

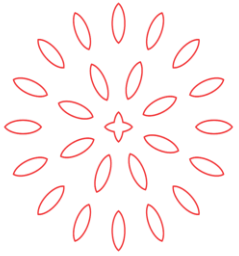


Registrar Education Series

Psychiatry

*Continuing
education for
personal growth
and quality
improvement*





How to...



What is the differential based on the chief complaint?



What additional information do you want?



How does the history narrow down the differential?



What labs/imaging would be most helpful?



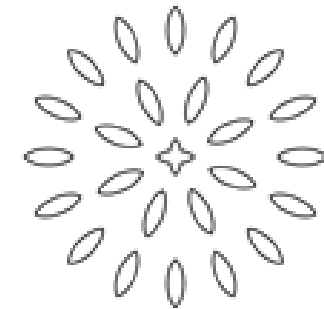
What is the diagnosis?



What is the assessment?



What is the treatment/plan?



PSYCHIATRY CASES



challenging the status quo

Seed Global Health

Psychiatry Case 1

Chief Concern

Histories

PE

Assessment

Plan



Seed Global Health

Chief Concern

Faith is a 43yo female with a history of HTN and obesity who presents with a 6-week history of fatigue, headaches, and difficulty concentrating.



Seed Global Health

Histories

HPI: She has been feeling down and wanting to sleep throughout the day. She sleeps for 9 hours nightly, but wakes frequently, and has no energy during the day. It has started to impact her relationship with her husband, and she feels guilty she is not more present for her children. She used to enjoy kitchen parties with her friends, but no longer has any interest in attending even when invited.

Reports daily headaches and neck pain. No vision changes, nausea, vomiting. Headaches do not wake her from sleep. Denies suicidal ideation, alcohol use, or illicit drug use.

PMH: HTN, obesity

PSH: c-section

FH: DM, HTN, depression

Social: Originally from Kabwe, moved to Lusaka 10 years ago. Lives with her husband and 4 children. Walks her young children to/from school 5 days per week. Cannot think of anything she enjoys doing currently.



Seed Global Health

Physical Exam

VITALS: T 36.8, BP 132/84, P 73, R 16

GEN: Obese female appearing stated age. Tearful throughout visit.

NECK: Full active ROM. No cervical spinous process tenderness to palpation. Negative spurling's. (+)Suboccipital muscle TTP.

NEURO: CIN II-XII intact. DTRs 2+/4. Finger to nose, heel to shin, rapid alternating movements intact. Negative Romberg's.

PSYCH: Depressed mood, flattened affect. Fluent speech. Pervasive somatic concerns. Not responding to internal stimuli.



Labs



Imaging



Seed Global Health

Labs:

*FBC	
WBC	7.5
Hgb	13
Hct	36
Plt	220

*RFTs/LFTs	
Na	138
K	4.6
Bicarb	25
Cl	101
BUN	11
Cr	96
Glucose	5.9
Ca	9.5
T bili	7
AST	35
ALT	32
Alk Phos	125

Urine*	
LE	Negative
Blood	Negative
Nit	Negative
Bili	Negative
Alb/Cr	<5
UPT	Negative
UDS	Negative

Other*	
A1c	5.6
Chol	4.8
LDL	3.4
HDL	1.1
Trigs	2.1
TSH	1.2



Imaging



*indicates the test was likely not indicated with this clinical presentation (some may be indicated based on her chronic diseases)

Seed Global Health

Imaging



*Cervical spine x-ray is normal



*CT Brain is normal



Labs



*indicates the test was likely not indicated with this clinical presentation

Seed Global Health

Assessment

- Faith is a 43yoF with a PMH of HTN and obesity who presents with 6 weeks of symptoms consistent with major depressive disorder based on the DSM-5 criteria, which require 5 or more of the 9 SIGECAPS symptoms present during the same 2-week period and represent a change from previous functioning, cause clinically significant distress or impairment, and is not attributable to substance use or another medical condition. MDD can be diagnosed clinically without further investigations. Her [PHQ9](#) score = 23, consistent with severe depression. Her daily headaches are most consistent with tension headaches. Based on her history and normal neurologic exam, imaging is not indicated.
- Other diseases on the differential but not supported by history, physical and/or labs include substance use disorder, bipolar disorder, schizophrenia, hypothyroidism, anemia, hypercalcemia.



