WS #14 - Log-Rank test

Math 150, Jo Hardin

Wednesday, March 26, 2025

Your Name:											
Names of people	le you	worked with:									
What do you le	ove ab	out your majo	or?								
Task: Consider text.	er the	chip melting	data.	Fill	out	the rest	of t	he rov	vs of Ta	ble 9.5	from you
Group 1 (mill	k choc	olate) 35^+	30	60^{+}	45	25	55	30^{+}			
Group 2 (whi	te cho	colate) 45^+	35	48	64	+ 72	42	55^{+}	43 62	2	
time interval	n_{i}	number censo	red	d_i	d_{1i}	d_i/n_i	n_{1i}	n_{2i}	$E_{1,i}$	V_{1j}	
[25, 30)	16	0		1	1	1/16	7	9	7/16	0.246	
[30, 35)	15	1		1	1	1/15 $1/13$	6	9	6/15	0.240	
[35, 42)	13	1		1	0	1/13	4	9	4/13	0.213	
[42, 43)	11	0		1	0	$\frac{1}{11}$ $\frac{1}{10}$	3	8	2/11	0.198	
[43, 45)	10	0		1	0	1/10	3	7	3/10	0.210	
[45, 48)	9	1				1/9		6	3/9	0.222	
[48, 55)											
[55, 62)											
[62, 72)									0	0	
[72, 72)									0	0	

Solution:

time interval	n_{i}	number censored	d_i	d_{1j}	d_i/n_i	n_{1j}	n_{2j}	E_{1j}	V_{1j}
[25, 30)	16	0	$\tilde{1}$	1	1/16	7°	9	7/16	0.246
[30, 35)	15	1	1	1	1/15	6	9	6/15	0.240
[35, 42)	13	1	1	0	1/13	4	9	4/13	0.213
[42, 43)	11	0	1	0	1/11	3	8	2/11	0.198
[43, 45)	10	0	1	0	1/10	3	7	3/10	0.210
[45, 48)	9	1	1	1	1/9	3	6	3/9	0.222
[48, 55)	7	0	1	0	1/7	2	5	2/7	0.204
[55, 62)	6	2	1	1	1/6	2	4	2/6	0.222
[62, 72)	3	1	1	0	1/3	0	3	0	0
[72, 72)	1	0	1	0	1/1	0	1	0	0