

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Antwerp (BE) | ATS Val Padana<br>(IT) | Auvergne (FR) | Brittany (FR) |
|-------------|-------------|--------------------------------|--------------|------------------------|---------------|---------------|
| sex         | No          | 5.05                           | 2.65         | 3.25                   | 1.01          | 0.44          |
| nbrbaby     | No          | 1.69                           | 0            | 0                      | 0             | 6.15          |
| nbrmalf     | Yes         | 5.99                           | 1.12         | 0                      | 0             | 8.63          |
| type        | No          | 0.03                           | 0.04         | 0                      | 0             | 0.02          |
| weight      | Yes         | 3.71                           | 5.16         | 0.64                   | 1.14          | 4.03          |
| gestlength  | No          | 6.96                           | 4.58         | 3.5                    | 0.78          | 2.07          |
| death_date  | Yes         | 36.78                          | 2.77         | 97.08                  | 0             | 98.21         |
| survival    | Yes         | 7.15                           | 3.56         | 0                      | 0             | 0.65          |
| whendisc    | No          | 3.67                           | 13.11        | 0.75                   | 0.72          | 1.97          |
| agedisc     | Yes         | 1.49                           | 3.45         | 1.03                   | 0.11          | 0.55          |
| condisc     | No          | 47.3                           | 1.8          | 1.25                   | 100           | 4.43          |
| karyo       | No          | 36.04                          | 86.18        | 60                     | 2.45          | 12.39         |
| pm          | Yes         | 73.96                          | 95.11        | 79.25                  | 81.13         | 59.59         |
| datemo      | No          | 13.48                          | 2.38         | 0.25                   | 0             | 100           |
| residmo     | No          | 18.83                          | 0.49         | 0                      | 100           | 100           |
| agemo       | No          | 1.87                           | 2.29         | 0.25                   | 0             | 6             |
| pre_still   | No          | 99.89                          | 99.33        | 100                    | 100           | 100           |
| totpreg     | No          | 41.1                           | 5.3          | 4                      | 0.84          | 9.31          |
| occupmo     | No          | 71.66                          | 68.99        | 9.25                   | 100           | 37.76         |
| assconcept  | No          | 48.36                          | 42.68        | 12.5                   | 1.07          | 20.89         |
| illbef1     | No          | 46.24                          | 3.68         | 72.5                   | 46.15         | 22.96         |
| illdur1     | No          | 42.56                          | 4.76         | 74.75                  | 33.91         | 26.23         |
| drugs1      | No          | 84.69                          | 76.66        | 78.5                   | 72.9          | 85.1          |
| omim        | No          | 63                             | 100          | 99.75                  | 97.13         | 100           |
| consang     | No          | 53.03                          | 85.23        | 21.25                  | 1.25          | 99.32         |
| prevsib     | No          | 70.2                           | 3.41         | 94.25                  | 99.16         | 10.21         |
| sib1        | Yes         | 2.95                           | 0            | 0                      | 0             | 0.32          |
| sibanom     | No          | 65.22                          | 53.1         | 86.5                   | 99.88         | 9.63          |
| moanom      | No          | 67.26                          | 65.22        | 95.5                   | 100           | 25.45         |
| faanom      | No          | 70.11                          | 77.56        | 96.25                  | 100           | 30.96         |
| sp_karyo    | Yes         | 7.54                           | 2.56         | 0                      | 0.34          | 2.49          |
| sp_drugs1   | Yes         | 99.2                           | 98.89        | 99.68                  | 100           | 94.66         |
| sp_sibanom  | Yes         | 28.59                          | 3.33         | 0                      | 0             | 100           |
| sp_moanom   | Yes         | 26.56                          | 0            | 0                      | 0             | 100           |
| sp_faanom   | Yes         | 30.22                          | 0.64         | 0                      | 0             | 100           |
| sp_syndrome | Yes         | 1.12                           | 0            | 0                      | 0             | 0             |
| sp_malfo1   | Yes         | 1.44                           | 0            | 0                      | 0             | 0.02          |
| sp_malfo2   | Yes         | 1.47                           | 0            | 0                      | 0             | 0.11          |

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| Variable    | Conditional | All full members<br>registries | Antwerp (BE) | ATS Val Padana<br>(IT) | Auvergne (FR) | Brittany (FR) |
|-------------|-------------|--------------------------------|--------------|------------------------|---------------|---------------|
| sp_malfo3   | Yes         | 1.49                           | 0            | 0                      | 0.33          | 0             |
| sp_malfo4   | Yes         | 1.25                           | 0            | 0                      | 0             | 0.23          |
| sp_malfo5   | Yes         | 1.03                           | 0            | 0                      | 0             | 0             |
| sp_malfo6   | Yes         | 1.14                           | 0            | 0                      | 0             | 0             |
| sp_malfo7   | Yes         | 1.13                           | 0            | 0                      | 4             | 0             |
| sp_malfo8   | Yes         | 0.15                           | 0            | 0                      | 0             | 0             |
| civreg      | No          | 4.73                           | 99.96        | 0.25                   | 14.57         | 6.34          |
| firstpre    | No          | 52.6                           | 30.03        | 51.25                  | 15.1          | 9.96          |
| sp_firstpre | Yes         | 12.6                           | 0.8          | 0                      | 100           | 25            |
| surgery     | No          | 47.55                          | 35.37        | 24.75                  | 21.55         | 12.2          |
| folic       | No          | NaN                            | 0            | 0                      | 0             | 0             |
| sp_twin     | Yes         | 94.74                          | 95.96        | 97.5                   | 95.82         | 99.7          |
| sp_consang  | Yes         | 20.33                          | 13.95        | 33.33                  | 100           | 100           |
| matedu      | No          | 75.89                          | 67.15        | 19.25                  | 67.4          | 71.39         |
| socm        | No          | 79.01                          | 100          | 54.25                  | 100           | 41.04         |
| socf        | No          | 84.11                          | 100          | 52.25                  | 100           | 46.05         |
| migrant     | No          | 63.41                          | 100          | 92.5                   | 100           | 16.87         |
| aetiology   | No          | 93.96                          | 100          | 100                    | 100           | 100           |
| folic_g14   | No          | 66.18                          | 82.54        | 27                     | 35.76         | 76.01         |
| bmi         | No          | 52.23                          | 48.56        | 17                     | 1.37          | 48.48         |
| matdiab     | No          | 65.09                          | 72.98        | 98                     | 99.46         | 75.49         |
| hba1c       | No          | 99.84                          | 100          | 100                    | 100           | 100           |
| gentest     | No          | 64.94                          | 74.6         | 90.25                  | 50.21         | 46.02         |
| sp_gentest  | Yes         | 41.42                          | 5.01         | 0                      | 98.17         | 100           |
| firsttri    | No          | 61.4                           | 60.1         | 80.25                  | 50.69         | 57.47         |
| presyn      | Yes         | 4.05                           | 5.52         | 4.05                   | 0.54          | 1             |
| premal1     | Yes         | 8.8                            | 17.26        | 3.23                   | 0             | 0.62          |
| premal2     | Yes         | 9.8                            | 20.62        | 1.97                   | 0             | 1.49          |
| premal3     | Yes         | 8.83                           | 21.21        | 2.44                   | 1.32          | 2.07          |
| premal4     | Yes         | 8.18                           | 20.13        | 5.63                   | 1.29          | 3.52          |
| premal5     | Yes         | 7.52                           | 21.76        | 10                     | 1.12          | 2.54          |
| premal6     | Yes         | 9.07                           | 29.66        | 14.29                  | 2.08          | 0             |
| premal7     | Yes         | 9.76                           | 31.08        | 20                     | 4             | 5.56          |
| premal8     | Yes         | 10.46                          | 34.88        | 0                      | 0             | 11.11         |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable           | Conditional | All full members<br>registries | Cork and Kerry<br>(IE) | E Mid & S York<br>(UK) | Emilia Romagna<br>(IT) | French West<br>Indies (FR) |
|--------------------|-------------|--------------------------------|------------------------|------------------------|------------------------|----------------------------|
| <b>sex</b>         | No          | 5.05                           | 4.7                    | 5.3                    | 11.34                  | 1.96                       |
| <b>nbrbaby</b>     | No          | 1.69                           | 0                      | 0.86                   | 1.94                   | 0                          |
| <b>nbrmalf</b>     | Yes         | 5.99                           | 0                      | 0.56                   | 11.21                  | 0                          |
| <b>type</b>        | No          | 0.03                           | 0                      | 0                      | 0.48                   | 0                          |
| <b>weight</b>      | Yes         | 3.71                           | 1.91                   | 0.57                   | 5.89                   | 0.45                       |
| <b>gestlength</b>  | No          | 6.96                           | 0.66                   | 7.45                   | 3.14                   | 0                          |
| <b>death_date</b>  | Yes         | 36.78                          | 0.82                   | 0                      | 57.87                  | 1.3                        |
| <b>survival</b>    | Yes         | 7.15                           | 0.35                   | 0.42                   | 29.4                   | 0                          |
| <b>whendisc</b>    | No          | 3.67                           | 0.19                   | 1.86                   | 0.13                   | 0                          |
| <b>agedisc</b>     | Yes         | 1.49                           | 0.87                   | 1.23                   | 4.09                   | 0                          |
| <b>condisc</b>     | No          | 47.3                           | 1.6                    | 100                    | 8.49                   | 0.43                       |
| <b>karyo</b>       | No          | 36.04                          | 3.39                   | 53.26                  | 3.41                   | 0.34                       |
| <b>pm</b>          | Yes         | 73.96                          | 75.92                  | 95.54                  | 42.46                  | 38.64                      |
| <b>datemo</b>      | No          | 13.48                          | 0.09                   | 0                      | 2.65                   | 0                          |
| <b>residmo</b>     | No          | 18.83                          | 1.79                   | 0                      | 7.02                   | 0                          |
| <b>agemo</b>       | No          | 1.87                           | 0.09                   | 0                      | 5.44                   | 0                          |
| <b>pre_still</b>   | No          | 99.89                          | 99.34                  | 100                    | 99.77                  | 100                        |
| <b>totpreg</b>     | No          | 41.1                           | 6.4                    | 100                    | 10.23                  | 0.26                       |
| <b>occupmo</b>     | No          | 71.66                          | 66.04                  | 100                    | 57.59                  | 1.62                       |
| <b>assconcept</b>  | No          | 48.36                          | 40.17                  | 89.45                  | 33.77                  | 0.09                       |
| <b>illbef1</b>     | No          | 46.24                          | 53.43                  | 98.81                  | 0                      | 0.34                       |
| <b>illdur1</b>     | No          | 42.56                          | 54.56                  | 100                    | 0.03                   | 0.51                       |
| <b>drugs1</b>      | No          | 84.69                          | 90.87                  | 100                    | 80.58                  | 78.13                      |
| <b>omim</b>        | No          | 63                             | 93.89                  | 0                      | 59.66                  | 99.32                      |
| <b>consang</b>     | No          | 53.03                          | 33.58                  | 65.36                  | 25.87                  | 0.51                       |
| <b>prevsib</b>     | No          | 70.2                           | 34.52                  | 100                    | 79.84                  | 1.19                       |
| <b>sib1</b>        | Yes         | 2.95                           | 4.48                   | 0                      | 0                      | 9.09                       |
| <b>sibanom</b>     | No          | 65.22                          | 34.15                  | 100                    | 70.32                  | 0.26                       |
| <b>moanom</b>      | No          | 67.26                          | 46                     | 100                    | 15.89                  | 0.43                       |
| <b>faanom</b>      | No          | 70.11                          | 48.45                  | 100                    | 15.99                  | 2.04                       |
| <b>sp_karyo</b>    | Yes         | 7.54                           | 0                      | 0.44                   | 16.62                  | 0.64                       |
| <b>sp_drugs1</b>   | Yes         | 99.2                           | 100                    | 0                      | 100                    | 99.56                      |
| <b>sp_sibanom</b>  | Yes         | 28.59                          | 10.39                  | 0                      | 0                      | 19.51                      |
| <b>sp_moanom</b>   | Yes         | 26.56                          | 4                      | 0                      | 62.65                  | 10                         |
| <b>sp_faanom</b>   | Yes         | 30.22                          | 10.53                  | 0                      | 57.89                  | 20                         |
| <b>sp_syndrome</b> | Yes         | 1.12                           | 0                      | 0                      | 0                      | 0                          |
| <b>sp_malfo1</b>   | Yes         | 1.44                           | 0                      | 0.19                   | 0                      | 0                          |
| <b>sp_malfo2</b>   | Yes         | 1.47                           | 0                      | 0.42                   | 0                      | 0                          |

