

### Why the Rorschach?

- The Rorschach? Really?
- Why? Because the task provides a standardized, in vivo sample of perceptual and verbal problem-solving behavior
  - Inkblots were artistically created and enhanced, carefully selected, and pilot-tested
  - Stimuli are structured to provide multiple suggestive but incomplete or imperfect perceptual likenesses that form competing visual images
- The task is to examine the stimuli and answer the question: "What might this be?"
  - The answer provides
    - a visual attribution
    - a verbal explanation or elaboration
    - a range of behaviors interacting with the stimuli and examiner

#### Why the Rorschach?

- These verbal, perceptual, and interactive behaviors can be:
  - Coded and compared to normative expectations
  - Understood as direct but unique observation of task behavior
  - Analyzed idiographically for content, imagery, and sequence
- Administering the task allows the examiner to observe what the person does, not learn what he thinks he does
- Thus, the task is a reasonably brief, portable, behavioral experiment that can be used in various clinical settings
  - e.g., a private office, hospital room

### Why the Rorschach?

- As a behavioral task, the most valid inferences are those in which the behaviors observed and coded in the microcosm of the task generalize to parallel mental, verbal, perceptual, and interactive behaviors in the external environment
- The place of Rorschach data in an assessment
  - Like other performance tasks, coded behaviors may reflect implicit qualities not recognized by the respondent
  - Rorschach scores can thus complement consciously recognized self-report characteristics
  - Because Rorschach scores are at best just modestly correlated with self-report data, valid scores provide unique information about personality that can add incrementally and meaningfully to self-reported information

#### Why R-PAS?

- R-PAS = Rorschach Performance Assessment System
  - Don Viglione, Joni Mihura, Bob Erard, Phil Erdberg, & me
    - Disclosure: We have a financial stake in the system
  - Four of us worked on Exner's Research Council for the Comprehensive System (CS), which ran from 1997-2006
  - R-PAS significantly extends the work began in that group
- Our goal is to have a clinically rich, evidence-based, logically transparent, user-friendly, internationallyfocused system available for applied practice
- Unlike the CS, R-PAS can and will evolve in response to evidence and needs

- Four Criteria for Variable Selection:
  - Empirical support in validity meta-analysis and synthesis of other research findings
  - Clear conceptual link between coded response processes and interpretation
    - Response processes = psychological operations involved in producing the coded behavior
  - Support from clinical experience based on a large survey of experienced practitioners
  - Parsimony

#### Main Validity Meta-analysis

- Review of 70 major CS variables
  - Mihura, Meyer, Dumitrascu, & Bombel (2011)
  - Identified all instances of any hypothesized association
  - Reliably classified their construct relevance ( $\kappa$ = .79)
  - # of findings =1,229; total N = 20,363
- As expected, scores are more associated with externally-assessed criteria than self-report criteria:
  - Self-assessed r = .06
  - Externally-assessed r = .24
    - e.g., observer ratings, psychiatric diagnosis
- As expected, validity varies by score; e.g.,
  - Good: X-%, WSum6, Lambda, EA, MOR
  - Poor: Zd, PSV, Egocentricity, Isolation Index

- The Four Variable Selection Criteria Lead to:
  - 13 Response-Level Coding Categories
  - 60 Protocol-Level Scores that are Profiled
  - 2 Levels of Emphasis in the Profiled Output
    - **Page 1** = Primary interpretive emphasis
    - **Page 2** = Tentative interpretive inferences
- Relative to the CS:
  - Some scores were dropped
    - e.g., Hx, PSV
  - Some were reconfigured
    - e.g., no longer code form dominance for shading
  - Six new codes added
    - SR, SI, MAH & MAP, AGC, ODL

