

Polypharmacy Project

Hannah Nowlin, BSN Student

N322 Introduction to Pharmacology

Lakeview College of Nursing

Brittany Lawson MSN, RN

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Polypharmacy Case 1

Background: Caroline is a 78-year-old female that resides at home with her daughter who is her primary care giver. No one else lives with them. Caroline requires extensive assistance from her daughter in completing all of her activities of daily living, as she cannot follow simple commands to complete the steps of her activities of daily living. She also is experiencing extensive communicative difficulties resulting in the majority of her communication being word salad. She expresses anger often, and was recently discharged from the local psychiatric hospital related to her physically combative behaviors during care. Caroline has a history of smoking – but quit about ten years ago. She has a history of drinking socially, and currently drinks one glass of wine a day at lunch. Caroline and her daughter have no other family in the area.

Insurance: Caroline has prescription medication insurance only. She does not have insurance for medical visits.

Allergies: Penicillin's & Peanuts

Diet: Mechanical Soft with thin liquids related to difficulty chewing

Medical diagnosis: Alzheimer's with behavioral disturbance, COPD, hyperlipidemia, and chronic kidney disease

Current medications include the following:

Zyprexa 7.5 mg by mouth one time a day

Donepezil 10 mg by mouth at HS

Colace 200 mg by mouth one time a day

Haloperidol 2 mg IM every 4-hour PRN

Atrovent HFA take 2 inhalations four times a day

ProAir HFA take 2 puffs via inhalation four times a daily PRN

Namenda 5 mg by mouth twice a day

Ibuprofen 400 mg by mouth every 6 hours PRN

Lipitor 30 mg by mouth once daily

Miralax 17 gm mixed in 8 ounces of juice or water by mouth once a day

Drug #1	Drug Name (Generic): olanzapine
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Drug Class: Antipsychotic	Drug Name (Trade): Zyprexa
How is the medication taken: (include dose, route, and frequency)	7.5 mg, PO, one time a day
Specific Directions not included above:	None
Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This medication has potential to interact with ipratropium bromide, which is an anticholinergic. The interaction could increase anticholinergic effects and alter thermoregulation (Jones & Bartlett Learning, 2020).
Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)	Alcohol use in this patient interacts with this drug, causing additive CNS depression and orthostatic hypotension (Jones & Bartlett Learning, 2020).
Does any of the client's past medical history contradict the use of this medication?	The patient has no past medical history that would contradict the use of this medication (Jones & Bartlett Learning, 2020).
What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical	Indication for use for this client is based on the client's diagnosis of Alzheimer's (Jones & Bartlett Learning, 2020).

history, please list potential indications for use of the medication in general)	
What would you teach the client about taking this medication?	Be aware that this drug could potentially interact with ipratropium bromide causing anticholinergic effects, Advise the patient to avoid alcohol and smoking while taking olanzapine, open the tablet with dry hands to avoid the tablet disintegrating before under the tongue, inform the patient of increased risk for falls due to the CNS effects from using alcohol, notify the provider of any persistent, severe, or worsening adverse reactions such as a fever, rash, or swollen glands (Jones & Bartlett Learning, 2020).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$11 per month for 30 tablets that are 7.5 mg (GoodRx, 2021).

Drug #2	Drug Name (Generic): donepezil
Drug Class: Antidementia	Drug Name (Trade): Aricept
How is the medication taken: (include dose, route,	10 mg, PO, at HS

and frequency)	
Specific Directions not included above:	This medication is to be taken at bedtime, once per day. This medication can also be taken with or without food (Jones & Bartlett Learning, 2020).
Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This medication interacts with anticholinergics, such as ipratropium bromide. This can cause interference with activity of this drug (Jones & Bartlett Learning, 2020).
Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)	This medication has no lifestyle interactions (Jones & Bartlett Learning, 2020).
Does any of the client's past medical history contradict the use of this medication?	The patient has a history of COPD so we should use this drug cautiously due to the drug having a weak affinity for peripheral cholinesterase, which can cause bronchoconstriction and bronchial secretions (Jones & Bartlett Learning, 2020).
What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the	This medication is used to treat signs and symptoms of the patients Alzheimer's disease by reversibly inhibiting acetylcholinesterase and improving acetylcholine's concentration at cholinergic synapses, which can improve cognition (Jones & Bartlett Learning, 2020).

