Psychology 4036: Perceptual Issues in Visual Impairment

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Week 1: Introduction

List of Book Chapters

Solomon, A. Far from the Tree: Parents, Children and the Search for Identity. Scribner, 2012.

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Three Approaches for Dealing with Low Vision

- Medical Model
- Rehabilitationnent Project Exam Help
- Social Justice and Civil Rights
 DEI (Diversity, Equity and Inclusion)
 IDEA (Inclusion, Diversity, Equity and Accessibility)

Relevance to Daily Life

- Disability as a form of diversity.
- Your personal experience with disability.
- Think inclusively, powcoder.com

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Vision Terms

- 3 Categories of Sight Normal, Low Vision, Blind Terminology:
- Visual Disorder: Any deviation from normal in the status of the eyes, including diseases or chronic conditions.
- Visual Impairment Consequences of ameye disease or disorder on a measure of visual function such as acuity or Add WeChat powcoder contrast sensitivity.
- Visual Disability: Restrictions on normal activities of daily life resulting from visual impairment, such as reading or mobility.
- Visual Handicap: A cultural, economic, or social disadvantage for a person resulting from visual impairment.

Definitions of Low Vision

- Any chronic visual impairment, not correctable by lenses, that affects everyday function.
- Inability to reading with the seading distance (40 cm, 16 inches) with best refractive correction.
- Visual acuity of less than 20/60 or a visual field of less than 20 degrees in the better eye with best possible correction (ICD-10).
- Acuity boundary shifting to 20/40.

Global Estimates of Visual Impairment by Acuity (2015)

Category	# in Millions	% of World Population
Of Visual Impairment		
Mild:	188.5	2.57
20/40 – 20/60	· D · · · · · · · · · · · · · · · · · ·	TT 1
Moderate to Severe: ASS1g11	ment Project Exan	F.娼elb
20/60 – 20/400	_	_
Blind: htt	³⁶ s://powcoder.con	0.48
Worse than 20/400	ps.//powcoder.com	.1
Total	441.5	~ 6

Notes:

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- World population 7.33 billion
- Based on Presenting visual acuities.
- Percentage female: ~ 55%

Source: Bourne, R.R.A. et al. (2017). Magnitude, temporal trends, and projections of the global prevalence of blindness and distance and near vision impairment: a systematic review and meta-analysis. *The Lancet Global Health*, *5*(9): e888-e897. doi:10.1016/S2214-109X(17)30293-0

U.S. Estimates of Visual Impairment 2017 and 2050

Category of	Prevalen	ce in	Prevalence in Millions
Visual Impairment	Millions (2017)	(2050)
Worse than	5.7		9.6
20/40			
20/200	. 1.3	Danie d E	2.3
Or Worse AS	signment	Project Exan	п негр
(legal blindness)	_	-	_

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Notes:

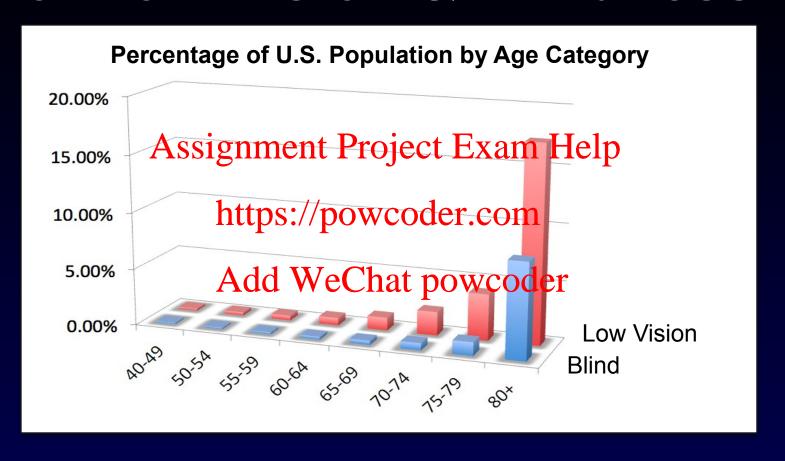
- U.S. population in 2610 32500; In 20500=V48810 (Pew Hispanic Center).
- Categories based on Best-Corrected Visual Acuity.
- Annual Incidence approx. 12.4% of the prevalence.

Source: Chan, T., Friedman, D. S., Bradley, C., & Massof, R. (2017). Estimates of incidence and prevalence of visual impairment, low vision, and blindness in the united states. *JAMA Ophthalmology*. doi:10.1001/jamaophthalmol.2017.4655

Percentage Prevalence of Causes of Severe Low Vision Worldwide and in the US

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6	World	U.S.A <mark>.</mark>			
http	< 20/400 s://powcoder.com	Legally Blind			
AMD	5.9	47.2			
Cataract Ado	135WeChat powcod	<u>4</u> 2.6			
Diabetic	1.1	5.9			
Retinopathy					
Glaucoma	8.5	9.4			
Other	29.1	25.2			
Refractive	20.3	NA			
Error					

Age Distribution of Low Vision & Blindness



Low Vision: the best-corrected visual acuity less than 6/12 (<20/40) in the better-seeing eye (excluding those who were categorized as being blind by the U.S. definition).

Blindness: the best-corrected visual acuity of 6/60 or worse (=20/200) in the better-seeing eye.

Mr. Magoo "Watching" TV



Time-Tradeoff Method for Estimating Quality of Life

- Suppose your life expectancy is 50 more years.
- Imagine ilgsing all to Proviesight today and p
 becoming totally blind for the remaining 50 years
 of your lifettps://powcoder.com
- How many years of life N would you be willing to trade away to retain your concordal, healthy vision?
- Your estimate of Quality Of Life (QOL) with total blindness is (50-N)/50.
- Example. If you are willing to trade away 20 years, QOL = 30/50 = .60; your estimate of QOL with blindness is 60% of QOL with healthy sight.