Psychiatry Clerkship Orientation 2019-2020 Dr. Chelsea Carson, Clerkship Director Dr. Sameera Azeem, Associate Clerkship Director

Clerkship Orientation Overview

Important Psychiatry Clerkship Components
Psychiatric Interview

Suicide Risk Assessment

Mental Status Exam
Psychopharmacology Overview
Mental Status Exam D2L Assignment

Clerkship Leadership



Clerkship Director: Chelsea Carson, M.D.

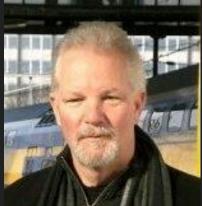


Associate Clerkship Director: Sameera Azeem, M.D.

Clerkship Site Directors



SW Campus: Joe Morgan, M.D.



NW/Rome Campus: Joe Seal, M.D.



NE/Athens Campus: David Paulk, D.O.



SE Campus: Mike Mobley, M.D.

Your Job During the Clerkship

• Enjoy every day! People will tell you amazing life stories in the next month.

• This may be your only experience with psychiatry during your clinical years.....however...

• No matter what specialty you pursue, you will not be able to avoid psychiatry!

If you do choose to pursue psychiatry as your specialty, there are so many areas to work in!

- Adult/General Psych
- O Child & Adolescent Psych
- O Geriatric Psych
- Inpatient/Outpatient/Resi dential/Day Treatment
- Forensic Psych
- Consult-Liaison/Psychosomatic

- O Addictions
- O ECT/TMS
- O Sleep Medicine
- O Pain Medicine
- O Brain Injury
- O Emergency Psych
- Reproductive Psych
- O Research

Your Job During the Clerkship

- **Review Phase 3 policies** (esp. retake and grade appeal policies)
- Study from day 1: Departmental and NBME exam are difficult and do not examine purely psychiatric knowledge
- Respect and learn from your team! \rightarrow IPE experience
 - SW, psychologists, counselors and other therapists, occupational therapists, peer support specialists, nurses, pharmacists, PAs/NPs, other health professional students
- Report any problems EARLY to your attending, clerkship director, and/or coordinator so we can address and/or fix something.
 - Supervision adequacy by faculty
 - O Mistreatment
 - O Duty hours concerns

Psychiatry Clerkship Do's & Don'ts

Do's:

Don'ts:

- Ask for contact numbers for attending/residents
- Arrive early to wards/clinics

Ask questions

- Ask for feedback on your interviews and write-ups
- Offer to present cases or short (5 min) literature reviews weekly
- Respect and advocate for your patients
- Send short/part-time evals to residents and faculty
- Evaluate your sites, preceptors and residents
- **Submit** your D2L assignments (not just save!)
- Always carry your clerkship survival guide!

- Be overly familiar with patients and staff (watch out for selfdisclosure)
- Break confidentiality barriers
- Contact your site preceptor for appeals
- Miss mandatory didactics/clinical activities (professionalism)
- Miss D2L deadlines for quizzes/assignments: Sundays 10pm

A Note on Professionalism

• Professional attire:

- WHEN IN DOUBT, ASK! And if you're in doubt, just go with no...
- Cell phone use: Always ask if you want to have it out or let your preceptor know if you are looking up information. Otherwise keep it out of sight during clinical work/rounds.
 - Be mindful of generational gaps in expectations about technology use during clinical work
- O Timeliness and attendance at all clinical activities → Unexcused absence will affect your final professionalism grade
- Notification of any absences to your team and clerkship leadership
- Check and respond to clerkship-related emails
- O Interprofessional communication

Student and Patient Safety

- This is not to scare or intimidate you.
- Our patients are acutely and often severely psychiatrically ill when you will be working with them in an emergency or inpatient setting.
- They may have more impulsive behavior and may say things they normally wouldn't, and some things they may say can come across as offensive (this is different from purposeful offensive statements which is not acceptable).
- We want you to be aware, prepared, and understand our patients and their illnesses.

Student and Patient Safety

- TODAY: Ask your resident and/or faculty about any site-specific safety protocols and/or recommendations
 - Ie. Panic buttons, keys, etc.
- O Do **NOT** interview patients in their bedrooms
 - Utilize common areas, interview rooms, or other areas where staff are present but confidentiality can be maintained
- Monitor both your and patient's personal boundaries; keep a safe distance
 - What's comfortable for you may not be for an acutely ill patient; **LEAVE EXTRA SPACE**
- If you feel uncomfortable, take a break from the interview and let your resident/attending know; ask them to assist your interview or return to patient later when patient is calm
 - Watch for signs of anger/frustration/agitation, substance abuse, paranoia/other psychosis
- Stay between patient and door when possible
- Know where patients and staff are at all times and in which direction your back is facing

Outpatient Clinic Experiences:

- These may not be like other clerkship clinic experiences due to the structure and function of most mental health clinics.
- There may be more observation occurring than in other outpatient experiences.
- When possible, utilizes objective questionnaires/measures related to your patients' diagnoses to facilitate more interactive experiences
 - These can be found in D2L under each topic category in your weekly checklists
 - Can be done when a patient checks in to clinic and is waiting to be seen by attending, etc. and then presented to attending
- Try to utilize time between patients etc. to discuss cases with your resident/attending.