ä	What is the card angle?	Where is it seen?	Is white use Hov	e space ed? w?	space  ?  ? seen?		Are any objects meaning- fully related?	Are all objects in the percept vague?	Are there two identical objects?	How well does it fit the blot?	Do many people see it?	What makes it look like that?	Are there issues with thought processes?	What themes are present?	Wer step take to mana R?
C	Card Drient- ation	Loc- ation*	Space Reversal	Space Integra- tion	Con Cla	tent ss*	Synthesis	Vagueness	Pair	Form Quality*	Popular	Deter- minants*	Cognitive Codes	Thematic Codes	R- Optir ized
	@	W,D,Dd	SR	SI	Н	An	Sy	Vg	2	o, u, -, n	Р	Μ	DV1,DV2	ABS	Pr,P
	< y >	Loc#(s)			(H)	Art						FM	DR1,DR2	PER	
					Hd	Ау						m	INC1,INC2	COP	
					(Hd)	BI						(a,p,a-p)	FAB1,FAB2	MAH	
					А	Cg						FC, CF, C	PEC	AGM	
					(A)	Ex						C'	CON	AGC	
					Ad	Fi						Y		MOR	
					(Ad)	Sx						Т		MAP	
						NC						V		GHR, PHR	
												FD		ODL	
												r			
												F			

\*Scored for every response

More than one row of Determinants, Content, Cognitive, or Thematic codes can be assigned to each response.

Entries on the same row within a column are mutually exclusive options; only one can be assigned to a response.

#### **R-PAS** Code Sequence

Name	Name: RM			Prot	oco	I	D: 1	Ag	e: 2	25			Gender: Male		Education: N/	A		
Card	#	Or	Loc	Loc #	SR	SI	Content	sy	Vg	2	FQ	P	Determinants	Cognitive	Thematic	HR	ODL (RP)	R- Opt
Ι	1		W			SI	A				0		F		PER			Pr
	2	v	W				NC				u		F					
II	3		Dd	24,5,6,4		SI	NC	Sy			u		v					
	4		Dd	99,4,5		SI	NC	Sy		2	u		v					
	5	٧	W			SI	(Hd),NC	Sy			-		mp			PH		
III	6		D	9			(H),Art	Sy		2	0		Мр			GH		
	7		D	9,7			(H),(Hd)	Sy		2	0		Ма		COP,AGM,MAP	PH		
	8	٧	D	1,3,24		SI	(Hd),Cg	Sy			0		F			GH		
IV	9		D	7			(H)				0	Ρ	FD		AGC	GH		
	10	٧	W				(A)				u		FMa,FD					
V	11		W				A				0		F					
	12	٧	W				A				0		F					
٧I	13		W				(H),Ay,NC	Sy		2	u		Mp,V	INC1		PH	ODL	
	14		Dd	99			(Hd)				-		Y			PH		
	15		Dd	99			NC		٧g		u		Y		MOR			
VII	16		W				(Hd),Art,Cg	Sy		2	0	Ρ	Mp,mp		MOR	PH	ODL	
	17	٧	W			SI	NC				0	Γ	Y,V					
VIII	18		W				A,NC	Sy		2	0	Ρ	FMa		AGC		ODL	
	19		D	8			Ay,NC	Sy		2	0		FC	DV1	MOR,MAP			
	20	v	W				Cg	Sy u		u		FD						
IX	21		Dd	3.26.99			(H),(Hd),Cg,NC	Sy		2	u	Ρ	Mp,mp,Y	FAB1	AGC	PH		
	22		Dd	1,29	SR		(Hd),Ay,NC	Sy		2	-		CF			PH		
Х	23		D	14,8			A,NC	Sy		2	-		FD	FAB1	AGC			
	24		Dd	9,6,99		SI	NC	Sy		2	u		v					