medication in general)	
What would you teach the client about taking this medication?	The anticholinergic, ipratropium bromide, that the patient is on can interact with this drug and interfere with the activity. Also, tell the patient to take donepezil only once per day before going to bed (Jones & Bartlett Learning, 2020).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$15 per month for 30 tablets that are 10 mg (GoodRX, 2021).

Drug #3	Drug Name (Generic): docusate
Drug Class: Stool Softener	Drug Name (Trade): Colace
How is the medication taken: (include dose, route, and frequency)	200 mg, PO, one time per day
Specific Directions not included above:	Take the medication with a full glass of milk or water (Jones & Bartlett Learning, 2020).

Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This medication does not interact with any other medications on the list (Jones & Bartlett Learning, 2020).
Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)	This medication has no lifestyle interactions (Jones & Bartlett Learning, 2020).
Does any of the client's past medical history contradict the use of this medication?	The client's past medical history does not contradict the use of this medication (Jones & Bartlett Learning, 2020).
What is the indication for use of this medication based on the clients past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the medication in general)	This medication is used to treat constipation. A common sign/symptom for chronic kidney disease is constipation. Therefore, docusate is used to treat constipation that arises from the patient's chronic kidney disease (Jones & Bartlett Learning, 2020).
What would you teach the client about taking this medication?	Advise the patient to take this medication with a full glass of milk or water. Also, tell the patient to not use this medication when experiencing abdominal pain, nausea, or vomiting (Jones & Bartlett Learning, 2020).

How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$8 per month for 60 capsules that are 100 mg each (GoodRx, 2021).
Drug #4 Drug Class: Antipsychotic	Drug Name (Generic): haloperidol Drug Name (Trade): Haldol
How is the medication taken: (include dose, route, and frequency)	2 mg, IM, every 4-hours PRN
Specific Directions not included above:	Do not stop taking this medication abruptly due to experiencing withdrawal symptoms (Jones & Bartlett Learning, 2020).
Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This medication interacts with anticholinergics, such as the ipratropium bromide that the client is taking. It causes an increased anticholinergic effect and risk of decreased antipsychotic effect of haloperidol (Jones & Bartlett Learning, 2020).
Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)	Alcohol use, such as wine, can cause an increased CNS depression, putting the client at risk for hypotension and respiratory depression.
Does any of the client's past medical history	The client's past medical history does not contradict the use of this medication (Jones &

contradict the use of this medication?	Bartlett Learning, 2020).
What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the medication in general)	This medication is used for its antipsychotic effects. It may block postsynaptic dopamine receptors in the limbic system and increase brain turnover of dopamine, producing an antipsychotic effect. This is used for the patient's Alzheimers when in a psychotic episode. For example, our client has been combative when at the psychiatric hospital (Jones & Bartlett Learning, 2020).
What would you teach the client about taking this medication?	Advise the client to monitor for medication interaction between the haloperidol and ipratropium. Also, advise the client to not drink alcohol while taking this drug (Jones & Bartlett Learning, 2020).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$450 per month for 90 vials that are 5 mg each. This medication may not be bought as frequently if not needed since it is only a PRN medication (GoodRx, 2021).

Drug #5	Drug Name (Generic): ipratropium bromide
Drug Class: Bronchodilator	Drug Name (Trade): Atrovent
How is the medication taken: (include dose, route,	2 Inhalations, 4 times a day

and frequency)	
Specific Directions not included above:	Do not take to treat acute bronchospasms (Jones & Bartlett Learning, 2020).
Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This medication can interact with olanzapine, donepezil, and haloperidol. The interaction with each drug is an increase in anticholinergic effects (Jones & Bartlett Learning, 2020).
Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)	This medication has no lifestyle interactions (Jones & Bartlett Learning, 2020).
Does any of the client's past medical history contradict the use of this medication?	The patient has a peanut allergy. Hypersensitivity to peanuts is a contraindication of taking this drug. The patient also has chronic kidney disease, which is to be used cautiously in these patients (Jones & Bartlett Learning, 2020).
What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the medication in general)	This medication is used for the patients COPD. It works by blocking acetylcholine's effects in bronchi and bronchioles, relaxing the smooth muscles and causing bronchodilation (Jones & Bartlett Learning, 2020).

