Lesson 11
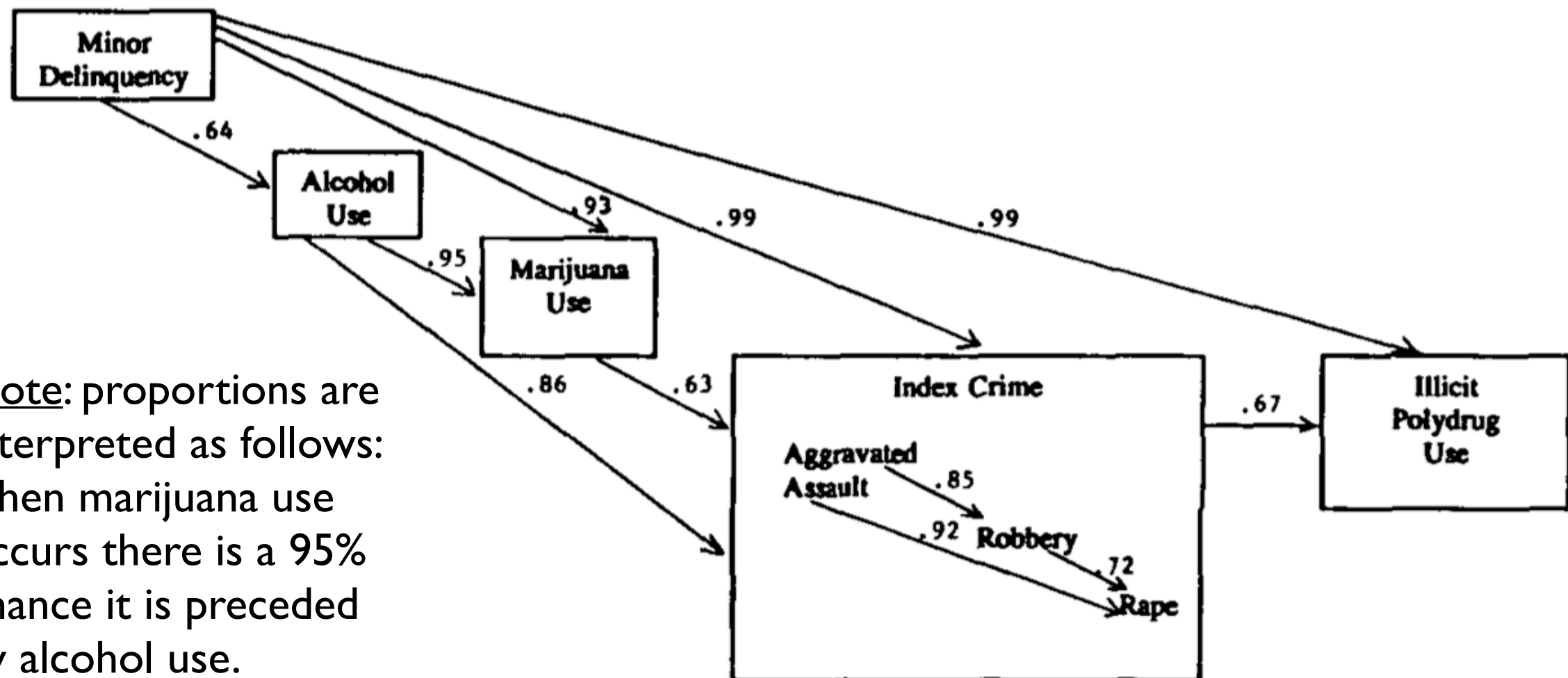
Tuesday March 5, 2024

NYS Offense Progression

Figure 5. Developmental Progression by Type of Offense, NYS, Total Sample

Note: proportions are interpreted as follows: when marijuana use occurs there is a 95% chance it is preceded by alcohol use.

Diversity of Offending

Table 1. NYS Serious Violent Offenders' Offense Patterns, 1980[a]

Offense	Prevalence	Offending Rate/100	% Total
Felony Assault	80.6	501	77
Felony Theft	65.7	770	79
Robbery	25.4	206	89
Index	100.0	1140	83
Minor Assault	73.1	1513	57
Minor Theft	68.7	1069	44
Illegal Services	56.7	6640	66
Public Disorder	80.6	5942	26
Vandalism	71.2	571	40
Total Delinquency	100.0	16142	50
Alcohol Use	94.0	12075	12
Marijuana Use	85.1	14001	20
Polydrug Use	55.2	4352	36
Problem Drug Use	54.5	—	—
Mental Health Problems	21.2	—	—

[a] Represents 4.5% of total NYS sample for 1980 (N=67).

