013,)Ed Dylan, you better get your head straight.
soundا ocalن sation abilities
Circumstanties-typical of classrooms-provide capacity in both ears through electronic cochlear implants.
In CAL ears, or through an electronic chord in one ear.
Using hearing AIDS in the other now enhances hearing.
Spatial.
G - The development of electroacoustic implants, which combine electroacoustic and electrical stimulation in the same ear, was designed for the first
They want to keep their low-frequency hearing.
Help with speech performance in noise.
C. Capillary cell regeneration through electronic cochlear implant
That will stimulate the auditory nerve, with or without stimulation.
The electrician.
H. The brain stem of those born without auditory nerves or with Archbolg O"Donoghue, 2009) is implanted with severe cochlear deformity (P.462
:-Dania visual feedback and EC-deaf: the concept of visual feedback
Baciu, Acher, Kauffmann, Cousin, and Boilley are known as
Hueber, Badin, & et al. (2016)
It is "a system of ultrasound with video images that allows the disease to see (their

Visual feedback is an effective method for those who have not been able to develop correct sound production through traditional methods

... Psychometric characteristics of toxic feedback

Improve their awareness of their oral and verbal movements and improve their ability to coordinate and synthesize phonemes.

Visual feedback for deaf cochlear growers is defined by area as a method of feedback; It aims to improve access and fairness to various visual tasks by making comparisons between actual and target visual tasks: it is concerned with all that has been done and performance consequences, is presented in a timely and different manner by a teacher or speech therapist, and with the help of a computer can be self-centered, either within the deaf deaf Ekronic anticipator himself or by the peer... Or any other way to help deaf cochlear growers improve

And correct his instrument.

-(b) domains used for visual feedback

Recently, several areas using visual feedback have come to light, among them assisting the amputated parties by the grip force applied in determining the applicable grip force

A prosthetic hand. Visual feedback has been used to improve

Walking for people with walking disorders, mute

The use of visual feedback in the study of acoustic field applications. Where I use a portable face to reduce the height

Excessive voice in people with cognitive deficits.

Hoffman, Rieves, Surender, Devine, & Jiang, 2013,)-:(c) Optical reference and writing skills

School-age pupils rely on visual feedback to produce different letter movements by following different movements (movements are stored topokinetic (movements are specialized movements for each character in long-term memory

Visual feedback can be said to improve student performance in various educational tasks, including comparing figures, and the Nava, Rinaldi, task.) Comparing time and... Other teaching assignments

)Bulf, &Cassia, 2017, P.161

The nonverbal styles of visual feedback can be said to have contributed to students' understanding of Killingback, Ahmed, and Williamsa

,2019p. 33-38.

(2):-Visual feedback and acoustic characteristics

Visual feedback footwear can help learners not only hear their own errors, but see these errors of interest, modifying vowels and consonants by modulating, correcting inner-word errors such as "for" sound and offerman, &0lson, 2016, (PP) objective-like sounds(3) Visual feedback, speech learning or speech disorder - (learning and understanding sounds and speech) or

Feedback may improve the recognition of the letters that Molinaro, Dunabeitia, and visible words contain

Marin-Gutierrez, & Carreiras, (2010, P.1343)

Ee, Hsu, Chang, Chen, & Chao) Visual Words Recognition

,2015)P. 535

Visual feedback can be said to enhance the understanding of words for young children; And then I'm going to go back to work.

Killing, & Bishop, 2008, (P. Linguistic 525.

Visual feedback from doza beza also suggests an increased rate Ochi, Mori, Sakai, and Aoki-Ogura, a rhetorical reading for a pupil

Suemitsu, Dang, Ito, (5 201) as she pronounce them, P.217.

&)Tiede, 2015.

Visual feedback also plays a major role in speech learning: by increasing amplitudes of motion

Yunusova Kearney, Kulkarni, Haworth,Baljko &Faloutsos, 2017

(4)-Visual feedback and audio production

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provided to students provides visual information that assists students in distrauting in accordance with and within the specific spatial organization; it also assists in accurately forming the sequences of movement; it also assists students in holding and pressing the pen correctly and consistently, writing their names, theirs and alphabetical letters on specific lines in specific written areas or writing sentences on lines; and transcription of geometric figures in specific volumes In advance.

.Guilbert, Alamargot, & Morin, 2018, PP. 9-(11)(

(d) Visual feedback methods: e

Visual feedback provides a number of monographs that may be demonstrated by regular periodicity.

