discrete: Name MB 7.5/12 → 3.75/6

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 not entirely correct

all variables defined

1.5/2

3. EDA:

cross-tabs mosaic plot by stratum in 1 plot

0.75/2

4. Testing independence:

define parameters; give null and alt hyps MATHEMATICALLY (incomplete)

test statistic MATHEMATICALLY and NUMERICALLY

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

define all terms → 1 (combined) test

sig or not (not 'suggest')

0.75/2

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?

(be clear – not 'apply a df of 1')

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

estimated

ASSUMPTION for valid p-value

2-6+ more likely

4.75/8

0.75/1

6. Woolf test:

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

1/1 7. Plots: mathematically - plot log ORs

label size (not too small) informative captions

placement explanations

0.5/1 8. Conclusions

1. recap analysis (incomplete/implicit) 2. state and interpret main findings (indep tests?) not complete, clear, correct

0.5/1 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: _____

_____

_____

_____

_____

_____

2.75/4

discrete: Name L-FC 7.75/12 → 3.875/6

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**)

0.75/1

– too many digits

2. Introduction/Background:

brief statement of scientific question

all variables defined

1/1

3. EDA:

1/2 cross-tabs incomplete mosaic plot incomplete

4. Testing independence:

1.5/2 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

1/2 5. CMH test: cannot conclude causation

Explain clearly in words what you are testing

CLEARLY state null and alt hyps mathematically incorrect what are E+Var?

test statistic MATHEMATICALLY and NUMERICALLY

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

ASSUMPTION for valid p-value

5.25/8

0.5/1

6. Woolf test: tests (not 'verifies')

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

7. Plots: → combined statistic; what is SE

1/1

label size (not too small) informative captions

placement explanations

8. Conclusions

0.25/1

1. recap analysis 2. state and interpret main findings

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

0.75/1

poor satisfactory good excellent

10. Other comments: MH, Woolf

A – no / incomplete / insufficient references

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

C – interpretation (cannot conclude causation, only association) (+ ref at end)

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: _____

_____

_____

_____

_____

_____

2.5/4

discrete: Name PC 8.75/12 → 4.325/6

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:

cross-tabs (Don't need Table 3) mosaic plot

2/2

4. Testing independence:

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

1.75/2

5. CMH test:

Explain clearly in words what you are testing (-OR, not 'relationship')

CLEARLY state null and alt hyps mathematically - incorrect

test statistic MATHEMATICALLY and NUMERICALLY - ok given error, but incorrect

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

ASSUMPTION for valid p-value - not 'confirmed'

0.75/2

sig deviation (not 'verify') / not 'prove'

(sig assoc)

6.5/8

0.5/1

6. Woolf test:

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

– mathematically first, then numerically, then null dist, then p-value

0.75/1

7. Plots:

label size (not too small) informative captions

placement explanations

Four-fold

8. Conclusions

0.5/1

not 'ensure'

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

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

0.5/1

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:

2.25/4

discrete: Name EF 8.75/12 → 4.375/6

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**)

Y/1

2. Introduction/Background:

brief statement of scientific question (ok)

all variables defined

1/1

3. EDA:

cross-tabs by stratum in 1 Table

mosaic plot – don't need barplot; by stratum in 1 plot

1/2

4. Testing independence:

define parameters; give null and alt hyps MATHEMATICALLY carefully define m, r; X_{ij}

test statistic MATHEMATICALLY and NUMERICALLY

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

define all terms

1.5/2

('not indep' is not completely correct)

5. CMH test:

Explain clearly in words what you are testing

CLEARLY state null and alt hyps mathematically Define θ; what is Var?

test statistic MATHEMATICALLY and NUMERICALLY

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

ASSUMPTION for valid p-value

1.5/2

6/8

0.75/1

6. Woolf test:

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

7. Plots:

Y/1

label size (not too small) informative captions

placement explanations

0.5/1

8. Conclusions

4. recap analysis 2. state and interpret main findings

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

0.5/1

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: _____

_____

_____

_____

_____

_____

2.75/4

discrete: Name LF 9.5/12 → 4.75/6

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**)

4/4

2. Introduction/Background:

brief statement of scientific question (ok)

all variables defined

1/1

3. EDA: Don't need figure 2

cross-tabs by stratum in 1 Table mosaic plot by stratum in 1 plot

1/2

4. Testing independence:

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

2/2

5. CMH test:

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

1.5/2

6.5/8

singular of strata = stratum

0.75/1 6. Woolf test: var = ?

