

10/7/2008: Dr. Fredrick Tilton at the FAA announced that the HRR 4th Edition is now included in the list of allowable color screening tests in their AME Guide.

The HRR (Hardy Rand and Rittler) Pseudoisochromatic Plate Test 4th Edition supports very efficient color deficiency screening. The first four plates (demo series) are used to show the patient how the test works. The fourth plate in this demonstration series has no figure and serves to alleviate anxiety if the patient does not see any figures in the real plates. The next six plates (screening series) present the most difficult yellow, blue, red, and green colors. Success with these plates defines the subject as having 'normal color vision' and completes the test for that person. The subsequent 14 plates (diagnostic series) cover all four colors and provides diagnostic as to the extent (mild, medium or strong) and type of defect (Protan, Deutan, Tritan). More than six different clinical trials (to date) has attested to the effectiveness of the HRR 4 Edition.

The HRR test uses simple figures which can be located in any quadrant on each plate. This combination is virtually impossible to memorize, unlike Ishihara type numbers based tests. A wide range of options are available including laminated, combination with Amsler Grid, and instructions in multiple languages as show in the next few pages.

HRR Makes Ishihara Obsolete

Following matrix compares Pseudoisochromatic plate tests. The Ishihara test, in particular, is clearly obsolete due to longer time to administer and incomplete coverage (lack of Tritan plates):

Product	Screening?	Con- genital	Acquired	Ability to Classify	Determine Extent	Number of Plates	Pediatric Version	Time to Administer	Street Price
HRR 4th Edition	Yes	Yes	Yes	Yes	Yes	24	Yes	Quickest	\$ 219.00
Ishihara - 24 Plate Version	Yes	Yes	No	No	No	24	Separate	Incomplete	\$ 202.10
City University, London	Yes	Yes	Yes	Yes	No	10	No	Moderate	\$ 364.50
Dvorine	Yes	Yes	No	No	No	23	No	Moderate	\$ 471.00
Lanthy Tritan Album	Yes(BYonly)	No	Yes	No	Yes	5	No	Quick	\$ 251.00
SPP1	Yes	Yes	No	Yes	No	19	No	Slower	\$ 188.00
SPP2	Yes	Some	Yes	Yes	No	12	No	Slower	\$ 188.00
Farnsworth D15	No	Yes	Yes	Yes	Medium/Strong	16 chips	Yes	Slow	\$ 150.00
Lanthy Desaturated 15	No	Yes	Yes	Yes	Mild Only	16 chips	No	Very Slow	\$ 160.00

For more technical background on the HRR 4th Edition available at www.RichmondProducts.com

HRR 4th Ed Test - Standard Set



Includes four demonstration plates, six screener plates and 14 diagnostic series for a total of 24 plates. Plates are numbered on the reverse side to avoid easy detection by the patient. Each of these plates is tabbed for easy selection and to help keep the pages clean. Includes instructions in English for the test administrator, laminated copy of the score sheet for local copying, and camel's hair brush for use by the patient to help avoid touching the plates. A pad of score sheets is available separately. CE Marked

13396R HRR 4th Ed Standard US \$ 219.00

HRR Plaquenil Referral Package - Combined HRR Test and Amsler Grids



Plaquenil referrals are now easier than ever with our two test combo. Our 24 plate HRR 4th Ed is bound with four Amsler charts. Also includes reversible occluding glasses to permit acquired color problems to be tested monocularly, as recommended. Instructions and laminated score sheets are included for both tests. CE. **Amsler Charts include:**

1. **Standard** Amsler Chart white lines on black.
2. **Diagonals** with white lines on black background-used in cases where the central point is not seen.
3. **Red lines** on black background -used in cases of color-scotoma.
4. **Subdivided squares** in the center. Allows a more precise examination of the Juxta-Central Area

13396AMR HRR with Amsler Grids US \$ 270.00

13396ALR Laminated Combo US \$ 309.00

Now available
in 15 languages!

And FAA Accepted!

Laminated HRR for Pediatric Testing



Pediatric color testing demands laminated pages to avoid damage from finger prints. The HRR is the ideal adult and Pediatric color test because of the simple shapes it uses. Laminated colors were verified with Spectrometer. Non-glare Laminate protects the pages for years of use. Testing for red, green, blue and yellow ensures you can test for congenital and acquired color defects. Also includes 4523C reversible occluding glasses to permit acquired color problems to be tested monocularly, as recommended. CE Marked

13396LMR Laminated HRR US \$ 279.00

13396ALR Laminated HRR with four Amsler Grids US \$ 309.00

HRR Pediatric Matching kit



The HRR Matching kit is used to teach younger patients the 'matching' concept for subsequent color testing using the HRR 4th Edition. It also includes an extensive write-up (laminated) for the parents to help them understand the occupational implications of color vision defects.