What would you teach the client about taking this medication?	Watch for medication reactions with olanzapine, donepezil, and haloperidol when taking ipratropium. Also, instruct the patient to rinse the mouth after each use to help minimize throat dryness and irritation (Jones & Bartlett Learning, 2020).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$20 per month for 1 inhaler (GoodRx, 2021).

Drug #6	Drug Name (Generic): albuterol sulfate
Drug Class: Bronchodilator	Drug Name (Trade): ProAir HFA
How is the medication taken: (include dose, route, and frequency)	2 Inhalations, 4-times daily, PRN
Specific Directions not included above:	Shake the canister before use (Jones & Bartlett Learning, 2020).
Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This medication does not interact with any other medications on the list (Jones & Bartlett Learning, 2020).
Lifestyle interactions:	This medication has no lifestyle interactions (Jones & Bartlett Learning, 2020).

(Daily tobacco use, alcohol, drugs, etc.)	
Does any of the client's past medical history contradict the use of this medication?	The client's past medical history does not contradict the use of this medication (Jones & Bartlett Learning, 2020).
What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the medication in general)	The client is taking albuterol sulfate due to her COPD. Albuterol works by relaxing bronchial smooth-muscle cells and inhibiting histamine release (Jones & Bartlett Learning, 2020).
What would you teach the client about taking this medication?	Instruct the client to wait at least 1 minute between inhalations. Also, instruct the patient to check with their prescriber before using other inhaled drugs (Jones & Bartlett Learning, 2020).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$25 per month for 1 inhalor. This medication may not be bought as frequently if not needed since it is only a PRN medication (GoodRx, 2021).

<p>Drug #7</p> <p>Drug Class: Antidementia agent</p>	<p>Drug Name (Generic): memantine</p> <p>Drug Name (Trade): Namenda</p>
<p>How is the medication taken: (include dose, route, and frequency)</p>	<p>5 mg, PO, 2 times a day</p>
<p>Specific Directions not included above:</p>	<p>Capsules should be swallowed whole, not chewed, crushed, or opened (Jones & Bartlett Learning, 2020).</p>
<p>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</p>	<p>This medication does not interact with any other medications on the list (Jones & Bartlett Learning, 2020).</p>
<p>Lifestyle interactions:</p> <p>(Daily tobacco use, alcohol, drugs, etc.)</p>	<p>This medication has no lifestyle interactions (Jones & Bartlett Learning, 2020).</p>
<p>Does any of the client's past medical history contradict the use of this medication?</p>	<p>The client's past medical history does not contradict the use of this medication (Jones & Bartlett Learning, 2020).</p>
<p>What is the indication for use of this medication based on the client's past medical history? (If unable</p>	<p>The patient takes this medication for their Alzheimer's disease. Memantine prevents excessive brain cell death, which slows the progression of Alzheimer's disease (Jones &</p>

to determine an indication based on past medical history, please list potential indications for use of the medication in general)	Bartlett Learning, 2020).
What would you teach the client about taking this medication?	The patient should take this drug exactly as prescribed. They should inform the provider if they fail to take it for several days. Do not double dose if you miss a dose (Jones & Bartlett Learning, 2020).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$30 per month for 60 capsules that are 5 mg each (GoodRx, 2021).

Drug #8 Drug Class: Analgesic, Anti-Inflammatory, Antipyretic	Drug Name (Generic): ibuprofen Drug Name (Trade): Advil
How is the medication taken: (include dose, route, and frequency)	400 mg, PO, Every 6 hours, PRN
Specific Directions not included above:	Take it with a full glass of water. Also, take it with food or meals to avoid GI upset (Jones & Bartlett Learning, 2020).

