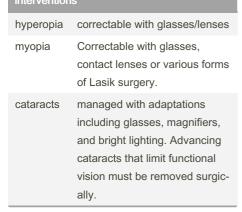


terms for dx	
hyperopia	farsightedness
myopia	nearsightedness
cataracts	clouding of the lens - often due to age
glaucoma	peripheral vision is gone - only central vision
macular degeneration	central vision is gone
diabetic retinopathy	cow print - occurs secondary to diabetes
homonymous hemianopsia	Loss of vision in half of the visual field. Vision is lost in the same half of each eye, while vision is retained in the opposite half of each eye. Loss of visual field is on the same side as physical impairments, such as hemiparesis.
diplopia	double vision
contrast sensitivity - decreased	decrease in contrast sensitivity function can lead to a loss of spatial awareness and mobility and increase the risk of injuries.

interventions (cont)		
glaucoma	compensate for tunnel vision by moving his or her head and body around to view peripheral visual areasPathways in the home should be cleared of clutterElectronic magnification devices and adjusted lighting patterns to reduce glare may be helpfulNight vision is often severely impaired. Patient education to help with adjustment to the condition is important.	
macular degene- ration	compensate for central vision loss by turning the head and body to use peripheral vision using another, unaffected point on the retina. Called Eccentric Viewing Techniques or Pseudo Fovea training. Other treatments include Amsler Grid training, device training to compensate for visual acuity, environmental modifications, and patient education. Support groups help with adjustment.	

interventions (cont)		
diabetic retinopathy	Careful management of diabetes can slow progression. Advanced stage leads to permanent blindness. Treatments can include Amsler Grid training, Eccentric Viewing, special tinted glasses to reduce glare and sharpen acuity, environmental modifications, electronic magnification devices, community resource training.	
homonymous hemianopsia	compensation techniques.	
diplopia	dependent on the underlying cause of the double vision. Medications may be used if the underlying cause of the double vision is another medical condition. If eye muscles are weak or misaligned, corrective surgery may be used. If surgery will not correct double vision, other methods such as eye patching or using prism glasses may help to correct or reduce the problem.	





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interventions (cont)

contrast sensitivity

decreased

Reduced contrast sensitivity may affect the ability to walk down steps, recognize faces, drive at night or in the rain, find a telephone number in a directory, read instructions on a medicine container or navigate safely through unfamiliar environments. Reading is also compromised, for example letters may be almost invisible if the print is too light. Environmental modifications, such as high contrast colors or strips on the first and last steps of staircases, contrasting colors on door frames and the use of contrast on electrical outlets, can all improve patient safety. Decreased contrast sensitivity function is associated with ocular pathological conditions such as a cataract, age-related macular degeneration, diabetic retinopathy, glaucoma and optic nerve degenerations.

low vision

providing adaptations to compensate for vision loss.

interventions (cont)

vision

-Increase the level of lighting in areas where activities will occur. -Use adjustable window treatments (curtains, blinds, shades, drapes) to allow for the adjustment of natural light. -Place chairs near windows to allow for reading or craft work using natural light. -Reduce glare, including adjusting the location of mirrors. Use nonskid, non-glare cleaning products on floors. -Increase contrast, such as placing a dark bath mat on a white bathroom floor or bright orange tape on the edge of a dark step. Use light colored door handles on dark colored doors and vice versa. -Clear walkways and reduce clutter in common areas. -Tape down or remove rugs and electrical cords. -Increase font size during reading, including use of large print books and adjusting computer monitor settings. -Recommend textured upholstery on furniture to provide tactile cues for seat location. -If making recommendations for a public hallway, recommend that drinking fountains, fire extinguishers, and other obstacles be located along the same wall, leaving the other wall clear. -Light stairwells clearly to reduce shadows and glare. Mark landings with a highly contrasting color. -Mark emergency exits clearly

interventions (cont)

unilateral neglect The lighthouse strategy combines three strategies (anchor, guide, scan) to help the person scan, plan, and implement functional tasks.

visual perceptual skills terms

form constancy

The ability to recognize and label objects even when they are viewed from a different angle or in a different environment.

figure ground

The ability to focus on one specific piece of information in a busy background. To see an object in a busy background.

visual closure The ability to correctly perceive an object or word, even when it is partly hidden. This ability helps you to quickly make sense of what you see, even if it is not all visible to you, which means you do not have to see every little detail in order to recognize something.

visual memory The ability to store visual details in short-term memory and to recall the visual details of what you have seen.

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visual perceptual skills terms (cont)

spatial orientation The ability to identify the position or direction of objects or points in space. Position in space (relates to understanding directional language concepts, such as in/out, up/down, in front of/behind/between, left/right, when relating to objects or shapes such as letters).

visual discrimination This is the ability to see subtle differences between objects or pictures. This visual perceptual skill can be described as "paying attention to detail".

spatial relationships This is the ability to visually perceive two or more objects in relation to each other and to yourself.

low vision assessments

amsler grid Used as a maintenance tool for clients with age related macular degeneration to monitor vision changes.

low vision assessments (cont)

visual acuity snellen chart 20/20 vision is a term used to express normal visual acuity (the clarity or sharpness of vision) measured at a distance of 20 feet. If you have 20/20 vision, you can see clearly at 20 feet what should normally be seen at that distance. If you have 20/100 vision, it means that you must be as close as 20 feet to see what a person with normal vision can see at 100 feet.

