

Polypharmacy Project

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N322 Introduction to Pharmacology

Lakeview College of Nursing

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**Background:** Karen is a 34-year-old female that presents to the emergency department with complaints of severe abdominal pain with an onset of 7 days ago. Karen states that the pain started seven days ago and has gradually increased over the past week. She is currently rating the pain at 10/10. She states that she started taking her ibuprofen to assist in alleviating the pain, but it is no longer helping at all. She states that when her pain started getting worse she started developing nausea, and has vomited times two this morning. Her emesis was blood tinged. Other significant assessments include abdominal tenderness and reports of increased symptoms of GERD over the last month. Karen had a pituitary tumor surgical excision 1 month ago and has an extensive past medical history.

**Insurance:** Karen has medicaid

**Allergies:** Aspirin

**Diet:** No added salt & low concentrated sweets

**Medical diagnosis:** Cushing's, gastroesophageal reflux disease, recurrent constipation, hypertension, depression, type 2 diabetes mellitus

**Current medications include the following:**

Hydrocortisone 15 mg every am and 5 mg in the afternoon

Metoprolol tartrate 25 mg by mouth twice a day

Spironolactone-hydrochlorothiazide 50 mg/ 50 mg take 1 tablet by mouth daily

Prozac 20 mg by mouth twice a day

Glimepiride 6 mg by mouth daily

Atorvastatin 10 mg by mouth daily

Omeprazole 20 mg by mouth daily

Miralax 17 gram by mouth daily

Bismuth subsalicylate 525 mg (30ML) by mouth every 6 hours PRN

Ibuprofen 400 mg by mouth every 6 hours PRN

<b>Drug #1</b>  <b>Drug Class:</b> Adrenocorticoid replacement, anti-inflammatory	<b>Drug Name (Generic):</b> hydrocortisone  <b>Drug Name (Trade):</b> Cortef
<b>How is the medication taken: (include dose, route, and frequency)</b>	15 mg every morning, 5 mg every afternoon, PO
<b>Specific Directions not included above:</b>	Hydrocortisone should be taken with food or milk, do not stop taking abruptly, and patient may bruise easily (Jones & Bartlett Learning, 2020).
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	<ol style="list-style-type: none"> <li>1. Ibuprofen - may increase the side effects of the GI tract such as inflammation, bleeding, ulceration, and perforation</li> <li>2. Miralax - can increase the risk of dehydration and hypokalemia</li> <li>3. Glimepiride – can potentially increase blood glucose</li> <li>4. Spironolactone-hydrochlorothiazide – possible severe hypokalemia</li> </ol> (Drugs.com, 2020)
<b>Lifestyle interactions:</b>  <b>(Daily tobacco use, alcohol, drugs, etc.)</b>	No known lifestyle interactions
<b>Does any of the client’s past medical history contradict the use of this medication?</b>	No known past medical contraindications

<p><b>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)</b></p>	<p>Gastroesophageal reflux disease (GERD)</p>
<p><b>What would you teach the client about taking this medication?</b></p>	<ol style="list-style-type: none"> <li>1. Take the daily dose at 0900</li> <li>2. Take the oral suspension with food or milk (Jones &amp; Bartlett Learning, 2020)</li> </ol>
<p><b>How much would medication cost per month if paying out of pocket?</b></p>	<p>\$21.89 for 90 tablets, 10 mg at CVS Pharmacy (Goodrx, 2020).</p>

<p><b>Drug #2</b></p> <p><b>Drug Class:</b> Antihypertensive</p>	<p><b>Drug Name (Generic):</b> metoprolol tartrate</p> <p><b>Drug Name (Trade):</b> Lopresor</p>
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<b>How is the medication taken: (include dose, route, and frequency)</b>	25 mg, BID, PO
<b>Specific Directions not included above:</b>	Metoprolol should be taken with food at the same time every day. Do not take if pulse is under 60 beats/minute (Jones & Bartless Learning, 2020).
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	<ol style="list-style-type: none"> <li>1. Ibuprofen - can reduce the effects of metoprolol in lowering blood pressure</li> <li>2. Glimepiride - increases the risk of hypoglycemia</li> <li>3. Prozac – increased plasma metoprolol level causing decrease in cardioselectivity of metoprolol</li> </ol> <p>(Drugs.com, 2020)</p>
<b>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</b>	No known lifestyle interactions
<b>Does any of the client's past medical history contradict the use of this medication?</b>	No known past medical contraindications
<b>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</b>	Hypertension

