Summary of data

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1 Summary

This is a document that outlines the summary of the data.

2 Model parameters

This report and the model has been run according to the following parameters.

Model	Exposure
Survival models	poultry

3 Data summary

A summary of the data, descriptive statistics and the amount of missingness is shown below.

3.1 Descriptive statistics of data

Descriptive summary statistics of data.

```
## Warning in kable_pipe(x = structure(character(0), .Dim = c(0L, 0L), .Dimnames =
## list(: The table should have a header (column names)
```

|| || || ||

cohort	variable	mean	perc_5	perc_50	perc_95	std.dev	valid_n	cohort_n	missing_n	missing_perc
study1	OFFALS	7.24	0.00	2.63	28.57	11.50	852	867	15	1.73
study2	OFFALS	3.81	0.00	2.20	13.87	4.90	3239	3393	154	4.54
study3	OFFALS	2.56	0.00	0.00	15.30	6.82	5753	5889	136	2.31
study4	OFFALS	1.81	0.00	0.00	7.70	3.67	2252	2324	72	3.10
study5	OFFALS	1.09	0.00	0.00	5.56	2.93	2229	2290	61	2.66
study7	OFFALS	1.49	0.00	0.83	5.53	2.64	3514	3578	64	1.79
study8	OFFALS	1.28	0.00	0.00	5.54	5.05	5272	5401	129	2.39
study9	OFFALS	1.28	0.00	0.00	5.54	5.05	5272	5401	129	2.39
study1	POULTRY	21.32	0.00	18.27	58.93	20.76	852	867	15	1.73
study2	POULTRY	27.11	3.37	23.05	63.65	20.18	3239	3393	154	4.54
study3	POULTRY	37.56	2.27	31.54	91.67	28.86	5753	5889	136	2.31
study4	POULTRY	24.18	0.00	16.10	49.45	20.08	2252	2324	72	3.10
study5	POULTRY	12.67	0.00	9.06	36.99	14.36	2229	2290	61	2.66
study7	POULTRY	13.45	1.16	9.27	39.32	13.60	3514	3578	64	1.79
study8	POULTRY	11.40	0.00	7.23	38.96	15.25	5272	5401	129	2.39
study9	POULTRY	11.40	0.00	7.23	38.96	15.25	5272	5401	129	2.39
study1	REDMEAT	50.63	0.00	47.27	117.93	37.15	852	867	15	1.73
study2	REDMEAT	50.39	8.24	45.82	108.15	32.72	3239	3393	154	4.54
study3	REDMEAT	45.07	2.17	37.79	114.59	36.88	5753	5889	136	2.31
study4	REDMEAT	40.32	0.20	32.20	100.30	36.21	2252	2324	72	3.10
study5	REDMEAT	59.10	10.11	57.51	113.12	32.73	2229	2290	61	2.66
study7	REDMEAT	34.08	5.61	27.10	82.83	28.41	3514	3578	64	1.79
study8	REDMEAT	32.23	3.01	25.03	86.36	28.03	5272	5401	129	2.39
study9	REDMEAT	32.23	3.01	25.03	86.36	28.03	5272	5401	129	2.39
study1	REDMEATTOTAL	109.26	14.78	106.69	210.37	61.04	867	867	0	0.00
study2	REDMEATTOTAL	101.21	7.27	95.16	201.98	55.91	3393	3393	0	0.00
study3	REDMEATTOTAL	120.93	26.99	113.67	245.85	68.11	5889	5889	0	0.00
study4	REDMEATTOTAL	87.94	0.34	87.21	176.69	57.67	2324	2324	0	0.00
study5	REDMEATTOTAL	99.10	10.66	100.55	190.03	53.67	2290	2290	0	0.00
study7	REDMEATTOTAL	102.73	20.84	101.75	238.41	68.84	3578	3578	0	0.00
study8	REDMEATTOTAL	87.50	20.83	78.28	182.43	52.23	5401	5401	0	0.00
study9	REDMEATTOTAL	87.50	20.83	78.28	182.43	52.23	5401	5401	0	0.00
Combined	OFFALS	2.06	0.00	0.43	9.33	5011.15	28383	29143	760	2.61
Combined	POULTRY	20.16	0.99	15.39	53.78	82971.81	28383	29143	760	2.61
Combined	REDMEAT	40.44	4.00	34.03	98.29	184488.58	28383	29143	760	2.61
Combined	REDMEATTOTAL	101.74	17.89	93.59	205.37	629014.82	29143	29143	0	0.00

3.2 Data quality and understanding covariates

3.2.1 Missingness of covariates

The amount of missing for each covariate is shown below. The table shows if there are any covariates that are missing for any study.

variable	study1	study2	study3	study4	study5	study7	study8	study9
REDMEAT	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
OFFALS	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
POULTRY	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
REDMEATTOTAL	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

3.2.2 Variable types of covariates

This summarizes if the covariates are of the same type or class in each study.