Seed Global Health

Plan

- She is not a danger to self or others (no SI/HI), so outpatient management is appropriate.
- Based on the severity of her depression, combination of psychotherapy and antidepressants are recommended. If she had mild-moderate depression, either alone would be appropriate.
- SSRIs are the first line antidepressants. They all have a similar efficacy of around 60%, so based on the NHIMA formulary/cost-effectiveness, will start fluoxetine 20mg daily. Counseled that it may take 4-6 weeks to see the full effect, will follow up at that time if not improving for dose titration. Plan to continue the SSRI for 4-6 months after remission. If she has a 2nd episode, will continue for 9-12 months, and if a 3rd episode will continue indefinitely. If on an SSRI other than fluoxetine, will need to gradually taper when it is time to stop.
- We also discussed regular physical activity and sleep hygiene (no napping during the day, consistent bedtime and wake time, bed only for sleep and sex), and neck exercises were provided which she can do throughout the day for her tension headaches.



Seed Global Health

Screening is recommended for the general adult population

- [PHQ-2](#) is accepted as an initial screening instrument, followed by [PHQ-9](#) if positive
- Support should be in place for diagnosis, treatment, and follow-up

Symptoms of depression are commonly known by SIGECAPS

- Depressed mood and anhedonia (loss of interest) are two cardinal symptoms of depression

Women are more likely to present with physical ailments (HA, myalgias, GI)

Risk factors:

- Female sex, history of anxiety, low self-esteem, conduct disorder, substance use, adverse life events, chronic medical conditions, family history

Diagnosis is clinical. Consider limited lab evaluation if indicated based on history/exam.

After a 1st episode of depression, the probability of a recurrent episode is ~50%

- 70% after 2nd episode, and 90% after 3rd episode

Complimentary treatments with proven efficacy: exercise (high intensity, aerobic), maybe yoga

- No evidence for benefit: meditation, tai chi

Teach deep breathing, progressive relaxation, guided imagery.

All anti-depressants have equal efficacy (~60%). Choose non-SSRIs based on side-effect profile

- SNRI: May be helpful with comorbid chronic pain
- TCA: Helpful for neuropathic pain. Avoid in the elderly
- Bupropion: Helpful for smoking cessation/addiction, activating
- Mirtazapine: Helps with appetite/weight gain, particularly in geriatric depression if weight loss is a concern

Depression Summary



Seed Global Health

Psychiatry Case 2

Chief Concern

Histories

PE

Assessment

Plan



Seed Global Health

Chief Concern

Gift is a 27yo male with a no significant PMH who presents to OPD for a 7 month history of chest pain.



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Histories

HPI: The chest pain started insidiously. It is a vague pain that is difficult to characterize or localize and is associated with palpitations. It occurs only at night when he is trying to fall asleep. He has trouble falling asleep and staying asleep. The pain often wakes him from sleep. During the day he is restless and has difficulty concentrating. He feels nervous and on edge and has noticed that he is more irritable both at home and at work. The chest pain never occurs with exertion. He denies SOB, PND, LE edema, and cough. No history of tobacco use or illicit drug use. Denies suicidal ideation.

PMH: None. RVD-NR.

PSH: None

FH: DM, HTN. No premature CV disease. Mother died from TB when he was 5 years old.

Social: Lives with his wife and 2 children. Works as a minibus driver. Eats out during the day. Denies smoking, has 4 beers nightly, denies drugs. Enjoys playing football.



Seed Global Health

Physical Exam

GEN: Thin 27yoM appearing stated age. Well groomed, Pleasant, conversive. No acute distress. No exophthalmos.

