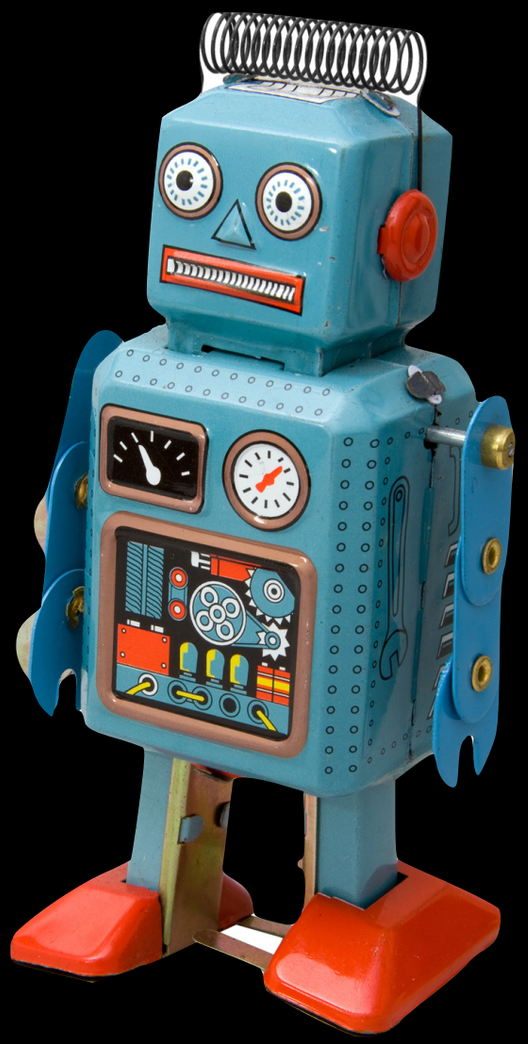
Supporting clinical decisions with physiologically guided metrics