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|-------------|-------------|--------------------------------|------------------------|------------------------|------------------------|----------------------------|
| sp_malfo3   | Yes         | 1.49                           | 0                      | 0                      | 0                      | 0                          |
| sp_malfo4   | Yes         | 1.25                           | 0                      | 0                      | 0                      | 0                          |
| sp_malfo5   | Yes         | 1.03                           | 0                      | 0                      | 0                      | 0                          |
| sp_malfo6   | Yes         | 1.14                           | 0                      | 1.47                   | 0                      | 0                          |
| sp_malfo7   | Yes         | 1.13                           | 0                      | 0                      | 0                      | 0                          |
| sp_malfo8   | Yes         | 0.15                           | 0                      | 0                      | 0                      | 0                          |
| civreg      | No          | 4.73                           | 0.09                   | 0                      | 1.87                   | 0                          |
| firstpre    | No          | 52.6                           | 0.28                   | 100                    | 9.14                   | 0.94                       |
| sp_firstpre | Yes         | 12.6                           | 100                    | 0                      | 50                     | 100                        |
| surgery     | No          | 47.55                          | 2.07                   | 77.44                  | 86.23                  | 14.89                      |
| folic       | No          | NaN                            | 0                      | 0                      | 0                      | 0                          |
| sp_twin     | Yes         | 94.74                          | 92.94                  | 95.58                  | 57.92                  | 96.17                      |
| sp_consang  | Yes         | 20.33                          | 40                     | 0                      | 56.45                  | 0                          |
| matedu      | No          | 75.89                          | 66.79                  | 100                    | 29.1                   | 3.4                        |
| socm        | No          | 79.01                          | 58.14                  | 100                    | 60.92                  | 12                         |
| socf        | No          | 84.11                          | 71.03                  | 100                    | 34.76                  | 12.34                      |
| migrant     | No          | 63.41                          | 40.55                  | 100                    | 50.09                  | 1.28                       |
| aetiology   | No          | 93.96                          | 29.63                  | 100                    | 100                    | 100                        |
| folic_g14   | No          | 66.18                          | 66.51                  | 80.33                  | 74.94                  | 0.85                       |
| bmi         | No          | 52.23                          | 62.75                  | 73.02                  | 22.05                  | 1.19                       |
| matdiab     | No          | 65.09                          | 58.61                  | 100                    | 10.28                  | 0.68                       |
| hba1c       | No          | 99.84                          | 99.81                  | 100                    | 100                    | 98.72                      |
| gentest     | No          | 64.94                          | 4.33                   | 100                    | 39.68                  | 1.19                       |
| sp_gentest  | Yes         | 41.42                          | 5.48                   | 0                      | 73.46                  | 22.26                      |
| firsttri    | No          | 61.4                           | 61.15                  | 100                    | 52.79                  | 2.13                       |
| presyn      | Yes         | 4.05                           | 1.6                    | 0.38                   | 1.83                   | 0.32                       |
| premal1     | Yes         | 8.8                            | 0.83                   | 3.13                   | 18.78                  | 0.1                        |
| premal2     | Yes         | 9.8                            | 0.56                   | 3.06                   | 65.57                  | 0                          |
| premal3     | Yes         | 8.83                           | 0.45                   | 2.89                   | 75.68                  | 0                          |
| premal4     | Yes         | 8.18                           | 1.91                   | 5.79                   | 73.91                  | 0                          |
| premal5     | Yes         | 7.52                           | 0.93                   | 2.34                   | 65.38                  | 0                          |
| premal6     | Yes         | 9.07                           | 0                      | 1.47                   | 76.92                  | 0                          |
| premal7     | Yes         | 9.76                           | 4.55                   | 0                      | 0                      | 0                          |
| premal8     | Yes         | 10.46                          | 6.45                   | 0                      | 0                      | 0                          |

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Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Funen (DK) | Hainaut (BE) | Isle de Reunion<br>(FR) | Malta (MT) |
|-------------|-------------|--------------------------------|------------|--------------|-------------------------|------------|
| sex         | No          | 5.05                           | 1.57       | 1.76         | 0.14                    | 0          |
| nbrbaby     | No          | 1.69                           | 0          | 0            | 0                       | 0          |
| nbrmalf     | Yes         | 5.99                           | 0          | 0            | 0                       | 100        |
| type        | No          | 0.03                           | 0          | 0.07         | 0                       | 0          |
| weight      | Yes         | 3.71                           | 0          | 3.4          | 1.14                    | 1.35       |
| gestlength  | No          | 6.96                           | 0          | 2.09         | 1.13                    | 1.2        |
| death_date  | Yes         | 36.78                          | 1.61       | 96.84        | 49.25                   | 93.34      |
| survival    | Yes         | 7.15                           | 0          | 0.26         | 0.22                    | 0          |
| whendisc    | No          | 3.67                           | 0          | 0.72         | 1.13                    | 0.45       |
| agedisc     | Yes         | 1.49                           | 0          | 2.49         | 0.35                    | 2.47       |
| condisc     | No          | 47.3                           | 0.47       | 3.39         | 0.95                    | 0          |
| karyo       | No          | 36.04                          | 0.47       | 39.23        | 3.44                    | 2.99       |
| pm          | Yes         | 73.96                          | 68.81      | 50.13        | 72.3                    | 0.6        |
| datemo      | No          | 13.48                          | 0.31       | 1.17         | 0.95                    | 0          |
| residmo     | No          | 18.83                          | 100        | 2.09         | 0.59                    | 0.15       |
| agemo       | No          | 1.87                           | 0.31       | 1.18         | 1.04                    | 0          |
| pre_still   | No          | 99.89                          | 100        | 99.15        | 100                     | 100        |
| totpreg     | No          | 41.1                           | 1.1        | 5.29         | 2.4                     | 0.15       |
| occupmo     | No          | 71.66                          | 99.84      | 99.02        | 6.84                    | 16.92      |
| assconcept  | No          | 48.36                          | 2.35       | 55.09        | 2.76                    | 0.45       |
| illbef1     | No          | 46.24                          | 0.63       | 48.3         | 2.81                    | 0.15       |
| illdur1     | No          | 42.56                          | 0.47       | 49.8         | 3.08                    | 2.25       |
| drugs1      | No          | 84.69                          | 72.88      | 87.47        | 85.97                   | 60.18      |
| omim        | No          | 63                             | 100        | 97.26        | 99.41                   | 100        |
| consang     | No          | 53.03                          | 40.13      | 55.16        | 7.56                    | 0.45       |
| prevsib     | No          | 70.2                           | 0.78       | 98.63        | 3.21                    | 0.15       |
| sib1        | Yes         | 2.95                           | 0          | 5.88         | 0                       | 0          |
| sibanom     | No          | 65.22                          | 0.16       | 89.3         | 2.9                     | 0.15       |
| moanom      | No          | 67.26                          | 0.31       | 92.62        | 2.9                     | 0.15       |
| faanom      | No          | 70.11                          | 1.72       | 95.04        | 4.03                    | 0.15       |
| sp_karyo    | Yes         | 7.54                           | 1.65       | 29.63        | 0.11                    | 16.92      |
| sp_drugs1   | Yes         | 99.2                           | 100        | 99.85        | 99.95                   | 100        |
| sp_sibanom  | Yes         | 28.59                          | 34.38      | 7.79         | 18.5                    | 0          |
| sp_moanom   | Yes         | 26.56                          | 0          | 4.26         | 2.15                    | 7.14       |
| sp_faanom   | Yes         | 30.22                          | 4.55       | 3.64         | 5.8                     | 0          |
| sp_syndrome | Yes         | 1.12                           | 0          | 0            | 0                       | 0          |
| sp_malfo1   | Yes         | 1.44                           | 0          | 0            | 0                       | 0          |
| sp_malfo2   | Yes         | 1.47                           | 0          | 0            | 0                       | 0          |