<b>medication in general)</b>	
<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"><li>1. Take this medication with food at the same time every day</li><li>2. Do not take if pulse is lower than 60 beats/minute (Jones &amp; Bartlett Learning, 2020)</li></ol>
<b>How much would medication cost per month if paying out of pocket?</b>	\$4.00 for 60 tablets, 25 mg at Walmart (Goodrx, 2020)

<b>Drug #3</b>	<b>Drug Name (Generic):</b> spironolactone-hydrochlorothiazide
<b>Drug Class:</b> Diuretic	<b>Drug Name (Trade):</b> Aldactone

<b>How is the medication taken: (include dose, route, and frequency)</b>	50 mg, Daily, PO
<b>Specific Directions not included above:</b>	Spironolactone-hydrochlorothiazide should be taken with meals or milk.
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	<ol style="list-style-type: none"> <li>1. Miralax - can increase the risk of dehydration and electrolyte imbalances</li> <li>2. Hydrocortisone - possible severe hypokalemia</li> <li>3. Ibuprofen – risk of severe hyperkalemia</li> </ol> <p>(Drugs.com, 2020)</p>
<b>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</b>	Patient should avoid a high potassium diet, low-salt milk, and salt substitutes (Jones & Bartlett Learning, 2020)
<b>Does any of the client’s past medical history contradict the use of this medication?</b>	No known past medical contraindications
<b>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)</b>	Hypertension
<b>What would you teach the client about taking this</b>	<ol style="list-style-type: none"> <li>1. Take this medication with meals or milk</li> </ol>

<b>medication?</b>	2. Teach patient how to monitor blood pressure regularly (Jones & Bartlett Learning, 2020)
<b>How much would medication cost per month if paying out of pocket?</b>	\$18.18 for 30 tablets, 25 mg at CVS Pharmacy (Goodrx, 2020)

<b>Drug #4</b>	<b>Drug Name (Generic):</b> Fluoxetine
<b>Drug Class:</b> Antidepressant	<b>Drug Name (Trade):</b> Prozac
<b>How is the medication taken: (include dose, route,</b>	25 mg, BID, PO

<b>and frequency)</b>	
<b>Specific Directions not included above:</b>	Patient should watch for signs and symptoms of serotonin syndrome (Jones & Bartlett Learning, 2020)
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	<ol style="list-style-type: none"> <li>1. Ibuprofen - can increase the risk of bleeding</li> <li>2. Metoprolol - increased plasma metoprolol level causing decrease in cardioselectivity of metoprolol</li> <li>3. Glimepiride - risk of hyperglycemia</li> </ol> (Drugs.com, 2020)
<b>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</b>	No known lifestyle interactions
<b>Does any of the client's past medical history contradict the use of this medication?</b>	No known past medical contraindications
<b>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)</b>	Depression

<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"> <li>1. The patient and family should watch for suicidal tendencies when taking medication</li> <li>2. Patient should not stop taking this medication abruptly, and should be tapered off  (Jones &amp; Bartlett Learning, 2020)</li> </ol>
<b>How much would medication cost per month if paying out of pocket?</b>	\$3.84 for 30 capsules, 20 mg at Hy-Vee (Goodrx, 2020)

<b>Drug #5</b>	<b>Drug Name (Generic):</b> glimepiride
<b>Drug Class:</b> Antidiabetic	<b>Drug Name (Trade):</b> Amaryl
<b>How is the medication taken: (include dose, route, and frequency)</b>	6 mg, Daily, PO
<b>Specific Directions not included above:</b>	Glimepiride should be taken before the first meal of the day, and that meal should not be

	skipped (Jones & Bartlett Learning, 2020)
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	<ol style="list-style-type: none"> <li>1. Metoprolol - increases the risk of hypoglycemia</li> <li>2. Hydrocortisone - can potentially increase blood glucose</li> <li>3. Fluoxetine – risk of hyperglycemia</li> <li>4. Ibuprofen - risk of hyperglycemia</li> </ol> <p>(Drugs.com, 2020)</p>
<b>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</b>	Patient should avoid alcohol use, as it alters blood glucose control and usually leads to hypoglycemia (Jones & Bartlett Learning, 2020)
<b>Does any of the client’s past medical history contradict the use of this medication?</b>	No known past medical contraindications
<b>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)</b>	Type 2 Diabetes Mellitus
<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"> <li>1. Take this medication before your first meal of the day</li> <li>2. Do not skip the meal you take this medication before, and do not skip any doses</li> </ol>