Clinical Decisions

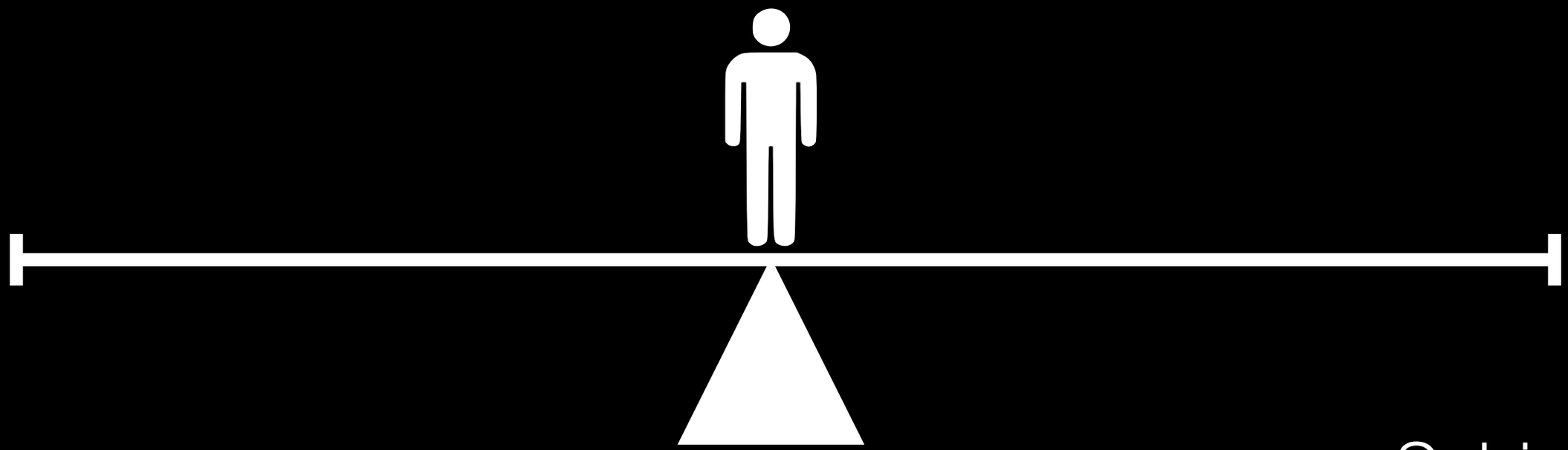
Both needed

Objective

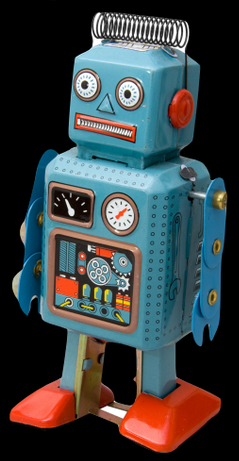


Subjective

Clinical Decisions Balance



Objective

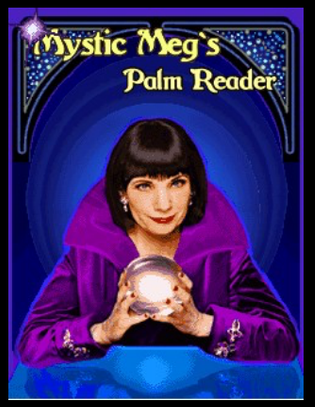


Subjective

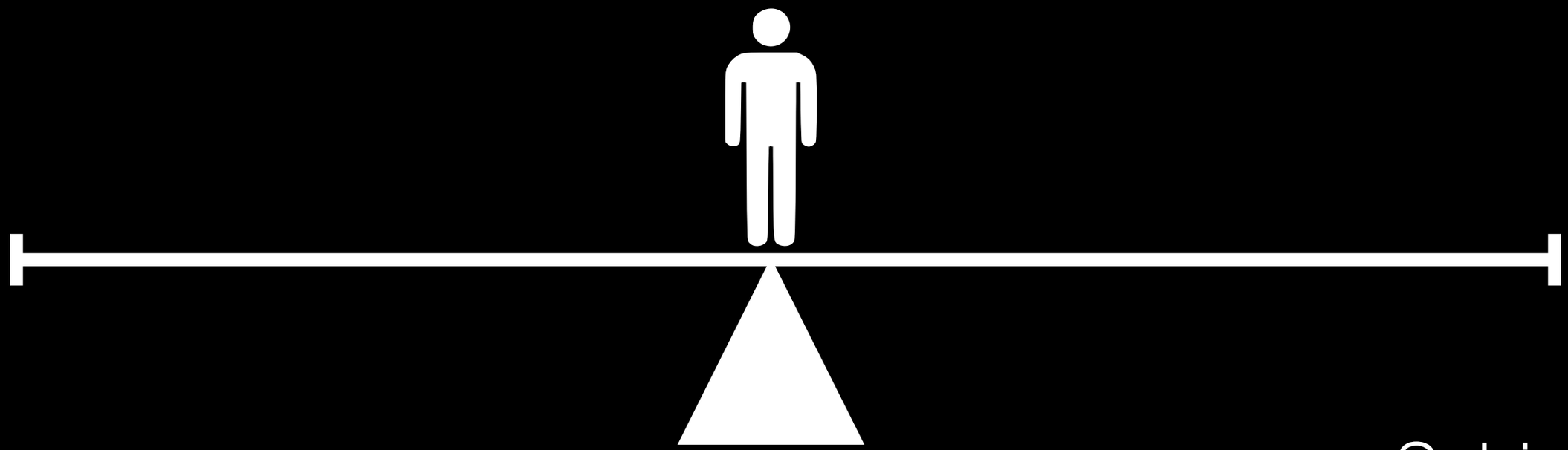
patient report

palpation

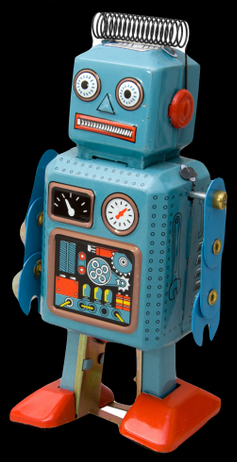
diet



Clinical Decisions Balance



Objective

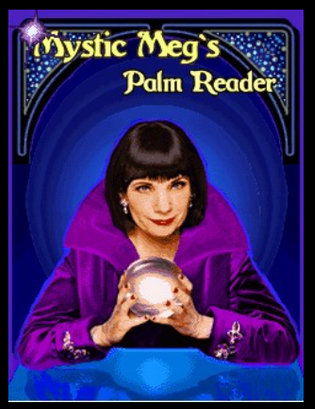


lab values