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| Variable    | Conditional | All full members<br>registries | Funen (DK) | Hainaut (BE) | Isle de Reunion<br>(FR) | Malta (MT) |
|-------------|-------------|--------------------------------|------------|--------------|-------------------------|------------|
| sp_malfo3   | Yes         | 1.49                           | 0          | 0            | 0                       | 0          |
| sp_malfo4   | Yes         | 1.25                           | 0          | 0            | 0                       | 0          |
| sp_malfo5   | Yes         | 1.03                           | 0          | 0            | 0                       | 0          |
| sp_malfo6   | Yes         | 1.14                           | 0          | 0            | 0                       | 0          |
| sp_malfo7   | Yes         | 1.13                           | 0          | 0            | 0                       | 0          |
| sp_malfo8   | Yes         | 0.15                           | 0          | 0            | 0                       | 0          |
| civreg      | No          | 4.73                           | 0.16       | 0.52         | 0                       | 0.15       |
| firstpre    | No          | 52.6                           | 0.47       | 39.49        | 46.04                   | 1.8        |
| sp_firstpre | Yes         | 12.6                           | 0          | 0            | 0                       | 0          |
| surgery     | No          | 47.55                          | 4.23       | 3.92         | 15.89                   | 2.4        |
| folic       | No          | NaN                            | 0          | 0            | 0                       | 0          |
| sp_twin     | Yes         | 94.74                          | 95.92      | 96.21        | 96.38                   | 96.71      |
| sp_consang  | Yes         | 20.33                          | 44.44      | 66.67        | 0                       | 0          |
| matedu      | No          | 75.89                          | 100        | 99.74        | 12.4                    | 5.99       |
| socm        | No          | 79.01                          | 100        | 99.35        | 59.39                   | 100        |
| socf        | No          | 84.11                          | 100        | 99.61        | 36.49                   | 100        |
| migrant     | No          | 63.41                          | 0.47       | 94.13        | 3.4                     | 0.9        |
| aetiology   | No          | 93.96                          | 100        | 100          | 99.91                   | 100        |
| folic_g14   | No          | 66.18                          | 58.31      | 99.87        | 12                      | 2.84       |
| bmi         | No          | 52.23                          | 3.45       | 99.93        | 4.75                    | 39.37      |
| matdiab     | No          | 65.09                          | 1.41       | 54.7         | 3.12                    | 0.45       |
| hba1c       | No          | 99.84                          | 100        | 100          | 97.87                   | 99.25      |
| gentest     | No          | 64.94                          | 89.97      | 45.17        | 4.07                    | 3.59       |
| sp_gentest  | Yes         | 41.42                          | 51.79      | 21.96        | 6.37                    | 34.67      |
| firsttri    | No          | 61.4                           | 1.41       | 99.15        | 8.96                    | 1.35       |
| presyn      | Yes         | 4.05                           | 0          | 1.01         | 0                       | 2.25       |
| premal1     | Yes         | 8.8                            | 0.36       | 1.28         | 0.35                    | 0.46       |
| premal2     | Yes         | 9.8                            | 0          | 0.96         | 0.32                    | 0.45       |
| premal3     | Yes         | 8.83                           | 1.82       | 2.19         | 0.68                    | 1.28       |
| premal4     | Yes         | 8.18                           | 0          | 2.63         | 0.72                    | 0          |
| premal5     | Yes         | 7.52                           | 0          | 2.5          | 0                       | 0          |
| premal6     | Yes         | 9.07                           | 0          | 5.26         | 0                       | 0          |
| premal7     | Yes         | 9.76                           | 0          | 0            | 5.88                    | 0          |
| premal8     | Yes         | 10.46                          | 0          | 0            | 14.29                   | 0          |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Metropolitan<br>Area Milan (IT) | N England (UK) | N Netherlands<br>(NL) | Navarra (ES) |
|-------------|-------------|--------------------------------|---------------------------------|----------------|-----------------------|--------------|
| sex         | No          | 5.05                           | 3.15                            | 6.38           | 0.2                   | 1.21         |
| nbrbaby     | No          | 1.69                           | 0.03                            | 0.66           | 0                     | 0            |
| nbrmalf     | Yes         | 5.99                           | 0                               | 5.94           | 4.63                  | 0            |
| type        | No          | 0.03                           | 0                               | 0              | 0                     | 0            |
| weight      | Yes         | 3.71                           | 2.25                            | 5.85           | 10.57                 | 2.05         |
| gestlength  | No          | 6.96                           | 1.72                            | 20.9           | 5.8                   | 0            |
| death_date  | Yes         | 36.78                          | 65.64                           | 0              | 0                     | 96.45        |
| survival    | Yes         | 7.15                           | 0.04                            | 0.86           | 0                     | 0            |
| whendisc    | No          | 3.67                           | 1.1                             | 2.16           | 2.9                   | 0.4          |
| agedisc     | Yes         | 1.49                           | 0.34                            | 2.7            | 0.74                  | 0            |
| condisc     | No          | 47.3                           | 0.19                            | 100            | 3.27                  | 2.02         |
| karyo       | No          | 36.04                          | 15.44                           | 70.15          | 0.78                  | 0.81         |
| pm          | Yes         | 73.96                          | 81.17                           | 92.16          | 3.11                  | 31.58        |
| datemo      | No          | 13.48                          | 2.04                            | 0              | 8.21                  | 0.4          |
| residmo     | No          | 18.83                          | 0                               | 0              | 45.57                 | 0.4          |
| agemo       | No          | 1.87                           | 0.97                            | 0              | 8.22                  | 0.4          |
| pre_still   | No          | 99.89                          | 100                             | 100            | 100                   | 100          |
| totpreg     | No          | 41.1                           | 4.92                            | 100            | 47.9                  | 0.81         |
| occupmo     | No          | 71.66                          | 35.3                            | 100            | 55.66                 | 99.6         |
| assconcept  | No          | 48.36                          | 4.01                            | 73.42          | 51.82                 | 0.81         |
| illbef1     | No          | 46.24                          | 0.08                            | 98.92          | 0                     | 6.07         |
| illdur1     | No          | 42.56                          | 0.16                            | 100            | 0.08                  | 4.05         |
| drugs1      | No          | 84.69                          | 80.71                           | 100            | 62.93                 | 100          |
| omim        | No          | 63                             | 100                             | 0              | 87.74                 | 87.85        |
| consang     | No          | 53.03                          | 6.08                            | 64.93          | 99.75                 | 1.21         |
| prevsib     | No          | 70.2                           | 27.82                           | 100            | 64.45                 | 4.05         |
| sib1        | Yes         | 2.95                           | 0                               | 0              | 28.57                 | 6.67         |
| sibanom     | No          | 65.22                          | 4.33                            | 100            | 60.03                 | 1.21         |
| moanom      | No          | 67.26                          | 6.65                            | 100            | 52.76                 | 2.02         |
| faanom      | No          | 70.11                          | 16.12                           | 100            | 54.39                 | 3.24         |
| sp_karyo    | Yes         | 7.54                           | 0.15                            | 1.08           | 0                     | 0            |
| sp_drugs1   | Yes         | 99.2                           | 99.97                           | 0              | 99.87                 | 100          |
| sp_sibanom  | Yes         | 28.59                          | 0                               | 0              | 100                   | 68.42        |
| sp_moanom   | Yes         | 26.56                          | 0                               | 0              | 100                   | 7.14         |
| sp_faanom   | Yes         | 30.22                          | 0                               | 0              | 100                   | 0            |
| sp_syndrome | Yes         | 1.12                           | 0                               | 0              | 0                     | 0            |
| sp_malfo1   | Yes         | 1.44                           | 0                               | 0              | 0                     | 0            |
| sp_malfo2   | Yes         | 1.47                           | 0                               | 0.14           | 0                     | 0            |