• Ask questions!



The Free Mental Health Clinic

• Providing psychiatric evaluations and medication management services to the uninsured and underinsured community who are at or below 200% of the federal poverty line.

Where:

997 Saint Sebastian Way

Augusta, GA 30912

- 18 years old and above.
- No controlled substance will be prescribed.

When:

- Last Thursday of Every Month
- 6 8 pm
- Starting April 2019
- Walk-ins welcome!

Contact us: <u>freementalhealthclinic19@gmail.com</u> Facebook: @freeMHC

For info on volunteering as a medical student, contact Norah Essali, MD (Psychiatry Resident) nessali@augusta.e du

EQUALITY CLINIC of Augusta

What is the Equality Clinic? The Equality Clinic is a free, studentrun clinic that promises an LGBTQfriendly environment for primary care services by culturally competent providers. Who does the clinic serve?

Underinsured and uninsured individuals who fall within 200% of the federal poverty level

Where is the clinic?

987 Saint Sebastian Way on the AU Health Sciences Campus See map on the back for details.

When can I come to the clinic? We operate on the second and fourth Wednesdays of each month, starting at 5pm. Contact us to schedule an appointment.

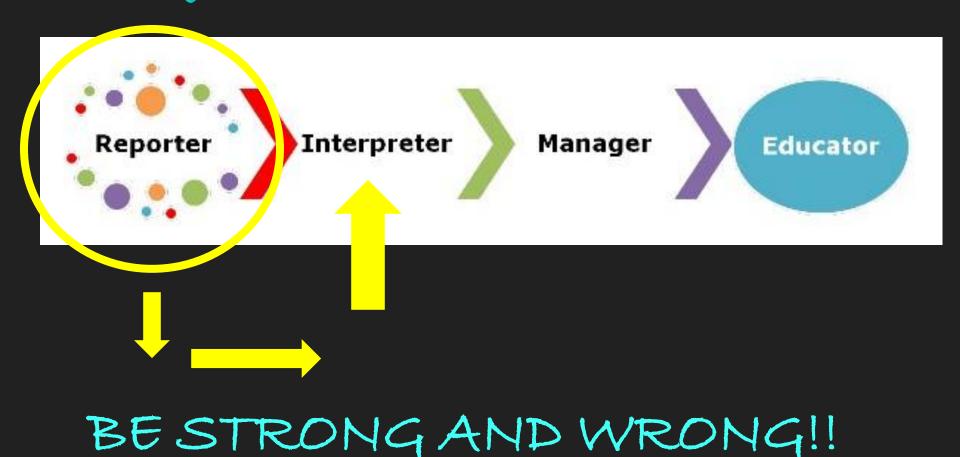
	Se	ervices offered:	
	0	Primary care	
	0	Gender-	
		affirming care	
1		and support	
4	0	Mental health	
-	3	screenings and	
ł	5	support	
A.	0	Free rapid HIV	
	2	screening	
	0,	PrEP	
	0	Oral health	
	}	screenings	
	5		
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More information at

Or contact us at <u>Jalityclinicaugusta@gmail.c</u> om or (762) <u>218-2226</u>

Contact Dr. Lara Stepleman for volunteering info: Isteplem@augusta.edu

Your Role in the 3rd Year



The Psychiatric Interview

Psychiatric Interview

O It takes skill!

 Skill to encourage disclosure of personal information for a professional purpose

 \bigcirc Empathy \rightarrow rapport \rightarrow therapeutic alliance

Content vs. Process

- What information we get vs..
- How we get it

Diagnostic vs. Dynamic

- **Diagnostic**: Happens early
- **Dynamic** interview = Extended process; elicits bio-psycho-social and cultural aspects of the illness

Verbal Interventions

Affirmation: "I see"

- Advice/praise: "I'm so proud of you that you stopped smoking!"
- Empathic validation: "It hurts to be treated that way"
- **Encouragement to elaborate**: "Tell me more about your mother"
- **Clarification**: Pull together patient's verbalizations in a more coherent way
- **Confrontation**: Address something patient does not want to accept. Reflects back to patient a denied or suppressed feeling.
- Interpretation: One of most expressive forms of treatment; therapist's decision-making; makes something conscious that was previously unconscious.

Psychiatric interview

O<u>Chief complaint:</u> Patient's own words

- What brought the patient in?
- Why now and not 6 months ago? Past week? Past 24hrs?

OHPI: How do you obtain this information?

Psychiatric Interview

O Chief complaint:

Patient's own words

- What brought the patient in?
- Why now and not 6 months ago? Past week? Past 24hrs?

- <u>HPI:</u> Same as other specialties
 - O Onset
 - Location
 - **D**uration
 - **O** Character
 - Aggravating/alleviating factors
 - Region/radiation
 - **O** Timing
 - Severity

Psychiatric interview

O<u>Psychiatric History</u>: What are the components?