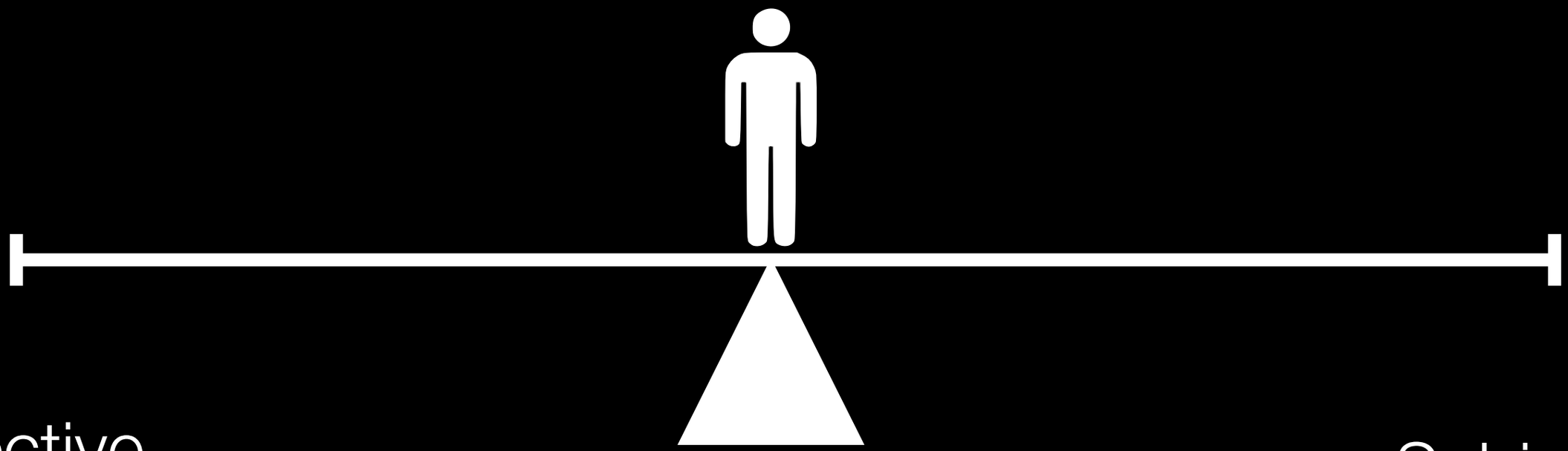
aspiration presence

mm of hyoid movement

Subjective



Dysphagia Management



Objective

confirm swallow

confirm aspiration

swallowing metrics (msec,mm)

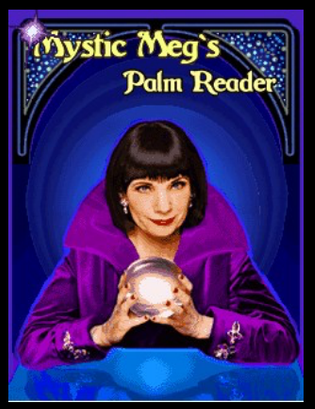
Subjective

patient report

clinical exam

palpation

diet



Objective

Numeric Value

metric units, ranking, scoring measure

Obvious Judgement

millimeters, counting, seconds

Reliability
(within-person &
between-person)