Source: D.S. Elliott (1994). Serious violent offenders: onset, developmental course, and termination - the American Society of Criminology 1993 Presidential Address. Criminology, 32:1-21.

NYS Arrest Data

Wave 5 Response	Wave 6 Response			
	No Arrest	Arrest	Missing Data	Total
No Arrest	1,142	132	77	1,351
Arrest	48	82	13	143
Missing Data	71	21	139	231
Total	1,261	235	229	1,725

NYS Arrest Data

	Males (N = 918)						
	Age at Wave 6						
Quantity	18	19	20	21	22	23	24
Number of Cases	127	128	135	148	138	131	111
Number Not Arrested	91	86	73	82	70	76	65
Number Arrested	27	29	43	35	43	40	21
Number Missing	9	13	19	31	25	15	25
Percent Missing	7.1	10.2	14.1	20.9	18.1	11.5	22.5
Percent Arrested	22.9	25.2	37.1	29.9	38.1	34.5	24.4

|	Females (N = 807)						
	Age at Wave 6						
Quantity	18	19	20	21	22	23	24
Number of Cases	135	129	134	110	115	108	86
Number Not Arrested	102	108	114	92	95	88	71
Number Arrested	10	9	11	9	8	6	5
Number Missing	13	12	9	9	12	14	10
Percent Missing	10.4	9.3	6.7	8.2	10.4	13.0	11.6
Percent Arrested	8.9	7.7	8.8	8.9	7.8	6.4	6.6

Note: Percent arrested is based on nonmissing cases only.
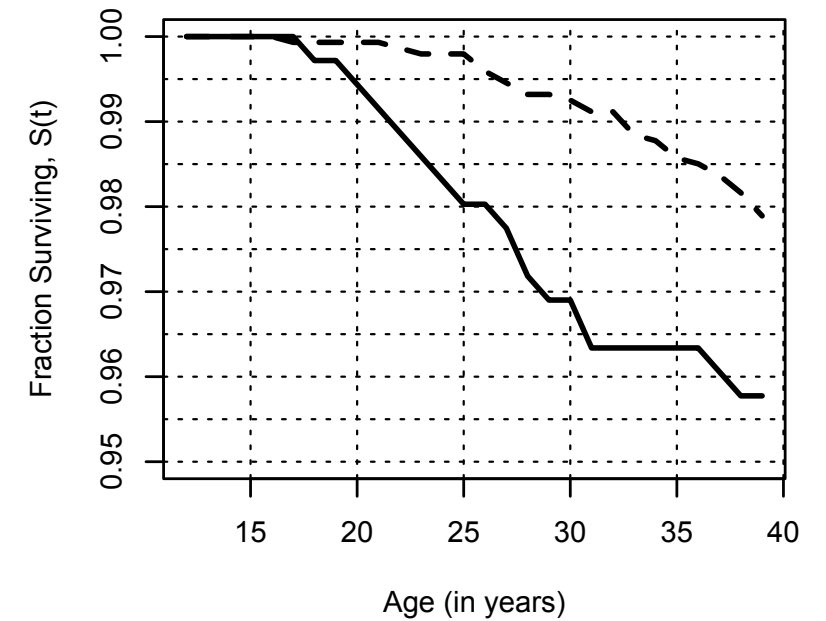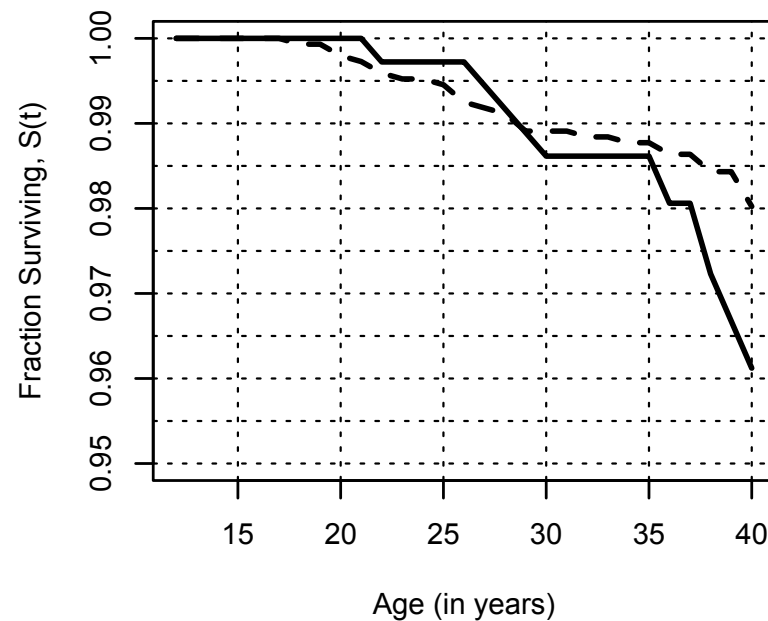
Childhood Bullying and Early Death