Psychiatric Interview

• **Psychiatric History**: Course/treatment

- Onset of initial treatment?
 - OWhen?
 - Who initiated it?
 - O Patient? Family? School? Legal system? Military? Social services?
- Current and previous psych diagnoses
- Treatment settings: Outpatient (including PHP, IOP) vs. inpatient/hospital setting
- Treatment: Medication, psychotherapies, group therapies, somatic treatments, substance abuse treatment

Psychiatric History Continued

- Suicidality: Previous suicide attempts, self-harm, suicidal ideation (SI)
- History of aggressive behavior and homicidal ideation (HI):
 - Toward other people, property, animals

Suicide Risk Assessment

- If current SI is present:
 - Obtain information as you would for any HPI (OLDCARTS)
 - O Active vs. Passive
 - O Plan
 - O Intent
 - Access to means
 - Triggers/stressors
 - **PREPARATORY BEHAVIOR**: Did this include anything beyond verbalizing a thought? For example collecting pills, getting a gun, giving away valuables or writing a suicide note?

Suicide Risk Assessment Continued

- Additional Terminology
 - An interrupted attempt: Stopped by someone else: for example, pt holding pills in their hand, someone grabs them by the hand; noose round neck but has not started to hang and is stopped; pointed gun toward self, someone else takes the gun
 - An **aborted** attempt is stopped by the person after they took steps toward making an attempt

Suicide Risk

O Mood disorders: 15-20%

- Bipolar mixed=highest risk
- O Delusional depression
- Schizophrenia: 5-10% (young male, insight, high IQ, command hallucinations)
 - 3 wks 3 mo. from hospitalization
- O Substance abuse:
 - Young male, multiple substances, recent loss, comorbidities, previous OD

OWHAT WORKS TO DECREASE RISK: LI, CLOZAPINE, ECT, psychotherapy!!

COLUMBIA-SUICIDE SEVERITY RATING SCALE

Screen Version

	UICIDE IDEATION DEFINITIONS AND PROMPTS		st nth
	Ask questions that are bolded and <u>underlined</u> .	YES	NC
	Ask Questions 1 and 2		
1)	Wish to be Dead: Person endorses thoughts about a wish to be dead or not alive anymore, or wish to fall asleep and not wake up.		
	Have you wished you were dead or wished you could go to sleep and not wake up?		
2)	Suicidal Thoughts: General non-specific thoughts of wanting to end one's life/commit suicide, " <i>I've thought about killing myself</i> " without general thoughts of ways to kill oneself/associated methods, intent, or plan.		
	Have you actually had any thoughts of killing yourself?		
	If YES to 2, ask questions 3, 4, 5, and 6. If NO to 2, go directly to question 6.		_
3)	Suicidal Thoughts with Method (without Specific Plan or Intent to Act): Person endorses thoughts of suicide and has thought of a least one method during the assessment period. This is different than a specific plan with time, place or method details worked out. "I thought about taking an overdose but I never made a specific plan as to when where or how I would actually do itand I would never go through with it."		
	Have you been thinking about how you might kill yourself?		
4)	Suicidal Intent (without Specific Plan): Active suicidal thoughts of killing oneself and patient reports having <u>some intent to act on such</u> thoughts, as opposed to " <i>I have the thoughts but I definitely will not do anything about them.</i> "		
	Have you had these thoughts and had some intention of acting on them?		
5)	Suicide Intent with Specific Plan: Thoughts of killing oneself with details of plan fully or partially worked out and person has some intent to carry it out.		
	Have you started to work out or worked out the details of how to kill yourself? Do you intend to carry out this plan?		
6)	Suicide Behavior Question:		
	Have you ever done anything, started to do anything, or prepared to do anything to		
	<u>end your life?</u> Examples: Collected pills, obtained a gun, gave away valuables, wrote a will or suicide note, took out pills but didn't swallow any, held a gun but changed your mind or it was grabbed from your hand, went to the roof but didn't jump; or actually took pills, tried to shoot yourself, cut yourself, tried to hang yourself, etc.		

For inquiries and training information contact: Kelly Posner, Ph.D. New York State Psychiatric Institute, 1051 Riverside Drive, New York, New York, 10032; posnerk@nyspi.columbia.edu © 2008 The Research Foundation for Mental Hygiene, Inc.

Columbia Suicide Severity Rating Scale

Suicide Risk Assessment: SAD PERSONS

Table 4. SAD PERSONS Scale.				
Factor	Points			
S = Sex (male)	ĩ			
A = Age (<19 or >45 years)	ĩ			
D = Depression	ĩ			
P = Previous suicide attempt	ĩ			
E = Ethanol abuse	ĩ			
R = Rational thinking loss	ĩ			
S = Social supports lacking	1			

Score less than 2: discharge with outpatient psychiatric evaluation

S = Sickness (chronic debilitating disease)

1

1

1

0 = Organized plan

N = No spouse

Score of 3-6: consider for hospitalization or at least very close follow-up

> Score of 7 or greater: hospitalization

Source: Patterson WM, Dohn HH, Bird J, et al. Evaluation of suicidal patients: the SAD PERSONS scale. *Psychosomatics* 1983 Apr;24(4):343-345, 348-349.

