Functional Health Patterns Model -A Case Study

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ABSTRACT

Gordon's Functional Health Patterns is a method develops By Marjorie Gordon in 1987 proposed functional health patterns as a guide for establishing a comprehensive nursing data base. By using these categories it's possible to create a systematic and standardized approach to data collection, and enable the nurse to determine the following aspects of health and human function: Health Perception Health Management Pattern, Nutritional Metabolic Pattern, Elimination Pattern, Activity Exercise Pattern, Sleep Rest Pattern, Cognitive-Perceptual Pattern, Self-Perception-Self-Concept Pattern, Role-Relationship Pattern, Sexuality-Reproductive, Coping-Stress Tolerance Pattern, Value-Belief Pattern.

Key Words: Functional Health Patterns, Gordon, Nursing

INTRODUCTION

Gordon's Functional Health Patterns is a method develops By Marjorie Gordon in 1987 proposed functional health patterns as a guide for establishing a comprehensive nursing data base. The model is a method used by nurses in the nursing process to provide a comprehensive nursing assessment of the patient. Taxonomy II of NANDA Nursing Diagnosis classification is based on Gordon's functional health patterns. Gorden's functional health pattern includes 11 categories which is a systematic and standardized approach to data collection..

Data Collection

General Information;

Name, age, adress, phone no and etc.

1. Health Perception – Health Management Pattern;

describes client's perceived pattern of health and well being and how health is managed.

2. Nutritional – Metabolic Pattern;

describes pattern of food and fluid consumption relative to metabolic need and pattern indicators of local nutrient supply.

3. Elimination Pattern;

describes pattern of excretory function (bowel, bladder, and features)

4. Activity – Exercise Pattern;

describes pattern of exercise, activity, leisure, and recreation.

5. Sleep – Rest Pattern;

describes patterns of sleep, rest, and relaxation.

6. Cognitive - Perceptual Pattern;

describes sensory, perceptual, and cognitive pattern.

7. Self-perception – Self-concept Pattern;

describes self-concept and perceptions of self (body comfory, image, feeling state).

8. Role – Relationship Pattern;

describes pattern of role engagements and relationships.

9. Sexuality – Reproductive Pattern;

describes client's pattern of satisfaction and dissatisfaction with sexuality pattern, describes reproductive patterns.

10. Coping – Stress Tolerance Pattern;

describes general coping patterns and effectiveness of the pattern in terms of stress tolerance. 11. Value – Belief Pattern;

describes pattern of values and beliefs, including spiritual and /or goals that guide choices or decisions.

A Case Study

General Information

Name Surname: A.Ö. Clinic: Internal Medicine

Gender: Female Room no: 28

Birth Date: 01.01.1983 **Admission date:** 11.11.2014

Birth Place: City Center

Education: High School

Adress: City Center

Phone no: ****

Doctor: E.A.

Protocol No:****

Allergy: Ampicilin
marital status: Married

Health Perception – Health Management Pattern

Patient history: In 2012, the patient complained of nausea, vomiting and body itching. Therefore, she had hepatosplenomegaly diagnose. She had chronic heart failure, anemia and she underwent splenectomy surgery in January 2014. After this surgery because of heart failure she begun digoxin. Then May 2014 in She admitted medical center because of chronic heart failure and respiratory distress. Antibiotics were started because the pneumatic infiltrate on chest radiograph. Then the patient's creatinine and liver enzymes were higher in the examinations. Patients with chronic liver failure was diagnosed and began treatment. He was discharged in June 2014. The patient admitted to the hospital due to the development of edema, she has been accepted to medical center for further evaluation and treatment.

