

# Online Color Vision Telemedicine Screening

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By: VUMC's Occupational Health  
Clinic



Dr. Shinobu Ishihara

## ABOUT THE CREATOR

Shinobu Ishihara, MD, (d. 1963) was an army ophthalmologist in Tokyo, Japan. He was also the chairman of the ophthalmology department at the Imperial University of Tokyo. Dr. Ishihara's research interests included isochromatic vision and myopia.

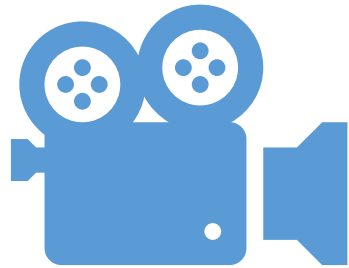
To view Dr. Shinobu Ishihara's publications, visit [PubMed](#)

### ORIGINAL/PRIMARY REFERENCE



S. Ishihara, Tests for color-blindness (Handaya, Tokyo, Hongo Harukicho, 1917).

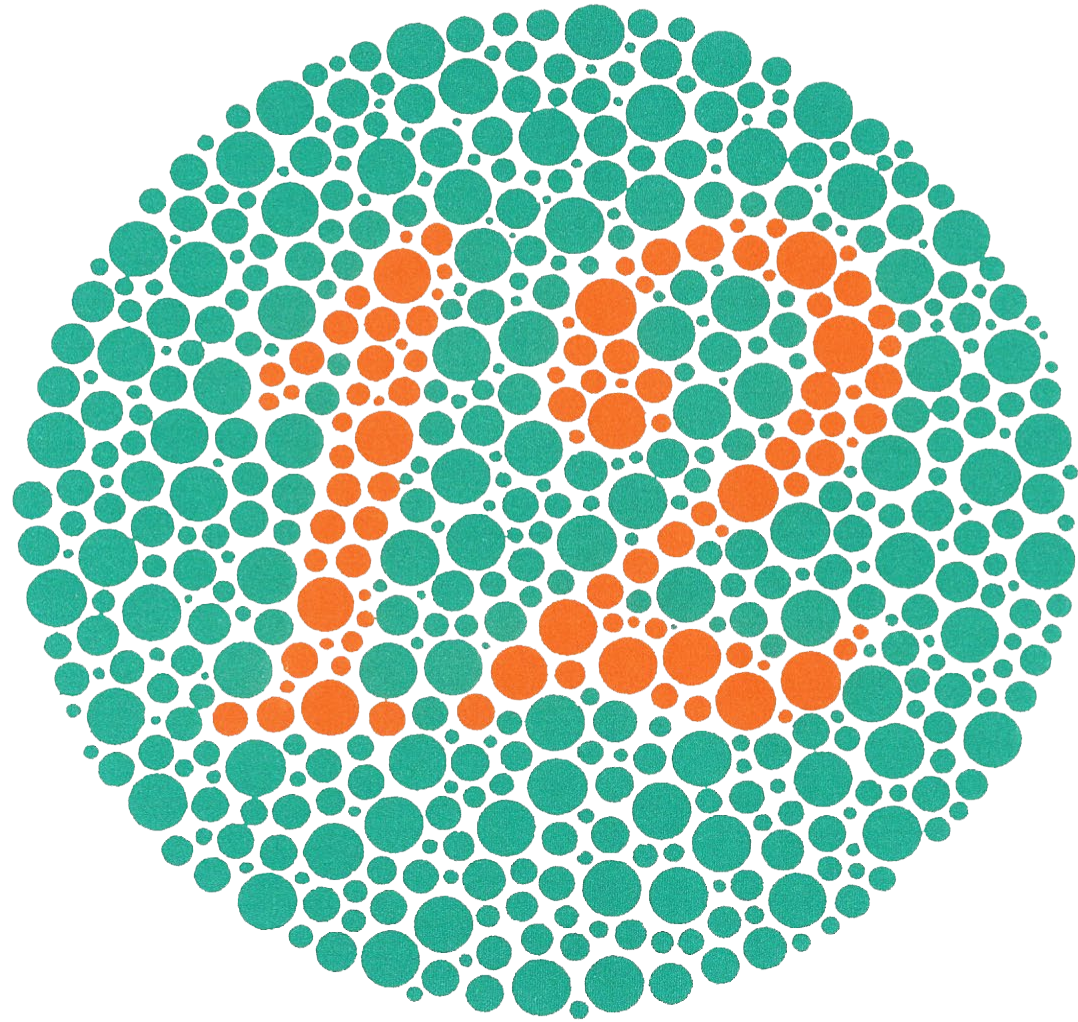
# Telemedicine OHC Visit Color Vision Screening Instructions