Age 12 Cohort
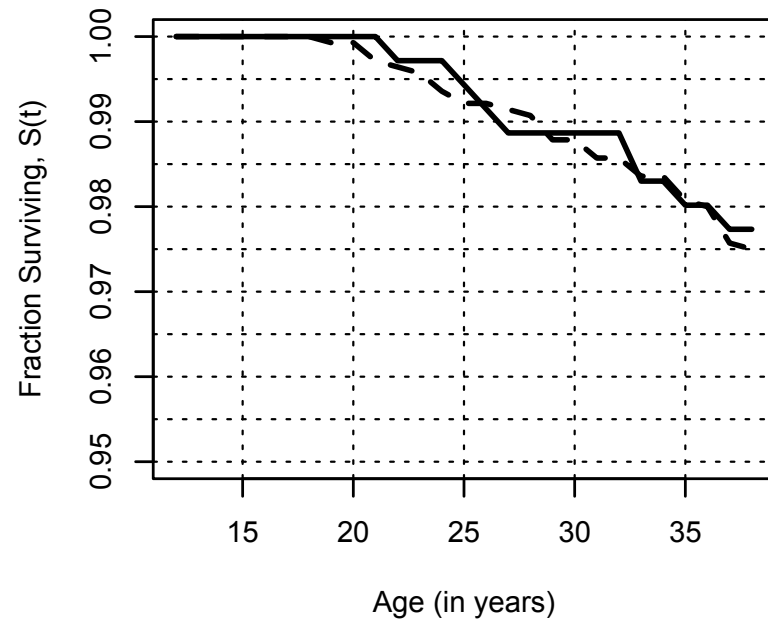
Age 13 Cohort
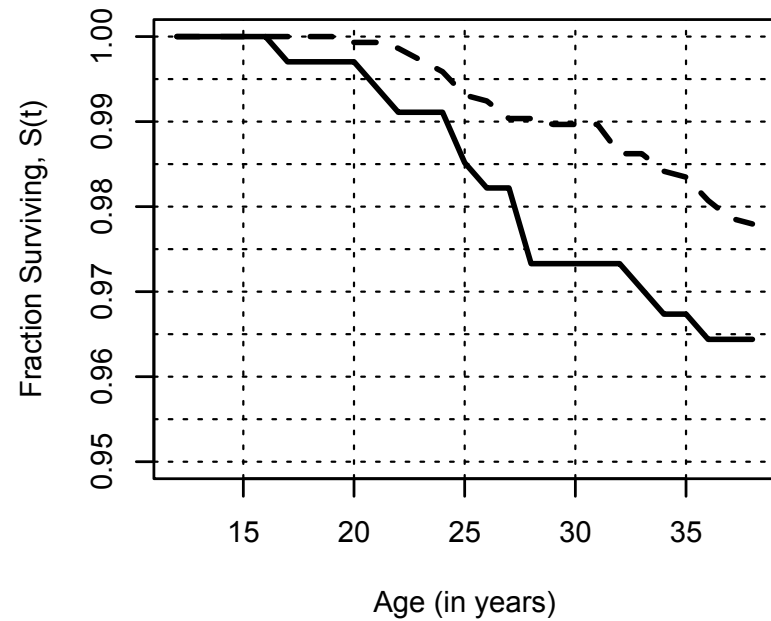
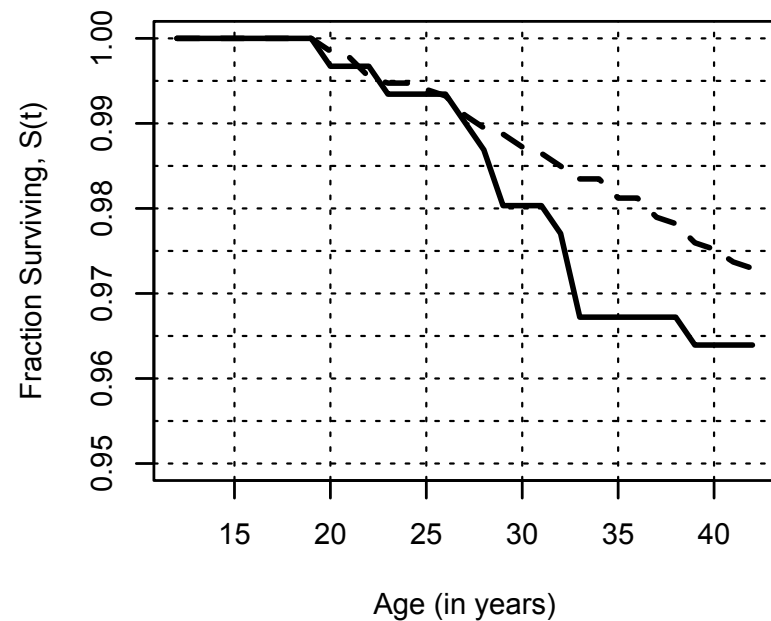**Age 14 Cohort**