CV: normal S1, S2. RRR. No murmurs/rubs/gallops. No LE edema.

CHEST: No costochondral TTP.

PULM: Lungs bilaterally clear to auscultation. No wheezes, rales, rhonchi.

PSYCH: Good eye contact. Appropriate mood and affect. Fluent speech. Not responding to internal stimuli.



Labs



Imaging



Seed Global Health

Labs

*FBC	
WBC	7.5
Hgb	13
Hct	36
Plt	220

*RFTs/LFTs	
Na	138
K	4.6
Bicarb	25
Cl	101
BUN	11
Cr	96
Glucose	5.5
Ca	9.5
T bili	7
AST	35
ALT	32
Alk Phos	125

*Urine	
UDS	Negative

*Other	
A1c	5.4
Chol	4.8
LDL	3.4
HDL	1.1
Trigs	2.1
TSH	1.8



Imaging



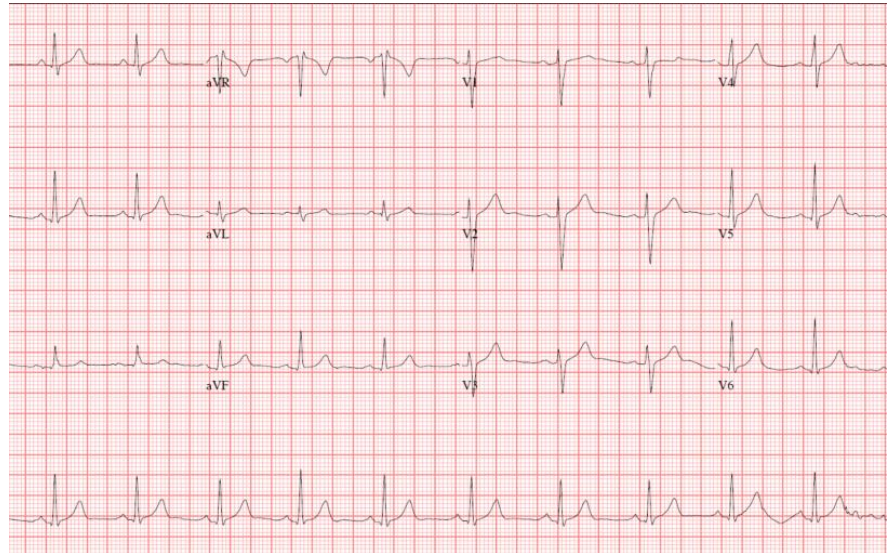
*indicates the test was likely not indicated with this clinical presentation

Seed Global Health

Imaging



*Chest x-ray is normal



*ECG is normal



Labs



*indicates the test was likely not indicated with this clinical presentation

Seed Global Health

Assessment

- Gift is a 27yoM with no significant PMH who presents with a 7-month history of pervasive symptoms consistent with Generalized Anxiety Disorder based on the DSM-5 criteria, and not suggestive of an underlying physical disorder. GAD is defined as excessive worry that occurs on most days for at least 6 months and causes significant distress or impairment. His [GAD-7](#) score is 17, consistent with severe anxiety.
- Differential includes: hyperthyroidism, anemia, cardiac arrhythmia, asthma, illicit substance use or withdrawal, depression, bipolar disorder, delusional disorder.



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Plan

- No need for any labs, imaging or procedures at this point
- SSRIs and SNRIs are first-line, so will start with escitalopram 10mg daily based on the NHIMA formulary/cost-effectiveness.
 - Plan on continuing for at least 6-12 months to minimize relapse. Discontinuing antidepressants before one year leads to symptom relapse in up to 50% of patients being treated for anxiety disorders with an SSRI or SNRI.
 - Benzodiazepines are not more effective than antidepressants for treating anxiety disorders and should not be used as first-line therapy. They are associated with withdrawal, rebound anxiety, and dependence and are not recommended for long-term use.
- Counsel on following up in 4-6 weeks for SSRI dose titration if not improving at that time and discussed the need to gradually taper dose if/when stopping it in the future.
- Given the severity of his anxiety, psychotherapy (CBT) also recommended.
- Discussed regular exercise and relaxation techniques. If not improving with current management, will consider adjunctive therapy with a nighttime dose of hydroxyzine, propranolol, or gabapentin.