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Metropolitan<br>Area Milan (IT) | N England (UK) | N Netherlands<br>(NL) | Navarra (ES) |
|-------------|-------------|--------------------------------|---------------------------------|----------------|-----------------------|--------------|
| sp_malfo3   | Yes         | 1.49                           | 0                               | 0              | 0                     | 0            |
| sp_malfo4   | Yes         | 1.25                           | 0                               | 0              | 0                     | 0            |
| sp_malfo5   | Yes         | 1.03                           | 0                               | 0              | 0                     | 0            |
| sp_malfo6   | Yes         | 1.14                           | 0                               | 0              | 0                     | 0            |
| sp_malfo7   | Yes         | 1.13                           | 0                               | 0              | 0                     | 0            |
| sp_malfo8   | Yes         | 0.15                           | 0                               | 0              | 0                     | 0            |
| civreg      | No          | 4.73                           | 0.03                            | 0              | 0                     | 0            |
| firstpre    | No          | 52.6                           | 44.23                           | 100            | 34.9                  | 5.26         |
| sp_firstpre | Yes         | 12.6                           | 0                               | 0              | 0                     | 0            |
| surgery     | No          | 47.55                          | 29.67                           | 70.11          | 26.93                 | 2.83         |
| folic       | No          | NaN                            | 0                               | 0              | 0                     | 0            |
| sp_twin     | Yes         | 94.74                          | 95.43                           | 95.61          | 95.46                 | 94.74        |
| sp_consang  | Yes         | 20.33                          | 0                               | 0              | 100                   | 100          |
| matedu      | No          | 75.89                          | 45.57                           | 100            | 53.58                 | 100          |
| socm        | No          | 79.01                          | 50.9                            | 100            | 100                   | 99.6         |
| socf        | No          | 84.11                          | 67.2                            | 100            | 100                   | 100          |
| migrant     | No          | 63.41                          | 1.83                            | 100            | 100                   | 8.5          |
| aetiology   | No          | 93.96                          | 100                             | 100            | 100                   | 100          |
| folic_g14   | No          | 66.18                          | 35.3                            | 68.37          | 49.53                 | 36.44        |
| bmi         | No          | 52.23                          | 14.64                           | 58.17          | 49.69                 | 2.83         |
| matdiab     | No          | 65.09                          | 4.55                            | 100            | 51.33                 | 2.02         |
| hba1c       | No          | 99.84                          | 99.19                           | 100            | 100                   | 97.17        |
| gentest     | No          | 64.94                          | 40.19                           | 100            | 0                     | 2.83         |
| sp_gentest  | Yes         | 41.42                          | 0.41                            | 0              | 100                   | 14.89        |
| firsttri    | No          | 61.4                           | 7.29                            | 100            | 45.69                 | 100          |
| presyn      | Yes         | 4.05                           | 13.38                           | 0              | 0.6                   | 0.88         |
| premal1     | Yes         | 8.8                            | 48.62                           | 2.79           | 0.9                   | 0            |
| premal2     | Yes         | 9.8                            | 34.88                           | 1.24           | 0.97                  | 0            |
| premal3     | Yes         | 8.83                           | 23.6                            | 0.31           | 0.8                   | 0            |
| premal4     | Yes         | 8.18                           | 18.05                           | 0              | 0.25                  | 0            |
| premal5     | Yes         | 7.52                           | 14.1                            | 0              | 0                     | 0            |
| premal6     | Yes         | 9.07                           | 13.33                           | 0              | 0.66                  | 0            |
| premal7     | Yes         | 9.76                           | 5.88                            | 0              | 0                     | 0            |
| premal8     | Yes         | 10.46                          | 9.09                            | 0              | 0                     | 0            |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | North West<br>England (UK) | Paris (FR) | Pleven (BG) | Rhone-Alps (FR) |
|-------------|-------------|--------------------------------|----------------------------|------------|-------------|-----------------|
| sex         | No          | 5.05                           | 5.45                       | 0.87       | 10.62       | 0.43            |
| nbrbaby     | No          | 1.69                           | 0.83                       | 0          | 0           | 0               |
| nbrmalf     | Yes         | 5.99                           | 8.4                        | 3.25       | 0           | 0               |
| type        | No          | 0.03                           | 0                          | 0          | 0           | 0               |
| weight      | Yes         | 3.71                           | 2.25                       | 0.04       | 1.89        | 7.06            |
| gestlength  | No          | 6.96                           | 17.83                      | 0.05       | 3.54        | 4.25            |
| death_date  | Yes         | 36.78                          | 0                          | 20.6       | 91.39       | 44.59           |
| survival    | Yes         | 7.15                           | 0.61                       | 0.08       | 0           | 0               |
| whendisc    | No          | 3.67                           | 2.35                       | 0.47       | 0.44        | 0.43            |
| agedisc     | Yes         | 1.49                           | 3.38                       | 0          | 2.17        | 1.97            |
| condisc     | No          | 47.3                           | 100                        | 100        | 73.89       | 8.61            |
| karyo       | No          | 36.04                          | 54.43                      | 0.5        | 87.17       | 46.12           |
| pm          | Yes         | 73.96                          | 95.14                      | 100        | 97.79       | 75.78           |
| datemo      | No          | 13.48                          | 0                          | 0          | 94.25       | 0               |
| residmo     | No          | 18.83                          | 0                          | 0          | 100         | 0               |
| agemo       | No          | 1.87                           | 0                          | 0          | 4.87        | 3.82            |
| pre_still   | No          | 99.89                          | 100                        | 100        | 100         | 100             |
| totpreg     | No          | 41.1                           | 100                        | 0.21       | 100         | 10.01           |
| occupmo     | No          | 71.66                          | 100                        | 100        | 100         | 32.45           |
| assconcept  | No          | 48.36                          | 93.12                      | 0.74       | 97.79       | 3.82            |
| illbef1     | No          | 46.24                          | 98.92                      | 0          | 100         | 54.25           |
| illdur1     | No          | 42.56                          | 100                        | 0          | 100         | 54.2            |
| drugs1      | No          | 84.69                          | 100                        | 83.61      | 100         | 76.7            |
| omim        | No          | 63                             | 0                          | 97.08      | 97.79       | 100             |
| consang     | No          | 53.03                          | 72.49                      | 1.03       | 100         | 6.89            |
| prevsib     | No          | 70.2                           | 100                        | 99.39      | 99.56       | 96.23           |
| sib1        | Yes         | 2.95                           | 0                          | 60.87      | 0           | 0               |
| sibanom     | No          | 65.22                          | 100                        | 100        | 99.12       | 55.38           |
| moanom      | No          | 67.26                          | 100                        | 100        | 100         | 6.94            |
| faanom      | No          | 70.11                          | 100                        | 100        | 100         | 7               |
| sp_karyo    | Yes         | 7.54                           | 0.76                       | 50.94      | 0           | 0               |
| sp_drugs1   | Yes         | 99.2                           | 0                          | 100        | 99.12       | 100             |
| sp_sibanom  | Yes         | 28.59                          | 0                          | 0          | 50          | 0               |
| sp_moanom   | Yes         | 26.56                          | 0                          | 0          | 0           | 0               |
| sp_faanom   | Yes         | 30.22                          | 0                          | 0          | 0           | 0               |
| sp_syndrome | Yes         | 1.12                           | 0                          | 0          | 0.44        | 45.03           |
| sp_malfo1   | Yes         | 1.44                           | 0.03                       | 0.06       | 0           | 63.49           |
| sp_malfo2   | Yes         | 1.47                           | 0.1                        | 0.09       | 0           | 52.36           |

