

ASHP CLINICAL SKILLS COMPETITION PHARMACIST'S PATIENT DATA BASE FORM

Demographic and Administrative Information			
Name DG	Patient ID 54321	Room No.	
Address Anytown, USA	MD Smith		
	Pharmacy		
Date of Birth 8-16-50	Race Caucasian	Gender Male	
Height 5'11" Weight 180 lbs	Religion Catholic		
Admission Date	Occupation Mechanical Engineer		

History of Present Illness DG is a 48 yr old white male who is a new patient to your clinic after moving here from out of state. Had received all previous medical care from his primary clinic for 10 yrs before moving out of the area. Here today requesting medication refills, has appt. with new primary physician in 2 weeks.
Past Medical History/Surgery Hypertension X 5 years Hyperlipidemia X 1 year (had 6 month trial off drug therapy before starting drug therapy)
Family and Social History married, has 2 teenage children. Tobacco: 1 pack per day cigarettes for 25 years, quit 5 years ago, restarted 3 months ago after moving, has tried to quit but can't get through cravings. Alcohol: 1-2 beers q 3-4 days
Lifestyle Exercise: no formal exercise, walks the dog occasionally. Diet: follows no particular diet, eats red meat 2-3 times/week, does not eat the skins of meat, cuts off excess fat, fried foods less than once/week. No sweets. + salt to food.
Acute and Chronic Medical Problems 1. 2. 3. 4. 5. 6. 7. 8.

Vital Signs/Laboratory Data—Initial/Followup			
Date	10/10/98		
Wt	180 lbs		
Temp	98.6		
BP	152/96		
Pulse	90		
Today:			
Na	142		
K	4.4		
Cl	100		
CO ₂	28		
BUN	21		
Cr	1.1		
Glu	110		
Glyc Hgb	5.2%		
Ca			
Phos			
T Prot			
Alb			
Hgb			
Hct			
WBC			
PLT			
AST	21 U/l		
ALT	2 U/l		
LDH	65 U/l		
Alk Phos	45 U/l		
Bili total:	0.2 mg/dl		
1 yr ago:	6 mo. ago:	Today:	
T. Chol	260	255	270
Trig	130	130	130
LDL	192	190	200
HDL	42	40	42
All LFTs WNL throughout			
Drug Serum Concentrations			
Date			
Digoxin			
Theo			
Gent/Tob			
Vanco			
Phenytoin			

**ASHP CLINICAL SKILLS COMPETITION
PHARMACIST'S PATIENT DATA BASE FORM**

Current Drug Therapy			
Drug Name/Dose/Strength/Route	Prescribed Schedule	Duration Start-Stop Dates	Compliance/Dosing Issue
1. Metoprolol 50mg PO	BID	X 3 years	
2. E.C. Aspirin 325 mg PO	Q AM	X 6 months	
3. Lipid 600 mg PO	BID	X 6 months	
4. MVI PO	Q AM	X 5 years	
5. HCTZ 25 mg PO	Q AM	D/c 3 yr ago	failure to control BP
6. NO other BP or lipid medications in the past			
7.			
8.			
9.			
10.			

Medications PTA	
1. N/A	6.
2.	7.
3.	8.
4.	9.
5.	10.

Time Line: Circle actual administration times, and record appropriate medications and meals below.

← 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 →
 am noon pm midnight am

Metoprolol
 Lipid
 Aspirin
 MVI

Metoprolol
 Lipid

Allergies/Intolerances	
☒ No known drug allergies	
Allergen	Reaction

Social Drug Use	
Alcohol	1-2 q3-4 days
Caffeine	3-4 cups/day
Tobacco	see social hx.

Cost of Meds/month
\$
Insurance: ☒ Yes ☐ No
Copay \$12/brand, \$6/gen
Medicaid
Annual Income
\$ 53,000/yr

Notes Takes meds regularly, no problems paying for them. Family History: Father had an acute myocardial infarction at age 50, still alive. Mother has history of hypothyroidism for which she is controlled with meds.

**ASHP CLINICAL SKILLS COMPETITION
PHARMACIST'S PATIENT DATA BASE FORM
CONTINUED**

Physical Exam: 51 year old, well-developed, slightly overweight male in no acute distress

Ht: 5'11" Wt: 180 lb BP 152/96 HR: 90 (took BP meds today)

HEENT: PERRLA, conjunctiva WNL. No corneal arcus or xanthelasma

Skin: WNL

Cardiac: + S1, S2, -S3, -S4; no murmurs

Lungs: + breath sounds with good air movement

ABD: + BS, -splenomegaly, - masses

Neuro: A & O X 3, CN I-XII intact, motor 5/5. DTR symmetrical and WNL

Upon questioning: patient reports no problems with CP, SOB, dizziness, fatigue, edema, paresthesias. He knows he needs to stop smoking but is not concerned about other lifestyle modifications. "I'm healthy, I feel fine."