Surgery: Splenectomy (2014) **Family History:** No feature

Diagnosis: Cronic Kidney Disease

Theatment: Vital signs control – limited to 800 cc-weight control

Famodin 40 mg p.o. 2×1 Secita 10 mg p.o.1×1

Nutritional – Metabolic Pattern

Length: 158 cmWeight: 46 kgNutritional Status: Independent-oralNausea: N/ADairly meals no: 3 main meal, 3 snacksWeight loss: N/A

Dairly liqued taken: limited to 800 cc

Special diet: salt free diet

Teeth Status: There is teeth decays

Oral mucosal integrity: No problem

Anorexia: Sometimes

Elimination Pattern

Bowel Elimination Status: Independent

Constipation: N/A

Diarrhea: Dairly 2-3 times juicy and light yellow stool **Distention:** When lying long time. Walks little around.

Fecal inkontinance: N/A
Colostomiv: N/A
Bowel Sounds: 7/minute

Stoma: N/A

Bladder Elimination Status: Independent

Bladder inkontinence: N/A
Cystostomy: N/A
Urine colour: Dark yellow (700 cc output)

Dysuria: N/A
Ureterestomy: N/A
Urine clarty: Clear

Bladder catheterization: N/A

Activity – Exercise Pattern

Sputum: Sometimes in the morning

Cough: Sometimes in the morning

Cyanosis: N/A

Nahalization

Triflow: N/A
Breath and cough exercise: N/A
Tracheostomy: N/A

Nebulization: N/A
Oxygen therapy: N/A
Endotracheal tube: N/A

Any physical barriers that restrict the movement: N/A

Auxiliary agents that used by the patient: N/A Changing the position: Patient do by herself. Standing up: She needs help sometimes.

Walking: Patient do by herself.

Changing the clothes: She needs help sometimes.

Sleep – Rest Pattern

Avarage sleeping hours: 5 hours

Daytime sleeping: Often in the lunch time.

Habits that help you fall asleep (reading book, drinking milk and etc.): Listening music and speakig with mother.

Waking up tired: Usually because of irregular sleeping at night she waking up tired and feeling tired all day.

Factors that affecting sleeping in hospital room: Treatments in the night, taking vital sign , and the noises.

Cognitive – Perceptual Pattern

Vision problems: N/A

Hearing Problems: N/A

Hearing Aid: N/A

Pain: N/A

Pain Nature
Pain Frequency
Pain Duration
Pain Violance

| Princking | Thorobbing | Flammable | Blunt | Blunt | Continuous | Intermittent | Continuous |

Factors that increase the pain: N/A Factors that decrease the pain: N/A

Role – Relationship Pattern

Job: N/A

Family members: Father, Mother and Sister

Role in family: Girl

Any barriers to communication: She is boring at hospital and she is worring about her

disease.

Accept the treatment and participate care: No problem

Sexuality – Reproductive Pattern

For female patients;

last menstrual period: Last month
Frequecy of changing ped: Two times

Dairly ped: N/A

Vital Signs:

Body Tempeture: 36.7 °C (Tympanic) **Pulse:** 86 /mn (radial- rhythmic) **Apical pulse:** 96 /mn (rhythmic)

Respiration: 20 /mn

Blood Pressure (right arm): 120/80 mmHg (left arm): 110/80 mmHg

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Functional Health Patterns	Supporting Signs and Symptoms	Nursing Diagnosis	Aim	Planning	Intervations	Evaluation
Health Perception – Health Management Pattern	-Having peripheral venous catheter -Staying in the hospital for a long time -Having several cronic diseases -Limiting to 800 cc liquid -Eating half of the diet	Infection Risk	Increase the enfection risk minumum level	-Observe site of the peripheral venous catheter about infection signsFollow the number of leukocytesWash hands before and after touching patientsBe careful about aseptic techniqueGive care of peripheral venous catheter dairlyWear gloves if neededBe aware of about diet and liquid intaken.	-Site of the peripheral venous catheter was observed about infection signs. -The number of leukocytes was followed for three daysHands were washedPeripheral venous catheter was given care dairlyGloves were weared when neededPatient was encouraged about her diet and liquid intaken.	-There is no infection signsThere is no problem about the number of leukocytesShe finished 34 of meal and drinked 800 cc liquid.
Nutritional – Metabolic Pattern	-Lenght: 1.58 Weight: 46 -Feeling anorexia -Having salt free diet -Eating half of the diet	Eating less from body needs	Provide adequate and balanced nutrition and to minimize the risk of losing weight.	-Follow the weight dairly. -Observe signs of malnutrition such as hair loss, dry and pale skin, weakening of the muscles. -Follow the laboratory findings. -Be aware of about diet and liquid intaken. -Try to serve meals with dietician which patients like. -Keep the clean patients		-There is no weight lossShe finished 3/4 of meal and drinked 800 cc liquidThere is no signs of malnutritionThere is no problem about laboratory findings.

