

surv: Name

ML

6.5/12 → (3.25/6)

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)

2. Introduction/Background:

use paragraphing
not clear

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

'most likely' - incorrect interpretation

First explain plots, then interpret then conclude

4/8

1.75 / 1 6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coefs

1 / 1 7. Plots: (ok)

label size (not too small)

informative captions

placement

explanations

0.25 / 1 8. Conclusions

To summarize (not 'resume')

1. recap analysis

2. state and interpret main findings

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

not 'proves'
spell 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:

2.5 / 4

surv: Name

AM

7.75/12 → 3.875/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 10 pages

(Don't need 'individual report'
informative title)

name on all pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

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CLEARLY describe how model selected

define all terms

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CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional
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3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

First explain plots,
then interpret
then conclude

1/1 6. Write out final *estimated* model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coefs

0.75/1 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

don't 'validate' assumptions

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

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:

surv: Name

LM

5.5/12 → 2.75/6

1. Formatting:

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:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

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define all terms

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CLEARLY state Cox PH assumptions: + give PRIMARY references

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2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

First explain
plots then
interpret
then conclude

1/1 6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

0.5/1 7. Plots:

label size (not too small)

informative captions

placement

explanations

0.5/1 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)

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: - very incomplete

- logic very hard to follow

2.5/4

surv: Name

OM

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

(Don't need R fns)
max 10 pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

5.25/8

1/1 6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

7. Plots:

1/1 label size (not too small)

informative captions

placement

explanations

0.25/ 8. Conclusions

1. recap analysis

not correct
2. state and interpret main findings

0.75/ 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:

surv: Name

FN

8.75/12 $\rightarrow$ 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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

imprecise

0.75/1

2/2

0.75/1

1/2

5.5/8

First explain plots
then interpret
then conclude

1/1 6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

0.75/ 7. Plots:

label size (not too small)

informative captions

placement

explanations

0.75/ 8. Conclusions

1. recap analysis
(+ EDA)

2. state and interpret main findings
what does 'robust' mean?

0.75/ 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

surv: Name

DO

6.25/12 → 3.125/6

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Devianoc residuals (to identify outliers)

First explain plots
then interpret
then conclude

5/0

0/1 not done?

6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

0.25/1

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

not done?

1. recap analysis

2. state and interpret main findings

0.5/1

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

spell check + grammar check

incomplete

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: very incomplete + unclear

1.25/4

surv: Name

AP

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

First explain plots
then interpret
then conclude

6/8

1/1 6. Write out final *estimated* model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coefs

0.75/1 7. Plots:

label size (not too small) + small plots

informative captions

placement

explanations

1/1 8. Conclusions

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')

resids

Other:

3.5/4

surv: Name

JTe 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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

where is it?

all (continuous) pairs

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

stepwise = ?

define all terms

AIC

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

First explain plots
then interpret
then conclude

0.75/1 *no not estimated*
6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coeffs

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.5/1
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)

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: please use single column format

2.5/4

surv: Name

JPi

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

0.75/1

what is dose-group? unclear

6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

0.75/1

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

+EDA

not 'examined influence'

+incomplete

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')

Schoenfeld

Other:

2.5/4

surv: Name

EQ

8.25/12

4.125/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 10 pages

Don't need cover page
informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

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CLEARLY state Cox PH assumptions: + give PRIMARY references

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2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

First explain plots,
then interpret
then conclude

5.75/8

0.75/1 not ho ← you don't estimate this
6. Write out final *estimated* model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coefs

0.75/1
7. Plots:

label size (not too small)

(informative captions)

placement

explanations

0.5/1
8. Conclusions

(incomplete + EDA + KM)
1. recap analysis

(carefully)
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)

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

surv: Name

PR

6/12 → 3/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max **10** pages

(remove excess blank space)
informative title

name on all pages

all pages numbered

no blurry plots (**NOT** png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

First explain plots
then interpret
then conclude

3.75 / 2

4/1 6. Write out final *estimated* model **mathematically**

0.75/1 **hat** on *response* variable

max **2 sig digits** (after decimal) on coefs

0/1 7. Plots:

label size (not too small)

informative captions

placement

explanations

0/1 8. Conclusions

not done?

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) *not 'impact on'*

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:

superficial in parts

2.25/4

surv: Name

DS

8.5/12 →

4.25/6

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject) - stratify by groups

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

Explain plots
then interpret
then conclude

5.5/8

1/1 6. Write out final *estimated* model **mathematically**

0.75/1 **hat** on *response* variable

max **2 sig digits** (after decimal) on coefs

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

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:

* Don't need to re-do

surv: Name

HS

10/12

5/6

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

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bivariate numerical (cor)

univariate graphical

bivariate graphical

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CLEARLY describe how model selected

define all terms

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CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

First explain plots
then interpret
then conclude

6.25/8

6. Write out final *estimated* model **mathematically**

1/1 **hat** on *response* variable

max **2 sig digits** (after decimal) on coefs

7. Plots:

1/1 label size (not too small)

informative captions

1/1 placement

explanations

0.75/1 8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

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

1/1 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:

3.75/4

surv: Name

LS

9/12 → 4.5/6

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

1/1 6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

7. Plots:

1/1 label size (not too small)

informative captions

placement

explanations

8. Conclusions

0.25 1. recap analysis

'imply' / 'possibly' ??
2. state and interpret main findings

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

1/1 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:

surv: Name

LT

9/12 →

4.5/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 10 pages

- too many digits
informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

$\text{var}(\hat{S}(t))$
KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

First explain plots,
then interpret,
then conclude

6.25/8

(explicitly)

0.75/

6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

0.75/

7. Plots:

label size (not too small)

informative captions

placement

explanations

0.75/

8. Conclusions

be specific

1. recap analysis

2. state and interpret main findings

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:

2.75/4

surv: Name

YT

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**)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: **+ give PRIMARY references**

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

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:

surv: Name

JV

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

Explain plots
then interpret
then conclude

4.75/8

0.75/10 (not entirely clear)
6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coefs

1/11
7. Plots: *Schoenfeld*

label size (not too small)

informative captions

placement

explanations

0.75/1
8. Conclusions

1. recap analysis

supports, not highlights
2. state and interpret main findings
incorrect

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references *K-M*

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')

Schoenfeld needs

Other:

surv: Name

NV

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

not 'significantly' $\text{Var}(\hat{S}(t))$
KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

First explain plots, then interpret then conclude

5.75/8

6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

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: - use more paragraphing

surv: Name

SV

8/12 → 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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

incorrect and imprecise

Don't need S-W / M-W / K-W

estimated survival

$\text{Var}(\hat{S}(t))$

mathematically

not 'valide model', not 'verify'

+ explain

First explain plots
then interpret
then conclude

5/8

1/1 6. Write out final *estimated* model **mathematically**

1/1 hat on *response* variable

max 2 sig digits (after decimal) on coefs

7. Plots:

Figure 6 not informative
Figure, not fig.
informative captions

label size (not too small)

placement

explanations

0.5/ 8. Conclusions

1. recap analysis
+ EDA

not 'confirms'
2. state and interpret main findings

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

poor

satisfactory

good

excellent
- somewhat incomplete

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:

surv: Name

A Van

6.25/12 → 3.125/6

1. Formatting:

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:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give PRIMARY references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and EXPLAIN:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

Explain plots
then interpret
then conclude

4.25/8

0.5/1 *i not defined*
6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coefs

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.25/1
8. Conclusions

1. recap analysis

not 'confirms' 'likely'?
② 2. state and interpret main findings
be specific

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

poor

satisfactory

good

excellent

10. Other comments:

① A – no / incomplete / insufficient references

② B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

③ C – interpretation (cannot conclude causation, only association)
Don't over-interpret

④ D – use your OWN WORDS / no apparently unattributed quotations

⑤ 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)

⑥ I – plot size / aspect ratio (make 'pretty') *residuals*

Other:

+ Figure 10 very hard to read
⑦ ** + incorrect interpretations p.5*

surv: Name

A Vet

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical (square)

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

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

surv: Name

AY

5.5/12

2.75/6

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)

2. Introduction/Background:

Very unclear

brief background and statement of scientific question

- don't give vague statements about surv
an? what is THIS
SPECIFIC context

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

logic hard to follow

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

not done?

state how model fitted (ie, maximum partial likelihood)

Cox
CLEARLY describe how model selected

define all terms

5. Model assessment:

- After Cox

Cox
CLEARLY state Cox PH assumptions: + give PRIMARY references

- + explain
1. hazards are proportional
 2. linear form for covariates
 3. no outliers

carry out assessment (graphics / tests) and EXPLAIN

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

First explain plots
then interpret
then conclude

3.25/8

0.75/ 6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coefs

0.75/ 7. Plots:

label size (not too small) *KM*

informative captions

placement

explanations

0.25/ 8. Conclusions

1. recap analysis

2. state and interpret main findings *not correct*

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:

2.25/4

surv: Name _____

DZ

7-75/12 → 3.075/6

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional
2. linear form for covariates
3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)
Martingale residuals (linear form for continuous variables)
Deviance residuals (to identify outliers)

First explain plots
then interpret
then conclude

6. Write out final *estimated* model **mathematically**

hat on *response* variable

max **2 sig digits** (after decimal) on coefs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

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

surv: Name _____

HZ 7.25/12 → 3.625/6

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)

2. Introduction/Background:

use paragraphing for clarity
imprecise

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

nonparametric

KM (write out estimator and variance) + log-rank test: state null / alt hyps, value of test stat, give null dist of test stat, p-value, conclusion (reject / do not reject)

state how model fitted (ie, maximum partial likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state Cox PH assumptions: + give **PRIMARY** references

1. hazards are proportional

2. linear form for covariates

3. no outliers

carry out assessment (graphics / tests) and **EXPLAIN**:

Schoenfeld residuals (PH assumption)

Martingale residuals (linear form for continuous variables)

Deviance residuals (to identify outliers)

First explain
plots then
interpret
then conclude

0.75/1 6. Write out final *estimated* model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coefs

0.75/1 7. Plots:

label size (not too small)

+ small plots
(informative captions)

placement

explanations

0.5/1 8. Conclusions

1. recap analysis
(+EDA)

2. state and interpret main findings
vague - be specific

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