<p>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</p>	<p>This medication does not interact with any other medications on the list (Jones & Bartlett Learning, 2020).</p>
<p>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</p>	<p>Do not take with alcohol, it causes an increased risk of adverse GI effects (Jones & Bartlett Learning, 2020).</p>
<p>Does any of the client's past medical history contradict the use of this medication?</p>	<p>The client's past medical history does not contradict the use of this medication (Jones & Bartlett Learning, 2020).</p>
<p>What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the medication in general)</p>	<p>The patient is taking ibuprofen for inflammation of the kidneys due to her chronic kidney disease. This drug inhibits prostaglandins which reduces inflammatory symptoms and relieves pain (Jones & Bartlett Learning, 2020).</p>
<p>What would you teach the client about taking this medication?</p>	<p>The patient should avoid using alcohol, aspirin, and corticosteroids while taking this drug. Also, do not take higher doses of the drug for a longer time than prescribed due to risk for stomach bleeding (Jones & Bartlett Learning, 2020).</p>

How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$20 per month for 120 tablets that are 400 mg each (GoodRx, 2021).
Drug #9 Drug Class: Antihyperlipidemic	Drug Name (Generic): atorvastatin Drug Name (Trade): Lipitor
How is the medication taken: (include dose, route, and frequency)	30 mg, PO, Once daily
Specific Directions not included above:	Take it at the same time each day to maintain its effects. Also, take a missed dose as soon as possible. However, do not double dose at the same time (Jones & Bartlett Learning, 2020).
Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This medication does not interact with any other medications on the list (Jones & Bartlett Learning, 2020).
Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)	Use cautiously in those who consume substantial amounts of alcohol or have a history of liver disease. This drug can increase the risk of liver dysfunction (Jones & Bartlett Learning, 2020).

Does any of the client's past medical history contradict the use of this medication?	The client's past medical history does not contradict the use of this medication (Jones & Bartlett Learning, 2020).
What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the medication in general)	The patient is taking this drug for her hyperlipidemia. It inhibits HMG-CoA reductase and cholesterol synthesis in the liver (Jones & Bartlett Learning, 2020).
What would you teach the client about taking this medication?	Educate on the importance of a low-cholesterol diet to aid in the functioning of this drug. Also, report any unexplained muscle pain, tenderness, or weakness to your provider immediately (Jones & Bartlett Learning, 2020).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$35 per month for 90 tablets that are 10 mg each (GoodRx, 2021).

Drug #10	Drug Name (Generic): Polyethylene Glycol 3350
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Drug Class: Osmotic Laxative	Drug Name (Trade): MiraLax
How is the medication taken: (include dose, route, and frequency)	17 mg mixed in 8 ounces of juice or water, PO, One time daily
Specific Directions not included above:	Mix it with a liquid and take by mouth. Mix it with a decaffeinated liquid (The American Society of Health-System Pharmacists, 2016).
Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)	This drug should not be taken at the same time as other drugs due to the risk of decreasing absorption of other drugs (The American Society of Health-System Pharmacists, 2016).
Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)	Avoid drinking alcohol while taking this medication. Alcohol can increase GI upset and increase side effects of the drug (The American Society of Health-System Pharmacists, 2016).
Does any of the client's past medical history contradict the use of this medication?	The client has chronic kidney disease, which can be a problem when taking this medication. Polyethylene Glycol 3350 can cause an electrolyte imbalance and can be worse in patients with kidney disease (The American Society of Health-System Pharmacists, 2016).
What is the indication for use of this medication based on the client's past medical history? (If unable	This medication is used to treat constipation. A common sign/symptom for chronic kidney disease is constipation. Therefore, Polyethylene Glycol 3350 is used to treat constipation that

to determine an indication based on past medical history, please list potential indications for use of the medication in general)	arises from the patient's chronic kidney disease (The American Society of Health-System Pharmacists, 2016).
What would you teach the client about taking this medication?	Avoid drinking alcohol when taking this medication. Also, watch for symptoms of overdose such as bloating, stomach pain, excessive dehydration, and diarrhea (The American Society of Health-System Pharmacists, 2016).
How much would medication cost per month if paying out of pocket?	If buying using Good RX, it would cost \$15 per month for 30 doses of 17 mg (GoodRx, 2021).