Validated

Normative Values

Objective

Numeric Value

metric units, ranking, scoring measure

Obvious Judgement

highly reliable observation: death, amputee

Reliability
(within-person &
between-person)

Validated

Normative Values

Objective

Numeric Value

metric units, ranking, scoring measure

Obvious Judgement

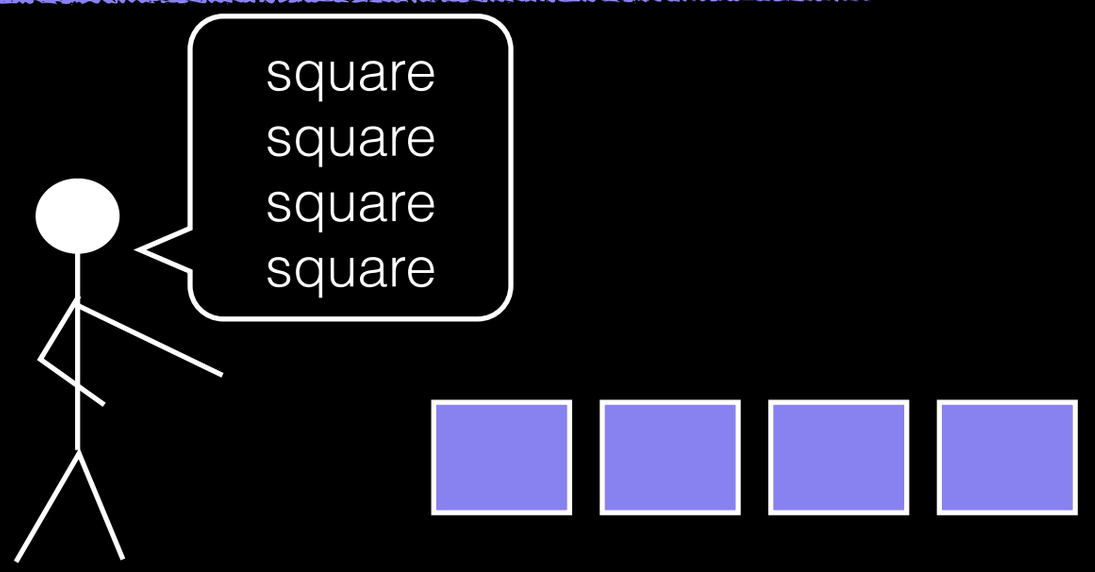
highly reliable observation: death, amputee

Reliability (within-person & between-person)

you and/or someone else would consistently make the same decision

Validated

Normative Values



Objective

Numeric Value

metric units, ranking, scoring measure

Obvious Judgement

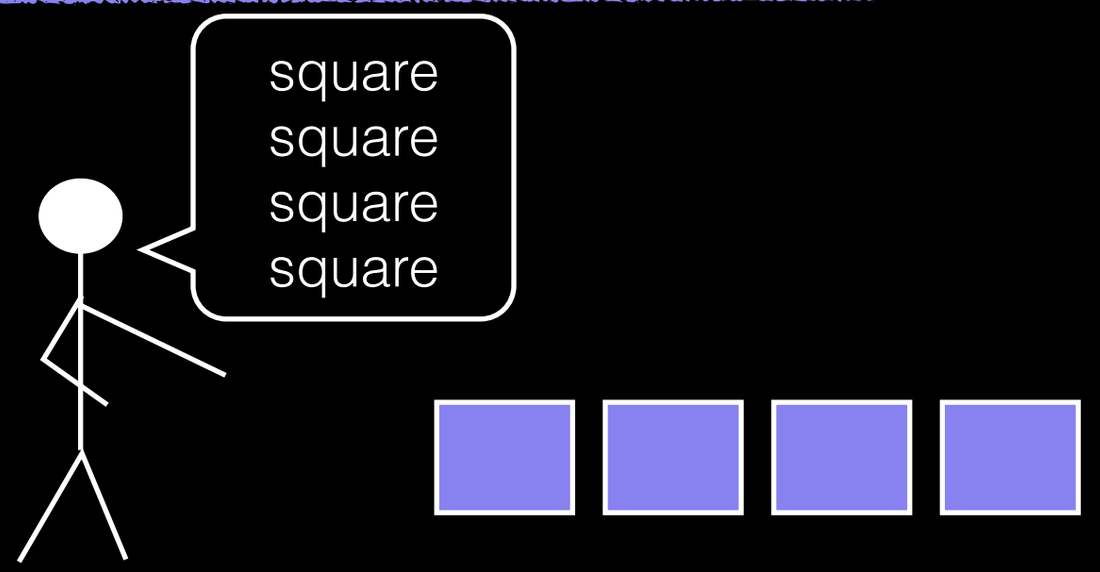
highly reliable observation: death, amputee