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | North West<br>England (UK) | Paris (FR) | Pleven (BG) | Rhone-Alps (FR) |
|-------------|-------------|--------------------------------|----------------------------|------------|-------------|-----------------|
| sp_malfo3   | Yes         | 1.49                           | 0.12                       | 0          | 0           | 46.82           |
| sp_malfo4   | Yes         | 1.25                           | 0                          | 0          | 0           | 36.49           |
| sp_malfo5   | Yes         | 1.03                           | 0                          | 0          | 0           | 26.95           |
| sp_malfo6   | Yes         | 1.14                           | 0                          | 1.43       | 0           | 24.72           |
| sp_malfo7   | Yes         | 1.13                           | 0                          | 0          | 0           | 21.05           |
| sp_malfo8   | Yes         | 0.15                           | 0                          | 0          | 0           | 3.23            |
| civreg      | No          | 4.73                           | 0                          | 0          | 0           | 61.89           |
| firstpre    | No          | 52.6                           | 100                        | 0.21       | 58.85       | 40.15           |
| sp_firstpre | Yes         | 12.6                           | 0                          | 5.88       | 0           | 0               |
| surgery     | No          | 47.55                          | 73.66                      | 44.94      | 41.15       | 63.94           |
| folic       | No          | NaN                            | 0                          | 0          | 0           | 0               |
| sp_twin     | Yes         | 94.74                          | 96.17                      | 100        | 99.12       | 95.05           |
| sp_consang  | Yes         | 20.33                          | 0                          | 100        | 0           | 0               |
| matedu      | No          | 75.89                          | 100                        | 100        | 100         | 65.88           |
| socm        | No          | 79.01                          | 100                        | 7.6        | 100         | 100             |
| socf        | No          | 84.11                          | 100                        | 100        | 100         | 100             |
| migrant     | No          | 63.41                          | 100                        | 100        | 100         | 100             |
| aetiology   | No          | 93.96                          | 100                        | 100        | 100         | 100             |
| folic_g14   | No          | 66.18                          | 84.51                      | 100        | 100         | 100             |
| bmi         | No          | 52.23                          | 74.57                      | 48.86      | 100         | 18.03           |
| matdiab     | No          | 65.09                          | 100                        | 100        | 98.67       | 13.56           |
| hba1c       | No          | 99.84                          | 100                        | 100        | 99.56       | 100             |
| gentest     | No          | 64.94                          | 100                        | 100        | 96.02       | 67.92           |
| sp_gentest  | Yes         | 41.42                          | 0                          | 0          | 12.5        | 0               |
| firsttri    | No          | 61.4                           | 100                        | 9.34       | 100         | 11.73           |
| presyn      | Yes         | 4.05                           | 0.1                        | 0.09       | 75.66       | 0               |
| premal1     | Yes         | 8.8                            | 2.78                       | 0.54       | 80.28       | 0.61            |
| premal2     | Yes         | 9.8                            | 1.04                       | 0.56       | 82.35       | 0.67            |
| premal3     | Yes         | 8.83                           | 0.48                       | 0.96       | 88.89       | 0               |
| premal4     | Yes         | 8.18                           | 0.25                       | 0.36       | 81.82       | 0.45            |
| premal5     | Yes         | 7.52                           | 0.85                       | 0.58       | 100         | 0               |
| premal6     | Yes         | 9.07                           | 0                          | 0          | 100         | 0               |
| premal7     | Yes         | 9.76                           | 1.18                       | 0          | 0           | 0               |
| premal8     | Yes         | 10.46                          | 0                          | 0          | 0           | 0               |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members registries | S Portugal (PT) | Saxony Anhalt (DE) | SE Ireland (IE) | South West England (UK) |
|-------------|-------------|-----------------------------|-----------------|--------------------|-----------------|-------------------------|
| sex         | No          | 5.05                        | 1.48            | 2.5                | 0.69            | 6.78                    |
| nbrbaby     | No          | 1.69                        | 0               | 0.21               | 0               | 0.7                     |
| nbrmalf     | Yes         | 5.99                        | 0               | 0                  | 100             | 8.46                    |
| type        | No          | 0.03                        | 0               | 0                  | 0               | 0                       |
| weight      | Yes         | 3.71                        | 2.82            | 1.86               | 0               | 1.88                    |
| gestlength  | No          | 6.96                        | 7.2             | 1.13               | 0.35            | 14.57                   |
| death_date  | Yes         | 36.78                       | 98.56           | 0.1                | 100             | 0                       |
| survival    | Yes         | 7.15                        | 0.72            | 0.1                | 0.35            | 0.43                    |
| whendisc    | No          | 3.67                        | 0.55            | 0.38               | 95.49           | 2.02                    |
| agedisc     | Yes         | 1.49                        | 11.07           | 0.66               | 0               | 1.79                    |
| condisc     | No          | 47.3                        | 0               | 1.29               | 100             | 100                     |
| karyo       | No          | 36.04                       | 2.4             | 75.39              | 100             | 52.55                   |
| pm          | Yes         | 73.96                       | 81.18           | 10.6               | 100             | 93.67                   |
| datemo      | No          | 13.48                       | 2.77            | 0.96               | 100             | 0                       |
| residmo     | No          | 18.83                       | 10.15           | 0                  | 100             | 0                       |
| agemo       | No          | 1.87                        | 2.77            | 0.96               | 0.35            | 0                       |
| pre_still   | No          | 99.89                       | 100             | 100                | 100             | 100                     |
| totpreg     | No          | 41.1                        | 5.9             | 0                  | 100             | 100                     |
| occupmo     | No          | 71.66                       | 34.5            | 100                | 100             | 100                     |
| assconcept  | No          | 48.36                       | 3.69            | 96.87              | 100             | 72.14                   |
| illbef1     | No          | 46.24                       | 0.18            | 0.17               | 100             | 98.51                   |
| illdur1     | No          | 42.56                       | 0               | 0                  | 100             | 100                     |
| drugs1      | No          | 84.69                       | 94.83           | 79.22              | 100             | 100                     |
| omim        | No          | 63                          | 99.82           | 100                | 100             | 0                       |
| consang     | No          | 53.03                       | 10.33           | 85.4               | 100             | 62.25                   |
| prevsib     | No          | 70.2                        | 99.45           | 99.25              | 100             | 100                     |
| sib1        | Yes         | 2.95                        | 0               | 0                  | 0               | 0                       |
| sibanom     | No          | 65.22                       | 97.23           | 93.45              | 100             | 100                     |
| moanom      | No          | 67.26                       | 81.18           | 88.86              | 100             | 100                     |
| faanom      | No          | 70.11                       | 81.37           | 95.7               | 100             | 100                     |
| sp_karyo    | Yes         | 7.54                        | 3.09            | 0                  | 0               | 0.75                    |
| sp_drugs1   | Yes         | 99.2                        | 100             | 100                | 100             | 0                       |
| sp_sibanom  | Yes         | 28.59                       | 28.57           | 0                  | 0               | 0                       |
| sp_moanom   | Yes         | 26.56                       | 0               | 0                  | 0               | 0                       |
| sp_faanom   | Yes         | 30.22                       | 0               | 0                  | 0               | 0                       |
| sp_syndrome | Yes         | 1.12                        | 0               | 0                  | 0               | 0                       |
| sp_malfo1   | Yes         | 1.44                        | 0.74            | 0                  | 22.73           | 0                       |
| sp_malfo2   | Yes         | 1.47                        | 0.62            | 0                  | 18.92           | 0                       |

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | S Portugal (PT) | Saxony Anhalt<br>(DE) | SE Ireland (IE) | South West<br>England (UK) |
|-------------|-------------|--------------------------------|-----------------|-----------------------|-----------------|----------------------------|
| sp_malfo3   | Yes         | 1.49                           | 0               | 0                     | 21.74           | 0                          |
| sp_malfo4   | Yes         | 1.25                           | 0               | 0                     | 27.27           | 0                          |
| sp_malfo5   | Yes         | 1.03                           | 0               | 0                     | 25              | 0                          |
| sp_malfo6   | Yes         | 1.14                           | 0               | 0                     | 0               | 0                          |
| sp_malfo7   | Yes         | 1.13                           | 0               | 0                     | 0               | 0                          |
| sp_malfo8   | Yes         | 0.15                           | 0               | 0                     | 0               | 0                          |
| civreg      | No          | 4.73                           | 0               | 0.04                  | 0               | 0                          |
| firstpre    | No          | 52.6                           | 2.21            | 0                     | 100             | 100                        |
| sp_firstpre | Yes         | 12.6                           | 0               | 0                     | 0               | 0                          |
| surgery     | No          | 47.55                          | 56.46           | 13.14                 | 96.18           | 77.02                      |
| folic       | No          | NaN                            | 0               | 0                     | 0               | 0                          |
| sp_twin     | Yes         | 94.74                          | 97.05           | 95.12                 | 100             | 95.96                      |
| sp_consang  | Yes         | 20.33                          | 15.79           | 0                     | 0               | 0                          |
| matedu      | No          | 75.89                          | 100             | 100                   | 100             | 100                        |
| socm        | No          | 79.01                          | 100             | 100                   | 100             | 100                        |
| socf        | No          | 84.11                          | 100             | 100                   | 100             | 100                        |
| migrant     | No          | 63.41                          | 80.81           | 0                     | 100             | 100                        |
| aetiology   | No          | 93.96                          | 100             | 100                   | 100             | 100                        |
| folic_g14   | No          | 66.18                          | 32.84           | 57.24                 | 100             | 75.39                      |
| bmi         | No          | 52.23                          | 100             | 67.04                 | 100             | 47.09                      |
| matdiab     | No          | 65.09                          | 1.85            | 91.36                 | 100             | 100                        |
| hba1c       | No          | 99.84                          | 100             | 100                   | 100             | 100                        |
| gentest     | No          | 64.94                          | 77.68           | 76.22                 | 100             | 100                        |
| sp_gentest  | Yes         | 41.42                          | 3.23            | 100                   | 0               | 0                          |
| firsttri    | No          | 61.4                           | 25.65           | 57.24                 | 100             | 100                        |
| presyn      | Yes         | 4.05                           | 22.22           | 8.64                  | 100             | 0.6                        |
| premal1     | Yes         | 8.8                            | 16.36           | 26.89                 | 100             | 3.23                       |
| premal2     | Yes         | 9.8                            | 26.71           | 44.62                 | 100             | 4.03                       |
| premal3     | Yes         | 8.83                           | 25              | 50.92                 | 100             | 3.58                       |
| premal4     | Yes         | 8.18                           | 9.09            | 57.55                 | 100             | 4.44                       |
| premal5     | Yes         | 7.52                           | 20              | 67.39                 | 100             | 3.68                       |
| premal6     | Yes         | 9.07                           | 0               | 75.9                  | 100             | 5.1                        |
| premal7     | Yes         | 9.76                           | 16.67           | 73.58                 | 0               | 6.25                       |
| premal8     | Yes         | 10.46                          | 0               | 74.19                 | 0               | 2.78                       |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable           | Conditional | All full members<br>registries | Styria (AT) | Thames Valley<br>(UK) | Trento (IT) | Tuscany (IT) |
|--------------------|-------------|--------------------------------|-------------|-----------------------|-------------|--------------|
| <b>sex</b>         | No          | 5.05                           | 6.33        | 7.06                  | 2.31        | 6.14         |
| <b>nbrbaby</b>     | No          | 1.69                           | 0.23        | 2.71                  | 0           | 0.06         |
| <b>nbrmalf</b>     | Yes         | 5.99                           | 0           | 8.97                  | 100         | 0            |
| <b>type</b>        | No          | 0.03                           | 0           | 0                     | 0           | 0            |
| <b>weight</b>      | Yes         | 3.71                           | 4.68        | 2.79                  | 0.24        | 4.46         |
| <b>gestlength</b>  | No          | 6.96                           | 3.28        | 23.83                 | 1.65        | 1.53         |
| <b>death_date</b>  | Yes         | 36.78                          | 96.62       | 0                     | 100         | 98.62        |
| <b>survival</b>    | Yes         | 7.15                           | 0.15        | 2.48                  | 0           | 2.22         |
| <b>whendisc</b>    | No          | 3.67                           | 0.82        | 7.28                  | 0           | 0.92         |
| <b>agedisc</b>     | Yes         | 1.49                           | 2.23        | 1.7                   | 2.45        | 1.62         |
| <b>condisc</b>     | No          | 47.3                           | 88.28       | 100                   | 100         | 2.42         |
| <b>karyo</b>       | No          | 36.04                          | 75.5        | 60.54                 | 100         | 43.24        |
| <b>pm</b>          | Yes         | 73.96                          | 95.66       | 96.4                  | 100         | 23.32        |
| <b>datemo</b>      | No          | 13.48                          | 0.82        | 0                     | 100         | 7.45         |
| <b>residmo</b>     | No          | 18.83                          | 100         | 0                     | 100         | 0.03         |
| <b>agemo</b>       | No          | 1.87                           | 0.12        | 0                     | 0           | 4.69         |
| <b>pre_still</b>   | No          | 99.89                          | 100         | 100                   | 100         | 100          |
| <b>totpreg</b>     | No          | 41.1                           | 100         | 100                   | 100         | 4.04         |
| <b>occupmo</b>     | No          | 71.66                          | 100         | 100                   | 100         | 46.58        |
| <b>assconcept</b>  | No          | 48.36                          | 100         | 85.53                 | 100         | 31.5         |
| <b>illbef1</b>     | No          | 46.24                          | 100         | 98.93                 | 100         | 26.79        |
| <b>illdur1</b>     | No          | 42.56                          | 100         | 100                   | 100         | 24.88        |
| <b>drugs1</b>      | No          | 84.69                          | 100         | 100                   | 100         | 83.42        |
| <b>omim</b>        | No          | 63                             | 100         | 0                     | 100         | 100          |
| <b>consang</b>     | No          | 53.03                          | 99.88       | 65.07                 | 100         | 39.45        |
| <b>prevsib</b>     | No          | 70.2                           | 98.24       | 100                   | 100         | 84.95        |
| <b>sib1</b>        | Yes         | 2.95                           | 28.57       | 0                     | 0           | 0            |
| <b>sibanom</b>     | No          | 65.22                          | 99.3        | 100                   | 100         | 46.83        |
| <b>moanom</b>      | No          | 67.26                          | 100         | 100                   | 100         | 48.46        |
| <b>faanom</b>      | No          | 70.11                          | 100         | 100                   | 100         | 52.75        |
| <b>sp_karyo</b>    | Yes         | 7.54                           | 31.11       | 1.36                  | 0           | 11.34        |
| <b>sp_drugs1</b>   | Yes         | 99.2                           | 100         | 0                     | 100         | 99.62        |
| <b>sp_sibanom</b>  | Yes         | 28.59                          | 83.33       | 0                     | 0           | 50.43        |
| <b>sp_moanom</b>   | Yes         | 26.56                          | 0           | 0                     | 0           | 30           |
| <b>sp_faanom</b>   | Yes         | 30.22                          | 0           | 0                     | 0           | 41.94        |
| <b>sp_syndrome</b> | Yes         | 1.12                           | 0           | 0                     | 0           | 0            |
| <b>sp_malfo1</b>   | Yes         | 1.44                           | 0.14        | 0.3                   | 0.17        | 0            |
| <b>sp_malfo2</b>   | Yes         | 1.47                           | 0.36        | 0.15                  | 0           | 0.14         |