Lab: From previous medical records transferred here:
1 year ago: Chol: 260 Trig: 130 LDL: 192 HDL: 42
Step I diet initiated, exercise encouraged

6 months ago: Chol: 255 Trig: 130 LDL: 190 HDL: 40
 BP 132/84 LFTs WNL

Step II diet initiated, exercise encouraged, Lopid 600 mg BID started

Today's Labs: Na 142 Cl 100 BUN 21 FBG 110
10/10/98 K 4.4 CO2 28 Cr 1.1 Hgb A1c 5.2%

LFTs all WNL

Total Chol 270 Trig: 130 LDL: 200 HDL: 42

ASHP CLINICAL SKILLS COMPETITION
Drug Therapy Assessment Worksheet
Answer Key

1. Correlation between Drug Therapy and Medical Problems

Hypertension: Metoprolol

Hypercholesterolemia: Lipid

CAD prevention: EC ASA

2. Appropriate drug selection:

A problem exists: The patient's cholesterol problem is not controlled on the current regimen of Lipid. Lipid should be reserved for problems of hypertriglyceridemia, not for reduction of LDL. The patient's goal LDL is <130 considering risk factors of: male > 45 years of age, hypertension, current smoker, family history of AMI in male relative <55 years of age. (Following NCEP-II recommendations). Therefore he has a 35% LDL reduction necessary. Suggest stopping Lipid and change to the following: an appropriate starting dose would be any of the statins as follows:

Lipitor 10 mg QD

Baycol 0.3 mg QHS (will probably not be strong enough to reach LDL goal)

Lescol 20 mg QHS (will need to increase to 80 mg qhs to achieve adequate reduction in LDL)

Mevacor 20 mg QHS (may need to increase to 80 mg qhs)

Pravachol 20 mg QHS (will need to increase to 40 mg qhs)

Zocor 10 mg QHS (may need to increase to 20 mg qhs)

The most cost-effective medication for the necessary LDL reduction is Lipitor 10 mg qhs.

Monitoring recommended:

Lipitor: Baseline LFTs, 12 weeks after initiation or dose change, then semiannually. Check lipid profile in 2-4 weeks.

Pravachol: Baseline LFTs, 12 weeks after initiation or dose change. Check lipid profile in 4-6 weeks.

Mevacor: Baseline LFTs, 6 & 12 weeks after initiation or dosage change, semiannually. Check lipid profile in 4-6 weeks.

Lescol: Baseline LFTs, 6 & 12 weeks after initiation or dosage change, semiannually. Check lipid profile in 4-6 weeks.

Baycol: Baseline LFTs, 6 & 12 weeks after initiation or dosage change, semiannually. Check lipid profile in 4-6 weeks.

Zocor: Baseline LFTS, 6 and 12 months after initiation or dose change. Check lipid profile in 4-6 weeks.

CPKs only monitored if patient is symptomatic of muscle aches, weakness.

Or as an alternative: start with Niaspan starter packet or cholestyramine powder, but need to monitor closely due to potential compliance problems with each. Published research does not suggest that either drug alone will reduce the LDL the necessary 35%, so both of these choices would be considered secondary to starting with a statin.

3. Drug Regimen:

A problem exists. The patient's blood pressure is not adequately controlled, despite compliance with current metoprolol regimen. Suggest increasing dose to 100 mg BID

4. Therapeutic Duplication:
No problem exists
5. Drug Allergy or intolerance:
No problem exists
6. Adverse Drug Events
No problem exists
7. Drug Interactions:
No problem exists
8. Social or recreational drug use
Patient should be encouraged to drink decaffeinated beverages due to potential for caffeine to increase BP
Patient should be encouraged to decrease sodium intake
Patient should be encouraged to stop smoking and may recommend nicotine patches or Zyban to help decrease cravings
9. Failure to receive drug therapy:
No problem exists
10. Financial impact:
No problem exists
11. Patient Knowledge of Drug Therapy
No problem exists

Shaded area
is evaluated
for Competition

ASHP CLINICAL SKILLS COMPETITION
PHARMACIST'S CARE PLAN
Answer Key

Patient DG

Location/Room _____

Pharmacist _____

Date _____

Health Care Needed	Pharmacotherapeutic Goal	Recommendations for Therapy	Monitoring Parameter(s)	Desired Endpoint(s)	Monitoring Frequency
1. Mgmt of HTN to prevent morbidity	Control of BP without ADRs	Increase Metoprolol to 100 mg BID	BP, HR, compliance	BP less than 140/90	BP in 2 wks at MD appt. Compliance at every visit
2. Mgmt of Cholesterol to prevent morbidity	Control of cholesterol w/ diet & meds	D/C Lopid Start statin at appropriate doses Diet, exercise	Lipids, LFTs, symptoms, compliance	LDL less than 130	LFTs depend on therapy chosen(see DTAW). Compliance & ADRs q visit
3. Stop smoking	Stop smoking	Assess need for Zyban or nicotine patches. Encourage smoking cessation.	NO Smoking ADRs from drug tx	NO SMOKING	Each visit
4. Improve diet & exercise		Decrease caffeine & salt intake. Exercise 30 min. 3-4 times/week. Follow Step II Diet.	Weight, frequency of each		Each visit
5. Risk for AMI/Stroke	No events	Discuss life-style mod. such as smoking/exercise/diet/alcohol reduction as well as BP & cholesterol to reduce risk of future AMI or stroke			Reinforce each visit

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