Seed Global Health

Consider GAD/Panic Disorder in patients with recurrent, pervasive worry or who present with somatic symptoms not attributed to underlying medical conditions

- GAD-7 is a validated screening tool that can aid in Dx and assessment of severity

Often present with substance use disorders, which should be treated concurrently

Risk factors:

- Family history, female, history of physical/emotional trauma, low SES, internalizing problems, stressful life events, adverse childhood experiences, separated/divorced, widowed, unemployed, substance use

No need for labs, imaging, procedures unless history/exam are suggestive of a specific medical condition

Physical activity reduces symptoms of anxiety. Teach deep breathing, progressive relaxation, guided imagery.

Effective therapies: Antidepressants (SSRI/SNRI) and psychotherapy equally effective (CBT)

- Benzos are not recommended for first line therapy or long-term use

Adjunctive pharmacotherapy if indicated (panic disorder, physical symptoms, hysterical):

- Hydroxyzine 25mg, titrate or wean to max of 100mg prn
- Gabapentin 100-300mg, max of 600mg prn
- Propranolol 10mg, titrate to 20-30mg (decreases physical symptoms)

Anxiety Summary



Seed Global Health

Psychiatry Case 3

Chief Concern

Histories

PE

Assessment

Plan



Seed Global Health

Chief concern

Patricia is a 19yo female with a history of depression and RVD-R who presents to OPD due to difficulty sleeping.



Seed Global Health

Histories

HPI: For the past week, Patricia has had trouble falling asleep and staying asleep. She has been getting less than 3 hours of sleep, but still feels rested during the day and her family has noticed she seems more talkative and energetic than usual. Prior to this she would often sleep for up to 9 hours nightly but still feel fatigued. During this same time period, she has had several new sexual partners, and spent all the money she had been trying to save for over the last year. She lost her job a few days ago after she stopped showing up for work. She currently denies suicidal ideations. She has been on at least 3 different depression medications in the past but has now been off medications for the past year. She denies illicit drug use.

PMH: Depression diagnosed at age 12, suicide attempt at 17. RVD-R, diagnosed at age 18.

PSH: none

FH: Father committed suicide when she was 11 years old, unsure of his medical/psychiatric history.

Social: From Lusaka Province. Lives with her mom and 3 siblings. Lost her job. Cannot think of anything she enjoys. Drinks 3-4 beers nightly to help her sleep, denies tobacco or illicit drug use.



Seed Global Health

Physical Exam

GEN: Thin 19yoF appearing older than stated age. Hyperactive, fidgeting throughout visit.

NEURO: CN II-XII grossly intact. Finger to nose, heel to shin, and rapid alternating movements intact. Negative Romberg's. No nuchal rigidity.

PSYCH: Pressured speech, easily distractable. Flight of ideas.



Labs



Imaging



Procedures



Seed Global Health

Labs

*FBC	
WBC	7.5
Hgb	13
Hct	36
Plt	220

*RFTs/LFTs	
Na	138
K	4.6
Bicarb	25
Cl	101
BUN	11
Cr	96
Glucose	5.2
Ca	9.5
T bili	7
AST	35
ALT	32
Alk Phos	125

Urine*	
LE	Negative
Blood	Negative
Nit	Negative
Bili	Negative
Alb/Cr	<5
UPT	Negative
UDS	Negative

Other*	
A1c	5.6
Chol	4.8
LDL	3.4
HDL	1.1
Trigs	2.1
TSH	1.2



Imaging



Procedures



*indicates the test was likely not indicated with this clinical presentation

Seed Global Health

Imaging



*CT Brain is normal



Labs



Procedures



*indicates the test was likely not indicated with this clinical presentation

Seed Global Health

Procedures



*Lumbar puncture is normal

CSF	
Opening pressure (cmH20)	12
Appearance	clear
Protein (g/L)	0.25
Glucose (mmol/L)	2.8
Gram stain	negative
Culture	pending
WCC	< 3
Diff	---