Reliability (within-person & between-person)

you and/or someone else would consistently make the same decision

Validated

Normative Values



Person 1 - encounter 2

Objective

Numeric Value

metric units, ranking, scoring measure

Obvious Judgement

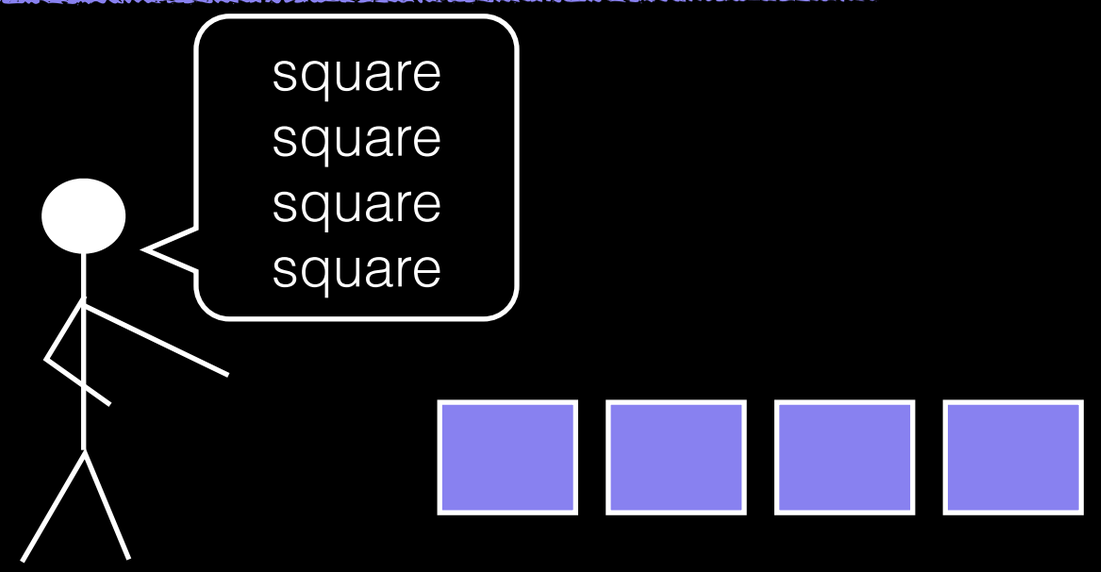
highly reliable observation: death, amputee

Reliability
(within-person &
between-person)