(a) Optical biological ultrasound feedback... Psychometric characteristics of toxic feedback

Visual feedback sought to help teachers not only hear their mistakes, but not see them; The effectiveness of visual feedback in Saito training (i.e., vowels and consonants) has recently been emphasized at the polar level

,2007)P. 16.

Visual feedback played an important role in CT production and can work well in Olson classs.During speech training to improve students' language skills

,2014)P. 173

Visual feedback would lead to doza maha in audio production

Kartushina, Hervais-Adelman, Frauenfelder, 8(

Golestani, 2016, P. 21.

B) Visual feedback and interactive stories

Some video (reactive shearing) without the use of auditory feedback can be said to be more effective; It makes the viewer feel present and independent, and gives the viewer the ability to be in a scene and look at people and objects that attract attention Thus, it can be argued that the use of auditory feedback during the video

)Zesiger, Deonna, & Mayor, 2000.(

Visual feedback contributes to addressing the depressant process, where science caters to pupils' depression and monitors their texts by rereading and judging their handwriting by adjusting their systems. Allowance

Therefore, each of the downtime processes requires information to be retrieved from

Working memory; The relationship between working memory resources has been achieved

Vision suspension processes manual depressed vessels mainly by comparing students who apply normal visual feeding requirements

With pupils in the case of no return effectiveness (e.g,.

Pupil perforation using a pen without ink); And you were disfigured.

Studies in this context suggest that false feedback

In general, demands for depression have been increased, as children learn

Depression turned out that the quality of writing gradually decreased with nutrition.

Increasingly degraded feedback. The same phenomenon has been observed between the digits with the unink pen, resulting in the formation of exact characters other than Olivee, & Piolat, 2002, P.) (inaccurate omission or addition

214-210).

The cauldron is considered the peg of the V feed bowlVisual feedback is the most appropriate type of feedback to provide learners with a kinetic understanding of their performance, understanding and typing typing, the spatial arrangement of text in the space between letters, words, punctuation, handwriting and calligraphy

Loup-Escande, Frenoy, Poplimont, Thouvenin,

)Gapenne, &Megalakia,2017, P.42-43

Visual feedback contributes to the development of students' handwriting skills in the classroom. The visual feedback

that the pupil's preference for written feedback for teachers is also conscious that teachers control grades and motivate students (Zacharias, 2007, P.38) to reach what is needed.

Gass, 1997; Sheen, 2007, 2010; Li, Link& ,

Hegelheimer, 2015.

It can be said that written feedback will improve student writing by helping them understand what kinds of mistakes they were making and why those errors were not true. It will help build a relationship between teacher and student... Psychometric characteristics of toxic feedback

(a) Optical biological feedback through ultrasound:

Preston, Leece, & Maas, (2016)

Visual ultrasound imaging as "a non-widely available technique used as a visual feedback and a useful therapeutic method in the treatment of speech disorders in pupils, providing pupils, including those with hearing impairments, with additional knowledge of the correct tongue positions when attempting to produce false sounds, thus facilitating speech production in a more consistent and accurate manner of sounds and syllable rather than a cursive tones (i.e. whether sound is being produced) correctly/incorrectly

A common use of visual biological feedback in mimetic speech therapy is the use of a mirror to provide visual feedback around lip and jaw movement during vocal speech; However, the/L/tongue gestures cannot be easily seen with the mirror due to the lip proximity and forgetfully opening of the oral cavity Thus, physicians have to rely on phonological information (Secord, Boyce) to infer the desired tongue position.

Donohue, Fox, & Shine, 2007

The American Institute of Ultrasound in Medicine and the Scientific Union of Ultrasound in Medicine and Biology have concluded that UItrasound imaging procedures are for ultrasound

Epstein of the tongue- (Feature) (2) Wellness presentation (interactive storylines) lessened the sense of "being in the world"

Vosmeer, Roth, & Schouten) "The story

.(2015)

(h) Visual feedback and writing skills... SECO METERS OF AUDIOUS FEEDING

(2)Optical synchronous (immediate) and final (backward) nutrition feedback

Delayed visual feedback can be said to adversely affect the

Morikiyo, Matsushima, 1990, P.111. Producing Words

Instant visual feedback from visual perception capabilities

Sigrist, Schellenberg, auter, Broggi, and cognitive processing

).Riener, & Wolf,2011, P. 15

Simultaneous visual feedback serves an important role in correcting errors and attempting to communicate the concept in different learning tasks Late visual feedback is most effective (Sigriste,) because it emphasizes understanding the various aspects relevant to the tasks

Rauter, Riener,&Wolf, 2013

Visual feedback types: d

A study both indicates that Huck and Ass for explicit feedback can be P703(

Through me: h

(1)textual visual feedback; (2) symbolic visual feedback.

