PHARMACOTHERAPEUTICS PRACTICALS

PHARMACEUTICAL CARE PLAN PWDT AND FARM NOTES

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Systematic Approach to Care Planning Pharmacist's Workup of Drug Therapy (PWDT)

- □ The provision of pharmaceutical care is often centered around process described as the PWDT.
- Although the forms or methods used for this process may vary, the components are essentially the same.

1. Data collection:

Collect, synthesize, and interpret relevant information such as:

- (a) Patient demographic data: age, sex, and race.
- (b) Pertinent medical information
 - Current and past medical history
 - Family history
 - Social history
 - Dietary history
 - Medication history (prescription, OTC, social drugs and allergies)
 - Physical findings (e.g., weight, height, blood pressure, edema)
 - Laboratory or other test results (e.g., serum drug levels, potassium level, serum creatinine as relevant to drug therapy)
- (c)Patient complaints, symptoms, signs.

- 2. Develop or identify the CORE Pharmacotherapy Plan
 - **C Condition** or patient need
 - O Outcomes desired for that condition
 - R Regimen selected (prescribed) to achieve that outcome
 - **E Evaluation** parameters to assess outcome achievement
- 3. Identify the **PRIME** pharmacotherapy problems or indications for pharmacist interventions. The goal is to identify actual or potential problems that could compromise the desired patient outcomes.
 - P Pharmaceutical based problems
 - **R Risks** to patient
 - I Interactions
 - M Mismatch between medication and condition or patient needs.
 - **E Efficacy** issues

Pharmacist's Workup of Drug Therapy (PWDT) PRIME- pharmacotherapy problem types

Pharmaceutical	Assess for incorrect Dose, Route, Duration, Form, Frequency, timing		
Risks to Patient	Assess for • known contraindication • patient medication allergy • drug-induced problem • improper utilization (i.e., risk is misused) • common/serious adverse effects • medication error considerations		
Interactions	Assess for drug-drug; drug-food; drug-disease/ condition		
Mismatch between medication and indications/ conditions/ complaints	Assess for • medication used without indication • indication, condition, or complaint untreated		
Efficacy issues	 Assess for suboptimal selection of pharmacotherapy for indication minimal or no evidence of therapeutic effectiveness suboptimal utilization of pharmacotherapy (taking or receiving medications incorrectly) patient preference consideration (e.g., undesirable prior experiences with medication, does not believe works) medication availability considerations compliance or administration considerations (e.g., inability to pay, unable to administer correctly or at all) 		

4. Formulate a FARM progress note to describe and document the interventions intended or provided by the pharmacist.

F – Findings:

The patient —specific information that gives a basis for, or leads to, the <u>recognition of a pharmacotherapy problem</u> or indication for pharmacist intervention.

A - Assessment:

The pharmacist's evaluation of the findings, including a statement of:

- Any <u>additional information</u> that is needed to best assess the problem in order to make recommendations.
- The severity, priority, or urgency of the problem.
- The short-term and long-term goals of the intervention proposed or provided

Examples of short-term goals include:

- eliminate symptoms,
- \square lower blood pressure (BP) to 140/90 within 6 weeks,
- manage acute asthma flare up without requiring hospitalization.

Examples of <u>long-term goals</u> include:

- prevent recurrence,
- \square maintain BP at less than 135/80,
- prevent progression of diabetic nerve disease.

R- Resolution (including prevention):

The intervention plan includes actual or proposed actions by pharmacist or recommendation to other health care professionals. The rationale for choosing a specific intervention should be stated.

Intervention options may include:

- Observation, reassessing, or following
 - If no action was taken or recommended, the FARM note serves as a record of the event
- Counseling or educating the patient or care giver
- Making recommendations to the prescriber
- Informing the prescriber
- Withholding medication or advising against use

M – Monitoring and follow-up:

The parameters and timing of follow-up monitoring to assess the <u>efficacy</u>, <u>safety</u>, and outcome of the intervention. This portion of the FARM note should include:

- The parameter to be followed (e.g., pain, depressed mood, serum potassium level)
- The intent of the monitoring (e.g., efficacy, toxicity, adverse event)
- How the parameter will be monitored (e.g, interview patient, serum drug level, physical examination)