you and/or someone else would
consistently make the same decision

Validated

Normative Values

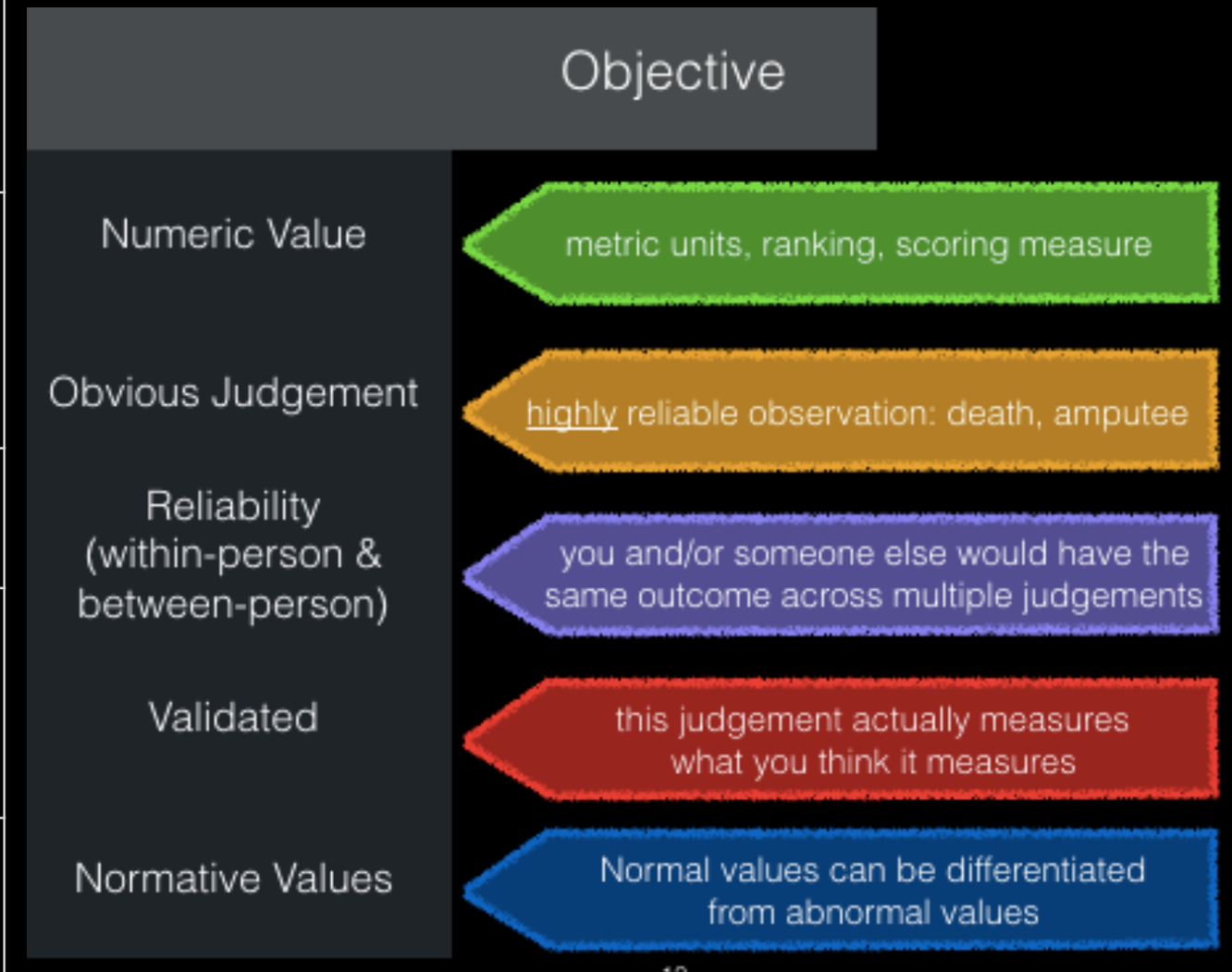


Objective

Numeric Value	metric units, ranking, scoring measure
Obvious Judgement	highly reliable observation: death, amputee
Reliability (within-person & between-person)	you and/or someone else would have the same outcome across multiple judgements
Validated	this judgement actually measures what you think it measures
Normative Values	Normal values can be differentiated from abnormal values

Each of us can do a clinical exam

But how objective vs subjective is it?

Clinical Examination

	A	B	C
Function	**OBJ**	**SBJ**	**Neither!**
lingual strength (non swallow)			
lingual strength (swallow)			
swallow presence			
aspiration			
swallow delay			
hyo-laryngeal ROM