discrete: Name SB +.25 if folded 8.5/12 → 4.375/6

1. Formatting:

0/0.75

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**)

- too many digits

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

2/2

cross-tabs — mosaic plot

4. Testing independence:

1.25/2

give null and alt hyps mathematically

test stat mathematically and numerically — seems off

null dist of test statistic; p-value and conclusion

define all terms

why 5 df? It's a 2x2 table

5. CMH test:

1/2

Explain in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic (numerically)

null dist of test statistic; p-value and conclusion

ASSUMPTION for valid p-value

not explicitly clear, incorrect df

5.25/7.75

0.25/1

6. Woolf test: (incorrect - re-check)

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

1.25/1.25

7. Plots: -4-fold too big/put on 1 page (cut)

label size (not too small) captions

placement **NOT BLURRY**

0.5/1

8. Conclusions

+EDA

recap analysis

* interpretation

state main findings

1.25/1

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

poor satisfactory good excellent

10. Other comments:

* cannot conclude causation, only association

3.25/4.25

discrete: Name AD 9.5/12 → 4.75/6

1. Formatting:

0.75/0.75

- 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: use paragraphs

1.25/2

- cross-tabs
- mosaic plot + overall/combined ← interpretation

4. Testing independence:

1.5/2

- give null and alt hyps mathematically
- test stat mathematically and numerically
- null dist of test statistic; p-value and conclusion 'suggests'?
- define all terms

5. CMH test:

1.25/2

- Explain in words what you are testing
- CLEARLY state null and alt hyps mathematically
- test statistic (numerically)
- null dist of test statistic; p-value and conclusion — cannot conclude what the reality is
- ASSUMPTION for valid p-value

- Don't need R fn

5.75/7.75

0.75/1 'validates'?

6. Woolf test: (*)

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

1.25/1.25

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

0.75/1 8. Conclusions use paragraphs (*) interpretation

recap analysis ~~state~~ main findings

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

poor satisfactory (good) excellent

10. Other comments:

- use primary references (not [1])

(*) cannot conclude causation/truth, only association

3.75/4.25

discrete: Name OE 8.5/12 → 4.25/6

1. Formatting: 0.75/0.75

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: 1.25/2

cross-tabs — mosaic plot → interpret — overall/combined

4. Testing independence: 1/2

give null and alt hyps mathematically

test stat mathematically and numerically — X^2 / Fisher test

null dist of test statistic; p-value and conclusion

define all terms

- OR interpretation (not 'inversely correlated')

5. CMH test: - common odds ratio (not 'odd') 1.25/2

Explain in words what you are testing

CLEARLY state null and alt hyps mathematically — not completely correct

test statistic (numerically)

null dist of ~~test~~ statistic; p-value and conclusion

ASSUMPTION for valid p-value

5.25/7.75

0.75/1 p more carefully explain 'separately for each of these groups', what you have is confusing

6. Woolf test:

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

1/1.25 7. Plots: too spread out / blank space

label size (not too small) captions

placement **NOT BLURRY**

0.5/1 8. Conclusions - use paragraphs

(+EDA) * interpretation

recap analysis state main findings

vague in parts

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

1/1

poor satisfactory good excellent

10. Other comments:

* careful - cannot determine causation ('confirm'), only association

- Fisher (not Fis/her)

- Typhoid (not TK/yphoid)

3.25/4.25

discrete: Name AF 9.75/12 → 4.875/6

1. Formatting:

0.75/0.75

- 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

1.5/2

3. EDA:

- cross-tabs
- mosaic plot — overall/combined (interpret ok)

1.5/2

4. Testing independence:

- give null and alt hyps mathematically
- test stat mathematically and numerically
- null dist of test statistic; p-value and conclusion
- define all terms

↳ cannot include causation, only association

1.25/2

5. CMH test:

- Explain in words what you are testing
- CLEARLY state null and alt hyps mathematically
- test statistic (numerically)
- null dist of test statistic; p-value and conclusion (clearly state)
- ASSUMPTION for valid p-value

6/7.75

0.75/1

6. Woolf test:

null, alt, test stat, null dist of test stat, p-value, conclusion (state explicitly)

1.25/1.25

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

↳ what does 'not relevant' mean?