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Styria (AT) | Thames Valley<br>(UK) | Trento (IT) | Tuscany (IT) |
|-------------|-------------|--------------------------------|-------------|-----------------------|-------------|--------------|
| sp_malfo3   | Yes         | 1.49                           | 1.02        | 0                     | 0           | 0            |
| sp_malfo4   | Yes         | 1.25                           | 0           | 0                     | 0           | 0            |
| sp_malfo5   | Yes         | 1.03                           | 0           | 0                     | 0           | 1.54         |
| sp_malfo6   | Yes         | 1.14                           | 0           | 0                     | 0           | 0            |
| sp_malfo7   | Yes         | 1.13                           | 0           | 0                     | 0           | 0            |
| sp_malfo8   | Yes         | 0.15                           | 0           | 0                     | 0           | 0            |
| civreg      | No          | 4.73                           | 0.47        | 0                     | 0           | 0.03         |
| firstpre    | No          | 52.6                           | 56.39       | 100                   | 100         | 54.88        |
| sp_firstpre | Yes         | 12.6                           | 100         | 0                     | 0           | 15.13        |
| surgery     | No          | 47.55                          | 1.99        | 84.07                 | 32.67       | 50.81        |
| folic       | No          | NaN                            | 0           | 0                     | 0           | 0            |
| sp_twin     | Yes         | 94.74                          | 95.55       | 96.05                 | 100         | 97.61        |
| sp_consang  | Yes         | 20.33                          | 100         | 0                     | 0           | 12.5         |
| matedu      | No          | 75.89                          | 100         | 100                   | 100         | 54.28        |
| socm        | No          | 79.01                          | 100         | 100                   | 100         | 99.9         |
| socf        | No          | 84.11                          | 100         | 100                   | 100         | 99.97        |
| migrant     | No          | 63.41                          | 100         | 100                   | 100         | 63.76        |
| aetiology   | No          | 93.96                          | 100         | 100                   | 100         | 100          |
| folic_g14   | No          | 66.18                          | 100         | 72.21                 | 100         | 56.95        |
| bmi         | No          | 52.23                          | 100         | 50.42                 | 36.47       | 74.93        |
| matdiab     | No          | 65.09                          | 100         | 100                   | 100         | 39.13        |
| hba1c       | No          | 99.84                          | 100         | 100                   | 100         | 100          |
| gentest     | No          | 64.94                          | 84.76       | 100                   | 100         | 62.84        |
| sp_gentest  | Yes         | 41.42                          | 36.96       | 0                     | 0           | 37.54        |
| firsttri    | No          | 61.4                           | 100         | 100                   | 100         | 45.18        |
| presyn      | Yes         | 4.05                           | 9.95        | 2.01                  | 100         | 1.8          |
| premal1     | Yes         | 8.8                            | 7.53        | 10.29                 | 100         | 7.24         |
| premal2     | Yes         | 9.8                            | 6.79        | 7.6                   | 100         | 12.03        |
| premal3     | Yes         | 8.83                           | 7.14        | 11.78                 | 100         | 11.95        |
| premal4     | Yes         | 8.18                           | 6.25        | 7.75                  | 100         | 11.11        |
| premal5     | Yes         | 7.52                           | 5.88        | 11.69                 | 0           | 18.46        |
| premal6     | Yes         | 9.07                           | 0           | 15.91                 | 0           | 11.76        |
| premal7     | Yes         | 9.76                           | 0           | 7.69                  | 0           | 5.88         |
| premal8     | Yes         | 10.46                          | 0           | 6.67                  | 0           | 8.33         |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable           | Conditional | All full members<br>registries | Ukraine (UA) | Valencian<br>Region (ES) | Vaud (CH) | Wales (UK) |
|--------------------|-------------|--------------------------------|--------------|--------------------------|-----------|------------|
| <b>sex</b>         | No          | 5.05                           | 2.93         | 26.47                    | 1.97      | 8.88       |
| <b>nbrbaby</b>     | No          | 1.69                           | 0            | 0.14                     | 0         | 0          |
| <b>nbrmalf</b>     | Yes         | 5.99                           | 0            | 0                        | 0         | 0          |
| <b>type</b>        | No          | 0.03                           | 0            | 0                        | 0.07      | 0          |
| <b>weight</b>      | Yes         | 3.71                           | 1.31         | 0.06                     | 1.58      | 5.06       |
| <b>gestlength</b>  | No          | 6.96                           | 1.27         | 0                        | 0.42      | 0.87       |
| <b>death_date</b>  | Yes         | 36.78                          | 4.59         | 0                        | 97.93     | 94.39      |
| <b>survival</b>    | Yes         | 7.15                           | 0.35         | 0                        | 0         | 0          |
| <b>whendisc</b>    | No          | 3.67                           | 0.64         | 0                        | 0.21      | 0.03       |
| <b>agedisc</b>     | Yes         | 1.49                           | 0.85         | 0                        | 0.46      | 0.3        |
| <b>condisc</b>     | No          | 47.3                           | 2.04         | 0.07                     | 1.55      | 0          |
| <b>karyo</b>       | No          | 36.04                          | 0.81         | 57.77                    | 0.49      | 13.75      |
| <b>pm</b>          | Yes         | 73.96                          | 84.53        | 95.69                    | 88.59     | 20.81      |
| <b>datemo</b>      | No          | 13.48                          | 0.89         | 0.11                     | 0.99      | 80.14      |
| <b>residmo</b>     | No          | 18.83                          | 0.25         | 0                        | 0.42      | 100        |
| <b>agemo</b>       | No          | 1.87                           | 0.85         | 0.11                     | 1.13      | 0.05       |
| <b>pre_still</b>   | No          | 99.89                          | 100          | 99.07                    | 99.3      | 100        |
| <b>totpreg</b>     | No          | 41.1                           | 1.78         | 7.49                     | 1.41      | 12.45      |
| <b>occupmo</b>     | No          | 71.66                          | 3.44         | 34.01                    | 25.63     | 84.14      |
| <b>assconcept</b>  | No          | 48.36                          | 4.89         | 46.6                     | 1.62      | 27.07      |
| <b>illbef1</b>     | No          | 46.24                          | 0.42         | 0                        | 9.3       | 0          |
| <b>illdur1</b>     | No          | 42.56                          | 0.47         | 0                        | 1.34      | 0          |
| <b>drugs1</b>      | No          | 84.69                          | 89.8         | 39.88                    | 80.28     | 69.9       |
| <b>omim</b>        | No          | 63                             | 98.98        | 99.59                    | 96.76     | 79.8       |
| <b>consang</b>     | No          | 53.03                          | 28.35        | 73.5                     | 1.69      | 83.89      |
| <b>prevsib</b>     | No          | 70.2                           | 1.15         | 95.22                    | 2.75      | 13.93      |
| <b>sib1</b>        | Yes         | 2.95                           | 1.98         | 0                        | 5.19      | 0.45       |
| <b>sibanom</b>     | No          | 65.22                          | 2.42         | 54.5                     | 1.27      | 14.47      |
| <b>moanom</b>      | No          | 67.26                          | 30.34        | 63.64                    | 2.11      | 78.68      |
| <b>faanom</b>      | No          | 70.11                          | 32.98        | 77.52                    | 3.24      | 87.4       |
| <b>sp_karyo</b>    | Yes         | 7.54                           | 0.69         | 0                        | 0.82      | 10.12      |
| <b>sp_drugs1</b>   | Yes         | 99.2                           | 100          | 100                      | 100       | 99.52      |
| <b>sp_sibanom</b>  | Yes         | 28.59                          | 1.6          | 0                        | 4.49      | 0.67       |
| <b>sp_moanom</b>   | Yes         | 26.56                          | 4            | 0                        | 4.76      | 0.24       |
| <b>sp_faanom</b>   | Yes         | 30.22                          | 2.44         | 0                        | 2.22      | 0          |
| <b>sp_syndrome</b> | Yes         | 1.12                           | 0            | 0                        | 0         | 0          |
| <b>sp_malfo1</b>   | Yes         | 1.44                           | 0            | 0                        | 0.08      | 0          |
| <b>sp_malfo2</b>   | Yes         | 1.47                           | 0            | 0                        | 0         | 0.06       |

