Module 5 : Total Parenteral Nutrition and IV Admixture (3.4 ECTS/2CSU)

Total Parenteral Nutrition and IV Admixture		
Code/ Status	: N	1FK 630/Compulsory
Module level	: N	Master Master
Semester	: 1	
Module Coordinators/	: C	hairun Wiedyaningsih
Lecturers	Fi	ita Rahmawati
	R	ina Mutiara
Language	: Ir	ndonesian
The format/class hours	: C	ase-based lecture, Classroom Lecture, and Practice based Learning; 2
per week during the	h	ours/weekly and 14 weeks during the semester
semester		
workload	: 1	00 minutes of in-class lectures, 120 minutes of structured activities,
	1	20 minutes of weekly self-study
Credit points	: 3	.4 ECTS/2 CSU
Requirements	: N	0
Learning goals/ Course	: S1	tudents are able to:
Outcomes		1. understand the basics or concepts of parenteral nutrition and
		design a TPN formula that is suitable for the patient's daily
		energy needs
		2. identify incompatibilities and instability in the preparation of
		parenteral preparations
		3. understand aseptic dispensing basics
		4. demonstrate IV parenteral preparation
Content	: T	his course deals with the basics of aseptic dispensing such as the
	C	oncept of cleanroom, aseptic technique in mixing injection
	р	reparations, IV admixture and Handling cytostatic agent; factors that
	a	ffect compatibility and incompatibility in dosage IV; Total Parenteral
	N	lutrition (TPN) which covers the basics of parenteral nutrition,
	Ca	alculation of making TPN preparations, advantages and disadvantages,
	C	omplications and monitoring parameters, correct mixing method.
Study/exam	: A	-E, 20% practice exam, 30% Midterm and 50% final exam
achievements		
Forms of media	: F	ace to face instruction, Slides, Board, internet
Literature	: 1)	Lawrence A, Trissel, 2009, Hand book on injectable drug, 15 th
		edition, American Society of healyjsystem Pharmacist, Bethesda,
		Maryland
	2)	Allen Stephen J, Catalango-Angus Mary L, Cohen Michael R, Delfino
		Daria, Guynn Robert S, Scheckelhoff Douglas J, Shepherd Michele F
		and Zajac Kevin W (Ed), 1993, Manual for Pharmacy Technician,
		American Society of Health System Pharmacies. Inc., Wincosin
		Avenue, Bethesda
	3)	PIC/S Guide to Good Practices for The Preparation of Medicinal
	•	Products in Healthcare Establishments, 2008,
		http://www.picscheme.org
	4)	
	•	British Pharmaceutical Nutrition Group, 2008

5) Banker, GS and Rhodes, C. T. (Ed), 1996, Modern Pharmaceutics, 3 rd, Marcel Dekker, Inc New York