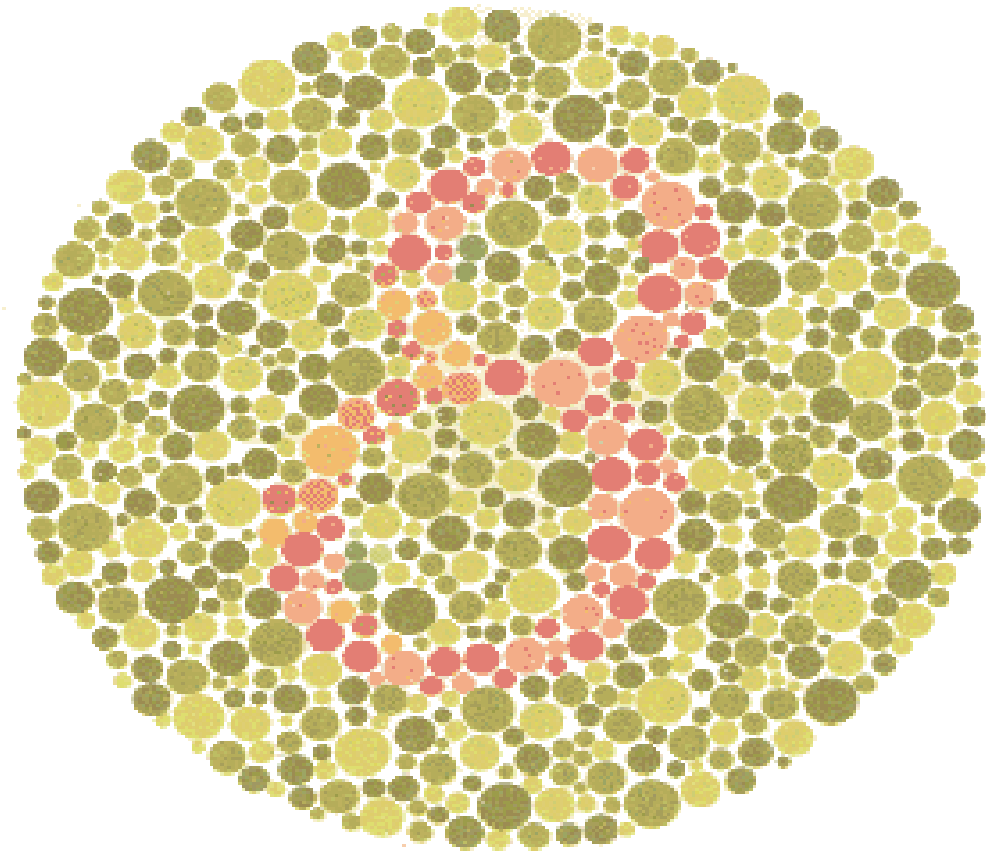


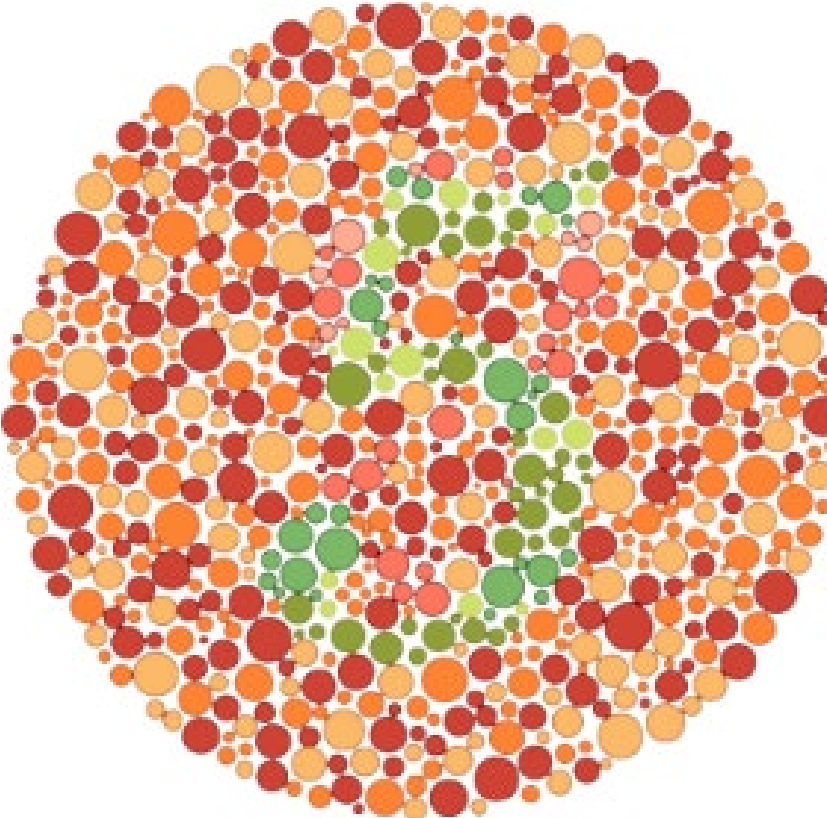
Video must be on at all times