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Ukraine (UA) | Valencian<br>Region (ES) | Vaud (CH) | Wales (UK) |
|-------------|-------------|--------------------------------|--------------|--------------------------|-----------|------------|
| sp_malfo3   | Yes         | 1.49                           | 0            | 0                        | 0         | 0.11       |
| sp_malfo4   | Yes         | 1.25                           | 0            | 0                        | 0         | 0          |
| sp_malfo5   | Yes         | 1.03                           | 0            | 0                        | 0         | 0          |
| sp_malfo6   | Yes         | 1.14                           | 0            | 0                        | 0         | 0          |
| sp_malfo7   | Yes         | 1.13                           | 0            | 0                        | 0         | 0          |
| sp_malfo8   | Yes         | 0.15                           | 0            | 0                        | 0         | 0          |
| civreg      | No          | 4.73                           | 0.04         | 0                        | 0.07      | 0.15       |
| firstpre    | No          | 52.6                           | 1.61         | 62.29                    | 0.99      | 0.62       |
| sp_firstpre | Yes         | 12.6                           | 0            | 0                        | 100       | 15.62      |
| surgery     | No          | 47.55                          | 46.11        | 6.86                     | 1.69      | 11.75      |
| folic       | No          | NaN                            | 0            | 0                        | 0         | 0          |
| sp_twin     | Yes         | 94.74                          | 96.64        | 94.4                     | 95.35     | 95.97      |
| sp_consang  | Yes         | 20.33                          | 100          | 0                        | 50        | 0          |
| matedu      | No          | 75.89                          | 2.34         | 53.35                    | 42.89     | 99.54      |
| socm        | No          | 79.01                          | 3.27         | 61.61                    | 42.75     | 99.92      |
| socf        | No          | 84.11                          | 14.79        | 80.68                    | 63.1      | 99.56      |
| migrant     | No          | 63.41                          | 1.06         | 4.08                     | 3.38      | 9.52       |
| aetiology   | No          | 93.96                          | 100          | 0                        | 100       | 100        |
| folic_g14   | No          | 66.18                          | 29.88        | 40.85                    | 16.2      | 81.91      |
| bmi         | No          | 52.23                          | 67.53        | 60.48                    | 22.32     | 28.95      |
| matdiab     | No          | 65.09                          | 3.87         | 33.49                    | 3.87      | 26.92      |
| hba1c       | No          | 99.84                          | 100          | 99.26                    | 100       | 100        |
| gentest     | No          | 64.94                          | 0.98         | 66.62                    | 3.24      | 21.66      |
| sp_gentest  | Yes         | 41.42                          | 12.9         | 0                        | 41.28     | 0.51       |
| firsttri    | No          | 61.4                           | 12.58        | 36.65                    | 13.45     | 64.43      |
| presyn      | Yes         | 4.05                           | 0            | 0.09                     | 0.3       | 1.04       |
| premal1     | Yes         | 8.8                            | 0.85         | 0.33                     | 0.61      | 0.03       |
| premal2     | Yes         | 9.8                            | 0.56         | 0.95                     | 0.44      | 0.28       |
| premal3     | Yes         | 8.83                           | 0.91         | 1.36                     | 0         | 0.54       |
| premal4     | Yes         | 8.18                           | 1.15         | 1.31                     | 1.12      | 0.98       |
| premal5     | Yes         | 7.52                           | 0            | 0.98                     | 0         | 0.68       |
| premal6     | Yes         | 9.07                           | 0            | 1.69                     | 5.56      | 0          |
| premal7     | Yes         | 9.76                           | 0            | 1.53                     | 0         | 2.27       |
| premal8     | Yes         | 10.46                          | 0            | 6.78                     | 0         | 0          |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Wessex (UK) | West Midlands<br>(UK) | Wielkopolska<br>(PL) | Yorkshire and<br>Humber (UK) |
|-------------|-------------|--------------------------------|-------------|-----------------------|----------------------|------------------------------|
| sex         | No          | 5.05                           | 9.27        | 3.34                  | 0.06                 | 2.86                         |
| nbrbaby     | No          | 1.69                           | 2.04        | 0.12                  | 20.26                | 0.68                         |
| nbrmalf     | Yes         | 5.99                           | 13.13       | 0.93                  | 25.93                | 7.69                         |
| type        | No          | 0.03                           | 0           | 0                     | 0                    | 0                            |
| weight      | Yes         | 3.71                           | 2.19        | 0.3                   | 20.93                | 1.62                         |
| gestlength  | No          | 6.96                           | 17.52       | 3.57                  | 20.93                | 23.19                        |
| death_date  | Yes         | 36.78                          | 0           | 0                     | 97.83                | 0                            |
| survival    | Yes         | 7.15                           | 2.43        | 0.06                  | 97.75                | 0.32                         |
| whendisc    | No          | 3.67                           | 4.54        | 2.99                  | 39.13                | 2.15                         |
| agedisc     | Yes         | 1.49                           | 2.43        | 0.48                  | 4.08                 | 2.77                         |
| condisc     | No          | 47.3                           | 100         | 100                   | 100                  | 100                          |
| karyo       | No          | 36.04                          | 52.2        | 49.76                 | 55.09                | 56.92                        |
| pm          | Yes         | 73.96                          | 94.11       | 86.9                  | 100                  | 94.83                        |
| datemo      | No          | 13.48                          | 0           | 0                     | 10.8                 | 0                            |
| residmo     | No          | 18.83                          | 0           | 0                     | 9.63                 | 0                            |
| agemo       | No          | 1.87                           | 0.05        | 0                     | 10.82                | 0                            |
| pre_still   | No          | 99.89                          | 100         | 100                   | 100                  | 100                          |
| totpreg     | No          | 41.1                           | 100         | 100                   | 21.4                 | 100                          |
| occupmo     | No          | 71.66                          | 100         | 100                   | 100                  | 100                          |
| assconcept  | No          | 48.36                          | 86.51       | 80.84                 | 62.48                | 91.61                        |
| illbef1     | No          | 46.24                          | 98.66       | 97.78                 | 100                  | 98.74                        |
| illdur1     | No          | 42.56                          | 100         | 100                   | 2.19                 | 100                          |
| drugs1      | No          | 84.69                          | 100         | 100                   | 69.33                | 100                          |
| omim        | No          | 63                             | 0           | 0                     | 99.89                | 0                            |
| consang     | No          | 53.03                          | 68.94       | 45.53                 | 37.05                | 67.59                        |
| prevsib     | No          | 70.2                           | 100         | 100                   | 100                  | 100                          |
| sib1        | Yes         | 2.95                           | 0           | 0                     | 0                    | 0                            |
| sibanom     | No          | 65.22                          | 100         | 100                   | 100                  | 100                          |
| moanom      | No          | 67.26                          | 100         | 100                   | 100                  | 100                          |
| faanom      | No          | 70.11                          | 100         | 100                   | 100                  | 100                          |
| sp_karyo    | Yes         | 7.54                           | 1.39        | 0.28                  | 80.35                | 0.49                         |
| sp_drugs1   | Yes         | 99.2                           | 0           | 0                     | 99.96                | 0                            |
| sp_sibanom  | Yes         | 28.59                          | 0           | 0                     | 0                    | 0                            |
| sp_moanom   | Yes         | 26.56                          | 0           | 0                     | 0                    | 0                            |
| sp_faanom   | Yes         | 30.22                          | 0           | 0                     | 0                    | 0                            |
| sp_syndrome | Yes         | 1.12                           | 0           | 0                     | 0                    | 0                            |
| sp_malfo1   | Yes         | 1.44                           | 0.15        | 0.09                  | 0                    | 0                            |
| sp_malfo2   | Yes         | 1.47                           | 0           | 0                     | 0.43                 | 0                            |