It can be said that children prefer to use textual rather than vocal feedback in discussions because they find that reading messages

Eh.... Metric ecotoxicological feedback properties

Ice, Curtis, textual messages are easier and faster to read than to listen to the voice

.Phillips, &Wells, 2007

:-(Text) 1 Dial Comfort(

Packaged feedback can be indicated by the number -: the following dots

:-Duct (text) and children

It can be argued that a pupil who posts feedback written by Bitchener can improve accuracy over time (2008). It can be argued

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First, the photos and video clips allow the student to learn language to view context, body language, facial expressions, and... Other scenes. Qanya: Pictures and videos bring the real world to the classroom

:-(b) Feeding back and animation

It can be argued that fallback feeding helps pupils in Lin, et al. , 2013, P) Alcatab Computer Animation.(2)

Homework

Given the objectives of the study and its conceptual framework, and given a thorough review of previous studies, the current research hypotheses can be determined later... Psychometric properties of toxic feedback

Number

0.01D

:-Ufdiyya returns visual and symbolic images ()

:(Schaller, 1980) Help pictures help understand the text, and the following may help feedback that includes student images

Stock and Kulhavy review their understanding of what has been read. (1989) you can say that image feedback plays a big role.

(Carney, &Levin, 2002, P. 5) in improving learning

According to Walker, & White (2013)

Visual patterns, such as monographs or monographs, may aid in language learning in a variety of ways:

Correlation coefficien	The number	Correlation coefficient	The number	Correlation coefficient	The number
**0,399	43	**0,578	22	**0,639	1
**0,494	44	**0,622	23	**0,754	2
**0,576	45	**0,668	24	*0,434	3
0,264	46	**0,718	25	**0,633	4
**0,527	47	**0,595	26	**0,854	5
**0,666	48	**0,569	27	**0,673	6
**0,517	49	**0,536	28	**0,639	7
*0,405	50	**0,567	29	**0,645	8
0,314	51	0,312	30	**0,725	9
**0,622	52	*0,440	31	*0,418	10
**0,651	53	**0,751	32	*0,421	11
*0,461	54	**0,550	33	**0,650	12
*0,442	55	**0,617	34	*0,409	13
**0,608	56	**0,715	35	**0,636	14
**0,695	57	**0,488	36	**0,707	15
**0,603	58	**0,629	37	**0,517	16
**0,621	59	**0,854	38	*0,405	17
**0,531	60	**0,672	39	*0,399	18
*0,424	61	**0,648	40	**0,689	19
**0,564	62	**0,645	41	**0,663	20
		**0,725	42	*0,441	21

0.05D at a level*

This means that all statements of the metric are consistent. Except for these bars, they are not fourth and are omitted

From the table it can be seen that all correlation coefficients are a statistical function, except for the number statements: (30) (46) (51) of visual feedback dimension.

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Table () Correlation Coefficients between Phrase Grades and Parent Grades)Deleted(

For the auditory and visual feedback scale for deaf-apical growers (n = 30 deaf-echronic cochlear growers), the visual feedback feature

Link coefficient deleting the statement Number link coefficient and deleting the statement Number link coefficient

The first imposition states: "The first version of the visual feedback scale for the deaf electronic cochlear growers has an acceptable score." Validity was calculated by calculating the correlations between speech grades and the dimensions to which it is intended (minus phrase score) Sold: The sum of the scores of the rest of the statements tested by the statement and the results are as follows