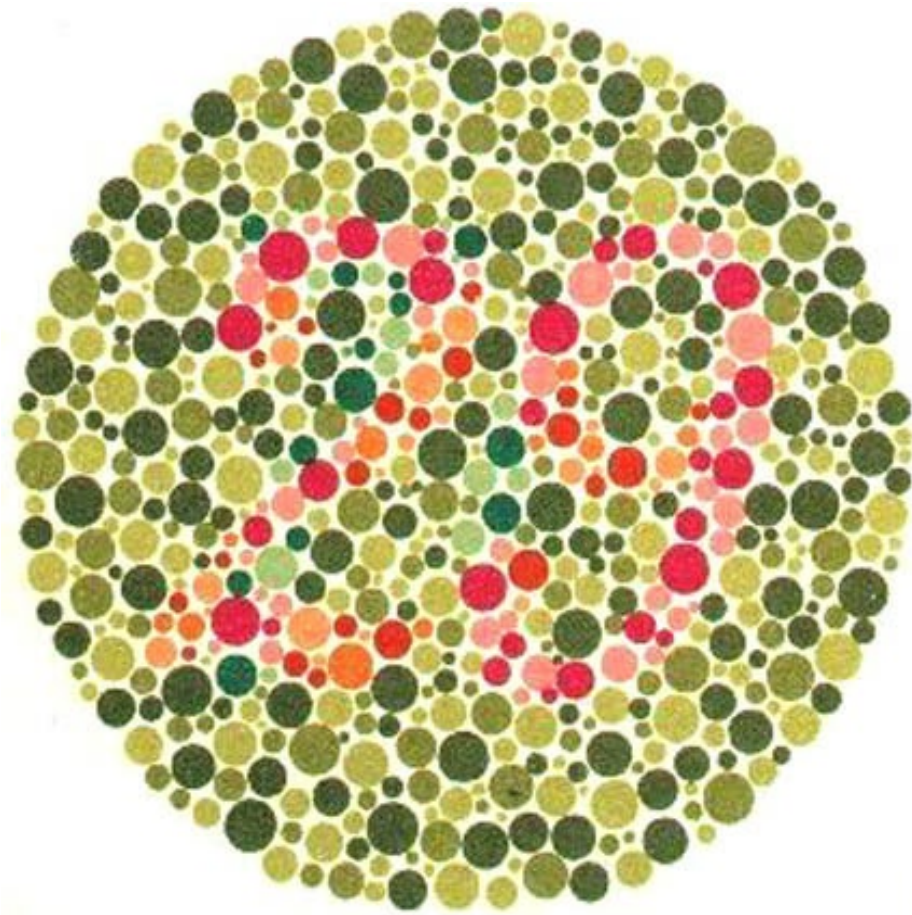


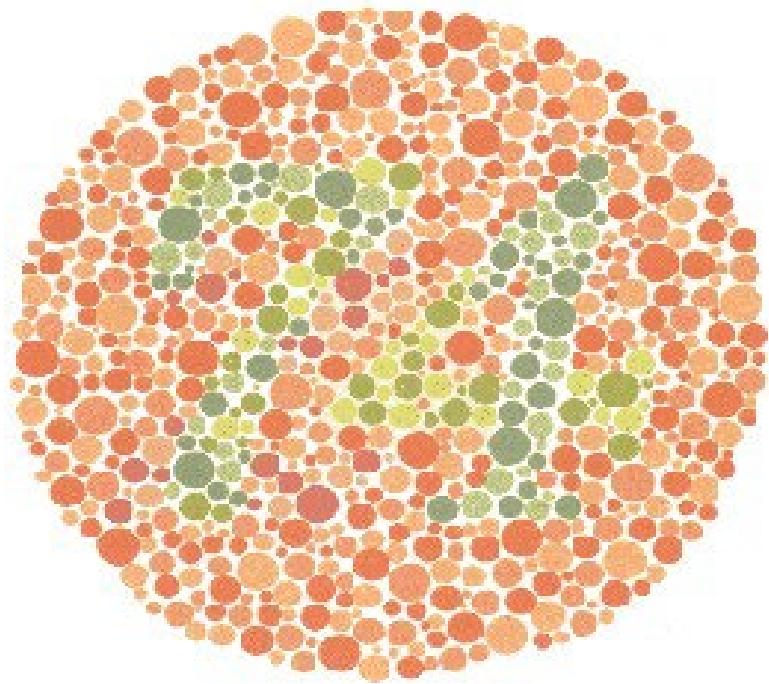
Pt must be visible to provider  
throughout telemedicine visit