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Wessex (UK) | West Midlands<br>(UK) | Wielkopolska<br>(PL) | Yorkshire and<br>Humber (UK) |
|-------------|-------------|--------------------------------|-------------|-----------------------|----------------------|------------------------------|
| sp_malfo3   | Yes         | 1.49                           | 0.31        | 0.62                  | 0.65                 | 0.19                         |
| sp_malfo4   | Yes         | 1.25                           | 0           | 0.62                  | 0                    | 0                            |
| sp_malfo5   | Yes         | 1.03                           | 0           | 0                     | 0                    | 0                            |
| sp_malfo6   | Yes         | 1.14                           | 0           | 0                     | 0                    | 0                            |
| sp_malfo7   | Yes         | 1.13                           | 0           | 0                     | 0                    | 0                            |
| sp_malfo8   | Yes         | 0.15                           | 0           | 0                     | 0                    | 0                            |
| civreg      | No          | 4.73                           | 0           | 0                     | 0                    | 0                            |
| firstpre    | No          | 52.6                           | 100         | 100                   | 100                  | 100                          |
| sp_firstpre | Yes         | 12.6                           | 0           | 0                     | 0                    | 0                            |
| surgery     | No          | 47.55                          | 84.01       | 78.06                 | 100                  | 76.35                        |
| folic       | No          | NaN                            | 0           | 0                     | 0                    | 0                            |
| sp_twin     | Yes         | 94.74                          | 94.67       | 95.25                 | 100                  | 96.19                        |
| sp_consang  | Yes         | 20.33                          | 0           | 0                     | 0                    | 0                            |
| matedu      | No          | 75.89                          | 100         | 100                   | 100                  | 100                          |
| socm        | No          | 79.01                          | 100         | 100                   | 100                  | 100                          |
| socf        | No          | 84.11                          | 100         | 100                   | 100                  | 100                          |
| migrant     | No          | 63.41                          | 100         | 100                   | 100                  | 100                          |
| aetiology   | No          | 93.96                          | 100         | 100                   | 100                  | 100                          |
| folic_g14   | No          | 66.18                          | 80.25       | 76.92                 | 54.73                | 83.24                        |
| bmi         | No          | 52.23                          | 48.08       | 59.56                 | 100                  | 73.4                         |
| matdiab     | No          | 65.09                          | 100         | 100                   | 100                  | 100                          |
| hba1c       | No          | 99.84                          | 100         | 100                   | 100                  | 100                          |
| gentest     | No          | 64.94                          | 100         | 100                   | 60.92                | 100                          |
| sp_gentest  | Yes         | 41.42                          | 0           | 0                     | 0                    | 0                            |
| firsttri    | No          | 61.4                           | 100         | 100                   | 55.45                | 100                          |
| presyn      | Yes         | 4.05                           | 2.34        | 0.47                  | 41.48                | 0.36                         |
| premal1     | Yes         | 8.8                            | 7.74        | 4.25                  | 35.26                | 2.92                         |
| premal2     | Yes         | 9.8                            | 8.89        | 1.61                  | 42.29                | 2.25                         |
| premal3     | Yes         | 8.83                           | 14.47       | 1.71                  | 46.28                | 0.58                         |
| premal4     | Yes         | 8.18                           | 8.97        | 0                     | 57.6                 | 0.39                         |
| premal5     | Yes         | 7.52                           | 4.55        | 1.14                  | 60.32                | 0.67                         |
| premal6     | Yes         | 9.07                           | 6.9         | 1.98                  | 81.82                | 2.56                         |
| premal7     | Yes         | 9.76                           | 16.13       | 1.92                  | 86.96                | 0                            |
| premal8     | Yes         | 10.46                          | 0           | 0                     | 88.24                | 0                            |

- indicates no cases able to be missing

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

### Data for years 2019 to 2023

| Variable           | Conditional | All full members<br>registries | Zagreb (HR) |
|--------------------|-------------|--------------------------------|-------------|
| <b>sex</b>         | No          | 5.05                           | 0           |
| <b>nbrbaby</b>     | No          | 1.69                           | 0           |
| <b>nbrmalf</b>     | Yes         | 5.99                           | 0           |
| <b>type</b>        | No          | 0.03                           | 0           |
| <b>weight</b>      | Yes         | 3.71                           | 0           |
| <b>gestlength</b>  | No          | 6.96                           | 0           |
| <b>death_date</b>  | Yes         | 36.78                          | 97.16       |
| <b>survival</b>    | Yes         | 7.15                           | 0.32        |
| <b>whendisc</b>    | No          | 3.67                           | 0.29        |
| <b>agedisc</b>     | Yes         | 1.49                           | 0           |
| <b>condisc</b>     | No          | 47.3                           | 2.95        |
| <b>karyo</b>       | No          | 36.04                          | 0.59        |
| <b>pm</b>          | Yes         | 73.96                          | 92.63       |
| <b>datemo</b>      | No          | 13.48                          | 0.29        |
| <b>residmo</b>     | No          | 18.83                          | 3.83        |
| <b>agemo</b>       | No          | 1.87                           | 0.29        |
| <b>pre_still</b>   | No          | 99.89                          | 99.41       |
| <b>totpreg</b>     | No          | 41.1                           | 0           |
| <b>occupmo</b>     | No          | 71.66                          | 28.91       |
| <b>assconcept</b>  | No          | 48.36                          | 0           |
| <b>illbef1</b>     | No          | 46.24                          | 0           |
| <b>illdur1</b>     | No          | 42.56                          | 0           |
| <b>drugs1</b>      | No          | 84.69                          | 73.75       |
| <b>omim</b>        | No          | 63                             | 94.4        |
| <b>consang</b>     | No          | 53.03                          | 0           |
| <b>prevsib</b>     | No          | 70.2                           | 4.13        |
| <b>sib1</b>        | Yes         | 2.95                           | 0           |
| <b>sibanom</b>     | No          | 65.22                          | 0           |
| <b>moanom</b>      | No          | 67.26                          | 0.29        |
| <b>faanom</b>      | No          | 70.11                          | 1.47        |
| <b>sp_karyo</b>    | Yes         | 7.54                           | 5.56        |
| <b>sp_drugs1</b>   | Yes         | 99.2                           | 100         |
| <b>sp_sibanom</b>  | Yes         | 28.59                          | 22.22       |
| <b>sp_moanom</b>   | Yes         | 26.56                          | 5.71        |
| <b>sp_faanom</b>   | Yes         | 30.22                          | 36.36       |
| <b>sp_syndrome</b> | Yes         | 1.12                           | 0           |
| <b>sp_malfo1</b>   | Yes         | 1.44                           | 0           |
| <b>sp_malfo2</b>   | Yes         | 1.47                           | 1.64        |

## Missing values frequency tables (July 2025)

% Missing + Unknown + Invalid by variable by centre

### Data for years 2019 to 2023

| Variable    | Conditional | All full members<br>registries | Zagreb (HR) |
|-------------|-------------|--------------------------------|-------------|
| sp_malfo3   | Yes         | 1.49                           | 0           |
| sp_malfo4   | Yes         | 1.25                           | 0           |
| sp_malfo5   | Yes         | 1.03                           | 0           |
| sp_malfo6   | Yes         | 1.14                           | 0           |
| sp_malfo7   | Yes         | 1.13                           | 0           |
| sp_malfo8   | Yes         | 0.15                           | 0           |
| civreg      | No          | 4.73                           | 0.29        |
| firstpre    | No          | 52.6                           | 0.29        |
| sp_firstpre | Yes         | 12.6                           | 0           |
| surgery     | No          | 47.55                          | 5.6         |
| folic       | No          | NaN                            | 0           |
| sp_twin     | Yes         | 94.74                          | 99.12       |
| sp_consang  | Yes         | 20.33                          | 50          |
| matedu      | No          | 75.89                          | 5.6         |
| socm        | No          | 79.01                          | 5.31        |
| socf        | No          | 84.11                          | 12.68       |
| migrant     | No          | 63.41                          | 2.36        |
| aetiology   | No          | 93.96                          | 74.63       |
| folic_g14   | No          | 66.18                          | 5.01        |
| bmi         | No          | 52.23                          | 12.39       |
| matdiab     | No          | 65.09                          | 5.31        |
| hba1c       | No          | 99.84                          | 100         |
| gentest     | No          | 64.94                          | 1.77        |
| sp_gentest  | Yes         | 41.42                          | 14.29       |
| firsttri    | No          | 61.4                           | 3.24        |
| presyn      | Yes         | 4.05                           | 0           |
| premal1     | Yes         | 8.8                            | 0.62        |
| premal2     | Yes         | 9.8                            | 0           |
| premal3     | Yes         | 8.83                           | 0           |
| premal4     | Yes         | 8.18                           | 0           |
| premal5     | Yes         | 7.52                           | 0           |
| premal6     | Yes         | 9.07                           | 0           |
| premal7     | Yes         | 9.76                           | 0           |
| premal8     | Yes         | 10.46                          | 0           |

- indicates no cases able to be missing