Assessment of Homicidal Ideation

- If current HI is present:
 - Obtain information as you would for any HPI (OLDCARTS)
 - Active vs. Passive
 - O Specific target or general
 - O Plan
 - O Intent
 - O Access to means
 - Access to target
- Mandated reporting
- History of aggressive behavior

Psychiatric Review of Systems

• Symptom inventory, sequence, and duration

- Depressive or bipolar
- O Psychosis
- O Anxiety, obsessive-compulsive, and trauma-related disorders
- O Substance & alcohol use
- O Neurocognitive disorders
- Other disorders: neurodevelopmental, somatic symptom, factitious, impulse control, dissociative, sexual dysfunctions, feeding and eating, sleep-wake, disruptive, impulse control and conduct disorders

• Personality disorders

• Explore temporal relationships: Cause vs. Co-morbidity

Psychiatric Interview: Other History Components

- Medical History: Allergies, medical problems, surgeries
- Family Medical & Psychiatric History
 - Psychiatric illness, substance abuse, legal history, suicide
- Social History:
 - Living situation
 - Marital status/sexual history/relationship history
 - Occupational history
 - O Educational history
- Abuse/Trauma History: Physical, sexual, emotional/psychological, neglect, other traumatic events

• Substance Use History:

- Type (name them for patient)
- Age of first and last use
- O Quantity/frequency
- Longest period of sobriety
- O Withdrawal symptoms
- O Any treatment
- O Legal history
- Religious affiliation
- O Cultural identification

Psychiatric Interview: Other History Components

O Developmental:

In utero exposures to medications, drugs
Pregnancy and/or delivery complications
Full-term vs. premature
NICU/Early illnesses requiring hospitalization
Delays in meeting developmental milestones?
Family structure
DFCS or other involvement

Ask About Strengths

- What did you use to enjoy before you became ill?
- What are you good at?
- How has your illness and its treatment affected your
 - Physical activities
 - Relationships with family and friends
 - O Job and hobbies
 - Feelings about yourself
 - Spiritual/religious beliefs
- O What is the most difficult thing about your illness and its treatment?
- O Any positive experience with your illness/treatment?
- O Doing this will help in formulating an effective treatment plan!!

Objective/Physical Examination

Vital signs
Mental status exam
+/- Cognitive exam (for example MOCA, MMSE) in the last 5 minutes

O Labs/Imaging

Differential Diagnosis/ Formulation & Treatment Plan

• <u>Differential diagnosis</u>: Most likely 2-3 (likely more to start) and <u>why</u>? Specific examples and factors for and against

• <u>Formulation</u>:

- <u>Biologic</u>: Genetic d/o / substance / medical
- <u>Psychologic</u>: Relate childhood / development to current conflicts
- <u>Social-cultural</u>:

+Prognosis: Function at work, hobbies, stable relationships, faith, volunteer: reflect ego strength

- Prognosis: Poor relationships, impulsivity, bad work history, non-adherence

• <u>Treatment Plan</u>:

• State goals of each of the following (include patient's goals) for each problem/diagnoses:

O Medication: Why / side-effects / complications / compliance problems.

- O Therapy: Individual / group
 - Supportive / insight: behavioral / cognitive / psychodynamic

How to Present a Patient Case: New Patient

• Patient is a [age] [ethnicity] [sex] with a hx of [diagnoses] who presents for [cc].

O HPI

- O Psych ROS
- All additional histories w/ pertinent positives and negatives
- Objective:
 - O VS
 - O MSE
 - Any labs/imaging
- O Differential dx/Biopsychosocial formulation
- O Treatment Plan

How to Present a Patient Case: Follow-up Patient

- Patient is a [age] [ethnicity] [sex] with [diagnoses] who was admitted for/is following up for [cc/dx].
- Yesterday/At last visit [what was done/med changes/etc.]
- O Since then [updated status]
- O Objective:
 - O VS
 - O MSE
 - Any new labs/imaging
- Current medication regiment
- O Updated diagnoses/formulation
- O Treatment Plan

Mental Status Exam

Mental Status Exam (MSE)

• The objective portion of your psychiatric H&P and daily "SOAP"/progress notes

- Provide a description of your patient that your resident/attending can visualize prior to actually seeing your patient
- Objective snapshot in time
- Helps build your differential diagnosis
- Describe, describe, describe if you're not sure what to call something!

MSE Components

- ID/appearance/
 behavior
- O Orientation
- O Psychomotor behavior
- O Speech
- O Mood
- O Affect

- O Thought process
- O Thought content
- O Perception
- O Insight
- O Judgment
- O Memory/
 - concentration/
 - attention



ID/Appearance/Behavior

OID: age, sex, ethnicity • Appearance: OApparent age OBody habitus **O**Clothing **O**Grooming **O**Odor OScars OTattoos/piercings

Behavior:
Toward interviewer
Eye contact
Attentiveness
Level of consciousness

Orientation

Person
Place
Time
Situation

"A&Ox_/4" (ID what is incorrect; what patient says)

Psychomotor Behavior

Retarded vs. accelerated/agitated
 Involuntary movements
 Organic vs. Medication-induced?

Speech

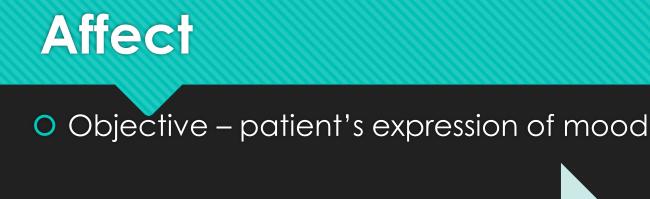
Spontaneous/
Nonspontaneous
Volume
Rate
Tone
Articulation

Speech latency
 Paucity of speech content
 Pressured

Mood

Subjective
Elicited from the patient themselves
Depressed, sad, dysphoric, euphoric, anxious, angry, irritable, happy, hostile...