- Frequency of monitoring (e.g, weekly, monthly)
- Duration of monitoring (e.g, until resolved, while on antibiotic, until resolved then monthly for one year)
- Anticipated or desired finding (e.g, no pain, euglycemia, healing of lesion)
- Decision point to alter therapy if outcome is not achieved (e.g., pain still present after 3 days, mild hypoglycemia more than 2 times a week)

Patient-Oriented Type of Care Plan

The pharmaceutical care plan (modern) is also designed based on the activities of care plan i.e.,

- Determining Desired Goals of Therapy
- 2. Making Interventions
- 3. Scheduling Follow-up and Evaluation

The following is an example of care plan of a patient who had a history of Hypertension (treated with Atenolol) and was diagnosed with Dyslipidemia.



Pharmacist's Care Plan

Name of the Patient: Mrs. Nails Name of the Pharmacist: NE

Medical Condition(s): Dydipidemia: hypertension.

Patient Assessment.

Clinical Findings:

Weight: Overweight (BMI) 29.3 kg/m²

6P. 148/90 mm Hg

Diagnostic and Laboratory Findings:

15k -C: 170mg/ct. (high; target: 5180 mg/dL).

HDL-C:30mg/dL (fow; taxet 260 mg/dc))

10: 290mg/dL (high ; target s200 mg/dL)

TG:220mg/til (high : target 1:150 mg/dc)

Rink Factors:

Family history of hypertension and high lipids, hypertension, lack of enercise: unhealthy diet, daily caffeine intake, overweight.





	Dogramme	Sinate of Therapy/Outcomer (Inches timetomer)	Vinerous Plan	settoon	Ministering (what will be ministered and frequency)	
	PAODER DO			a remove Autorities were	Efficacy	Toworty (ADMs)
10	inthested condition: High from (Dysépolemen)	LDL: <ebc (3<br="" mg="" sk.="">noths) HCL: <40 mg/sk. (3 mt/s) TC: <150 mg/sk. TO: <200 mg/sk.</ebc>	1. Then greate life style changes (TuC, healthy det, eventual); for 3 out to - see heat page 2. Follow-up in 3 without 100, more than 100 orginize we will start startes; 10-20 mg simulations; 10-20 mg simulation of 100, mean targets 5. If high 10 or low HOS; we regist add recotting a, Tärata, or fish us.	- year have a 5% rok a beart problem to 10 year -fou also have 2 additional risks: hypertension and low repsTherefore our LDL goal is <130 mg/st Drag therapy will be concubated if therapeutic ofe style changes 60 not sonstrol year light profile after 3 mths (bundelines)	LDs, MCN, 75, 75 Monitor progress every 8 weeks	Mot applicable during 5 miles of TLC If statisticatarinel; Report any unusual semptoms to your physician or physician or physician include during musical include dark unine, musical weakness or pain, feeling lafte-headed, family, or unesen heart beads, feeling short of breath, jaunatice (yellowing of your stan or eyes).
	Proppropriate therapy; righ blood produce	BP: <1303/90 nym HG	-We will withbow stensiol in 2 weeks -We will add ACD I (Literaped or captoprit)	Attention (jours blocker) adversely affects lipids. It is also not sondrolling your BF	Showitar blood pressure Should be controlled with treatment to desired level (c145/96)	of 60° gets too love step a doze, consult doctor Monitor potassium levels (every 3 months)





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Diatri.

Make sure that you adopt a healthy slet:

- · Increase fiber in diet ffruits, vegetables, grains, most days and its times a day.
- two portions of fish per week, including a portion of oily fish, lean meet to replace diet rich in fat, cholesterol, and carbohydrates
- plant starssls and sensis (2 g/day), and selsole filter (10-25 g/d).
- 3 Physical activity and exercise:

Brisk walking for at least 30 minutes daily; this is good for your overall health and specifically for your heart. Water sport, house work activities, much strengthening activities (2 times a week)

T Medication:

With your medication, avoid grape fruit and its juice-

Tell your pharmacist which medication you are on before buying over-the-counter or having, a prescription dispensed for you.

Report any unusual effects or symptoms to your physician or pharmacist: these symptoms include: dark urine, muscle weakness or pain, feeling light-headed, fainting , fast, pounding, or uneven heart beats , feeling short of breath, joundice (yellowing of your skin or eyes).

Next scheduled follow up appointment: 6 weeks