4518C HRR Matching kit US \$ 24.50

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HRR English Version Pricing with Accessories

All CE Marked

These other language versions include the instructions in both English and the language indicated. Laminated and Combo version also include Occluding Glasses. With the exception of Portuguese and Spanish, Amsler instructions are only in English.

	Product	Part	List
Edition Version	Includes	Number	Price
Standard English Version	24 plates, brush, instructions	13396R	\$ 219.00
HRR/Amsler Combo - English	24 plates, 4 Amsler Grids, brush, instructions, occluding glasses	13396AMR	\$ 270.00
Laminated English Version	instructions, occluding glasses	13396LMR	\$ 279.00
Laminated English HRR/Amsler Combo	24 laminated plates, 4 Amsler Grids, brush, instructions, occluding glass	13396ALR	\$ 309.00
HRR Standard and Daylight C Glasses	HRR Standard, brush, English instructions, Gulden C Daylight Glasses	4628R	\$ 256.25
Red/Green Subset	16 Red/Green plates, brush, instructions	13396RGC	\$ 140.50
Blue/Yellow Subset	8 Blue/Yellow plates, brush, instructions	13396BYC	\$ 94.50
Accessories			
HRR Camel's Hair Brush	Brush to avoid fingerprints - replacment	701R	\$ 5.00
HRR 3rd Edition Score Pad	100 pages	13397R	\$ 9.00
HRR 4th Edition Score Pad	100 pages- adds page numbers per	4594R	\$ 9.00
HRR 4th Edition laminated Score sheet	Sold Seperately	4894	\$ 9.50
Occluding Glasses	Reversible Metal Frame with spring loaded temple for acquired testing	4523C	\$ 19.50
HRR Pediatric Matching Kit - English	instructions to parents	4518C	\$ 24.50
Daylight Illuminator with easel	Tested Daylight bulb, 115Volt	5137R	\$ 239.00
Daylight Bulb	Replacement Daylight bulb	6665R	\$ 26.75
Daylight Illuminator-220V with easel	Tested Daylight bulb, 220Volt adapter	5138R	\$ 269.00

Arabic (MSA)

5481R	HRR Standard	US \$ 229.00
5482R	Laminated HRR	US \$ 289.00
5483R	Laminated Combo	US \$ 319.00

Dutch

5445R	HRR Standard	US \$ 229.00
5384R	Laminated HRR	US \$ 289.00
5446R	Laminated Combo	US \$ 319.00

French

5459R	HRR Standard	US \$ 229.00
5460R	Laminated HRR	US \$ 289.00
5461R	Laminated Combo	US \$ 319.00

German

5439R	HRR Standard	US \$ 229.00
5381R	Laminated HRR	US \$ 289.00
5440R	Laminated Combo	US \$ 319.00

Greek

5447R	HRR Standard	US \$ 229.00
5386R	Laminated HRR	US \$ 289.00
5448R	Laminated Combo	US \$ 319.00

Italian

5437R	HRR Standard	US \$ 229.00
5385R	Laminated HRR	US \$ 289.00
5438R	Laminated Combo	US \$ 319.00

Japanese

5452R	HRR Standard	US \$ 229.00
5453R	Laminated HRR	US \$ 289.00
5454R	Laminated Combo	US \$ 319.00

Korean

5462	HRR Standard	US \$ 229.00
5463	Laminated HRR	US \$ 289.00
4634	Laminated Combo	US \$ 319.00

Mandarin Chinese

5449R	HRR Standard	US \$ 229.00
5450R	Laminated HRR	US \$ 289.00
5451R	Laminated Combo	US \$ 319.00

Polish

5441R	HRR Standard	US \$ 229.00
5383R	Laminated HRR	US \$ 289.00
5442R	Laminated Combo	US \$ 319.00

Portuguese

4992R	HRR Standard	US \$ 229.00
4994R	Laminated HRR	US \$ 289.00
4995R	Laminated Combo	US \$ 319.00

Spanish

5455R	HRR Standard	US \$ 229.00
4630R	Laminated HRR	US \$ 289.00
4631R	Laminated Combo	US \$ 319.00

Traditional Chinese

5456R	HRR Standard	US \$ 229.00
5457R	Laminated HRR	US \$ 289.00
5458R	Laminated Combo	US \$ 319.00

Turkish

5443R	HRR Standard	US \$ 229.00
5382R	Laminated HRR	US \$ 289.00
5444R	Laminated Combo	US \$ 319.00

HRR Clinical Trial Papers Available:

More than a half dozen clinical trials have been conducted using the HRR 4th Edition. Copies are available upon request. Two key studies are:

- Clinical and Experimental Optometry (Australia) by Barry Cole, Ka-Yee Lian and Carol Lakkis. Tests conducted at University of Melbourne March 2006
- Visual Neuroscience by Jay Neitz, Maureen Neitz, Diane Tait and James Bailey. Tests conducted at Medical College of Wisconsin May/June 2004

To obtain a copy of either paper send email to Sales@RichmondProducts.com

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