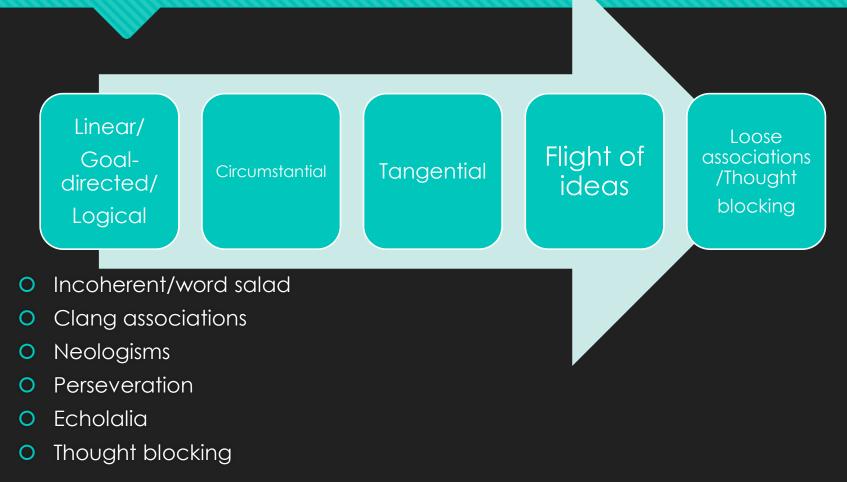
"Quote the patient" when possible





Congruent/incongruent with mood
Appropriate/inappropriate
Labile/stable





Thought Content

Preoccupations
Obsessions
Phobias
Overvalued ideas
Suicidality
Homicidality

O Delusions

OGrandiose, persecutory, somatic, nihilistic, religious, jealousy, erotomanic, culture-bound, control (thought broadcasting or insertion) OMood congruent/ incongruent OSpecify if bizarre

Perception (or Thought Content)

• Hallucinations and illusions

 Sensory system: auditory, visual (hypnogogic, hypnopompic), tactile, olfactory

ODepersonalization/derealization=

detachment (symptoms of dissociation)

ONightmares

Insight & Judgment

O Insight

OPatient's understanding of their illness

O Judgment

O Examples of harmful behaviors

OTest an imaginary situation

OStamped addressed envelope

OAbstraction

OProverb

Memory/Attention/Concentration

OSerial 7's
OWorld → dlrow
OImmediate and delayed recall

Olf not doing a complete MMSE/MOCA

MINI-MENTAL STATUS EXAM (Folstein, 1975 – proprietary)

Orientation

- What is the (year) (season) (date) (day) (month)?
- Where are we: (state) (county) (town) (hospital) (floor)?

Registration Temporal

• Name 3 objects: one second to say each. Ask the patient all three after you have said them. Give 1 point for each correct answer. Then repeat them until he/she learns all three. Count trials and record:

ATTENTION AND CALCULATION Frontal

• Serial 7's. One point for each correct. Stop after five answers. Alternatively spell "world" backwards.

Recall Temporal

Ask for the three objects repeated above. Give one point for each correct.

Language Fronto-temporal

- Repeat the following "no ifs, ands or buts." (1 pt.) Follow a 3-stage command: "take a paper in your right hand, fold it in half, and put it on the floor" (3 pts.)
- O Name a pencil, and watch (2 pts.) Occipital
- Read and obey the following: close your eyes (1 pt.) Write a sentence (1 pt.) Copy design (1 pt.) Parietal

Consciousness RAS

http://enotes.tripod.com/MMSE.pdf

Alert; drowsy; stupor ; coma.

Executive Function - Frontal

= Ability to think abstractly, plan, initiate and sequence, monitor and stop complex behavior; insight, judgment

Bedside measures

- O Luria motor test: Alternate hand movements; fist, cut; slap.
- Word fluency test: "Tell me 5 words starting with the letter "a"
- Similarities: Ability to apply abstract concepts.
- **Proverb interpretation:** Conceptual thinking ability
- Clock drawing: "This circle represents a clock face. Please put the numbers, so that it looks like a clock and then set the time to 10 minutes past 11" (parietal and frontal lobes involved)

K. I. SHULMAN

Severity Scores from 5 to 0

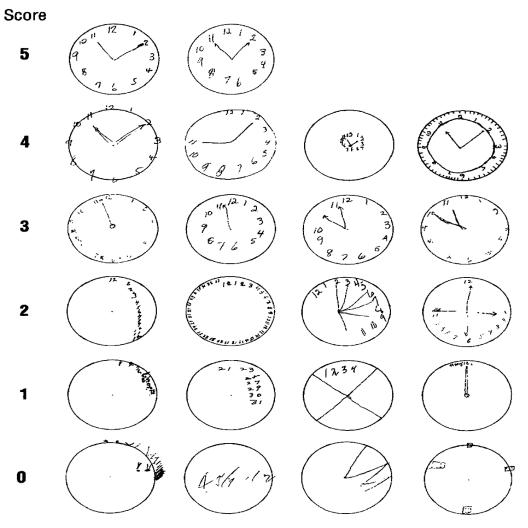


Fig. 1. Severity scores from 5 to 0

5 point scale (Shulman):

