Biostatistics Questions
&
Database Basics

Evaluation Forms

Learning Objectives

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(Getting Help for your)

Biostatistics Questions

Understanding Statistics

http://xkcd.com/552/

Why Biostatistics Consulting?

- Sharedexperience
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Why Biostatistics Consulting?

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Why Biostatistics Consulting?

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Questions for the Investigator

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Questions for the Investigator

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It Never Hurts to Ask

Paired Data	Med Y, No difficulties	Med Y, Sleep difficulties	Total
Med X, No difficulties			
Med X, Sleep difficulties			
Total			184

Questions for the Investigator

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The Answers

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Biostatistics Consulting Service

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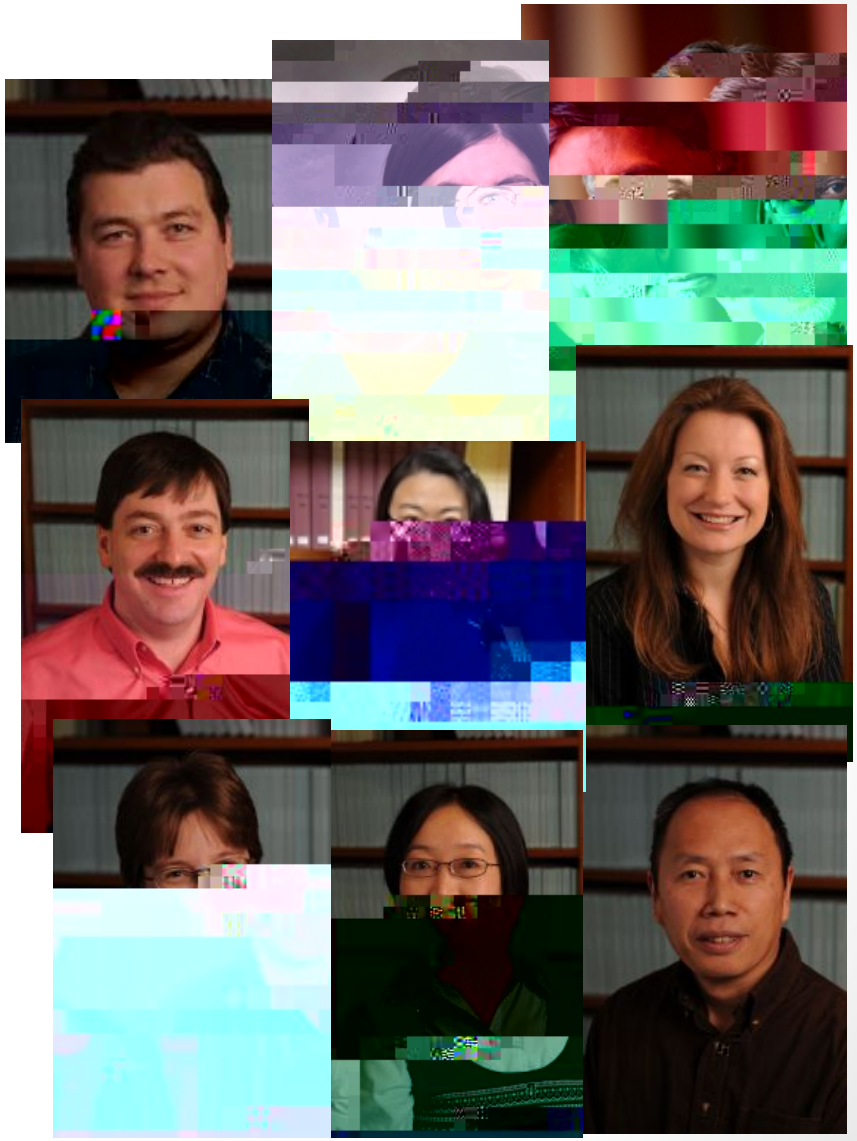

Consulting Services Faculty

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Consulting Services Staff

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What should you bring to a meeting?

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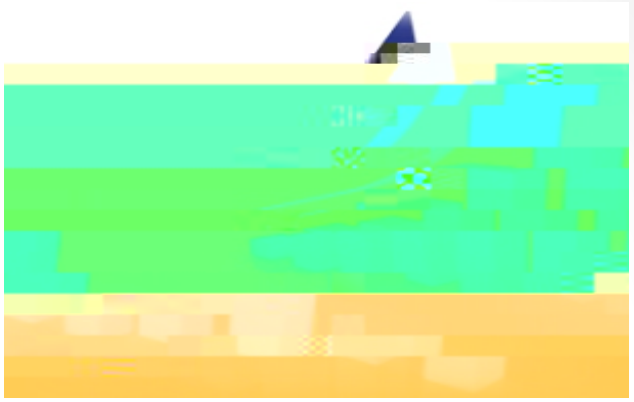
Services



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Biostatistics Consulting Service

- *Clinical and Translational Science Institute*
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- DATUM

Biostatistics Consulting Service

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Free Drop-in Consulting

- Medical College of Wisconsin

- MCW Cancer Center

Contact

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www.mcw.edu/biostatsconsult.htm

Database Basics

What is a Database?