Age 15 Cohort

Age 16 Cohort

Childhood Bullying in the NLSY97

Q: Before you turned 12 were you ever the victim of repeated bullying?

R: Yes = 1713, No = 7120, Missing = 151

Example Calculation

$$\theta_D = p(\text{Death by late 30's or early 40's}) = \frac{\#\text{ of People who died}}{\text{total }\#\text{ of people}}$$
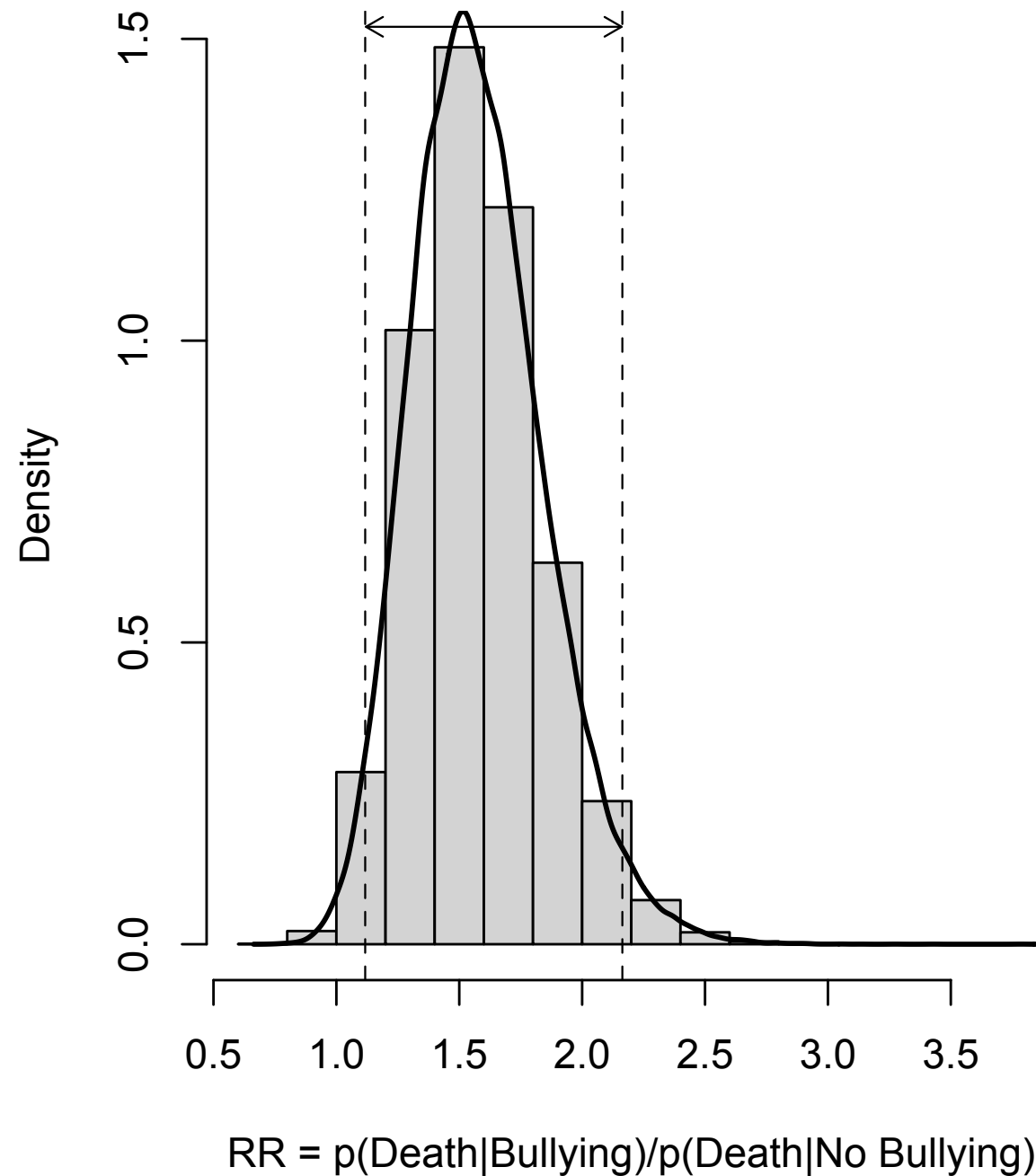
*About 2.6%