5 points: Perfect clock

4: Minor visual-spatial errors

3: Inaccurate representation of 10 past 11 with good visual-spatial representation

2: Moderate visual-spatial disorganization, such as accurate representation of 10 past 11 is impossible

1: Severe visual-spatial disorganization

0: No reasonable representation of a clock

MOCA: Montreal Cognitive Assessment

<u>http://www</u> <u>.mocatest.o</u> <u>rg/default.a</u> <u>sp</u>

NAME : MONTREAL COGNITIVE ASSESSMENT (MOCA) Version 7.1 Original Version Sex : DATE :							
VISUOSPATIAL / EX End 5 Begin	(ECUTIVE A B 2		Copy cube	Draw CL (3 points)	OCK (Ten past e	leven)	POINTS
© ©	(4) (3)		[]	[] Contour	[] Numbers	[] Hands	/5
NAMING		A Lot		and the second second			/3
MEMORY repeat them. Do 2 trials Do a recall after 5 minu	Read list of words, subject must , even if 1st trial is successful. tes.	FA 1st trial 2nd trial	CE VELVI	ET CHUR	CH DAISY	RED	No points
ATTENTION Read list of digits (1 digit/sec.). Subject has to repeat them in the forward order [] 2 1 8 5 4 Subject has to repeat them in the backward order [] 7 4 2 2					_/2		
Read list of letters. The	subject must tap with his hand at			LBAFAKD	EAAAJAMO	DFAAB	/1
Serial 7 subtraction starting at 100 [] 93 [] 86 [] 79 [] 72 [] 65 4 or 5 correct subtractions: 3 pts , 2 or 3 correct: 2 pts , 1 correct: 1 pt , 0 correct: 0 pt					/3		
LANGUAGE Repeat : I only know that John is the one to help today. [] The cat always hid under the couch when dogs were in the room. [] .				/2			
Fluency / Name maximum number of words in one minute that begin with the letter F [] (N ≥ 11 words)					/1		
ABSTRACTION Similarity between e.g. banana - orange = fruit [] train – bicycle [] watch - ruler					/2		
DELAYED RECALL	Has to recall words FA WITH NO CUE		CHURCH	DAISY F	Points for] UNCUED recall only		/5
Optional	Category cue Multiple choice cue						
ORIENTATION	[]Date []Mon	th []Year	[] Day	, []	Place []	City	/6
© Z.Nasreddine MD	www	v.mocatest.org	Norma	al ≥26 / 30	TOTAL		/30
Administered by:				(Add 1 point	if ≤ 12 yr edu	

Psychopharmacology Basics

Antidepressants: SSRIs

MOA: Inhibit 5HT reuptake

Side Effects:

GP5HT3 receptors activation

Sexual D2, Ach blockade, 5HT reuptake inhibition

- Endocrine SIADH; hyponatremia more frequent in older ♀
- Discontinuation sdr.
- **Pregnancy** paroxetine class d

Increased suicidal behavior in children & adolescents

Serotonin syndrome with other serotonergic agents: neuromuscular-myoclonus, autonomic instability, mental status, GI symptoms

CYP450 interactions: fluoxetine, paroxetine, fluvoxamine-most, citalopram and sertraline-least

Antidepressants

<u>SNRIs</u>: Venlafaxine, duloxetine, desvenlafaxine

BP elevation at higher dose

NDRI (norepi, dopamine reuptake inhibitor):

O Bupropion: Dose dependent seizures; contraindicated in eating d/o

<u>Mirtazapine</u>: Selective a2 adrenergic antagonism with increase in serotonergic and noradrenergic activity; 5ht2c and 5ht3 receptor blockade → 5ht1a activation

O Sedation, weight gain, neutropenia

5HT2 antagonists/reuptake inhibitors:

- O Nefazodone: Sedation, visual trails, many drug interactions cyp450 3a4, hepatic failure-rare
- O Trazodone (metabolite mcpp, a strong serotonin agonist-anxiogenic and induces anorexia), priapism

Antidepressants

TRICYCLICS Inhibit NE and 5HT uptake and less DA

OSedation, anticholinergic toxicity (treat with bethanechol), CVarrhythmias (order EKG >40 years old, avoid in heart disease)

OLethal in overdose: Wide-complex arrhythmia, seizure, hypotension

• Nortriptyline therapeutic window: 50-150 ng/ml

MAOIs: Inhibit MAO-A and -B which metabolize NE, 5HT and DA; nonselective- phenelzine, tranylcypromine (selective: selegiline; reversiblerima: moclobemide)

• Serotonin syndrome with SSRIs, SNRIs, triptans

 Hypertensive crisis with adrenergic agents, meperidine and high monoamine content foods; treat with phentolamine, chlorpromazine, nifedipine; DO NOT GIVE β BLOCKERS