0.75/1

8. Conclusions – use paragraphs

recap analysis state main findings

* interpretation

1/1

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

poor satisfactory (good) excellent

10. Other comments:

* careful - cannot conclude causation ('confirmation'), only association

- interpretations: cannot conclude causation ('innoc lowers risk'), only association

3.75/4.25

+.25 4-fold

discrete: Name OG 9.5 /12 → 4.875/6

1. Formatting:

0.5/0.25

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**)

- too many digits

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

1.75/2

3. EDA: , x Gender?

cross-tabs — mosaic plot + all 3 in 1 plot

4. Testing independence:

1.5/2

give null and alt hyps mathematically

test stat mathematically and numerically

null dist of test statistic; p-value and conclusion

define all terms

- Interpretation: 'confirm' suggests causation

5. CMH test:

1.25/2

Explain in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic (numerically)

null dist of test statistic; p-value and conclusion

ASSUMPTION for valid p-value

define odds ratio

6/7.75

0.75/1

6. Woolf test:

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

1.25/1

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

0.5/1

8. Conclusions

recap analysis (+EDA) state main findings (*) interpretation

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

1/1

poor satisfactory good excellent

10. Other comments:

- 4-fold interpretation

- findings don't 'suggest' no stat sig, that's what your result is

3.5/4.25

(*) Don't need to re-do

+.25 4-fold

discrete: Name TG 11.25 → 11.5/12 → 5.75/6 → 6/6

1. Formatting:

good job !!

0.75/0.75

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

3. EDA:

1.75/2

cross-tabs	mosaic plot

4. Testing independence:

↳ make interpretation more clear

1.75/2

give null and alt hyps mathematically

test stat mathematically and numerically

null dist of test statistic; p-value and conclusion

define all terms

5. CMH test: (ok)

2/2

Explain in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic (numerically)

null dist of test statistic; p-value and conclusion

ASSUMPTION for valid p-value

7.25/7.75

0.75/1 6. Woolf test:

null, alt, test stat, null dist of test stat, p-value, conclusion (df)

1.25/1.25 7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

0.75/1 8. Conclusions

recap analysis (+EDA) (*) interpretation state main findings

1.25/1 9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor satisfactory good excellent

10. Other comments:

- use primary refs (not course notes [1])
- use your own words (4-fold captions)
(*) cannot conclude causation/truth, only association

4/4.25

discrete: Name MH 8.5/12 → 4.25/6

1. Formatting:

0.5/0.75

- 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**)

- too many digits

1/1

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

1.75/2

3. EDA:

- cross-tabs
- mosaic plot → interpret

1.5/2

4. Testing independence:

somewhat imprecise

- give null and alt hyps mathematically
- test stat mathematically and numerically
- null dist of test statistic; p-value and conclusion → interpretation
- define all terms i, j

5. CMH test:

1/2

- Explain in words what you are testing
- CLEARLY state null and alt hyps mathematically
- test statistic (numerically) — incorrect
- null dist of test statistic; p-value and conclusion ok given error
- ASSUMPTION for valid p-value
  - Don't need R fn

5.75/7.75

0.25/1

6. Woolf test: mathematically
↳ somewhat incomplete
null, alt, test stat, null dist of test stat, p-value, conclusion
↳ what is the overall value? ↳ interpretation?

0.75/1.25

7. Plots:

label size (not too small) captions

placement mosaic plots too spread out **NOT BLURRY**

0.75/1

8. Conclusions

recap analysis state main findings

1/1

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

poor satisfactory / good excellent

10. Other comments:

- Table layout - place tables 1+2 side by side
- don't 'accept' NULL → 'Do not reject'
- conclude association, not 'relation'
" → "
- Test statistic (not 'Testing')

2.75/4.25

Don't need to re-do

good job!! :)

discrete: Name CH 11/12 → 5.5/6 → 6/6

1. Formatting:

0.75/0.75

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:

1.5/2

cross-tabs → full (by center) very good

mosaic plot → clearly state interpretation of mosaic plot before describe results

4. Testing independence:

2/2

give null and alt hyps mathematically

test stat mathematically and numerically

null dist of test statistic; p-value and conclusion

define all terms

5. CMH test: – interpretation: cannot determine causality

Explain in words what you are testing

1.75/2

CLEARLY state null and alt hyps mathematically

test statistic (numerically)

null dist of test statistic; p-value and conclusion

ASSUMPTION for valid p-value

– Don't 'verify' using statistical test, rather you assess

7/7.75

1/1

6. Woolf test:

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

1.25/1.25

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

0.5/1

8. Conclusions - use paragraphs

~~+EDA~~

recap analysis (*) interpretation

state main findings

1.25/1

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

poor satisfactory good excellent

10. Other comments:

- use primary refs (not wikipedia)