	(Jones & Bartlett Learning, 2020)
<b>How much would medication cost per month if paying out of pocket?</b>	\$4.00 for 30 tablets, 4 mg at Walmart (Goodrx, 2020)

<b>Drug #6</b>	<b>Drug Name (Generic):</b> atorvastatin
<b>Drug Class:</b> Antihyperlipidemic	<b>Drug Name (Trade):</b> Lipitor
<b>How is the medication taken: (include dose, route, and frequency)</b>	10 mg, Daily, PO
<b>Specific Directions not included above:</b>	Atorvastatin should be taken at the same time every day (Jones & Bartlett Learning, 2020)
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further</b>	No known drug interactions

<b>instruction)</b>	
<b>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</b>	Patient should avoid grapefruit juice, as it can increase blood atorvastatin level (Jones & Bartlett Learning, 2020)
<b>Does any of the client's past medical history contradict the use of this medication?</b>	No known past medical contraindications
<b>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)</b>	This medication can be used to control lipid levels, and to reduce the risk of a cardiovascular event such as angina, CVA, and MI (Jones & Bartlett Learning, 2020)
<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"> <li>1. Since the patient has diabetes, she should closely monitor her blood glucose levels</li> <li>2. Take this drug at the same time every day (Jones &amp; Bartlett Learning, 2020)</li> </ol>
<b>How much would medication cost per month if paying out of pocket?</b>	\$8.25 for 30 tablets, 40 mg at Hy-Vee (Goodrx, 2020)

<b>Drug #7</b>	<b>Drug Name (Generic):</b> omeprazole
<b>Drug Class:</b> Antiulcer	<b>Drug Name (Trade):</b> Prilosec
<b>How is the medication taken: (include dose, route, and frequency)</b>	20 mg, Daily, PO
<b>Specific Directions not included above:</b>	Omeprazole should be taken before eating, usually before breakfast (Jones & Bartlett Learning, 2020)
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	No known drug interactions

<b>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</b>	No known lifestyle interactions
<b>Does any of the client's past medical history contradict the use of this medication?</b>	No known past medical contraindications
<b>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)</b>	Gastroesophageal Reflux Disease
<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"><li>1. Patient should take this drug before eating breakfast</li><li>2. Patient should avoid things foods and drinks that increase gastric secretions, like alcohol, aspirin, ibuprofen, and certain foods (Jones &amp; Bartlett Learning, 2020)</li></ol>
<b>How much would medication cost per month if paying out of pocket?</b>	\$8.00 for 30 capsules, 40 mg at Meijer Pharmacy (Goodrx, 2020)

<b>Drug #8</b>  <b>Drug Class:</b> Laxative	<b>Drug Name (Generic):</b> polyethylene glycol  <b>Drug Name (Trade):</b> MiraLAX
<b>How is the medication taken: (include dose, route, and frequency)</b>	17 g, Daily, PO
<b>Specific Directions not included above:</b>	Polyethylene glycol powder should be mixed with cold or hot beverages and consumed right away (Drugs.com, 2019)
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	<ol style="list-style-type: none"> <li>1. Hydrocortisone -can increase the risk of dehydration and hypokalemia</li> <li>2. Hydrochlorothiazide/spironolactone - can increase the risk of dehydration and electrolyte imbalances</li> </ol> (Drugs.com, 2020)
<b>Lifestyle interactions:</b>	No known lifestyle interactions

<b>(Daily tobacco use, alcohol, drugs, etc.)</b>	
<b>Does any of the client's past medical history contradict the use of this medication?</b>	No known past medical contraindications
<b>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)</b>	Recurrent constipation
<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"><li>1. This medication should be mixed with either cold or hot liquids and consumed immediately</li><li>2. A bowel movement should be produced within 1-3 days (Drugs.com, 2019b)</li></ol>
<b>How much would medication cost per month if paying out of pocket?</b>	\$12.51 for 1 bottle/30 doses, 17g/dose at Kroger Pharmacy (Goodrx, 2020)