$$\theta_D | \text{bullied before age } 12 \approx 0.036 \text{ or } 3.6\%$$

$$\theta_D | \text{not bullied before age } 12 \approx 0.024 \text{ or } 2.4\%$$
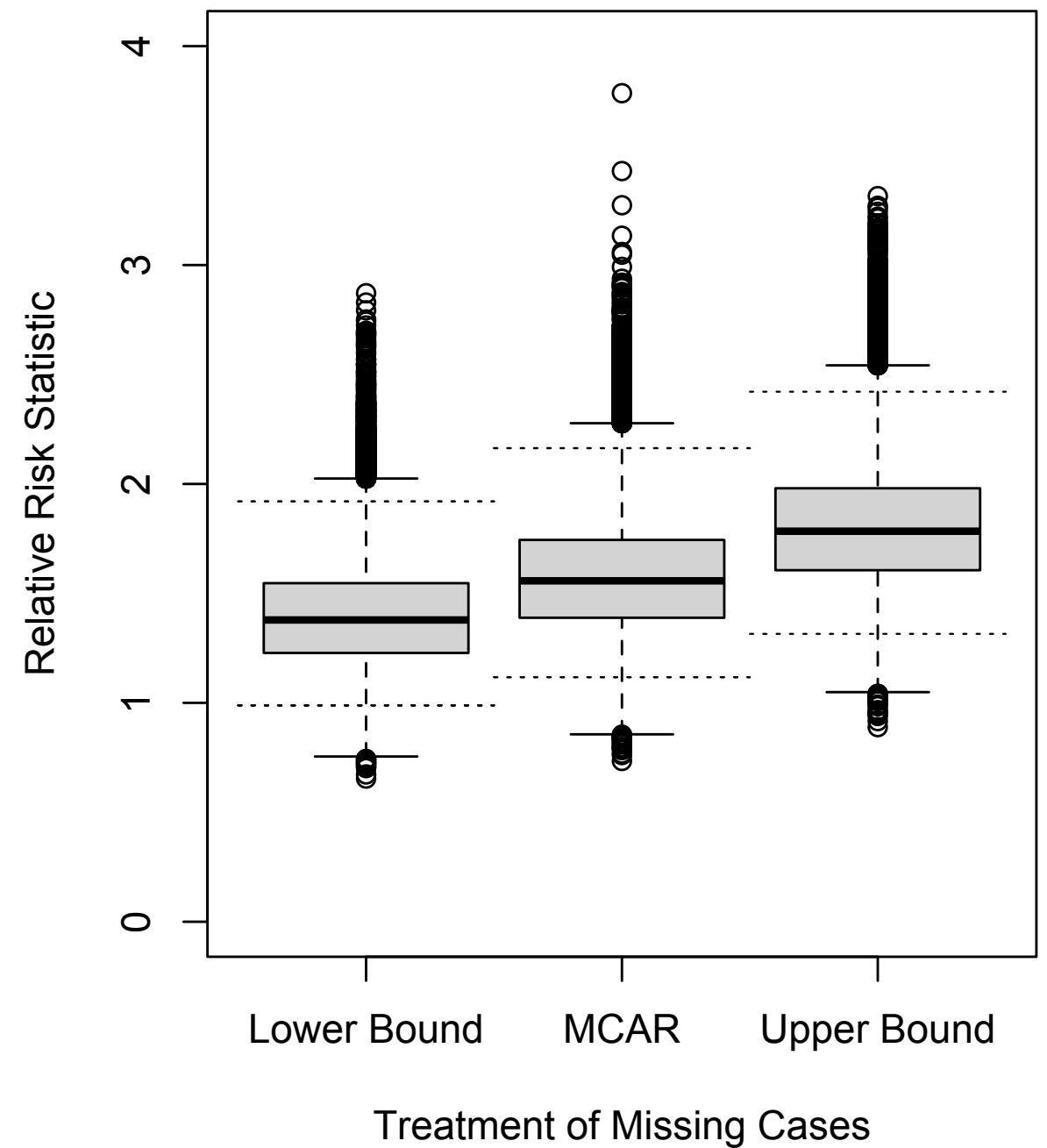
$$\text{Relative Risk} = \frac{\theta_D | \text{ bullied}}{\theta_D | \text{ not bullied}} \approx \frac{3.6}{2.4} = 1.5$$