Is there anything about this medication regimen scenario that might indicate a potential difficulty in maintaining compliance with the orders as listed?

- Caroline only has her daughter to take care of her and help with her daily tasks to live. That includes staying on top of the medication regimen. This can cause a potential problem. Her daughter may not be able to be with her every second of the day

to help control episodes of Alzheimer's. Also, Caroline is taking a medication that she could potentially have an allergic reaction to. This medication also interacts with many of the other drugs on her medication list. That is ipratropium bromide, Atrovent HFA. Also, Caroline should stop drinking wine at lunch due to the fact that alcohol interacts with many of her medications. The client medication also adds up to be around \$630 per month.

Is there anything about this medication regimen scenario that might assist the client in maintaining the medication regimen as ordered?

- Caroline living with her daughter at home is a great situation for Caroline to be in. Her daughter is the backbone to Caroline getting day to day activities completed. She has medication for each of her diagnoses which can assist her daughter in getting her to feel like "normal". Caroline taking olanzapine, haloperidol, and memantine assists the client in controlling her Alzheimer's.

What suggestions might you make to the prescriber and/or client (or questions you might ask the prescriber) to help this client scenario? (think about decreasing the potential for interaction(s) through medication reduction, other potential medications, diet changes, lifestyle changes, etc)

- It would be in the client's best interest to suggest to the provider to switch the Atrovent HFA to a different medication to help with Caroline's COPD. I would suggest a steroid of some sort to help with this. This would decrease potential interactions with

multiple other medications on the list as well as decrease the chance of Caroline having an allergic reaction to the medication since she is allergic to peanuts and this medication is derived from them.

- It would also be in Caroline's best interest to discontinue drinking alcohol at lunch time due to the medication she is on. CNS depression is what I would be most concerned about for Caroline taking her medications and using alcohol at the same time.

What would the patients monthly out of pocket expense for all 10 medications? (Total Cost for all 10 meds)?

- If the patient were to not have prescription medication insurance, the total cost of medications for one month would be \$630. However, since she has prescription medication insurance, it is likely she would not have to pay the entire bill straight out of pocket.

Reflective Statement of Experience:

- This project has opened my eyes to the many different aspects of understanding a patient's medication regimen. Such as learning about how insurance works and seeing how much a typical patient would pay a month for their own medications. I also learned how to apply the disease pathophysiology to the medications the patient's are taking. This project took me a lot of time. That also made me realize how important it is to not miss anything when coming up with a patient's medication regimen.

For example, Caroline has an allergy to something that is in her own medications. Overall, I enjoyed learning about how different medications interact with each other.

References

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N322 Polypharmacy Rubric

You will be given a scenario about your client with a list of medications. You will make sure your client is taking medications correctly, educate them on educations, and look for contradictions, costs, over the counter lifestyle factors & compliance with medications.

Please address all rubric items. Please include a reflection of your experience. You may place drugs in each separate paragraph or in a table. You must cite your source for each paragraph or table.

N322 Polypharmacy Grading Rubric

<u>Criteria</u>	<u>Excellent 40 points</u>	<u>Acceptable 31-39 points</u>	<u>Unacceptable 0-30 points</u>	<u>Points Earned</u>
<p><u>Each drug should have a complete breakdown within the tables provided, which includes the following:</u></p> <ul style="list-style-type: none"> • <u>Drug class</u> • <u>Generic name</u> • <u>Trade name</u> • <u>How is the medication taken (include dose, route, frequency)</u> 	<p><u>All key components were addressed within the paper and were accurate.</u></p>	<p><u>The student provided the required information for the medications, but not all and/or the answers provided were inaccurate. (Each individual component for each medication is worth one point)</u></p>	<p><u>The student failed to address a sufficient number of the listed components within the paper and/or the components were addressed but were inaccurate. Each individual component for each medication is worth one point)</u></p>	<p><u>____/40</u></p>
<u>Criteria</u>	<u>Excellent 10 points</u>	<u>Acceptable 8-10 points</u>	<u>Unacceptable 0 - 7 points</u>	<u>Points Earned</u>