Visual feedback					
Correlation coefficient omitting the expression	The num ber	Correlation coefficient omitting the expression	The number	Correlation coefficient omitting the expression	The number
**0,374	43	**0,544	22	**0,607	1
**0,477	44	**0,589	23	**0,734	2
**0,540	45	**0,639	24	*0,407	3
0,237	46	**0,684	25	**0,605	4
**0,494	47	**0,567	26	**0,825	5
**0,637	48	**0,540	27	**0,643	6
**0,489	49	**0,517	28	**0,611	7
*0,386	50	**0,537	29	**0,619	8
0,275	51	0,278	30	**0,694	9
**0,580	52	*0,418	31	*0,396	10
**0,628	53	**0,728	32	*0,397	11
*0,437	54	**0,531	33	**0,629	12
*0,411	55	**0,587	34	*0,389	13
**0,582	56	**0,683	35	**0,611	14
**0,667	57	*0,446	36	**0,679	15
**0,579	58	**0,598	37	**0,487	16
**0,684	59	**0,827	38	*0,388	17
**0,501	60	**0,645	39	*0,379	18
*0,396	61	**0,617	40	**0,661	19
**0,537	62	**0,623	41	**0,633	20
		**0,693	42	*0,419	21

It is clear from the table that all of the correlation factors are a horsepower function except statements number (30),(46) and (51) after visual feedback This means that all statements, except these five, are not true and are omitted

The German premise states: "Provides the first version of a scale 0.01 0.02

From the table it can be seen that the sum of the correlation factors is a horsepower function except for the architectures numbers: (30),(46) and (51) after a visual return This means that all statements, except these five statements, are not trueUh, ι.

p ** D at the level of

of deaf cochlear implants; The researchers also concluded that the Visual feedback scale has an acceptable degree of stability on a sample of deaf cochlear implants.

References:

Adler-Bock, M., Bernhardt, B., Gick, B., & Bacsfalvi, P(2007).
The use of ultrasound in remediation of North American English /r/ in 2 adolescents. *American Journal of Speech Language Patholo*gy. 16,128–139.
Ahmadi,h., Sani,H., farnoosh,G.,& Sani,M.(2017). Comparative study of speech and language development in children with normal hearing and cochlear implants in Iran. *Indian Journal of Otology*,23(3), 135-14.
Baciu, Acher, Kauffmann, Cousin, Boilley, Hueber, Badin, & et al.(2016). Effect of visual feedback on speech recovery and language plasticity in patients with post-stroke non- fluent aphasia. Functional MRI assessment. *Annals of Physical and Rehabilitation Medicin*e .e75-e76
Bitchener, J. (2008). Evidence in support of written corrective feedback. *Journal of Second Language Writing*, 17(2),102-118.
Buckingham, L., & Aktuğ-Ekinci, D. (2017). Interpreting coded feedback on writing: Turkish EFL students ' approaches to revision. *Journal of English for Academic Purposes*, 26, 1-16.
, T., Hitchcock, E., & Swartz, M. (2014). Retroflex Byun Bunched in Treatment for Rhotic Misarticulation : Evidence From Ultrasound Biofeedback Intervention. *J* Speech Lang *Hear Res*. 57(6), 2116-2130
Carney, R., & Levin, J.(2002). Pictorial illustrations Stillstudents' learning from text. *Educational* Psychology Review, 14(1), 5-26.
Crews, T., &Wilkinson, K (2010). Students' Perceived Preference for Visual and Auditory Assessment With E-Handwritten

Optical feedback for deaf chiral cochlear growers is acceptable on a sample of deaf chiral growers

The alpha coefficients of the dimensions (all dimension statements) were calculated, and then the alpha coefficients of the dimensions were calculated with the grade of each statement omitted, with the results shown
As follows:
Table () Cronbach cancel coefficients for toxic and visual feedback scale
D is the deaf cochlear grower (n = 30) is the deaf-grower of hunger (ecronic visual feedback
Alpha operand deleting the statement Number alpha operand deleting the statement Number alpha operand deleting the statement Numer
Correlation coefficient with the total score visual feedback scale
-2 **978,Visual feedback
Table ( ) of the stability coefficients of the split-half of the scale
Visual feedback in deaf cochlear implants (n = 30 deaf)
Stability with the Gottman equation Stability with the Spearman/Brown equation Visual feedback scale
-2 0.948 0.948 Visual feedback
It is clear from the previous table that all values of stability coefficients are high, which indicates the stability of the scale dimensions.
From the table it can be seen that adding the alpha parameters (omitting the statement)
Of the alpha-factor of the dimension to which the statement other than statements is meant is the numbers (30),(46) and (51) after visual feedback, where alpha amylates were omitted more than from the alpha coefficient of the dimension which
The phrase belongs to it, meaning that these statements are not fixed and are
He deleted it
Allah.Finally results of the research concluded that the Visual feedback scale has an acceptable degree of validity on a sample

sciencedirect-com.mplbci.ekb.eg/science/article/pii/S0167945718300939

Hoffman, M., Rieves, A., Surender, K., Devine, E., & Jiang,J(2013). Evaluation of Auditory and Visual Feedback for . Airflow Interruption. *Journal of Voice*, 27(2), 149-154

Hopkins, K. (2015). Chapter 27 - Deafness in cochlear and auditory nerve disorders. *Handbook of Clinical Neurology*, 129, 479-494.