Estimation Results
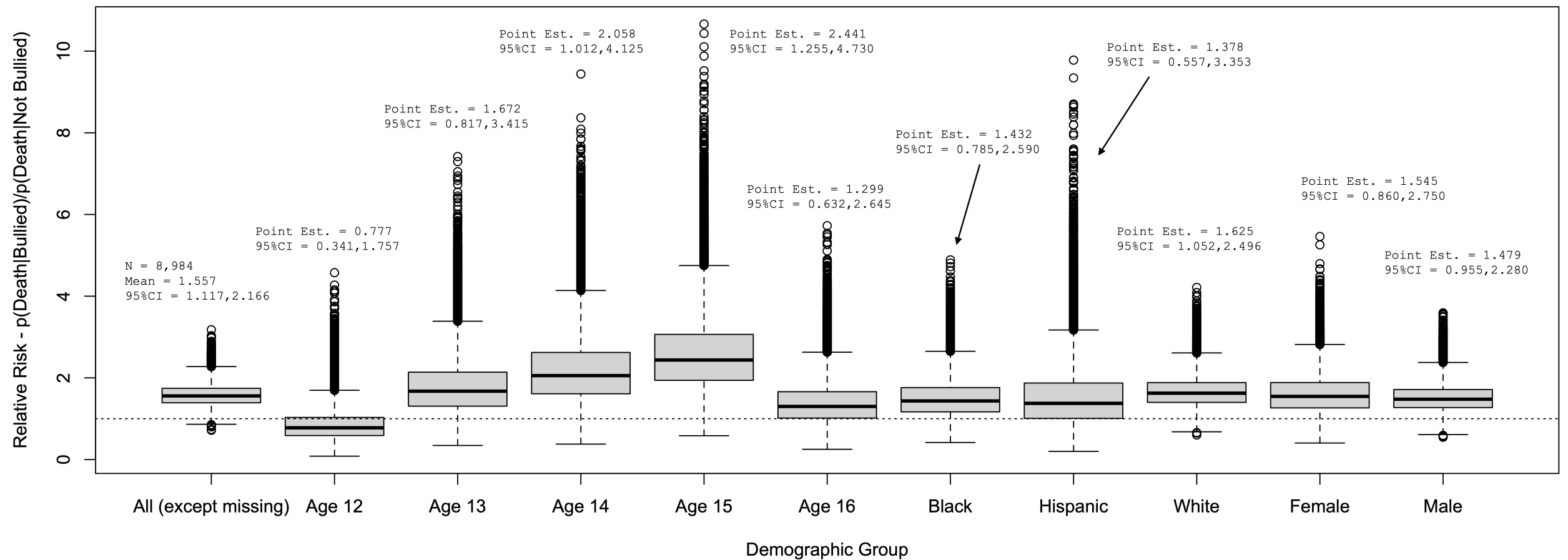
Relative Risk of Death by Round 19

Bounds on Relative Risk Statistic

Density

RR = p(Death|Bullying)/p(Death|No Bullying)

Relative Risk Statistic

Lower Bound   MCAR   Upper Bound

Treatment of Missing Cases

Estimation Results

Relative Risk Distribution for Different Demographic Groups

Statistical Picture from Chapter 3

- Drug Use (p. 53; pp. 58-63)

- Weapon carrying and school crime (pp. 54-57)

- Offending behavior (pp. 64-69)

- Temporal patterns (pp. 70-74)