#### **R-PAS Protocol Level Counts & Calculations**

C-ID: Case RM						P-ID: 7			Age: ~25	Gende	er: M	ale			1	Edu	catior	<b>17</b> +			
Section Counts Counts		Calculations			Section	Count	ts			Count	ts			Calculations							
Responses &	R	=	24	R8910	=	7	R8910%	=	29%	Determinants	м		=	5	FC		=	1	WSumC	=	1.5
Administration	Pr	=	1	Pu	=	0				Blends:	FM		=	2	CF		=	1	SumC	=	2
	σ	=	7							FMa,FD	m		=	3	C		=	0	(CF+C)/Sum	<b>C</b> =	NA
										Mp,V Mp,mp	C'		=	0	Y		=	4	мс	=	6.5
Location	W	=	11	D	=	6	<b>W</b> %	=	46%	Y,V Mo mo V	т		=	0	v		=	5	M/MC	=	77%
	Dd	=	7	WD	=	17	Dd%	=	29%	mp,mp, i	r i		=	0	FD		=	4	YTVC'	=	9
															F		=	5	mY	=	7
Space	SR	=	1	SI	=	7				1									F%	=	21%
	AnyS	=	8																PPD	=	14
																MC - PPD	=	-7.5			
Content	н	=	0	An	=	0	SumH	i = 12			а		=	3	p		=	7	p/(a+p)	=	70%
	(H)	=	5	Art	=	2	NPH	=	12		Ma		=	1	Mp		=	4	Mp/(Ma+Mp	) =	80%
	Hd	=	0	Ay	=	3	NPH/SumH	H = 100%			Blend	I	=	5	CBlen	d	=	0	Blend%	=	21%
	(Hd)	=	7	Ы	=	0					_										
	А	=	5	Cg	=	4				Cognitive Codes	DV1	(1)	=	1	DV2	(2)	=	0	WSumCog	=	11
	(A)	=	1	Ex	=	0					INC1	(2)	=	1	INC2	(4)	=	0	SevCog	=	0
	Ad	=	0	Fi	=	0					DR1	(3)	=	0	DR2	(6)	=	0	Lev2Cog	=	0
	(Ad)	=	0	Sx	=	0					FAB1	(4)	=	2	FAB2	(7)	=	0			
				NC	=	13	-				PEC	(5)	=	0	CON	(7)	=	0			
	_																				
<b>Object Qualities</b>										Thematic Codes	ABS		=	0	PER		=	1	MAHP	=	2
Synthesis	Sy	=	15				Sy%	=	62%		СОР		=	1	МАН		=	0	MAP/MAHP	=	NA
Vagueness	Vg	=	1				Vg%	=	4%		AGM		=	1	AGC		=	4	GPHR	=	10
Pair	2	=	11								MOR		=	3	MAP		=	2	PHR/GPHR	=	70%
	_										ODL		=	3					ODL%	=	12%
Form Quality	FQo	=	11	WDo	=	11	FQo%	=	46%		GHR		=	3	PHR		=	7			
and Popular	FQu	=	9	WDu	=	4	FQu%	=	38%												
	FQ-	=	4	WD-	=	2	FQ-%	=	17%	Other	IntCo	nt	=	5	TP-Co	mp	=	1.2	Complexity	=	109
	FQn	=	0	WDn	=	0	WD-%	=	12%	Calculations	CritCo	ont%	6 =	17%	V-Con	np	=	7.7	LS0	=	48
	M-	=	0	Р	=	4					EII-3		=	0.8	SC-Co	mp	=	7.0	Cont	=	36
																			Det	=	25

Counts and Calculations in Bold Font are on the Summary Scores and Profiles Pages