Hopper, D., Berg, M., Andersen, H., & Madan, R. (2003). The influence of visual feedback on power during leg press on *elite* women field hockey players. *Physical Therapy in Sport,*4(4),182-186.,

Ice, P., Curtis, R., Phillips, P., &Wells, J. (2007). Using Asynchronous Audio Feedback to Enhance Teaching Presence and Students' Sense of Community. *Journal of AsynchronousLearning Networks*, 11 (2), 3-25

Jang, J., Mun, H., Choo, O., Park, H., &Choung, Y.(2018, October16). The speech perception after cochlear implantation: The hearing gain difference according to the implant systems is important?. Auris Nasus Larynx. *https://08101ojg3-1106-y-https-www-sciencedirectcom.mplbci.ekb.eg/science/article/pii/S0385814618306424*

Kartushina, N., Hervais-Adelman, A., Frauenfelder, U.,& Golestani, N. (2016). Mutual influences between native and non-native vowels in production: Evidence from short-term. visual articulatory feedback training. *Journal ofPhonetics* , 57, 21-39

Khan, M., Lawrence, G., Fourkas, A., Franks, L., Elliott, D.,& Pembroke, S. (2003). Online versus offline processing of visual feedback in the control of movement amplitude *Acta Psychologica*, 113, 83-97

Killingback, C., Ahmed, O., &Williamsa, J. (2019, January). 'It was all in your Feedback.*Communication ProfessionalBusinessandQuarterly*, 73(4), 399-412

Dai, C., Zhao,Z., Shen, W., Zhang,D., Lei,G., Qiao,Y., &Yang,S. (2018). Evaluation of Mandarin Chinese Speech Recognition in Adults with Cochlear Implants Using the Spectral Ripple Discrimination Test. *Med Sci Monit,* 24, 3557-3563.

Derinsu, U., Yüksel, M., Geçici, C., Çiprut, A., &Akdeniz, E.(2018). Effects of residual speech and auditory deprivation on speech perception of adult cochlear implant recipients. Auris Nasus Larynx, *https://08101ojg3-1106-y-https-ac-els--cdn-*com.mplbci.*ekb.eg/S0385814618301573/1-s2.0-S0385814618301573-main.pdf?_tid=48a77e50-f965-4b83-9054-eb1ffb314a99&acdnat=1540109163_37f415d70f7407fa48b2bb4e145ec8e9.*

Epstein, M. (2005). Ultrasound and the IRB. *Journal of Clinical Linguistics & Phonetics*, 19(6-7), 567-572

Fayt, C., Minet, M., & Schepens, N. (1993). Children's and Adults Learning of a Visuomanual Coordination: Role of Ongoing Visual Feedback and of Spatial Errors as a Function of Age . *Perceptual and Motor Skills*, 77(2), 659-669.

Ferris, D., & Roberts, B. (2001). Error feedback in L2 writing classes: How explicit does it need to be?.*Journal of* Second*Language Writing*, 10(3),161-184.

Geers, A., Strube, M., Tobey, E., Pisoni, D., & Moog, J. (2011). Epilogue: factors contributing to long-term outcomes of cochlear implantation in early childhood, *Ear Hear*, 32 (1), 845-925.