				roomMake treatment and care intervations after meal time.		
Nutritional - Metabolic Pattern	- Limiting to 800 cc liquid - Having dark yellow urine - Having Diarrhea	Liquid - volume imbalance	Increase Liquid- volume imbalance minumum level	-Follow vitals signs 4 hours intervalsFollow the weight dairlyMake intake-output listFollow the laboratory findings -Use machine for infusioning intravenous liquidsCheck the urine colour and amount.	-Vital signs was follwedThe weight was followed dairlyThe laboratory findings was followed for three days Urine colour and amount was checked dairly.	-Vital signs are in normal valuesThere is no problem about laboratory findings -Intake:700cc Output:800cc
Elimination Pattern	-Making 2-3 times juicy and light yellow stool dairly -Limiting to 800 cc liquid -Bowel sounds: 7/mn	Diarrhea	Make normal bowel elimination	-Record the elimination times and frequenceMake intaken-output listFollow the laboratory findingsListen bowel soundsGive lint-free diet.	-Intake-output list was madeThe laboratory findings was followed for three days800 cc liquid was drinkedLint-free diet was givenBowel sounds were listened.	-Intaken:700cc Output:800cc -There is no problem about laboratory findings -Bowel sounds: 7/mn

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Feeling tired all day Garder Geeling tired Garder Garder Geeling tired Garder Garder Geeling tired Garder Garder								
Cognitive Perceptual Pattern- Lack of information about diagnoses and treatment -Lack of informationLack of information information information- Determine the patients level of information about diagnosis and treatmentProvide information to the information to the information to the information to the information about diagnosis and treatmentProvide information to the information provided to the have.	Exercise Pattern Sleep – Rest	day -Waking up tired and feeling tired all dayChanging clothes and making bad with help. -Sleeping less due to treatment and care practices -Avarage sleeping	individual care due to feeling tired.	lack of individual care Ensure adequate sleep and rest	with detailsDefine priority activities and make an activity plan -Plan activities after meals because of using energy -Place items accessible easily -Provide help for activities which need extra energy suc as clothing, bathing -Set treatment and care intervations before patient sleepingDefine habits that help patient fall asleep (reading book, drinking milk and etc.)Change the drugs which have side effects on sleepness after discuss the physiciansMinimize lights and noise in the room.	due to lack of enough sleep -Priority activities defined such as nutrition, elimination Bathing was put after lunch in the activity planActivities which need extra energy were make together. -Care intervations were made before patient sleepingMusic was helped the patient fall asleepLight and noise was made minimized in the roomDaylight sleep was minimized by watching	tiredHer mother helped her for making dairly activities. -Patient' avarage sleeping hours dairly:	
	Perceptual	about diagnoses and treatment -Lack of information			-Determine the patients level of information about diagnosis and treatmentProvide information to the	that patients receive was questionedInformation provided to the	diagnosis and treatment she	

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	hospital.							
Role-	-Lack of information	Anxiety	Increase t	he	-Listen the patient about her	-Patient told about her	-She was	3
Relationship	about hospital laying		anxiety		feelings and thoughts.	feelings and thoughts.	worring about	t
Pattern	time				-Give information before	-Information was gave to the	cancer	
	-Not having				every care and treatment	patient before every	diagnose.	
	diagnose yet				intervations	information		
	-Feeling anxiety				-Teach different exercises	-Different exercises were		
	-Worrying about				for preventing from	taught to the patient such as		
	cancer diagnose				anxiety.	breath exercise and etc.		
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