#### R-PAS Summary Scores and Profiles – Page 1

C-ID: Case RM		P-ID: 7		Age	: ~2	5				Geno	der: Mal	e		E	ducati	on: 17	+			
	Raw	R	aw	Cpbx	. Adj.						St	anda	ard Sco	re Pro	ofile					
Domain/variables	Scores	%ile	55	%ile	55							R	-Optin	ized						ADDr.
Admin. Behaviors and Obs.						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
Pr	1	62	104											<u>0</u>						Pr
Pu	0	40	96										<u>o</u>							Pu
CT (Card Turning)	7	75	110											(	Þ_					σ
Engagement and Cog. Processing						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
Complexity	109	91	120													<u> </u>				Cmplx
R (Responses)	24	55	102	14	83									>						R
F% [Lambda=0.26] (Simplicity)	21%	12	83	36	95	1000				(	D									F%
Blend	5	66	106	15	85									0						Bln
Sy	15	97	128	81	113															Sy
мс	6.5	47	99	3	72								<u>q</u>							MC
MC - PPD	-7.5	14	84	16	85	1111					<u> (</u>									MC-PPD
м	5	72	109	24	89									<u> </u>	>					м
M/MC [5/6.5]	77%	88	118	85	115															M Prp
(CF+C)/SumC [1/2]	NA																			CFC Prp
Perception and Thinking Problems						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
EII-3	0.8	89	118	84	115															EII
TP-Comp (Thought & Percept. Com)	1.2	78	111	65	106										$\square$					TP-C
WSumCog	11	74	110	59	103									(	Ф					WCog
SevCog	0	35	94	35	94							C								Sev
FQ-%	17%	83	114	77	111											<u>)</u>				FQ-%
WD-%	12%	76	110	59	103									(	Ф					WD-%
FQo%	46%	16	85	21	87						0									FQo%
Р	4	22	88	20	87	12222						)								Р
Stress and Distress						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
m	3	81	113	46	98															m
Y	4	91	120	83	114											<u> </u>				Y
MOR	3	87	117	79	113														1000	MOR
SC-Comp (Suicide Concern Comp.)	7.0	93	122	81	114															SC-C
Self and Other Representation						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
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#### R-PAS Summary Scores and Profiles – Page 2

C-ID: Case RM		P-ID: 7		Age	: ~2	5				Gende	er: Male	e		E	ducation	n: 17+				
Demois Maria Mari	Raw	R	aw	Cplx	. Adj.						St	andaı	rd Sco	re Pro	file					
Domain/variables	Scores	%ile	55	%ile	55							R-	Optim	ized						ADDr.
Engagement and Cog. Processing						6	0	70	D	80	9	90	100	1	10	120	130	1	40	
<b>W%</b>	<b>46%</b>	63	105	42	97									Ó						<b>W%</b>
Dd%	29%	86	116	90	119										6	D				Dd%
SI (Space Integration)	7	97	127	95	125															<b>5</b> 1
IntCont	5	86	116	75	110										(	Ð				IntC
Vg%	4%	46	99	49	100								Q							Vg%
v	5	>99	140	99	136						Ì									v
FD	4	97	129	95	126												0			FD
R8910%	29%	29	92	36	95	1111						0								R8910%
WSumC	1.5	21	88	2	70															WSC
c	0	36	95	36	95							C								С
Mp/(Ma+Mp) [4/5]	80%	93	122	93	122											•				Mp Prp
Perception and Thinking Problems						6	0	7(	D	80	9	0	100	1	10	120	130	1	40	
FQu%	38%	74	110	68	107										Þ					FQu%
Stress and Distress						6	0	70	D	80	9	90	100	1	10	120	130	1	40	
PPD	14	82	114	48	100															PPD
ΥΤVC'	9	89	118	72	109											1				YTVC'
CBlend	0	28	91	28	91						Ş	6								CBInd
C'	0	14	84	14	84						D									C'
v	5	>99	140	99	136						Ì								5	v
CritCont% (Critical Contents)	17%	46	98	30	92						1		0							CrCt
Self and Other Representation						6	0	70	)	80	9	90	100	1	10	120	130	1	40	
SumH	12	96	126	82	113												0			SumH
NPH/SumH [12/12]	100%	96	127	98	138												•	Į		NPH Prp
r (Reflections)	0	36	95	36	95						Ş	C							1	r
p/(a+p) [7/10]	70%	89	118	89	119											1				p Prp
AGM	1	75	110	75	110										Þ					AGM
т	0	28	91	28	91						Ì	6								Т
PER	1	72	109	72	109						Ì			C						PER
An	0	16	85	16	85						Ò									An