Guilbert, J., Alamargot, D., & Morin, M-F. (2018). Handwriting on a tablet screen: Role of visual and proprioceptive feedback in the control of movement by children and adults. Human Movement Science, *https://08101xwfq-y-https-www-*

*e*ISSN1303-5150 www.neuroquantology.com

Palate .
https://pubs.asha.org/doi/full/10.1044/jshr.3602.277.
Modha, G., Bernhardt, B., Church, R., Bacsfalvi, P.(2008) . Case study using ultrasound to treat /r/. International Journal of *Language & Communication Disorders*. 43(3) , -323 . 329
Mochida, T., Gomi, H., & Kashino, M. (2010). Rapid Change inArticulatory Lip Movement Induced by Preceding Auditory*Plosives.* *PLoS ONE*, 5(11).. Feedback during Production of
Morikiyo, Y., Matsushima, T. (1990). Effects of Delayed Visual Feedback on Motor Control Performance. *Perceptual and Motor Skills*, 70(1), 111-114.
Nanjundaswamy, M., Prabhu, P., Rajanna, R., Ningegowda, R., & Sharma, M. (2018). Computer-Based Auditory Training Programs for Children with Hearing Impairment - A Scoping Review. *International Archives of Otorhinolaryngology*, 22(1), 88-93.
Nava, E., Rinaldi, L., Bulf, H., & Cassia, V. (2017). Visual and proprioceptive feedback differently modulate the spatial representation of number and time in children. *Journal* of *Experimental Child Psychology*, 161, 161-177.
Nesbitt, K. (2003). Designing multi-sensory displays for abstract data. *Docoral Disertation*, University of Sydney.
Ochi, K., Mori, K., Sakai, N., Aoki-Ogura, J. (2015). Accuracy of Articulation Rate Control with Visual Feedback in Persons who do and do not Stutter. *Procedia - Social and* Behavioral *Sciences*, 193, 217-222
Offerman, H., & Olson, D. (2016). Visual feedback and second language segmental production: The generalizability of *pronunciation gains. System*, 59, 45-60.
Olive, T., & Piolat, A. (2002). Suppressing visual feedback in written composition: Effects on processing demands and coordination of the writing voice'- Tertiary student perceptions of alternative feedback modesaudio, video, podcast, and screencastA qualitative literature review. Nurse *Today*, 72, 32-39.
Killing, S., & Bishop, D. (2008). Move it! Visual feedback enhances validity of preferential looking as a measure of individual differences in vocabulary in toddlers . *Developmental Science*, 11(4), 525-530.
Kulhavy, R., & Stock, W.(1989). Feedback in written instruction: The place of response certitude . *Psychology Review*, 1(4), 279- 308.
Lee, C-Y., Hsu, C-H., Chang, Y- N., Chen, W-F., & Chao, P-C.(2015). Feedback Consistency Effect in Chinese Character Recognition: Evidence *from a Psycholinguistic* Norm. *Language and Linguistics*, 16(4), 535-55 *The* .
Lind, A., Hall, L., Breidegard, B., Balkenius, C., & Johansson , P.(2015). Auditory Feedback Is Used for Self- Comprehension:When We Hear Ourselves Saying Something Other Than What We Said, We Believe We Said What We Hear .*Psychological Science*, 26(12) , .1980-1978
Loup-Escande, E., Frenoy, R., Poplimont, G., Thouvenin, I ,. Gapenne, O., &Megalakakia, O. (2017). Contributions of mixed reality in a calligraphy learning task: Effects of supplementary visual feedback and expertise on cognitive load, *user experience and gestural performance* . *Computer*, 75.42-49. *in Human Behavior*,
Martins, K.,& Gil, D.(2017). Cortical Auditory Evoked Potentials with Simple (Tone Burst) and Complex (Speech) Stimuli in Children with Cochlear Implant. *International ArchivesofOtorhinolaryngology*, 21(4), 351-357
Michi, K., Yamashita, Y., Imai, S., Suzuki, N., & Yoshida, H . .(1993)Role of Visual Feedback Treatment for Defective /s/*Sounds in Patients With Cleft*

*e*ISSN1303-5150 www.neuroquantology.com

*hl=en&lr=&id=vzXbts U4Z74C&oi=fnd&pg=PR3&ots=4_wr 6Od-cL&sig=OQkzqwCxRBs71zMAOkJQLo 06suA&redir_esc =y#v=onepage&*q&f=*false*.

Shuster, L., Ruscello, D., Smith, K. (1992). Evoking [r] using visual feedback. *American Journal of Speech-Language Pathology*, 1(3), 29-34.