Labs



Imaging



*indicates the test was likely not indicated with this clinical presentation

Seed Global Health

Assessment

- Patricia is a 19yo with a history of depression with prior suicide attempt and RVD-R, now presenting with symptoms of a manic episode consistent with a diagnosis of Bipolar I Disorder based on DSM-5 criteria.
- Differential includes: major depressive disorder, bipolar II disorder, substance-induced mania, CNS OIs, thyroid disorder.



Seed Global Health

Plan

- Given her current acute manic episode and prior history of suicide attempt, she meets criteria for inpatient admission due to the risk of harm to self and need for treatment initiation. Psychiatry consulted for co-management.
- Plan to start Lithium as a mood stabilizer which has also been proven as an antisuicidal agent. Since it requires 5 days to achieve a steady state, will give in conjunction with quetiapine (Seroquel) which can assist with sleep and will be continued as combination maintenance therapy. Trazodone will be avoided since it can induce mania.
- Counseled on the recommendation to continue mood stabilizers indefinitely because of the high risk of relapse.
- Psychosocial stress is known to trigger manic and depressive symptoms. Behavioral interventions (basic psychoeducation and CBT) therefore are also recommended to improve social function and reduce the number of hospitalizations and relapse rate.
- Giver her age/reproductive capability and the teratogenicity of Lithium, reliable contraception also discussed – she is deciding on one of the long-acting reversible contraceptive options (e.g., IUD or Implant).



Seed Global Health

25% of patients presenting with depression/anxiety in primary care setting have been diagnosed with bipolar disorder

- Mean age at onset: Bipolar I 18yo, Bipolar II 22yo
- Consider tools such as [Mood Disorder Questionnaire](#) to exclude bipolar disorders (not sufficient to confirm Dx)

1/3 will attempt suicide in their lifetime, 6-7% complete suicide

Risk factors: Genetics, stressful life events (Adverse childhood experiences, trauma, suicide of family member), sleep cycle disruption

- 4-15% risk of bipolar if parents are, vs < 2% risk if parents are not bipolar

1st line treatment: mood stabilizers (Lithium, anticonvulsants, antipsychotics). Continue indefinitely because of the risk of relapse.

- Assess medication adherence at every encounter. Nonadherence to meds results in frequent recurrences, hospitalizations, and sometimes suicide
- Psychotherapy is a useful adjunct to pharmacotherapy

High rate of comorbid substance use, other psychiatric disorders, and chronic medical conditions

Monotherapy with antidepressants is contraindicated during episodes with mixed features, manic episodes, and bipolar I disorder

Bipolar Disorder Summary



Seed Global Health

Psychiatry Case 4

Chief Concern

Histories

PE

Assessment

Plan



Seed Global Health

Chief Concern

Jonathan is a 22yoM with no significant PMH brought to the ER at Kanyama after being found wandering the streets. A bystander tried to help him but was not able to get any information and is concerned he is altered.



Seed Global Health

Histories

HPI: Jonathan is wanting to leave the hospital as quickly as possible because someone has been following him and will likely show up here very soon. He is not able to describe the person, but says he had to quickly get rid of his phone on the way here because they were using it to spy on him. He heard voices telling him to run into traffic. His mother is eventually contacted, who shares that for the past month he has been fixated on the person following him, but she does not know more details. She cannot remember the last time he showered. He used to be play football with a group of friends every evening but stopped going 6-7 months ago. He also quit going to work, and his family has noticed he has frequent outbursts, and they often hear him in his room talking to someone but aren't sure who it is.

PMH: None. RVD-NR.

PSH: None

FH: Father died at 60yo when Jonathan was 4 years old, unknown medical/psych history.