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- R-Optimized Administration
  - Before Test: Ask for "two, maybe three responses"
  - During Test: Prompt for 2, Pull after 4 & Give reminder
  - Designed to have R in range of about 18 to 28
  - Secondarily allows better ability to document when people have difficulty giving or inhibiting responses
- Initial Research:
  - Greatly reduced short & long records; so smaller SD for R
  - Eases the administration task
    - Virtually no re-administration
  - Very little effect on other variables
  - Allows norms to better fit all protocols
    - And thus are better able to identify deviations from norms
  - Potential for less examiner variation across sites

- Clearer and more detailed guidelines for
  - Test administration
    - e.g., rapport, prior exposure, documentation
  - Response clarification
    - Goal: To be able to code with "reasonable certainty," not to "see it the way you do"
    - Questions should target specific coding uncertainties
  - Coding
    - Basic and Advanced chapters
      - e.g., detailed principles; consistent use of threshold benchmark examples

- FQ tables developed with internationally collected data on Fit and Frequency
  - Fit: Judgments of how easily objects are seen
  - Frequency: How often objects are spontaneously reported
  - Tables are quite different from CS
  - Initial data show validity on a par with CS but should have greater international utility
  - FQ tables organized in a user-friendly format

- Use contemporary internationally collected adult normative data from 15 samples
  - Based mostly on contributions to 2007 JPA
    Supplement on Reference Data for the CS
  - Caveat: Modeled to fit R-Optimized admin
  - Caveat: No good normative data for children

- Visual display of profiled results
  - Places all scores on a common metric
  - Convert raw scores to percentiles
    - Does not alter the underlying distributions
  - Convert percentiles to normalized Standard
    Score equivalents with M = 100, SD = 15
    - Slightly modifies the distributions to emphasize deviations at the extremes and de-emphasize them in the average range
- Complexity-Adjusted Scores
  - Provides a way to see what is atypical given a very complex or a very simple record

## Normative Translation Examples

Variable	Raw Score	Percentile	Normal SS Equivalent
Dd	1	15.5	85
	3	47.5	99
	6	80.1	113
Texture	0	27.5	91
	1	68.4	107
	2	88.5	118
FQ-%	03%	15.8	85
	09%	52.1	101
	16%	84.0	115

#### R-PAS Summary Scores and Profiles – Page 1

C-ID: Case RM		P-ID: 7		Age	: ~2	5				Geno	der: Mal	e		E	ducati	on: 17	+			
	Raw	R	aw	Cpbx	. Adj.						St	anda	ard Sco	re Pro	ofile					
Domain/variables	Scores	%ile	55	%ile	55							R	-Optin	ized						ADDr.
Admin. Behaviors and Obs.						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
Pr	1	62	104											<u>0</u>						Pr
Pu	0	40	96										<u>o</u>							Pu
CT (Card Turning)	7	75	110											(	Þ_					σ
Engagement and Cog. Processing						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
Complexity	109	91	120													<u> </u>				Cmplx
R (Responses)	24	55	102	14	83									>						R
F% [Lambda=0.26] (Simplicity)	21%	12	83	36	95					(	D									F%
Blend	5	66	106	15	85									0						Bln
Sy	15	97	128	81	113															Sy
мс	6.5	47	99	3	72								<u>q</u>							MC
MC - PPD	-7.5	14	84	16	85	1111					<u> (</u>									MC-PPD
м	5	72	109	24	89									<u> </u>	>					м
M/MC [5/6.5]	77%	88	118	85	115															M Prp
(CF+C)/SumC [1/2]	NA																			CFC Prp
Perception and Thinking Problems						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
EII-3	0.8	89	118	84	115															EII
TP-Comp (Thought & Percept. Com)	1.2	78	111	65	106										$\square$					TP-C
WSumCog	11	74	110	59	103									(	Ф					WCog
SevCog	0	35	94	35	94							C								Sev
FQ-%	17%	83	114	77	111											<u>)</u>				FQ-%
WD-%	12%	76	110	59	103									(	Ф					WD-%
FQo%	46%	16	85	21	87						0									FQo%
Р	4	22	88	20	87	12222						)								Р
Stress and Distress						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
m	3	81	113	46	98															m
Y	4	91	120	83	114											<u> </u>				Y
MOR	3	87	117	79	113														1000	MOR
SC-Comp (Suicide Concern Comp.)	7.0	93	122	81	114															SC-C
Self and Other Representation						6	0	70	)	80	9	90	100	1	10	120	13	0	140	
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#### R-PAS Summary Scores and Profiles – Page 1