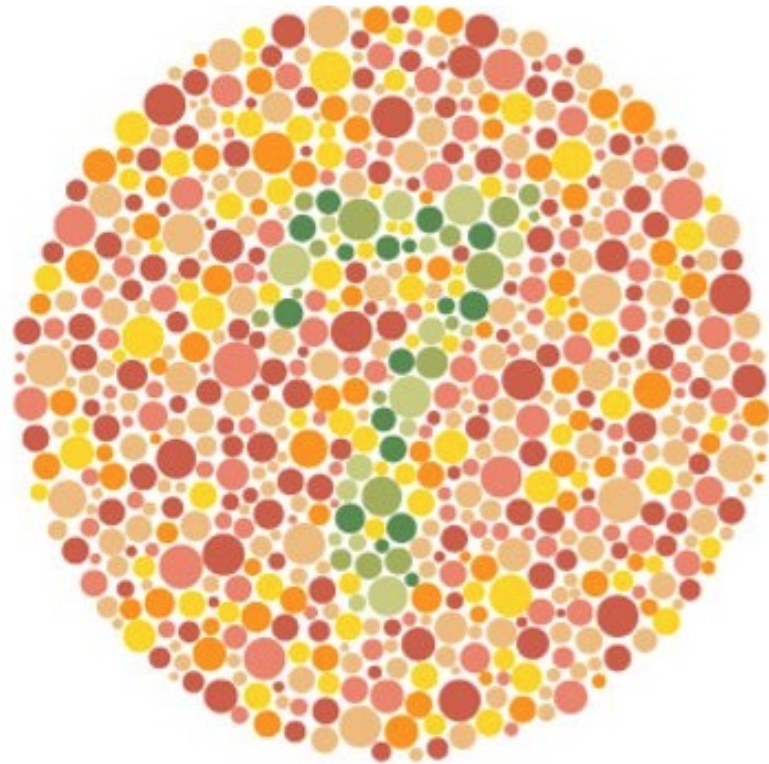




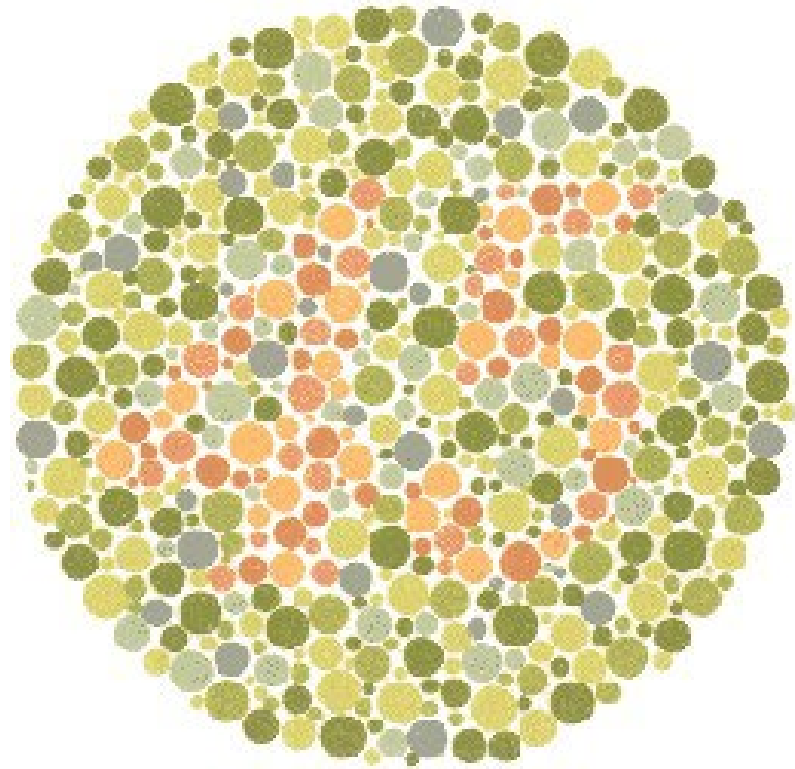


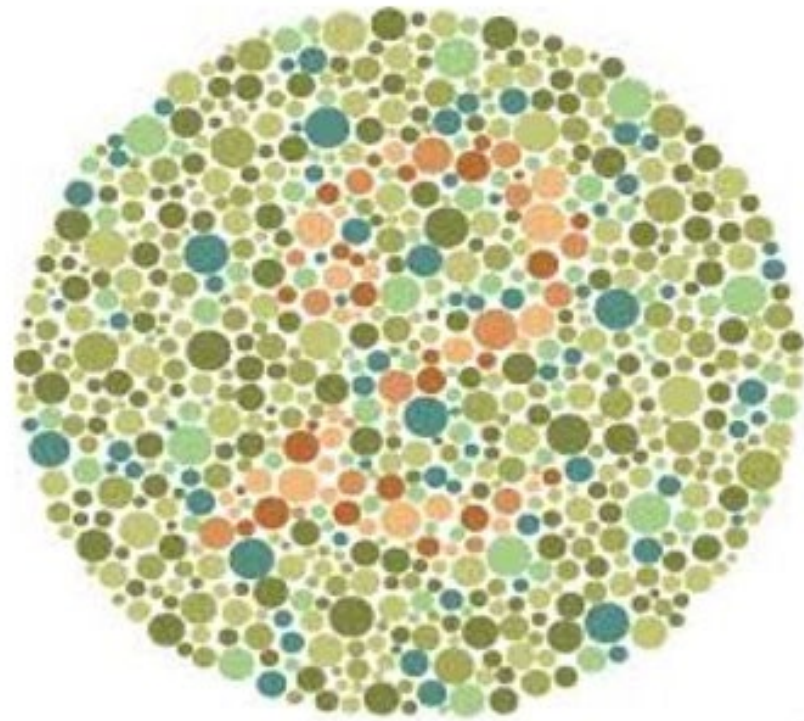


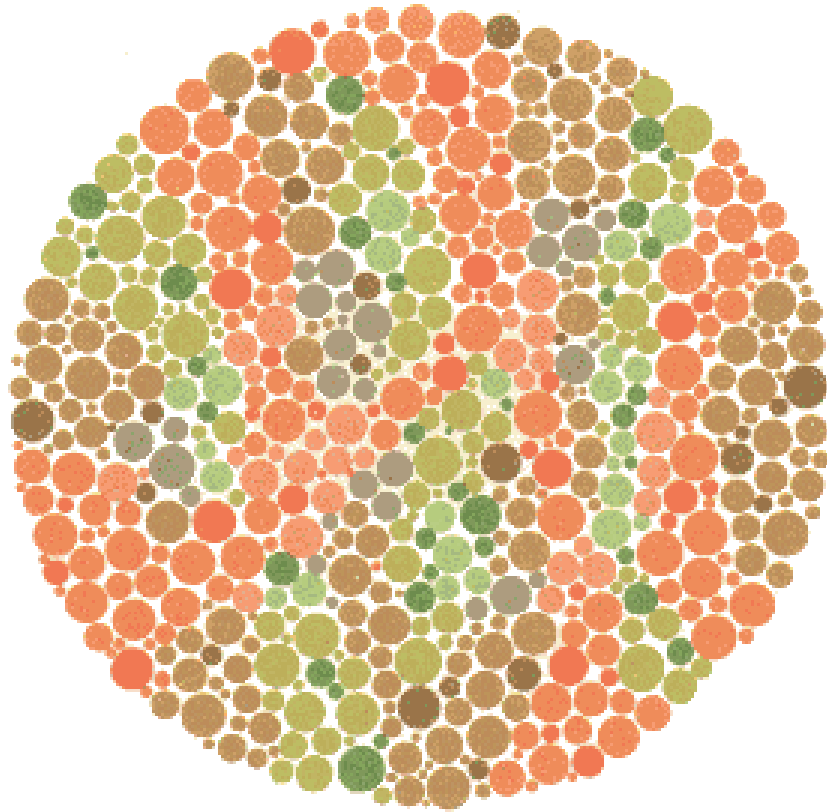


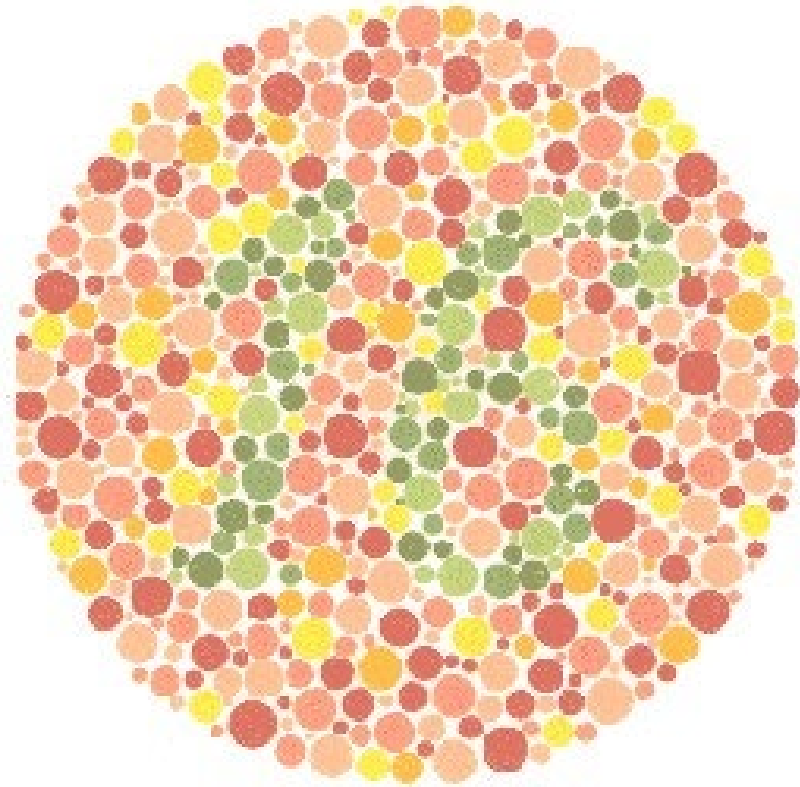




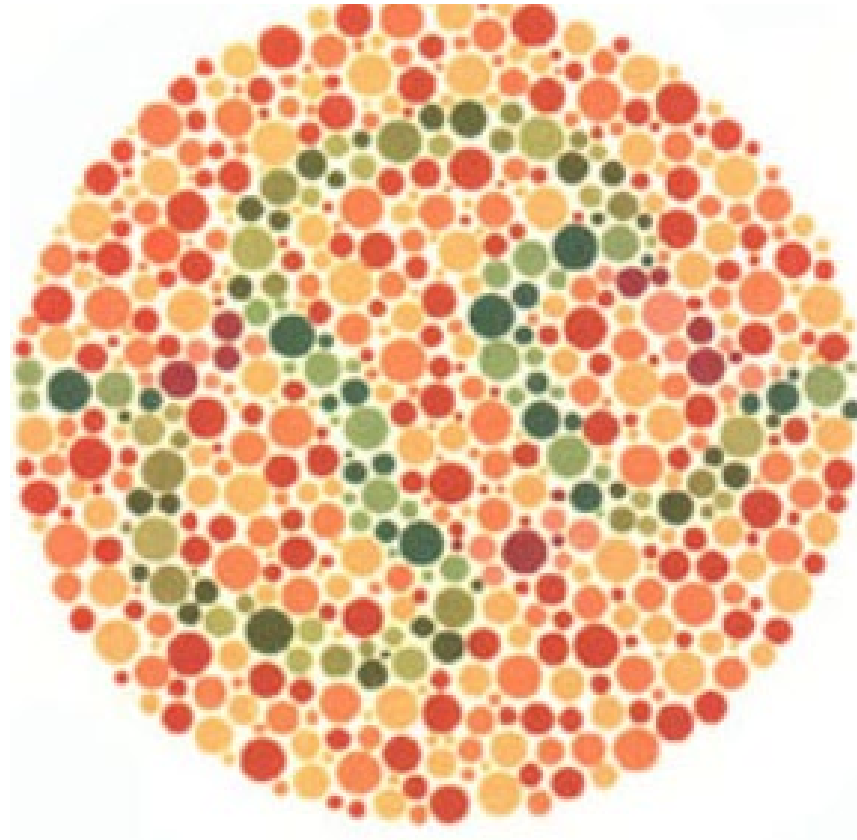


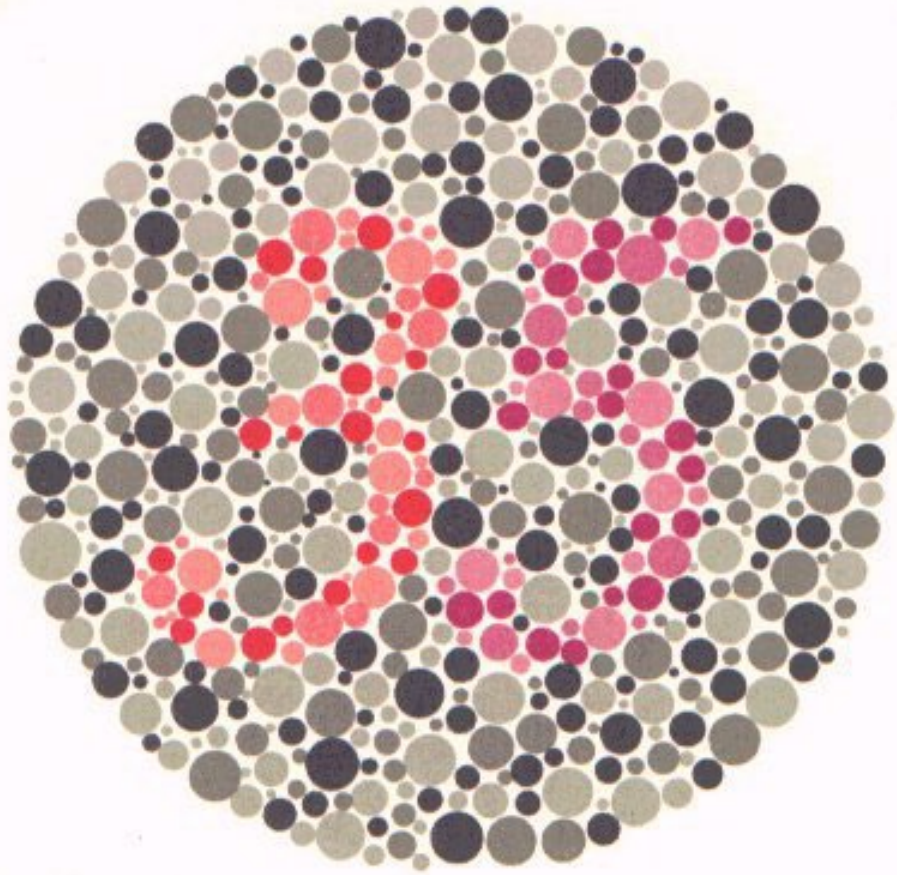


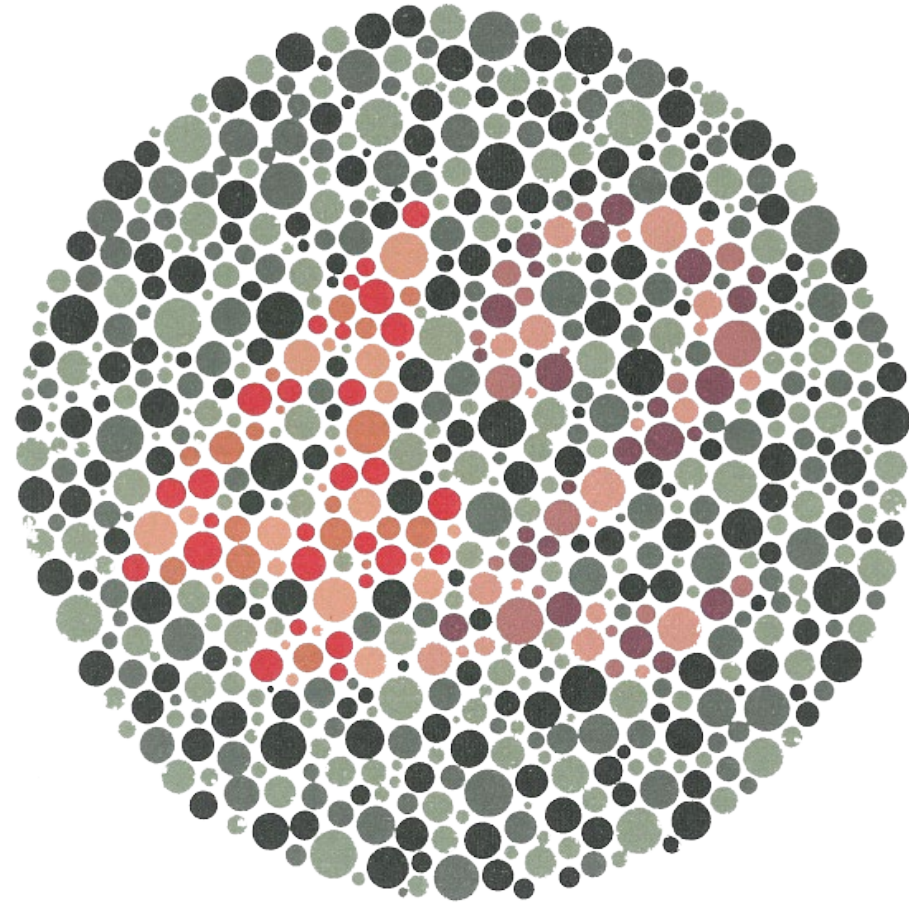




Trace the line across the plates using your mouse or your finger