confrontational testing for visual field

cuts

visual fields of both eyes overlap; therefore each eye is tested independently. The patient should cover their right eye with their right hand (vice versa when testing the opposite eye). With the examiner seated directly across from the patient, the patient should direct their gaze to the corresponding eye of the examiner.

contrast sensitivity Contrast sensitivity is an important factor influencing the quality of vision. - chart with decreased color of letters

low vision assessments (cont)

clock drawing test for visuospatial deficits and cognition

is a nonverbal screening tool in which the patient is asked to draw a clock. Although there are multiple versions of this test, in general, they all ask the patient to draw the face of a clock and then to draw the hands to indicate a particular time. Placement of the numbers around the circle requires visual-spatial, numerical sequencing, and planning abilities.

The Clock Drawing Test (CDT)

screening tools for ocular motor skills

The ability pursuit tracking of the eyes to track moving objects within the visual field. converalignment of the eyes gence during near distance

of gaze from the object. client reports or signals when they see two of the object (see

double).

The therapist

coordination of

eye movements

and any deviation

watches for

tasks.

saccades

ability of the eyes to quickly jump from one area of focus to

The therapist watches for difficulty moving the eyes and deviation from the objects.

another.

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adaptations for visual impairment (cont)

screening to	ools for ocula	ar motor skills (cont)
peripheral	ability to	The therapist will
vision	see	measure the angle
	motion	between 0 and 90
	from the	degrees at which
	sides of	the object is seen.
	the eyes.	
visual	Whether	The therapist asks
field loss	a visual	the client to report
- also	field cut	if the object is seen
called	exists	in different
confro-	and the	locations and
ntational	severity	watches for loss of
testing	of that	visual pursuit.
	field cut.	

	field cut.
adaptations	for visual impairment
magnifiers	Used to enlarge print or objects within magnified field hand held – magnifies a small, defined area -sheet – magnifies an entire page - hands free – mounted on a table or desk, hung around the neck, or worn as glasses. Used for small piece work, needlework, etc
low vision lighting	Used to provide extra lighting for reading or small piece work. May be hand held, mounted, or incorporated into a magnifier.
adaptive clocks	Clocks that use audio output to announce the time and vibration to provide alarms.

audio books	Books read aloud and recorded specifically for the visually impaired.
talking and low vision devices	Devices that provide audio output or large print on the controls. Calculators, television remote controls, personal organizers, telephones, timers, daily living devices, and other devices are available with these adaptations.
labelers	Braille, large print or audio tags to label clothing and other items.
assistive tech	These items include adaptations for low vision for computers, tablets, and smartphones.
visual perd	ception clinical observations
form	Difficulty recognizing shapes,

numbers, and letters when

they differ in either color, size, font, or when they are

presented in a different context
• Difficulty recognizing people wearing different clothing

constancy

ground	drawers during ADLs • Missing road signs or vehicles when driving • Unable to locate toys in a toy box • Struggles to find information on a busy blackboard • Loses place when copying work from the board • Loses place on the page while reading • Struggles with navigating around a map
visual closure	Cannot identify traffic signs that are partially hidden behind a tree or other vehicle • Difficulty locating items in the refrigerator that are partially covered • Difficulty making sense of words on a smudged page • Difficulty recognizing an object even when you can only see part of it • Difficulty finding an item of clothing when it is partly hidden
visual memory	Difficulty remembering faces or new people • Reading compre- hension is affected when visual memory is deficient • Difficulty recalling a phone number that has just been read • Difficulty remembering sight words • Difficulty copying work from the board or a book
spatial orient-ation	letter and number reverals

visual perception clinical observations (cont)

Difficulty locating clothing in



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visual perception clinical observations (cont)

visual Struggles to match clothing,
discriscoks, or cutlery, especially when
the differences are subtle •
ation Struggles to see the difference
between similar objects (e.g.,
coins) • Struggles to see differences between similar looking
letters and words (eg b / d, b / p,
5 / s, won't / want, car /cat)

spatial D
relati- m
onships "s
pe

Difficulty understanding what it means to "stand first in a line", "sit in front of Amy" or "put the pencil on top of the paper". •
Difficulty with spacing and organization of written school work • Difficulty with writing on the line/in relation to the lines •
Standing in line without bumping into others

standardized test of visual perception

beery vmi Integrabilities abilities	ration of visual and motor es
	notor visual perceptual including: -visual discri-
skills visua form ential	ion -visual memory - l-spatial relationships - constancy -visual-sequ- memory -visual closure -

standardized test of visual perception	(cont)	
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motor free	Non-motor visual perceptual
visual	skills, including: -visual discri-
perception	mination -spatial relationships
test	-visual memory -figure-ground
MVPT	-visual closure
develo-	Both motor and non-motor
pmental	perceptual skills, including: -
test of	eye-hand coordination -
visual	copying -figure-ground -visual
perception	closure -form constancy The
DTVP	adult version also includes: -
	visual-motor search -visual-
	motor speed

motor speed	
visual skills	
visual motor	visual perception
motor coordination	sequential memory
visual perception skills	figure ground
visual processing skills: convergence, tracking, diverg- ence, visual effeciency, saccades, visual fixation	form constancy
	visual discrimin- ation
	visual memory

visual closure spatial relations



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