

**Medical Physics 559: Patient Safety and Error Reduction in Healthcare - 2014**

Meeting in G5/113 Clinical Science Center

Mondays 5:05 - 7:00 p.m.

Coordinator: Bruce Thomadsen (3-4183)

Lecture Number	Month	Date	Instructor	Topic	Chapter Readings	
					Carayon	Bogner
1	January	27	Thomadsen	<a href="#">Approaches to Patient Safety</a>	9,10	2
2			"	<a href="#">Quality, Safety and Culture</a>		
3	February	3	Vieth	<a href="#">Quality Engineering Concepts</a>	24	
4			Thomadsen	<a href="#">Error Analysis and Human Performance</a>		3,4
			Rath	<a href="http://www.patientsafety.gov/SafetyTopics.html#HFMEA">FMEA Concepts and Methods (see also http://www.patientsafety.gov/SafetyTopics.html#HFMEA)</a>	36*	
5		10	"	<a href="#">FMEA/Quick response</a>		
6			Carayon	<a href="#">Work System Design Influences</a>	5	
7		17	Thomadsen	<a href="#">Incident Reporting</a>	26	
8			Thomadsen	<a href="#">Root Cause Analysis (http://www.patientsafety.gov/rca.html)</a>		
9		24	"	<a href="#">Taxonomic Analysis</a>	23, 40*	
10			Sauer/Wanek	<a href="#">Quality Improvement in Hospitals</a>	42*	
11	March	3	Thomadsen	<a href="#">Quality Management Concepts and Tools</a>		
12			Thomadsen	<a href="#">Developing and Maintaining Quality</a>	27	
13		10	"	<a href="#">Quality and Safety in Radiotherapy</a>		
14				<b>Spring Break</b>		
15		17		<b>Exam</b>		
16		24	Smith	<a href="#">Clinical Models of Quality...Error Reduction</a>	8	
17			Wiegmann	<a href="#">Human Factor in Surgery</a>	45	
18		31	"	"		
19	April	7	Rough/Lund	<a href="#">Reduction in Medication Errors</a>	46	10
20			"	"		
21		14	Beasley	<a href="#">IT and Patient Safety: a clinical perspective</a>	21, 38, 44	
22			"	"		
23		21	Thomadsen	<a href="#">Error Reduction in Anesthesia</a>	48	11
24			"	"		
25		28	Pothof	<a href="#">Patient Safety and Quality in the Emergency Dept.</a>		
26			"	"		
27	May	5	Buroker	<a href="#">Manufacturer's Approach to Patient Safety</a>	29	9
28			Thomadsen	<a href="#">National Activities and Wrap-up</a>	14	14
	<b>May</b>	<b>11-17</b>	<b>On line</b>	<b>Final Exam</b>		

Texts: Carayon, P. ed. *Human Factors and Ergonomics in Health Care and Patient Safety*, 2nd CRC Press/Taylor and Francis (2012) (except as indicated \*)

\*Carayon, P. ed. *Handbook of Human Factors and Ergonomics in Health Care and Patient Safety* Lawrence Erlbaum Associates (2007)

Bogner, MS, ed *Human Error in Medicine*, Lawrence Erlbaum Associates (1994)