NTHU STAT 5230, 2025



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ITHU STAT	5230, 2025	5					Lecture Notes
• Fr	om Agre	sti (201 al Trial Relating	$3, \frac{3^{rd}}{2^{rd}} ed$	.) esponse for Eight	Centers, with Ex	xpected	р. 2-9
3-way	Value and Varian	ce (of Success Co	ount for Drug) U	nder Conditiona	I Independence	0	
contingency	N <sub>T.C.</sub>	<u>ر N<sub>T</sub>.c.2 ر</u>	Response	- Suppo	se <u>fixed</u> (	RTC) -	
	Center Treat	tment Succ	ess Failure	Odds Ratio	$\mu_{11k}$	$\operatorname{var}(n_{11k})$	
	l Dru	g I	+ 25 =	<b>36</b> 1.19	10.36	3.79	<u>I</u> . <u>C</u> .1
	2 Dru	ntrol 10 ng 16	) + 27 = 5 + 4 =	<b>37</b> <b>20</b> 1.82	14.62	2.47	binomial (RIC, PT.C)
	3 Dru	ntrol 22 lig 14	+ 10 = 5	<b>32</b> 4.80	10.50	2.41 <b>fixe</b>	d known value
a 2×2	4 Dru	ntrol 7 Ig 2	2 12 14	2.29	iffer- 1.45	0.70	parameter
table	5 Dru	ntrol l		~	3.52	1.20	how ( <u>T,C</u> ), including
	6 Dr	itrol (	10	$\infty$	0.52	0.25 th	eir <u>main effects</u> & interactions,
	7 Dn	ig 1	• 4 •	• 2.0	0.71	0.42	fluence <u>Pt,cs</u>
	8 Dru	ntrol I lg 4		<b>6</b> 0.33	4.62	0.62	
		<u> </u>		1 suffi	rient CO	unt - A	
	resp.		expl. 42	- stati	stics r	esp.	expl.
	(Success)	(Treatmen	t) (Center		> (s	uccess)	(Treatment) (Center)
Is	t Yes 2	Drug	2710		Ye	s. No	2 Comil
20	nd Yes le	rels Control	levels 1	nal		(ג <u>ו ו</u> א יו	Drug levels 1 nal
					( /*2	<u>1</u> 1, <mark>N212</mark> )	
•	• No						
•	•	Contro				$\frac{81}{N_{2}82}$	Drug 8
		Conclo					