- cite refs in text / no 'general' refs

(*) can only conclude association, not causation

4/4.25

good job !! ☺ Don't need to re-do

discrete: Name AJ 11-5/12 → 5.75/6 → 66

1. Formatting: 0.75/0.75

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: 2/2

cross-tabs mosaic plot

4. Testing independence: 1.75/2

give null and alt hyps mathematically

test stat mathematically and numerically → 'seeming to indicate'?

null dist of test statistic; p-value and conclusion ← explicitly state df

define all terms

5. CMH test: 1.75/2

Explain in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic (numerically)

null dist of test statistic; p-value and conclusion → not Reject H (not 'accept H')

ASSUMPTION for valid p-value – assess (not 'verify' assumptions)

(ok, I kind of see what you did) ⟹ incorrect to condition on sex/A/M because these are not 3 separate strata – an individual will belong to multiple groups. Condition only on sex (= M/F)

2.25/2.75

1/1

6. Woolf test:

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

(.25/1.25)

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

1/1

8. Conclusions use paragraphs

recap analysis state main findings

1/1

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

poor satisfactory good excellent

10. Other comments:

- confusing in some parts

4.25/4.25

discrete: Name YK +.25 4-fold /20 7.75/12 → 4/6

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**)

0.5/0.75

2. Introduction/Background:

brief statement of scientific question

all variables defined

1/1

3. EDA:

cross-tabs — mosaic plot

1.75/2

4. Testing independence: very unclear, need to be very specific — give clear interpretation

give null and alt hyps mathematically

test stat mathematically and numerically

null dist of test statistic; p-value and conclusion

define all terms

df: ?

fisher + χ^2

0.75/2

5. CMH test: very unclear and incomplete

Explain in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic (numerically)

null dist of test statistic; p-value and conclusion

ASSUMPTION for valid p-value

not entirely correct + use own words

df wrong

θ not defined

4.75/7.75

0.5/1

6. Woolf test: undefined notations unclear

null, alt, test stat, null dist of test stat, p-value, conclusion some results not shown

1.25/1.25

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

0.25/1

8. Conclusions

recap analysis state main findings vague

1/1

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

poor satisfactory (good) excellent

10. Other comments:

- interpret results using your own words
- use primary refs (not internet courses)

3/4.25

+.25 4-fold

discrete: Name OP 8/12 → 4.125/6

1. Formatting:

0.75/0.75

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: (digits)

1/1

brief statement of scientific question

all variables defined

1.75/2 3. EDA: use paragraphs

cross-tabs — mosaic plot – interpretation

4. Testing independence: Don't need R fns

0.75/2

give null and alt hyps mathematically imprecise

test stat mathematically and numerically X^2/Fisher

null dist of test statistic; p-value and conclusion — you don't 'confirm'

define all terms — very incomplete

5. CMH test: paragraphs

1/2

Explain in words what you are testing

CLEARLY state null and alt hyps mathematically

test statistic (numerically)

null dist of test statistic; p-value and conclusion — what does 'not even cond ind' mean?

ASSUMPTION for valid p-value

5.25/7.75

0.25/

6. Woolf test: paragraphs

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

(*)

1.25/1.25

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

0.5/1

8. Conclusions paragraphs

~~+EDA~~

recap analysis

(*) interpretation

state main findings

0.75/1

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

poor satisfactory good excellent

10. Other comments:

- use paragraphing, your report is very difficult to follow

(*) Cannot conclude causation, only association

- odds ratio not defined

2.75/4.25

Don't need to re-do

good job !! :)

discrete: Name _____ JX 11.75/12 → 5.875/6 → 196

1. Formatting:

0.75/0.75

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

1.75/2

3. EDA:

cross-tabs mosaic plot → interpretation

2/2

4. Testing independence:

give null and alt hyps (mathematically)

test stat mathematically and numerically

null dist of test statistic; p-value and conclusion

define all terms

put next to the words

2/2

5. CMH test:

Explain in words what you are testing

CLEARLY state null and alt hyps (mathematically)

test statistic (numerically)

null dist of test statistic; p-value and conclusion

ASSUMPTION for valid p-value

7.5/7.75

1 /

6. Woolf test:

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

1.25 / 1.25

7. Plots:

label size (not too small) captions

placement **NOT BLURRY**

0.75 / 1

8. Conclusions

recap analysis (*) interpretation state main findings

1.25 / 1

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

poor satisfactory good (excellent)

10. Other comments:

(*) careful - interpretation: cannot conclude causation, only association

- woolf test doesn't 'validate'

4.25 / 4.25