<b>Drug #9</b>	<b>Drug Name (Generic):</b> bismuth subsalicylate
<b>Drug Class:</b> Antidiarrheal	<b>Drug Name (Trade):</b> Pepto-Bismol
<b>How is the medication taken: (include dose, route, and frequency)</b>	525 mg (30 mL), Q6H PRN, PO
<b>Specific Directions not included above:</b>	Patient should drink plenty of clear liquids with bismuth subsalicylate
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	No known drug interactions
<b>Lifestyle interactions: (Daily tobacco use, alcohol, drugs, etc.)</b>	No known lifestyle interactions (Rxlist, 2018)

<b>Does any of the client's past medical history contradict the use of this medication?</b>	Diabetes Mellitus (WebMD, 2020)
<b>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)</b>	Gastroesophageal Reflux Disease
<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"><li>1. Patient should take with plenty of clear liquids to prevent dehydration</li><li>2. Patient should not use this medication for more than 2 days (Rxlist, 2018)</li></ol>
<b>How much would medication cost per month if paying out of pocket?</b>	\$8.80 for 120 tablets, 262 mg at Walmart (Goodrx, 2020)

<b>Drug #10</b>  <b>Drug Class:</b> Analgesic, Anti-inflammatory, Antipyretic	<b>Drug Name (Generic):</b> ibuprofen  <b>Drug Name (Trade):</b> Advil
<b>How is the medication taken: (include dose, route, and frequency)</b>	400 mg, Q6H PRN, PO
<b>Specific Directions not included above:</b>	Ibuprofen should be taken with a full glass of water (Jones & Bartlett Learning, 2020)
<b>Does this medication interact with any other medication(s) on this list? (see rubric for further instruction)</b>	<ol style="list-style-type: none"> <li>1. Hydrocortisone- may increase the side effects of the GI tract such as inflammation, bleeding, ulceration, and perforation</li> <li>2. Metoprolol - can have reduced effects of lowering blood pressure</li> <li>4. Fluoxetine - can increase the risk of bleeding</li> <li>5. Spironolactone-hydrochlorothiazide - risk of severe hyperkalemia</li> <li>6. Glimepiride - risk of hyperglycemia</li> </ol>

	(Drugs.com, 2020)
<b>Lifestyle interactions:</b> <b>(Daily tobacco use, alcohol, drugs, etc.)</b>	Alcohol should be avoided, as it increases the risk of adverse GI effects (Jones & Bartlett Learning, 2020)
<b>Does any of the client's past medical history contradict the use of this medication?</b>	Hypersensitivity to aspirin (Jones & Bartlett Learning, 2020)
<b>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)</b>	Gastroesophageal Reflux Disease
<b>What would you teach the client about taking this medication?</b>	<ol style="list-style-type: none"> <li>1. This medication should be taken with a full glass of water</li> <li>2. Take medication with food to decrease GI upset (Jones &amp; Bartlett Learning, 2020)</li> </ol>
<b>How much would medication cost per month if paying out of pocket?</b>	\$5.79 for 30 tablets, 800 mg at Walmart (Goodrx, 2020)

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

One potential difficulty the patient might face is that she may not be able to afford her medications. The total cost for all of the medications is \$95.26. While the patient is on Medicaid, Medicaid may not cover the cost of all medications, therefore there is potential the patient could not afford all of the medications. Another potential difficulty is that the patient is still using ibuprofen for pain. Gastroesophageal reflux disease is contraindicated in the use of ibuprofen, as it can cause stomach upset and even bleeding. The last potential difficulty is managing pain. The patient may need to be prescribed a specific pain medication to manage her pain, as she should not be using NSAIDs and she is allergic to aspirin.

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

Most of the patient's medications are to be taken once daily. If the patient takes them all every day at the same time, it might make it easier for her to maintain her medication regimen. Another thing that might assist the patient in maintaining the regimen is being on Medicaid. If we assume that Medicaid will cover the total cost of her medications every month, then the patient should have little to no problem sticking with her medication regimen. The patient's use of ibuprofen does cause a problem, as it causes GI upset and may cause vomiting. As long as the patient avoids the use of ibuprofen, the patient should be able to keep all of her medications down and not vomit them back up.