Social: From Eastern Province. Lives with his mother and several other relatives. Fired from his job 6 months ago, unable to find work since. Used to enjoy playing football with friends but no longer does. No alcohol or drug use.



Seed Global Health

Physical Exam

GEN: 22yoM appearing older than stated age and anxious. Disheveled appearance, but no obvious signs of trauma.

NEURO: CN II-XII grossly intact. Finger to nose, heel to shin, and rapid alternating movements intact. Negative Romberg's. No nuchal rigidity.

PSYCH: Flattened affect, disorganized speech, poor insight. Paranoid thought process, responding to internal stimuli.



Labs



Imaging



Seed Global Health

Labs

*FBC	
WBC	7.5
Hgb	13
Hct	36
Plt	220

*RFTs/LFTs	
Na	138
K	4.6
Bicarb	25
Cl	101
BUN	11
Cr	96
Glucose	5.3
Ca	9.5
T bili	7
AST	35
ALT	32
Alk Phos	125

Urine*	
LE	Negative
Blood	Negative
Nit	Negative
Ketones	Positive
UDS	Negative

*Other	
A1c	5.4
Chol	4.8
LDL	3.4
HDL	1.1
Trigs	2.1
TSH	1.8



Imaging



*indicates the test was likely not indicated with this clinical presentation

Seed Global Health

Imaging



*CT Brain is normal



Labs



Seed Global Health

Assessment

- Jonathan is a 22yoM presenting with acute psychosis consistent with a new diagnosis of schizophrenia based on the DSM-5 criteria. He has had 6 months of symptoms (social withdrawal, loss of interest in work/school, hygiene deterioration, angry outbursts, behavior out of character), as well as 1 month of active-phase positive and negative symptoms.
 - Positive symptoms: Hallucinations, delusions, disorganized speech
 - Negative symptoms: Decreased emotional expression (affective flattening), lack of motivation.
- Differential includes: Schizoaffective disorder, schizotypal personal disorder, bipolar disorder, depression, substance use, Cushing syndrome, delirium, thyroid disorder, brain tumor.



Seed Global Health

Plan

- Acute psychosis requires urgent psychiatric evaluation. He is not currently a danger to self or others so he does not require inpatient hospitalization as long as he has close follow-up and social support.
- Plan to start a multidisciplinary treatment approach with antipsychotics, psychological treatment (CBT or other psychotherapy), and social support.
- Will start with atypical (2nd generation) antipsychotics, which have a lower risk of adverse neurologic effects such as extrapyramidal symptoms. Based on NHIMA formulary/cost effectiveness, will start with quetiapine 25mg twice daily, with plans to increase to a target total daily dose of 300-600mg.
- Atypical antipsychotics have an increased risk of weight gain and metabolic changes, so will plan to follow recommended surveillance guidelines.
- Treatment goal is remission, defined as 6 months with no or mild symptoms that do not interfere with his behaviors. There is a high risk of relapse if antipsychotics are discontinued within 1-2 years.



Seed Global Health

Schizophrenia Summary

Schizophrenia is the most common psychotic disease. Slightly more common in men.

Symptom onset generally between late adolescence and mid-30s. Often with debilitating social and occupational impairment.

- Men: 18-25yo
- Women: Bimodal (25yo-mid 30s, after 40yo)

Risk factors:

- Genetics, childhood adversity or trauma, cannabis use, history of *T. gondii* infection, OB complications, CNS infection in early childhood, advanced paternal age (>55yo)

Higher mortality than the general population, partly due to increased suicide risk

- Lifetime risk of suicide ~5% (13x higher than general population)

Symptoms must be present for 6mo or more, with at least 1mo (or less if leading to hospitalization) of active-phase positive/negative symptoms

Psychosocial therapy + medical therapy = better outcomes than Rx alone

- Antipsychotic drugs should be initiated as soon as possible after diagnosis

Be aware of Rx adverse effects/monitoring

- 1st Gen: Extrapyramidal symptoms
- 2nd Gen: weight gain, metabolic changes, CV risk factors