Shuster, L., Ruscello, D., Toth, A. (1995). The use of visual feedback to elicit correct /r/. *American Journal of Speech- Language Pathology*. 4, 37-44

Sigrist, R., Rauter, G., Riener, R., & Wolf, P. (2011). Self- controlled feedback for a complex motor task . h*ttps://www.bio-conferences.org*/articles/bioconf/abs /2011/01/bioconf_skill *s_/bioconf_skills_00084.htm*l

Sigrist, R., Rauter, G., Riener, R., &Wolf, P. (2013). Terminal Feedback Outperforms Concurrent Visual, Auditory,and Haptic Feedback in Learning a Complex Rowing-Type . *Journal of Motor Behavior*, 45(6), 455-472.

Suemitsu, A., Dang, J., Ito, T., & Tiede, M. (2015). A real-time articulatory visual feedback approach with target presentation for second language pronunciation learning. *The Journal of* the Acoustical Society of *America*, 138(4),

Suzuki, W., Nassaji, H., & Sato, K. (2019). The effects of feedback explicitness and type of target structure on accuracy in revision and new pieces of writing. System , *https://08101ral8-1103-y-https-www-sciencedirect-*

Volin, R. (1998).A relationship between stimulability and the efficacy of visual biofeedback in the training of a respiratory control task. *American Journal of Speech-Pathology*, 7 (1), 81-90*Language*

Vosmeer, M., Roth, C., & Schouten, B. (2015). Interaction in Surround Video: The Effect of Auditory Feedback on Enjoyment. processes. I*nternational Union of Psychological Science*, 37(4), 209-218

Olson, D. (2014). Benefits of visual feedback on segmental production in the L2 classroom. *Language, Learning and Technology*, 18(3), 173-192.

Preston, J., Leece, M., & Maas, E. (2016). Intensive Treatment with Ultrasound Visual Feedback for Speech Sound Errors in Childhood Apraxia. Front. Hum. Neurosci,. *https://www.frontiersin.org/articles/ 10.3389/fnhum.2016 /0full*

Preston, J., McCabe, P., Rivera-Campos, A., Whittle, J., Landry E., & Maas, E. (2014). Ultrasound visual feedback treatment and practice variability for residual speech *sound* errors. Journal of Speech, Language, and Hearing Research.57(6), 2102-2115.

Richter, B., Eibele, S., Laszig, R., & Lohle, E.(2002). Receptive and expressive language skills of 106 children with a minimum of 2 years' experience in hearing with a cochlear implant. *International Journal of Pediatric Otorhinolaryngology* , 64(2), 111- 125.

Ruden,R. (2018) . Language development in the pediatric cochlear implant. *Laryngoscope investigative otolaryngology*, 3(3), 209- 213.

Ruscello, D. (1995). Visual feedback in treatment of Residual Phonological disorders. *Journal of Communication Disorders*, 28(4), 279-302 .

Saito, K. (2007). The influence of explicit phonetic instruction on pronunciation teaching in EFL settings: the case of English vowels and Japanese learners of English. *The Linguistics Journal*, 3 (3) 16-40.

Schallert, D.(1980).The role of illustrations in reading comprehension . *https://www.taylorfrancis.com/books/e/9781351607247/chers/10.4324/9781315107493-27*

Secord, W., Boyce, S., Donohue, J., Fox, R., & Shine, R.(2007).. Eliciting sounds: Techniques and strategies for clinicians . *https://books.google.com.eg/books?*

Paper presented at 8th International Conference on Interactive Digital Storytelling . Copenhagen: *Denmark*, 30/11- 4/12.

Walker, A., & White, G. (2013). Technology enhanced language Learning: Connecting theory and practice . *https://books.google.com.eg/books?hl=en&lr=&id=gu6dB* gA *AQBAJ&oi=fnd&pg=PT16&ots=P91IEPUEGO&sig=LC ccc0 q30F0QnwzrCx2rs5MGcjA&redir_esc=y#v=onepage&q& f=fal*se

Yunusova, Y., Kearney, E., Kulkarni, M., Haworth, B., BaljkoFaloutsos, P. (2017). Game-Based Augmented Visual,.& Feedback for Enlarging Speech Movements in Parkinson's Disease . *https://pu*bs.asha.o*rg/doi/full/10.1044/2017_JSLHR*- S-

Yogesh Hole et al 2019 J. Phys.: Conf. Ser. 1362 012121

Zacharias, N. (2007). Teacher and Student Attitudes toward .Feedback. *RELC Journal*, 38(1), 38-52.

Zesiger, P., Deonna, T., & Mayor, C. (2000). L'acquisition de l'écriture. *Enfance*, 53(3), 295-304