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

0.5/1 8. Conclusions not 'confirmed'

1. recap analysis 2. state and interpret main findings

0.75/1 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: Spell check

3/4

(*) Don't need to re-do

discrete: Name EG 10/12 → 5/6 → 6/6

Don't need to re-do

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 - not entirely precise

all variables defined

3. EDA: write out words

2/2

cross-tabs mosaic plot

4. Testing independence:

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

highly sig assoc

5. CMH test: write out words

1.5/2

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

highly sig assoc

7/8

0.75/1

6. Woolf test:

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

+ mathematically

7. Plots:

1/1

label size (not too small) informative captions

placement explanations

0.75/1

8. Conclusions

not correct

1. recap analysis 2. state and interpret main findings

not 'ensure'

0.5

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:

3/4

discrete: Name MG 9.5/12 → 4.75/6

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**)

4/4

2. Introduction/Background:

0.75/1

brief statement of scientific question not entirely correct

all variables defined

3. EDA: Don't need Table 1

1/2

cross-tabs by stratum in 1 Table mosaic plot by stratum in 1 plot

4. Testing independence:

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 not 'confirmed'

what does 'numerically close to mathematically' mean?

5. CMH test:

1.5/2

Explain clearly in words what you are testing (✓) sig assoc

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

no sig evidence supporting gender as a confounder

6/8

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

0.75/1

8. Conclusions (not 'confirm')

1. recap analysis 2. state and interpret main findings

0.75/1

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) (stat sig or not)

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: spell check

3.5/4

discrete: Name FK 9.25/12 → 4.625/6

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:

brief statement of scientific question not entirely precise

all variables defined

1.5/2

3. EDA:

cross-tabs mosaic plot by stratum in 1 plot

4. Testing independence: (or combined test)

2/2

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

1.5/2

5. CMH test: (not MCH) what 2 tests?

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

6.75/8

0.75/1

6. Woolf test:

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

1/1

7. Plots: mathematically

label size (not too small) informative captions

placement explanations

0.25/1

8. Conclusions

1. recap analysis 2. state and interpret main findings not correct

0.5/1

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: _____

2.5/4

(*) Don't need to re-do

discrete: Name LAL 10/12 → 5/6 → 6/6 Don't need to re-do

1. Formatting:

0.75/1

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

0.75/1 2. Introduction/Background:

- brief statement of scientific question — not entirely correct
- all variables defined

2/2 3. EDA:

cross-tabs — Don't need Tables 1+2 — mosaic plot — only need the plot

2/2 4. Testing independence: (assess, not 'try to') — above 'Testing indep'

define parameters; give null and alt hyps MATHEMATICALLY

test statistic MATHEMATICALLY and NUMERICALLY — $ \displaystyle ... $ for in-line formulas

null distribution of test statistic; p-value and conclusion + interpretation — no statistically sig

define all terms

(Fisher not necessary)

1.5/2 5. CMH test:

Explain clearly in words what you are testing — variable, not 'operator'

CLEARLY state null and alt hyps mathematically

test statistic MATHEMATICALLY and NUMERICALLY — what is $var(n_{11})$?

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

ASSUMPTION for valid p-value — not 'likely'

7/8

0.75/1 6. Woolf test: Woolf not woolf

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

not 'are likely'

7. Plots:

1/1 label size (not too small) informative captions (+number all figures

placement explanations

0.5/1 8. Conclusions

1. recap analysis 2. state and interpret main findings (not 'confirmed') ('valid' not 'reliable')

0.75/1 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: _____

_____

_____

_____

_____

_____

3/4

discrete: Name IM 8.25/12 → 4.125/6

1. Formatting:

0.75/1

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

2. Introduction/Background:

0.75/1

brief statement of scientific question not entirely correct

all variables defined

3. EDA: Table 1 not explained

1/2

cross-tabs by stratum in Table 1 mosaic plot by stratum in 1 plot

figure 2 unnecessary

4. Testing independence:

1.25/2

define parameters; give null and alt hyps MATHEMATICALLY (incomplete)

O_{ij} O_{ij}? E_{ij} E_{ij}?

test statistic MATHEMATICALLY and NUMERICALLY

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

define all terms

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 Var=?