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Is a spreadsheet a database?

Spreadsheet vs. Database

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Spreadsheet vs. Database

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Spreadsheet vs. Database

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What goes into a database?

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Statistical Qualities of Data

Computational Qualities of Data

The List of Bad Things

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- Cdor coding
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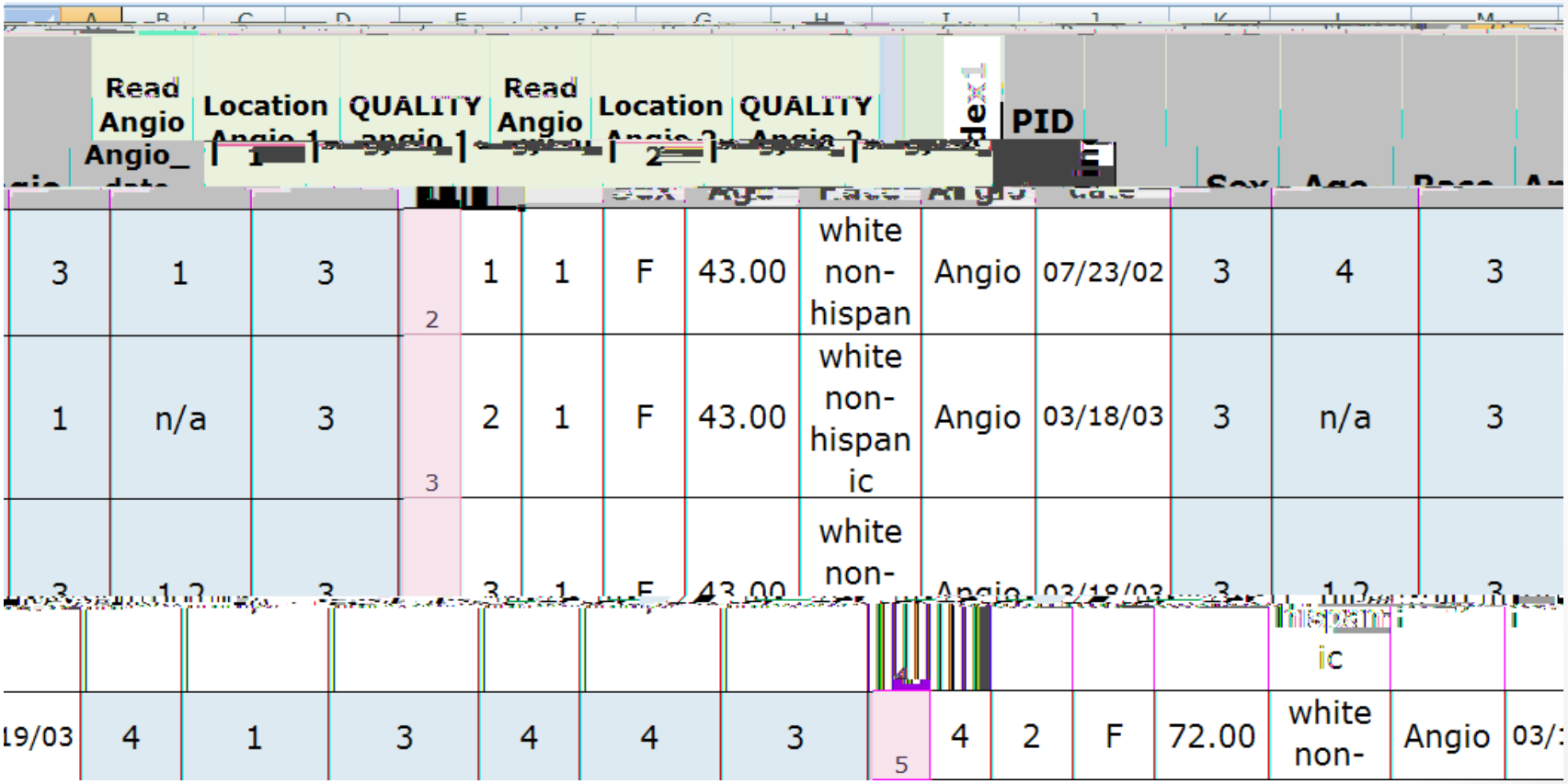
Better now?



