(*) Don't need to re-do

discrete: Name Yuji 10.75/12 → 57.375/6 → 6/6

1. Formatting:

all margins 2.5cm	informative title
12 pt size	name on all pages
no raw R code or output	all pages numbered
max **10** pages	no blurry plots (**NOT png**)

1/1

0.75/1 2. Introduction/Background: (a little imprecise)

brief statement of scientific question

all variables defined

1.5/2 3. EDA: Define OR, RR

cross-tabs mosaic plot 3-way

1.75/2 4. Testing independence: Define genders / races (Agresti Table 10.1 p.381)

define parameters; give null and alt hyps MATHEMATICALLY Yij

test statistic MATHEMATICALLY and NUMERICALLY

null distribution of test statistic; p-value and conclusion + interpretation (stat sig evidence)

define all terms

5. CMH test:

2/2 Explain clearly in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic MATHEMATICALLY and NUMERICALLY

null distribution of test statistic; p-value and conclusion + interpretation

ASSUMPTION for valid p-value

7/8

1/1

6. Woolf test:

null, alt, test stat, null dist of test stat, p-value, conclusion + interpretation

1/1

7. Plots:

label size (not too small) informative captions

placement explanations

0.75/1

8. Conclusions

1. recap analysis 2. state and interpret main findings (estimated) not

1/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor satisfactory good excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, *etc.*)

C – interpretation (cannot conclude causation, only association) (estimated OR/RR; not 'influence')

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: **1.** Give context; **2.** Clearly state scientific question; **3.** Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other: _____

_____

_____

_____

_____

_____

3.75/4

discrete: Name AnHu 7.75/12 → 4.875/6

1. Formatting:

all margins 2.5cm	informative title
12 pt size	name on all pages
no raw R code or output	all pages numbered
max **10** pages	no blurry plots (**NOT png**)

1/1

2. Introduction/Background:

0.75/1

brief statement of scientific question (a bit imprecise)

all variables defined

3. EDA: (carefully interpret Figure 3)

1.5/2

cross-tabs

mosaic plot 3-way

4. Testing independence:

1.5/2

define parameters; give null and alt hyps MATHEMATICALLY $H_0: \theta_{ij} = \theta_{ij}$ for some i,j (imprecise)

test statistic MATHEMATICALLY and NUMERICALLY

(under the null)

null distribution of test statistic; p-value and conclusion + interpretation

define all terms

use more paragraphing for clarity

5. CMH test:

2/2

Explain clearly in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic MATHEMATICALLY and NUMERICALLY

(under the null)

null distribution of test statistic; p-value and conclusion + interpretation

ASSUMPTION for valid p-value

6.75/8

1/1

6. Woolf test:

null, alt, test stat, null dist of test stat, p-value, conclusion + interpretation

7. Plots:

1/1

label size (not too small) informative captions

placement explanations

0.25/1

8. Conclusions

1. recap analysis 2. state and interpret main findings

not entirely correct

0.75/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

↳ grammar check

poor satisfactory good excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, *etc.*)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: **1.** Give context; **2.** Clearly state scientific question; **3.** Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other: Regarding P: in fact, OR contains all information about association in a table

3/4

discrete: Name Juko 7.5/12 → 3.75/6

1. Formatting:

0.75/1

all margins 2.5cm — informative title

12 pt size — name on all pages

no raw R code or output (Don't need R details) — all pages numbered

max **10** pages — no blurry plots (**NOT png**)

0.75/1

2. Introduction/Background:

not 'biostats project'

brief statement of scientific question — somewhat incomplete

all variables defined

1.5/2

3. EDA:

3-way: cig/race/gender

cross-tabs — mosaic plot

1.25/2

4. Testing independence:

define parameters; give null and alt hyps MATHEMATICALLY — Be specific

test statistic MATHEMATICALLY and NUMERICALLY — What are E_{ij}?

null distribution of test statistic; p-value and conclusion + interpretation

define all terms — E_{ij}

→ You were supposed to look at cig & race

1.25/2

5. CMH test:

Explain clearly in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic MATHEMATICALLY and NUMERICALLY — what are E, Var?