variable	discrepancy	study1	study2	study3	study4	study5	study7	study8	study9
REGION_CH	no	integer	integer	integer	integer	integer	integer	integer	integer
BMI_CAT	no	factor	factor	factor	factor	factor	factor	factor	factor
CONSUMER	no	factor	factor	factor	factor	factor	factor	factor	factor
COV_FISH	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_DAIRY	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_RICE	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_POTATO	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_CEREALFIBRE	no	integer	integer	integer	integer	integer	integer	integer	integer
ISOFLAVONES	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
NUTS_SEEDS	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
SOY	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
PBCL	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
TOTAL	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
SMOKING	no	factor	factor	factor	factor	factor	factor	factor	factor
ALCOHOL	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
PA	no	factor	factor	factor	factor	factor	factor	factor	factor
FAM_DIAB	no	factor	factor	factor	factor	factor	factor	factor	factor
WAIST	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
COV_MEAT	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
COV_FRUIT	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
COV_VEG	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
COV_FIBER	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
COV_SUG_BEVS	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
SEX	no	factor	factor	factor	factor	factor	factor	factor	factor
BMI	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
EDUCATION	no	factor	factor	factor	factor	factor	factor	factor	factor
AGE_BASE	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
E_INTAKE	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
TYPE_DIAB	no	factor	factor	factor	factor	factor	factor	factor	factor
PREV_DIAB	no	factor	factor	factor	factor	factor	factor	factor	factor
CASE_OBJ	no	factor	factor	factor	factor	factor	factor	factor	factor
CASE_OBJ_SELF	no	factor	factor	factor	factor	factor	factor	factor	factor
FUP_OBJ	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
FUP_OBJ_SELF	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
COMORBIDITY	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_COFFEE	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_TEA	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_PASTA	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_BREAD	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_EGGS	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_SOUPS	no	integer	integer	integer	integer	integer	integer	integer	integer

variable	discrepancy	study1	study2	study3	study4	study5	study7	study8	study9
COV_HRT	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_SUGAR	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_TEACOFFEE	no	integer	integer	integer	integer	integer	integer	integer	integer
COV_CEREALS	no	integer	integer	integer	integer	integer	integer	integer	integer
i_status_out_cohort	no	integer	integer	integer	integer	integer	integer	integer	integer
REDMEATTOTAL	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
REDMEAT	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
POULTRY	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
PROCMEAT	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric
OFFALS	no	numeric	numeric	numeric	numeric	numeric	numeric	numeric	numeric

3.3 Quality control

We outline the number of patients who have been excluded due to the inclusion and exclusion criterion.

3.3.1 Inclusion criterion

```
    *    age >= 18 years

    *  Number of patients after removing those with age >= 18
```

```
##   Aggregating study7 (lengthDS("E_temp2$SEX")) [=========================>--------------]  67% / 0s
```

```
## $`length of E_temp2$SEX in study1`
## [1] 867
##
## $`length of E_temp2$SEX in study2`
## [1] 3393
##
## $`length of E_temp2$SEX in study3`
## [1] 5889
##
## $`length of E_temp2$SEX in study4`
## [1] 2324
##
## $`length of E_temp2$SEX in study5`
## [1] 2290
##
## $`length of E_temp2$SEX in study7`
## [1] 3578
##
## $`length of E_temp2$SEX in study8`
## [1] 5401
##
## $`length of E_temp2$SEX in study9`
## [1] 5401
```

3.3.2 Exclusion criterion

```
    * no previous diabetes
```

```
    * no type 1 diabetes

        * number of patients that remain after removing those with Type 1 diabetes

##   Aggregating study7 (lengthDS("E_temp3$SEX")) [==========================>--------------]  67% / 0s

## $`length of E_temp3$SEX in study1`
## [1] 867
##
## $`length of E_temp3$SEX in study2`
## [1] 3393
##
## $`length of E_temp3$SEX in study3`
## [1] 5889
##
## $`length of E_temp3$SEX in study4`
## [1] 2324
##
## $`length of E_temp3$SEX in study5`
## [1] 2290
##
## $`length of E_temp3$SEX in study7`
## [1] 3578
##
## $`length of E_temp3$SEX in study8`
## [1] 5401
##
## $`length of E_temp3$SEX in study9`
## [1] 5401
```

3.3.3 Exclusion due to energy intake

```
    * number of participants removed with very high or very low energy intake


##   Aggregating study8 (lengthDS("L2$SEX")) [==================================>----------]  78% / 0s

## $`length of L2$SEX in study1`
## [1] 867
##
## $`length of L2$SEX in study2`
## [1] 3393
##
## $`length of L2$SEX in study3`
## [1] 5889
##
## $`length of L2$SEX in study4`
## [1] 2324
##
## $`length of L2$SEX in study5`
## [1] 2290
```

```
##
## $`length of L2$SEX in study7`
## [1] 3578
##
## $`length of L2$SEX in study8`
## [1] 5401
##
## $`length of L2$SEX in study9`
## [1] 5401
```

```
##   Aggregating study9 (lengthDS("E3$SEX")) [=========================================>-----]  89% / 0s
```

```
## $`length of E3$SEX in study1`
## [1] 834
##
## $`length of E3$SEX in study2`
## [1] 3152
##
## $`length of E3$SEX in study3`
## [1] 5698
##
## $`length of E3$SEX in study4`
## [1] 2245
##
## $`length of E3$SEX in study5`
## [1] 2225
##
## $`length of E3$SEX in study7`
## [1] 3471
##
## $`length of E3$SEX in study8`
## [1] 5241
##
## $`length of E3$SEX in study9`
## [1] 5241
```

4 References

- https://github.com/datashield
- http://www.metafor-project.org
- https://github.com/neelsoumya/datashield_testing_basic/tree/master/gui/survival_models_gui