<p><u>Specific Directions not included above:</u></p> <ul style="list-style-type: none"> • <u>Is there any type of medication on the patient list that have specific directions?</u> - <u>(before bed, before breakfast, 30 minutes before meals, etc..)</u> 	<p><u>All key components were addressed within the paper.</u></p>	<p><u>The student did list some of the medications that required specific directions, however, some of the medications included specific directions that were not addressed and/or were inaccurate. (For each medication this question if worth one point)</u></p>	<p><u>student failed to answer the questions and/or the answers were inaccurate. (For each medication this question is worth one point)</u></p>	<p><u>____/10</u></p>
<p><u>Criteria</u></p>	<p><u>Excellent</u> <u>0 points</u></p>	<p><u>Acceptable</u> <u>16-19</u></p>	<p><u>Unacceptable</u> <u>0-15 points</u></p>	<p><u>Points Earned</u></p>

<p>Does this medication have any potentially serious interactions with any other medication(s) on this list and/or potential interactions that should be closely monitored due to co-administration?</p> <p>• Do any of the medications interact with each other?</p> <p>(Please note: if there is an interaction between two medication, you MUST list that interaction on BOTH medications to receive full credit. You may utilize the same verbiage/wording on each medication, we want to know you are thinking about it when considering each medication)</p> <p>-</p>	<p>All medications reviewed and student explained medication interactions.</p>	<p>The student did list some of the potential interactions between the medication(s), but failed to address all potential interactions that are serious and/or need close monitoring. (for each medication listed this question is worth two points)</p>	<p>Student failed to answer question and/or The student did list some of the potential interactions of the medication(s), but failed to address all potential interactions that are serious and/or need close monitoring. (for each medication listed this question is worth two points)</p>	<p>____/20</p>
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Criteria	Excellent 5 points	Acceptable 4 points	Unacceptable 0 -3 points	Points Earned
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<p><u>Lifestyle interactions:</u></p> <ul style="list-style-type: none"> • <u>What lifestyle factors counteract with the medications?</u> <p>(tobacco user, ETOH use - 3 beers daily)</p> <p>-</p>	<p><u>Student showed knowledge why lifestyle would counteract with medications</u></p>	<p><u>The student listed lifestyle interactions for some of the medications, but not all and/or the interactions listed were not priority or were incorrect. (For each medication, this question is worth half a point)</u></p>	<p><u>Student failed to answer question or the student listed lifestyle interactions for some of the medications, but not all and/or the interactions listed were not priority or were incorrect. (For each medication, this question is worth half a point)</u></p>	<p><u> /5</u></p>
<p><u>Criteria</u></p>	<p><u>Excellent</u> <u>10 points</u></p>	<p><u>Average</u> <u>8-9</u></p>	<p><u>Unacceptable</u> <u>0-7 points</u></p>	<p><u>Points Earned</u></p>

<p>• <u>Does any of the client's past medical history contradict the use of this medication?</u></p>	<p><u>Student showed knowledge why the history would contradict the use of the medication(s).one point)</u></p>	<p><u>Student provided answers to the question(s), but failed to answer all the questions and/or the answers provided were inaccurate. (For each medication this question is worth one point)</u></p>	<p><u>Student failed to answer question or Student provided answers to the question(s), but failed to answer all the questions and/or the answers provided were inaccurate. (For each medication this question is worth one point)</u></p>	<p><u> /10</u></p>
<p><u>Criteria</u></p>	<p><u>Excellent</u> <u>10 points</u></p>	<p><u>Acceptable</u> <u>8-9 points</u></p>	<p><u>Unacceptable</u> <u>0-7 points</u></p>	<p><u>Points Earned</u></p>