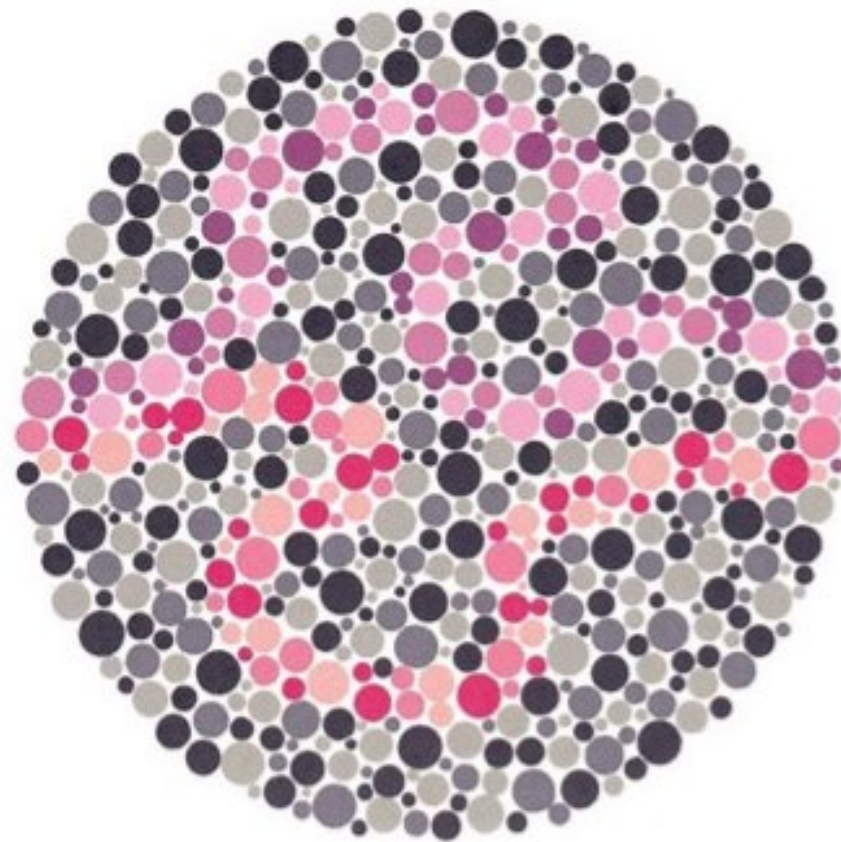








Trace the line across the plates using your mouse or your finger



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*End of Examination*



# Other Resources

[MDCALC.com](https://www.mdcalc.com)

- <https://www.mdcalc.com/calc/10061/color-vision-screening-ishihara-test>

## FORMULA

X means that the plate cannot be read. Dashes denote that the reading is indefinite.

Plate number	Normal patient	Red-green color deficiency				Total color blindness
		Protan		Deutan		
		Strong	Mild	Strong	Mild	
1	12	12				12
2	8	3				X
3	5	2				X
4	29	70				X
5	74	21				X
6	7	X				X
7	45	X				X
8	2	X				X
9	16	X				X
10	35	5	(3)5*	3	3(5)*	-
11	96	6	(9)6*	9	9(6)*	-

\*The numbers in parentheses indicate they can be read but are comparatively unclear.

>> Next Steps

Evidence

Creator Insights

## ADVICE

Patients with more than two incorrect plates are considered to have color vision deficiency.

## MANAGEMENT

Patients with color vision deficiency should undergo further evaluation by an ophthalmologist or neuro-ophthalmologist.

# Other Resources

- <https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness/testing-color-vision-deficiency>
- <https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness>
- <https://www.medicalnewstoday.com/articles/online-color-blind-test#results>
- <https://myvision.org/eyesight/color-blind-testing/#screening>
- <https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness/testing-color-vision-deficiency>
- <https://www.mdcalc.com/calc/10061/color-vision-screening-ishihara-test>