**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)**

One suggestion I would make to the provider is prescribing a pain medication to help the patient manage her pain related to her gastroesophageal reflux disease. Gastroesophageal reflux disease is contraindicated in the use of ibuprofen, which the client is now taking to manage her pain. The ibuprofen is what is making her pain worse and causing blood-tinged sputum. Another suggestion I would make to the provider is to discontinue the use of bismuth subsalicylate. Type 2 Diabetes Mellitus is contraindicated in the use of bismuth subsalicylate. The patient also should not be taken bismuth subsalicylate because it is an antidiarrheal. The patient is taking two medications that contradict each other: bismuth subsalicylate and miralax. The patient has recurrent constipation and these medications would essentially cancel each other out.

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

The patient's total monthly out of pocket expense for all 10 medications would be \$95.26 (Goodrx, 2020).

**Reflective Statement of Experience:**

I feel that this project was a great way to show how different medications can all interact together, and can all contraindicate each other. While the provider is responsible for prescribing medications, the nurse is ultimately responsible for making sure the medications work together. Polypharmacy can be life or death, and the nurse is the main person in charge of all the patient's medications. The nurse also needs to watch for signs and symptoms of adverse drug-drug reactions. In the end, the patient's life is in the hands of the nurse, so the nurse needs to be ever vigilant when dealing with medications. This project helped open my eyes and I believe I have a better perspective on how to do the research and make sure medications can be taken together.

### References

*2020 Nurse's drug handbook.* (2020). Jones & Bartlett Learning.

Drugs.com. (2020). *Drug interactions checker.* [https://www.drugs.com/interaction/list/?drug\\_list=2379-0,1615-16311,1268-0,1115-0,1176-0,1750-0,276-0,1893-0,391-0,1310-0](https://www.drugs.com/interaction/list/?drug_list=2379-0,1615-16311,1268-0,1115-0,1176-0,1750-0,276-0,1893-0,391-0,1310-0)

Drugs.com. (2019). *Miralax.* <https://www.drugs.com/miralax.html>

Goodrx. (2020). *Prescription prices, coupons & pharmacy information.* <https://www.goodrx.com>

Rxlist. (2018). *Bismuth subsalicylate.* [https://www.rxlist.com/consumer\\_bismuth\\_subsalicylate\\_kaopectate/drugs-condition.htm](https://www.rxlist.com/consumer_bismuth_subsalicylate_kaopectate/drugs-condition.htm)

WebMD. (2020). *Who should not take pepto-bismol tablets, chewable?* <https://www.webmd.com/drugs/2/drug-2842/pepto-bismol->

oral/details/list-contraindications

### N322 Polypharmacy Grading Rubric

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

<p>Specific Directions not included above:</p> <ul style="list-style-type: none"> <li>Is there any type of medication on the patient list that have specific directions?</li> </ul> <p>(before bed, before breakfast, 30 minutes before meals, etc..)</p>	<p>All key components were addressed within the paper.</p>	<p>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)</p>	<p>Student failed to answer the questions and/or the answers were inaccurate. (For each medication this question is worth one point)</p>	<p>___/10</p>
<p><b>Criteria</b></p>	<p><b>Excellent 0 points</b></p>	<p><b>Acceptable 16-19</b></p>	<p><b>Unacceptable 0-15 points</b></p>	<p><b>Points Earned</b></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> <ul style="list-style-type: none"> <li>Do any of the medications interact with each other?</li> </ul> <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>All medications reviewed and student explained medication interactions.</p>	<p>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>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
Lifestyle interactions: <ul style="list-style-type: none"> <li>What lifestyle factors counteract with the medications?</li> </ul> (tobacco user, ETOH use – 3 beers daily)	Student showed knowledge why lifestyle would counteract with medications	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)	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)	___/5
Criteria	Excellent 10 points	Average 8-9	Unacceptable 0-7 points	Points Earned
<ul style="list-style-type: none"> <li>Does any of the client’s past medical history contradict the use of this</li> </ul>	Student showed knowledge why the client’s past	Student provided answers to the question(s), but failed to answer all the questions and/or the answers provided were	Student failed to answer question or Student provided	___/10

medication?	medical history would contradict the use of the medication(s).	inaccurate. (For each medication this question is worth one point)	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)	
<b>Criteria</b>	<b>Excellent 10 points</b>	<b>Acceptable 8-9 points</b>	<b>Unacceptable 0-7 points</b>	<b>Points Earned</b>
<ul style="list-style-type: none"> <li>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)</li> </ul>	Student showed knowledge of medications and what conditions corresponds with medications	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)	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)	___/10
<b>Criteria</b>	<b>Excellent 20 points</b>	<b>Acceptable 16-19 points</b>	<b>Unacceptable 0-15 points</b>	<b>Points Earned</b>
What would you teach the client about taking this	Student showed the	The student provided some appropriate education for the	Student failed to answer the	___/20