<p>• <u>What is the indication for use of this medication based on the client's past medical history? (If unable to determine an indication based on past medical history, please list potential indications for use of the medication in general)</u></p>	<p><u>Student showed knowledge of medications and what conditions corresponds with medications</u></p>	<p><u>The student provided appropriate indications for some of the medications, but failed to capture all of the appropriate indications for use. (For each medication this question is worth one point)</u></p>	<p><u>Student failed to answer the question or The student provided appropriate indications for some of the medications, but failed to capture all of the appropriate indications for use. (For each medication this question is worth one point)</u></p>	<p><u> /10</u></p>
<p><u>Criteria</u></p>	<p><u>Excellent 20 points</u></p>	<p><u>Acceptable 16-19 points</u></p>	<p><u>Unacceptable 0-15 points</u></p>	<p><u>Points Earned</u></p>

<p><u>What would you teach the client about taking this medication?</u></p> <ul style="list-style-type: none"> • <u>What education is needed for the medication (For each medication listed the student must prioritize two topics for client education)</u> <p><u>(You must consider all component(s) of the medication list when answering this question... if there are potential interactions with other medication this may be a priority over general education for this one medication)</u></p>	<p><u>Student showed the importance of medication education, and appropriate prioritized client education for the scenario provided.</u></p>	<p><u>The student provided some appropriate education for the client but failed to capture all of the appropriately prioritized education for the client. (Each topic of education is worth one point)</u></p>	<p><u>Student failed to answer the question OR The student provided some appropriate education for the client, but failed to capture all of the appropriately prioritized education for the client. (Each topic of education is worth one point)</u></p>	<p><u>____/20</u></p>
<p><u>Criteria</u></p>	<p><u>Excellent</u> <u>10 points</u></p>	<p><u>Acceptable</u> <u>8-9 points</u></p>	<p><u>Unacceptable</u> <u>0-7 points</u></p>	<p><u>Points Earned</u></p>

<p>Is there anything about this medication regimen/ scenario that might indicate a potential difficulty in maintaining compliance with the orders as listed?</p> <ul style="list-style-type: none"> • <u>Why would the patient have difficulty maintaining the medication regiment?</u> <p><u>(Please consider all factors in the scenario and all information provided within your chart - including cost, insurance, frequency of administration, etc)</u></p>	<p><u>Student had knowledge on why patient would have difficulty with medication regimen</u></p>	<p><u>The student indicated some potential reasons that the client may have difficulty, however the student failed to indicate a reason OR an appropriate reason for some of the medications (This question is worth one point for each medication)</u></p>	<p><u>Student failed to answer the question OR the student indicated some potential reasons that the client may have difficulty, however the student failed to indicate a reason OR an appropriate reason for some of the medications (This question is worth one point for each medication)</u></p>	<p><u>____/10</u></p>
<p><u>Criteria</u></p>	<p><u>Excellent</u> <u>10 points</u></p>	<p><u>Acceptable</u> <u>8-9 points</u></p>	<p><u>Unacceptable</u> <u>0-7 points</u></p>	<p><u>Points Earned</u></p>

<p>Is there anything about this medication regimen/ scenario that might assist the client in maintaining the medication regimen as ordered?</p> <ul style="list-style-type: none"> • <u>What factors are present to remain compliant?</u> <p>(Please consider all factors in the scenario and all information provided within your chart - including cost, insurance, frequency of administration, etc.)</p>	<p>Student had knowledge on medication compliance</p>	<p>The student answered the question appropriately for some of the medications but failed to indicate all of the factors that are present that assist with compliance. (This question is worth one point for each medication)</p>	<p>Student failed to answer the question OR The student answered the question appropriately for some of the medications but failed to indicate all of the factors that are present that assist with compliance. (This question is worth one point for each medication)</p>	<p>____/10</p>
<p><u>Criteria</u></p>	<p><u>Excellent</u> <u>10 points</u></p>	<p><u>Acceptable</u> <u>8-9 points</u></p>	<p><u>Unacceptable</u> <u>0 points</u></p>	<p><u>Points Earned</u></p>