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

ASSUMPTION for valid p-value

5.5/8

0.75/1

6. Woolf test:

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

← check numerical value

7. Plots:

1/1

label size (not too small) informative captions

placement explanations

0.5/1

8. Conclusions

not 'confirmed'

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

0.5/1

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) 0 stat sig / not 'apparent'

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:

2.75/4

(*) Don't need to re-do

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

Don't need to re-do

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:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1/2 cross-tabs combine into 1 table mosaic plot by stratum in 1 plot

4. Testing independence:

2/2

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

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

7. Plots:

1/1

label size (not too small) informative captions

placement explanations

0.5/1

8. Conclusions

(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: some conclusions over-stated

3.5/4

discrete: Name MR 8.25/12 → 4.125/6

1. Formatting:

0.75/1

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

2. Introduction/Background:

1/1

- brief statement of scientific question
- all variables defined

3. EDA:

1/2

- cross-tabs (combine into 1 table)
- mosaic plot (by stratum in 1 plot)

4. Testing independence: (or combined test)

1.25/2

- define parameters; give null and alt hyps MATHEMATICALLY
- test statistic MATHEMATICALLY and NUMERICALLY $i, j = ?$
- null distribution of test statistic; p-value and conclusion + interpretation
- define all terms

(highly sig) is associated with reduced risk

5. CMH test:

1.5/2

- 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

what are E, Var?

5.5/8

0.5/1 mathematically

6. Woolf test:

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

7. Plots: ↳ not defined re-check numerical value

1/1

label size (not too small) informative captions

placement explanations

0.5/1

8. Conclusions

1. recap analysis 2. state and interpret main findings (statistically sig) not entirely correct

0.75/1

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: - Don't need contents

2.75/4

discrete: Name GS 8.25/12 → 4.125/6

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**)

0.75/1

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

1.5/2 3. EDA:

cross-tabs mosaic plot – all 3 variables

1.5/2 4. Testing independence:

define parameters; give null and alt hyps MATHEMATICALLY

test statistic MATHEMATICALLY and NUMERICALLY

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

define all terms

5. CMH test:

Explain clearly in words what you are testing

1/2 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

ASSUMPTION for valid p-value

stat sig assoc
- estimated OR

5.75/8

0.5/1

6. Woolf test: mathematically

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

← mathematically

Do not reject (not 'accept')

7. Plots:

1/1

label size (not too small) informative captions

placement explanations

0.5/1

8. Conclusions

don't over-interpret: not confirmed

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

0.5/1

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

← mathematically imprecise in parts

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 (incomplete)

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

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

Other:

2.5/4

discrete: Name LW 6.25/12 → 3.125/6

1. Formatting:

1/1

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

2. Introduction/Background:

0.75/1

- brief statement of scientific question — not entirely correct
- all variables defined

3. EDA:

1/2

- cross-tabs — by stratum in 1 table
- mosaic plot — by stratum in 1 plot

4. Testing independence: (chi^2)

1/2

- define parameters; give null and alt hyps MATHEMATICALLY
- test statistic MATHEMATICALLY and NUMERICALLY → X^2 = test stat
- null distribution of test statistic; p-value and conclusion + interpretation — stat sig — incorrect explanation
- define all terms

5. CMH test:

0.75/2

- Explain clearly in words what you are testing
- CLEARLY state null and alt hyps mathematically
- test statistic MATHEMATICALLY and NUMERICALLY — what is Var?
- null distribution of test statistic; p-value and conclusion + interpretation
- ASSUMPTION for valid p-value ?

4.5/8

0.25/1

6. Woolf test:

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

0.75/1

7. Plots:

label size (not too small) informative captions

placement explanations

0.25/1

8. Conclusions

1. recap analysis 2. state and interpret main findings

0.5/1

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)

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Other: _____

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1.75/4