<p>medication?</p> <ul style="list-style-type: none"> <li>What education is needed for the medication? (For each medication listed the student must prioritize two topics for client education)</li> </ul> <p>(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)</p>	<p>importance of medication education, and appropriate prioritized client education for the scenario provided.</p>	<p>client, but failed to capture all of the appropriately prioritized education for the client. (Each topic of education is worth one point)</p>	<p>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)</p>	
<p><b>Criteria</b></p>	<p><b>Excellent 10 points</b></p>	<p><b>Acceptable 8-9 points</b></p>	<p><b>Unacceptable 0-7 points</b></p>	<p><b>Points Earned</b></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"> <li>Why would the patient have difficulty maintaining the medication regiment?</li> </ul> <p>(Please consider all factors in the scenario and all</p>	<p>Student had knowledge on why a patient would have difficulty with medication regiment</p>	<p>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)</p>	<p>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</p>	<p>___/10</p>

information provided within your chart – including cost, insurance, frequency of administration, etc)			appropriate reason for some of the medications (This question is worth one point for each medication)	
<b>Criteria</b>	<b>Excellent 10 points</b>	<b>Acceptable 8-9 points</b>	<b>Unacceptable 0-7 points</b>	<b>Points Earned</b>
<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"> <li>What factors are present to remain compliant?</li> </ul> <p>(Please consider all factors in the scenario and all information provided within your chart – including cost, insurance, frequency of administration, etc.</p>	Student had knowledge on medication compliance	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)	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)	___/10
<b>Criteria</b>	<b>Excellent 10 points</b>	<b>Acceptable 8-9 points</b>	<b>Unacceptable 0 points</b>	<b>Points Earned</b>
<ul style="list-style-type: none"> <li>How much would this medication cost per month if the patient were to pay for them out of pocket? (best</li> </ul>	Student showed research on medication costs	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	Student failed to answer the question OR The student provided accurate	___/15

<p>assessment based off of research)</p> <ul style="list-style-type: none"> <li>• What would the client's monthly out of pocket expense for all 10 medications?</li> </ul>		<p>medication, with the total cost being worth 5 points)</p>	<p>research for some of the medications, but failed to provided research for all medications (This question is worth one point for each medication, with the total cost being worth 5 points)</p>	
<p><b>Criteria</b></p>	<p><b>Excellent 20 points</b></p>	<p><b>Acceptable 16-19 points</b></p>	<p><b>Unacceptable 0-15 points</b></p>	<p><b>Points Earned</b></p>
<p>The student must appropriately format the paper and include all of the following:</p> <ul style="list-style-type: none"> <li>• Entire document must include appropriate citations, reference page, title page, page numbers, running head, all with appropriate formatting per APA (10 points – each missing or inaccurate portion per APA is worth one point)</li> </ul>	<p>The document included a title page, the rubric, 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>

<ul style="list-style-type: none"> <li>• The student provided a rubric attached for grading (3 points)</li> <li>• The student included the provided client scenario on page two of the document (2 points)</li> <li>• The paper included a minimum of five references which were cited within the document (each reference with one citation is worth 5 points)</li> </ul>				
Criteria	Excellent 20 points	Acceptable 16-19 points	Unacceptable 0-15 points	Points Earned
<p>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)</p> <p>Elaborate on this, explaining why you feel it should be addressed, why it is priority</p>	<p>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.</p>	<p>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.</p>	<p>The student failed to answer the question OR the student answered the question, however the students answer was dangerously inaccurate.</p>	<p>____/20</p>

and provide evidence behind your presentation.				
Criteria	Excellent 10 points	Acceptable 8-9 points	Unacceptable 0-7 points	Points Earned
<ul style="list-style-type: none"> <li>• Reflective statement of experience should include the following: -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</li> </ul>	The students provided reflection showed good insight into the project itself, polypharmacy, and the nurses role in client advocacy	The student provided a reflection, however the reflection lacked one of the following -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	Student failed to reflect on their project OR the student addressed only of the topics of reflection	___/10
<b>Total Points</b>				___/200