<ul style="list-style-type: none"> • <u>How much would the medication cost per month if the patient were to pay for them out of pocket? (best assessment based off of research)</u> • <u>What would the client's monthly out of pocket expense for all 10 medications?</u> 	<p><u>Student showed research on medication costs</u></p>	<p><u>The student provided accurate research for some of the medications, but failed to provide research for all medications (This question is worth one point for each medication, with the total cost being worth 5 points)</u></p>	<p><u>Student failed to answer the question OR The student provided accurate research for some of the medications, but failed to provide research for all medications (This question is worth one point for each medication, with the total cost being worth 5 points)</u></p>	<p><u> /15</u></p>
<p><u>Criteria</u></p>	<p><u>Excellent</u> <u>20 points</u></p>	<p><u>Acceptable</u> <u>16-19 points</u></p>	<p><u>Unacceptable</u> <u>0-15 points</u></p>	<p><u>Points Earned</u></p>

<p>The student must appropriately format the paper and include all the following:</p> <ul style="list-style-type: none"> Entire document must include appropriate citations, reference page, page numbers, running head, all with appropriate formatting per APA (10 points - each missing or inaccurate portion per APA is worth one point) The student provided a rubric attached for grading (3 points) The student included the provided client scenario on page two of the document (2 points) The paper included a minimum of five references which were cited within the document (each reference with one citation is worth 5 points) 	<p>The document included a title page, the client scenario, a reference page which included five references that were cited within the document. APA formatting was consistent with the APA manual.</p>	<p>The document did not meet all of the criteria for formatting/referencing. See "criteria" to the left for further breakdown.</p>	<p>The document did not meet all of the criteria for formatting/referencing. See "criteria" to the left for further breakdown.</p>	<p>____/20</p>
<p><u>Criteria</u></p>	<p><u>Excellent</u></p>	<p><u>Acceptable</u></p>	<p><u>Unacceptable</u></p>	<p><u>Points</u></p>

	<u>20 points</u>	<u>16-19 points</u>	<u>0-15 points</u>	<u>Earned</u>
<p><u>What suggestions might you make to the prescriber and/or client (or questions you might ask the prescriber) to help this client scenario? (think about decreasing the potential for interaction(s) through medication reduction, other potential medications, diet changes, lifestyle changes, etc)</u></p> <p><u>Elaborate on this, explaining why you feel it should be addressed, why it is priority and provide evidence behind your presentation.</u></p>	<p><u>The student was able to identify one potential idea or question to present to the prescriber or client. This question showed evidence of good critical thinking.</u></p>	<p><u>The student was able to identify one potential idea or question to present to the prescriber or client. However there was a much higher priority question/suggestion/issue within the scenario that should have been addressed.</u></p>	<p><u>The student failed to answer the question OR the student answered the question, however the students answer was dangerously inaccurate.</u></p>	<p>____/20</p>
<u>Criteria</u>	<u>Excellent 10 points</u>	<u>Acceptable 8-9 points</u>	<u>Unacceptable 0-7 points</u>	<u>Points Earned</u>

<p>• <u>Reflective statements of experience should include the following:</u></p> <ul style="list-style-type: none"> -insight into the project itself (a specific example within the project and its implications) -A basic understanding of polypharmacy -A reflection on this student nurses role in this scenario as a client advocate/educator/caregiver 	<p><u>The students provided reflection showed good insight into the project itself (a specific example within the project polypharmacy, and the nurses role in and its implications). client advocacy</u></p>	<p><u>The student provided a reflection however the reflection lacked one of the following project OR the student addressed only of the topics of reflection</u></p> <ul style="list-style-type: none"> -A basic understanding of polypharmacy -A reflection on this student nurses role in this scenario as a client advocate/educator/caregiver 		<p><u> /10</u></p>
<p><u>Total Points</u></p>				<p><u> /200</u></p>