O Require low monoamine diet

GENERIC BRAND ANTIDEPRESSANT NAMES AND FDA APPROVED INDICATIONS

Sertraline	Zoloft	Major depression,(MDD), OCD (adult and child), PTSD, social anxiety d/o, panic d/o, premenstrual dysphoric d/o (PMDD)
Fluoxetine	Prozac (weekly available)	MDD (adults, children, adolescents), panic, OCD, bulimia nervosa, PMDD
Fluvoxamine	Luvox (XR)	OCD
Paroxetine*	Paxil (CR)	MDD, OCD (adult, child and adolescent), social anxiety, Generalized anxiety disorder (GAD), PTSD, PMDD
Citalopam**	Celexa	MDD
Escitalopram	Lexapro	MDD (adults and adolescents), GAD
Venlafaxine	Effexor (XR)	MDD, panic, social anxiety d/o, GAD
Des-venlafaxine	Pristiq	MDD
Duloxetine	Cymbalta	MDD, neuropathic pain, fibromyalgia
Bupropion	Wellbutrin (SR, XL), Zyban	MDD, Smoking cessation
Mirtazapine	Remeron	MDD,
Nefazodone	n/a	MDD
Trazodone	Desyrel	MDD
Phenelzine	Nardil	MDD
Tranylcypromine	Parnate	
Selegiline	Emsam (patch), Deprenyl (oral)	
Amitriptyline	Elavil	MDD
Nortriptyline	Pamelor	MDD

Antipsychotics

1st generation DISCUSS/MONITOR RISK

D2 blockade

- OMovement d/o: Parkinsonism at 80% blockade (treat with anticholinergics), akathisia (tx with β blockers or benzos), acute dystonia (tx with IM antichol.), tardive dyskinesia (eliminate offending agent)
- ONMS: Rigidity, hyperthermia, tachycardia, ↑CPK, AMS, potentially lethal! – Supportive measures
- **O**Anticholinergic
- **OSexual** (increased prolactin)
- **Retinitis pigmentosa**: chlorpromazine and thioridazine
- **OQT prolongation** black box: thioridazine

Antipsychotics

2nd generation DISCUSS/MONITOR RISK

Risperidone, paliperidone, olanzapine, quetiapine, ziprasidone, aripiprazole, iloperidone, asenapine

D2 (also D3 and D4) , 5HT2 blockade, glutamate?

• Metabolic: Weight gain and direct effect on triglycerides, serum leptin

OSexual

OMovement: risperidone anticholinergic treatment

O**Orthostatic hypotension**: titrate slowly (quetiapine, iloperidone)

OQT prolongation: ziprasidone, iloperidone

CLOZAPINE minimal D2 blockade (D1, D2, D3, D4), 5HT2A (also 5HT2C, H1, M1, a1)

Five black box warnings

- Agranulocytosis: Do not give or d/c if WBC is <3,500 or ANC < 2,000, MONITOR these numbers weekly x 6mo, twice/mo x 6 mo., Then monthly for lifetime
- 2. Cardiovascular events: Myocarditis, pulmonary emboli
- 3. Patients with neurocognitive disorders: Increased risk of death blanket warning for ALL 2nd generation antipsychotics
- 4. Orthostatic hypotension
- 5. Seizures

Advantages

- Indicated in refractory schizophrenia (failed \geq 2 antipsychotics)
- Improvement continues long term: at 6 mo., One year and 5 years
- It decreases suicide risk and violence in patients with schizophrenia
- Along with quetiapine, used in psychosis in Parkinson's patients because it does not induce EPS

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Fluphenazine	Prolixin (oral, IM, decanoate)	Schizophrenia
Haloperidol	Haldol (oral, IM, decanoate)	Schizophrenia
Trifluoperazine	Stelazine	Schizophrenia
Thioridazine	Mellaril	Schizophrenia
Chlorpromazine	Thorazine	Schizophrenia, MDD
Risperidone	Risperdal (oral, long acting inj.)	Schizophrenia (+ children 13-17), bipolar mania (+ children 10- 17)and irritability in autism; long acting risperidone is approved for schizophrenia and bipolar I disorder.
Paliperidone	Invega (oral, long acting inj.)	Schizophrenia and schizoaffective disorder
Olanzapine	Zyprexa (oral, IM, long acting injection)	Schizophrenia, acute treatment of mania and mixed episodes of bipolar d/o, maintenance tx. Of bipolar; acute agitation in schizophrenia and bipolar mania for the short acting IM injection. Adults and children over 13 years old.
Quetiapine	Seroquel	Schizophrenia, , acute treatment of mania and mixed episodes of bipolar d/o, maintenance tx. Of bipolar; adjunct treatment of MDD
Ziprasidone	Geodon (oral, IM)	Schizophrenia, schizoaffective and bipolar mania (the latter indication + children 10-17)
Aripiprazole	Abilify (oral, IM)	Schizophrenia, , acute treatment of mania and mixed episodes of bipolar d/o, maintenance tx. Of bipolar; adjunct treatment of MDD; irritability in autism; acute agitation in schizophrenia for short acting IM formulation
lloperidone	Fanapt	Schizophrenia
Asenapine	Saphris	Schizophrenia, acute manic and mixed episode
Clozapine	Clozaril, FazaClo	Refractory schizophrenia
Lurasidone	Latuda	Schizophrenia

Mood Stabilizers

Lithium:

- Serotonin effect; Li protects rat cerebral cortex and hippocampus from glutamate induced cell death
- Anti-suicidal effect in bipolar d/o
- Side effects:
 - OLethal in overdose: Therapeutic window 0.6-1.2 meq/L; > 3.5 meq/l fatal
 - OLong term: Hypothyroidism, renal insufficiency
 - ONSAIDs, ACE inhibitors, thiazide diuretics, tetracycline, salt restriction ↑ levels
 - OTheophylline, caffeine, osmotic diuretics ↓ levels
 - Can use K sparing diuretics to treat nephrogenic diabetes insipidus (amiloride)
 - OPregnancy class D: Ebstein anomaly rare 1/2,000 births

Mood Stabilizers

Valproate

- Increases brain GABA levels, modulates glutamate
- Risk of pancreatitis and liver failure
- Drug interactions: Increases levels of drugs metabolized through glucuronidation (lamotrigine, lorazepam)
- Pregnancy class D: Neural tube defects (3-5% spina bifida risk)

O Lamotrigine

- Inhibits Na channels; stabilizes neuronal membranes; modulates glutamate
- Risk of Stevens Johnson Syndrome 3/1,000

O Carbamazepine

- Blocks Na channels, modifies adenosine receptors; inhibits glutamate; increases extracellular serotonin
- Agranulocytosis, hyponatremia, *induction of other drugs' hepatic metabolism*
- O Pregnancy class D: Neural tube defects

Benzodiazepine Anxiolytics

GABA-A agonists

- O Effects:
 - Anxiolytic: anxiety, insomnia, acute agitation, withdrawal syndromes
 - O Hypnotic: useful in anesthesia
 - O Anticonvulsant: seizure control
 - Muscle relaxation
- All are pregnancy category D drugs; fetus with possible congenital abnormalities; fetus may suffer withdrawal
- O Dependence, tolerance, withdrawal
- In patients with liver failure give lorazepam, oxazepam, temazepam metabolized by glucuronidation only (Out The Liver)

Valproate	Depakote (ER)	Mania (mixed episodes and high number of illness manic episodes >10 predict response to valproate), migraine, seizures
Carbamazepine	Carbatrol, Tegretol XR, Equetro	Seizures, trigeminal neuralgia and (Equetro only) manic and mixed episodes of bipolar disorder
Oxcarbazepine	Trileptal	seizures
Lamotrigine	Lamictal	seizures
Gabapentin	Neurontin	Seizures, post-herpetic neuralgia
Topiramate	Topamax	Seizures, migraine
Alprazolam	Xanax	Various benzodiazepines are approved by FDA as hypnotics, to treat
Diazepam	Valium (oral, IV)	anxiety disorders (panic, GAD, social anxiety), and in the case of clonazepam, as adjunct in treatment of acute mania)
Lorazepam	Ativan (Oral, IM, IV)	olonazopani, ao uajunot in troatmont or abato manaj
Oxazepam	Serax	
Temazepam	Restoril	
Hydroxyzine	Vistaril	
Benztropine	Cogentin (oral, IM)	
Diphenhydramine	Benadryl (oral, IM)	
Buspirone	Buspar	GAD
Naltrexone	Revia (oral, long acting injectable)	Adjunct in treatment of alcoholism
Disulfiram	Antabuse	Alcohol dependence
Buprenorphine and Naloxone	Suboxone	Opiate dependence

Other Somatic Treatments

FDA approved

OECT: Triggers seizures in normal neurons by application of pulses of current through the scalp that propagate to the entire brain.

- VNS: Stimulation of left vagus nerve; pulse generator in I chest wall
- TMS: Pulsatile high-intensity electromagnetic field induces focal electrical currents in the underlying cerebral cortex

O Not FDA approved

Light therapy, neurosurgery in OCD, deep brain stimulation for OCD and refractory depression

Vagus Nerve Stimulation (VNS)

• FDA approved for epilepsy; FDA approved for treatment resistant depression 2005

 Pulse generator implanted in left chest wall area, connected to leads attached to left vagus nerve

 Mild electrical pulses applied to CN X for transmission to the brain





- Allen Frances, MD, Ruth Ross, MA, DSM IV case studies, A clinical guide to differential diagnosis, American psychiatric press, 1996.
- Glen O. Gabbard, MD, Psychodynamic Psychiatry in Clinical Practice, Fourth Edition, American Psychiatric Publishing, 2005.
- Harold Kaplan, MD, Benjamin Sadock, MD, Kaplan and Sadock's Synopsis of Psychiatry, 10th edition, Williams and Wilkins, 2007.
- Davidson B et al, Assessment of the Family, Systemic and Developmental perspectives, Child and Adolescent Psychiatric Clinics of North America, 10(3), 415-429, 2001.
- <u>www.youtube.com</u>
- Wedding, D, Stuber, M, Behavior and Medicine, 5th edition, Hogrefe Publishing, 2010.
- www.psychiatryonline.org
- Posner K et al, Columbia-Suicide Severity Rating Scale from Oquendo et al Risk Factors for Suicidal Behavior: Utility and Limitations of Research Instruments, in M.B. First [Ed] Standardized Evaluation in Clinical Practice, pp. 103-130, 2003.
- American Psychiatric Association, Desk Reference to Diagnostic Criteria from DSM V, APPI, 2013.