## WS #14 - Log-Rank test

## Math 150, Jo Hardin

## Wednesday, March 26, 2025

Your Name: _												
Names of peop	le you w	orked w	ith: _									
What do you l	love abo	ut your	majo	or?								
Task: Considerate.	er the c	hip mel	$\operatorname{ting}$	data.	Fill	out	the res	st of t	he row	vs of T	Table 9.5	from you
Group 1 (mil	k choco	late)	$35^{+}$	30	$60^{+}$	45	25	55	$30^{+}$			
Group 2 (whi		,								43 (	62	
time interval	$n_i$ 1	number	censo	$\operatorname{red}$	$d_i$	$d_{1i}$	$d_i/n_i$	$n_{1i}$	$n_{2i}$	$E_{1i}$	$V_{1i}$	
[25, 30)	$1\overset{\circ}{6}$		)		$\overset{\jmath}{1}$	1	1/16 $1/15$ $1/13$	7	9	7/16	0.246	
[30, 35)	15	1	l		1	1	1/15	6	9	6/15	0.240	
[35, 42)	13	1	L		1	0	1/13	4	9	4/13	0.213	
[42, 43)	11	(	)		1	0	$\frac{1}{11}$ $\frac{1}{10}$	3	8	3/11	0.198	
[43, 45)	10	(	)		1	0	1/10	3	7	3/10	0.210	
[45, 48)	9	1	l		1	1	1/9	3	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	$7^{\circ}$	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	3/11	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