Read Angio	Location Angio 1	QUALITY angio 1	Read Angio	Location Angio 2	QUALITY Angio 2	Index	PID							
Angio_	1			2				Sex	Age	Race	Angio	Date	Sex	Age	Race
3	1	3		1	1	F	43.00	white non-hispanic	Angio	07/23/02	3	4	3		
1	n/a	3		2	1	F	43.00	white non-hispanic	Angio	03/18/03	3	n/a	3		
3	1,2	3		3	1	F	43.00	white non-hispanic	Angio	03/18/03	3	1,2	3		
19/03	4	1	3	4	4	3		4	2	F	72.00	white non-	Angio	03/1	

Variables

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Factors & Variables

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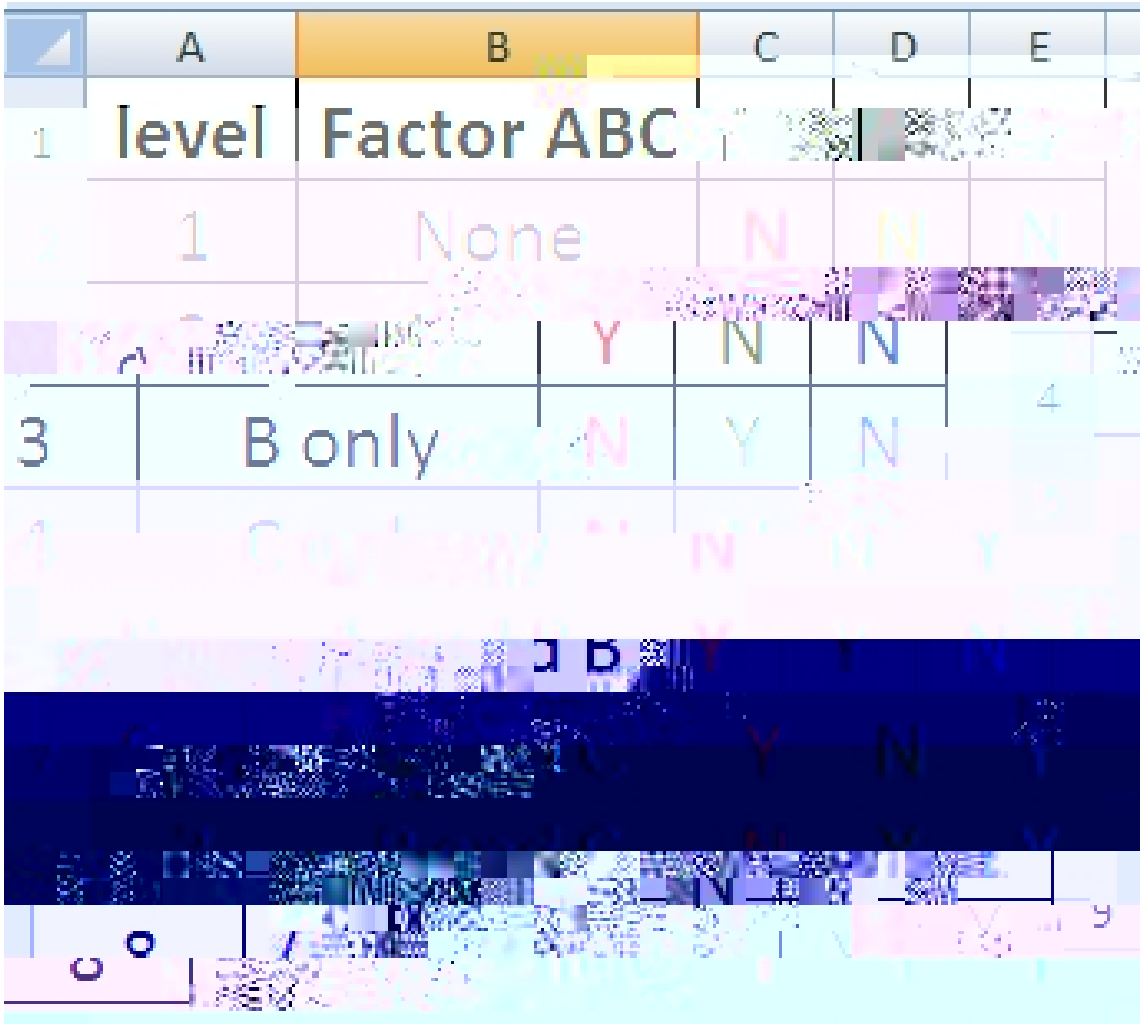
Factors & Variables



	A	B	C	D	E
1	level	Factor ABC			
2	1	None	N	N	N
3			Y	N	N
4	3	B only	N	Y	N

Sample Units & Observations

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Wide Layout

Study ID	Sex	Age	Group	SBP1	DBP1	SBP2	DBP2	SBP3	DBP3

Long Layout

Study ID	Visit	Sex	Age	Group	SBP	DBP

Multiple Tables

Study ID	Visit	SBP	DBP

Database Programs

- Microsoft Access
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Database Programs

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Concluding Remarks

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