C-ID: Case RM		P-ID: 7		Age	: ~2	5				Ge	nder: I	Male				Ec	ducati	on: 1	7+				
	Raw	Ri	aw	Cplx	. Adj.							Stan	dard S	5cor	e Pro	file							A.L.L.
Domain/variables	Scores	%ile	55	%ile	55								R-Op	timiz	zed								ADDr.
Admin. Behaviors and Obs.						6	0	7	0	80	)	90	1	.00	1	10	12	20	13	0	140	)	
Pr	1	62	104												Ś								Pr
Pu	0	40	96										Ø										Pu
CT (Card Turning)	7	75	110													Þ∣							σ
Engagement and Cog. Processing						6	0	7	0	80	)	90	1	00	1	10	12	20	13	0	140		
Complexity	109	91	120														(	D					Cmplx
R (Responses)	24	55	102	14	83									0									R
F% [Lambda=0.26] (Simplicity)	21%	12	83	36	95								¢										F%
Blend	5	66	106	15	85						ġ				<u>0</u>								Bln
Sy	15	97	128	81	113																		Sy
мс	6.5	47	99	3	72									2									MC
MC - PPD	-7.5	14	84	16	85	1111					Ð												MC-PPD
м	5	72	109	24	89																		м
M/MC [5/6.5]	77%	88	118	85	115												$\odot$						M Prp
(CF+C)/SumC [1/2]	NA																						CFC Prp
Perception and Thinking Problems						6	0	7	0	80	)	90	1	.00	1	10	12	20	13	0	140		
EII-3	0.8	89	118	84	115												$\odot$						EII
TP-Comp (Thought & Percept. Com)	1.2	78	111	65	106										(								TP-C
WSumCog	11	74	110	59	103											Þ∣							WCog
SevCog	0	35	94	35	94						ł		0										Sev
FQ-%	17%	83	114	77	111												)						FQ-%
WD-%	12%	76	110	59	103											Þ							WD-%
FQo%	46%	16	85	21	87						Ô												FQo%
Р	4	22	88	20	87																		Р
Stress and Distress						6	0	7	0	80	)	90	1	.00	1	10	12	20	13	0	140	)	
m	3	81	113	46	98																		m
Y	4	91	120	83	114												(	D					Y
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SC-Comp (Suicide Concern Comp.)	7.0	93	122	81	114																		SC-C
Self and Other Representation						6	0	7	0	80	)	90	1	00	1	10	12	20	13	0	140	)	
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- Secure online scoring program
  - www.r-pas.org
  - Accessible from any web-enabled device
  - Clinical, Teaching or Research Accounts
    - Cost: Varies from free to \$5 per protocol
  - Does not require any Protected Health Info
  - Protocols can be saved, deleted, shared, or exported
  - Translations underway into multiple languages

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 Overall, R-PAS allows users to make informed inferences about personality, perception, and cognitive processes by comparing a sample of observed problemsolving behavior obtained in a standardized context to internationally based expectations

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Gregory J. Meyer, Ph.D. Gregory.Meyer@UToledo.edu

<u>www.r-pas.org</u>