null distribution of test statistic; p-value and conclusion + interpretation — not correct

ASSUMPTION for valid p-value

- Define OR mathematically

5.5/8

0.25/1 6. Woolf test: mathematically

null, alt, test stat, null dist of test stat, p-value, conclusion + interpretation

incorrect

0.75/1 7. Plots:

label size (not too small) informative captions

placement explanations

0.5/1 8. Conclusions

be specific

1. recap analysis 2. state and interpret main findings

0.5/1 9. Overall presentation (clarity of explanations, appropriate citations / references):

Cimplicit EDA

not correct

poor satisfactory good excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, *etc.*)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: **1.** Give context; **2.** Clearly state scientific question; **3.** Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other: odds ratio (rapport des cotes)

- use more paragraphing for clarity

- you were asked to assess independence of CIGARETTES and RACE (then stratify by gender), NOT between substances

2/4

(*) Don't need to re-do

discrete: Name _____ ViGa 10.5/12 → ~~5.25~~/6 → 6/6

1. Formatting:

1/1

all margins 2.5cm	informative title
12 pt size	name on all pages
no raw R code or output	all pages numbered
max **10** pages	no blurry plots (**NOT png**)

2. Introduction/Background:

0.75/1

brief statement of scientific question — somewhat imprecise

all variables defined

3. EDA:

2/2

cross-tabs mosaic plot

4. Testing independence: ($J_{ij}, J_{ij}, \ldots$)

1.75/2

define parameters; give null and alt hyps MATHEMATICALLY

test statistic MATHEMATICALLY and NUMERICALLY

null distribution of test statistic; p-value and conclusion + interpretation

define all terms

(careful - estimated or in the data set)

5. CMH test:

1.75/2

Explain clearly in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic MATHEMATICALLY and NUMERICALLY

null distribution of test statistic; p-value and conclusion + interpretation (estimated odds)

ASSUMPTION for valid p-value

7.25/8

0.75/1

6. Woolf test:

→ just barely do not reject

null, alt, test stat, null dist of test stat, p-value, conclusion + interpretation

7. Plots:

estimated odds

1/1

label size (not too small) informative captions

placement explanations

0.5/1

8. Conclusions

be careful

1. recap analysis (+EDA) 2. state and interpret main findings

1/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor satisfactory good excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, *etc.*)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: **1.** Give context; **2.** Clearly state scientific question; **3.** Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

3.25/4

(*) Don't need to re-do

discrete: Name PaDu 10.5/12 → ~~5.25/6~~ → 6/6

1. Formatting:

all margins 2.5cm	informative title
12 pt size	name on all pages
no raw R code or output	all pages numbered
max **10** pages	no blurry plots (**NOT png**)

1/1

2. Introduction/Background:

brief statement of scientific question

all variables defined

1/1

3. EDA:

1.5/2

cross-tabs (3-way) mosaic plot 3-way

4. Testing independence:

1.75/2

define parameters; give null and alt hyps MATHEMATICALLY ∃i,j

test statistic MATHEMATICALLY and NUMERICALLY

null distribution of test statistic; p-value and conclusion + interpretation

define all terms

not correct → you make a causal statement

5. CMH test:

2/2

Explain clearly in words what you are testing

CLEARLY state null and alt hyps mathematically define k

test statistic MATHEMATICALLY and NUMERICALLY

null distribution of test statistic; p-value and conclusion + interpretation

ASSUMPTION for valid p-value

7/8

0.75/1

6. Woolf test:

null, alt, test stat, null dist of test stat, p-value, conclusion + interpretation

1/1

7. Plots:

not causal

label size (not too small) informative captions

placement explanations

0.75/1

8. Conclusions

not 'confirming'

1. recap analysis 2. state and interpret main findings

1/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor satisfactory good excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, *etc.*)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: **1.** Give context; **2.** Clearly state scientific question; **3.** Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other: (Too much blank space

3.5/4