

## Annexes

### *Annex 1. Variable names, types, sources and definitions.*

| Name              | Type               | Source                      | Definition                                                                                                                                                                                  |
|-------------------|--------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First dose delay  | Discrete numerical | Vaccination registry + EHRs | Time between AAI and first vaccination dose in days. Calculated through the subtraction of date of AAI and date of first dose.                                                              |
| Age               | Discrete numerical | Vaccination registry + EHRs | Age in years. Calculated through the subtraction of date of AVC first visit and date of birth.                                                                                              |
| Age (categorical) | Categorical        | Vaccination registry + EHRs | Categories of age (in years): <ul style="list-style-type: none"><li>• <math>\leq 25</math> years</li><li>• 26-30 years</li><li>• 31-35 years</li><li>• <math>\geq 36</math> years</li></ul> |
| Sex               | Categorical        | EHRs                        | Biological sex: <ul style="list-style-type: none"><li>• Male</li><li>• Female</li></ul>                                                                                                     |
| Nationality       | Categorical        | EHRs                        | Nationality according to country of birth, categorised in: <ul style="list-style-type: none"><li>• Spanish</li><li>• Other nationality</li><li>• Unknown</li></ul>                          |

|                                    |             |      |                                                                                                                                                                                                                                                                            |
|------------------------------------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunocompromised                  | Categorical | EHRs | <p>Considered immunosuppressed according to clinical criteria during first AVC visit:</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>                                                                                                            |
| Pre-travel advice                  | Categorical | EHRs | <p>Either if a pre-travel advice consultation for the AAI travel was registered at our centre or if the patient referred pre-travel consultation at another centre during their first AVC visit.</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul> |
| Pre-exposure prophylaxis           | Categorical | EHRs | <p>Patient received at least two doses of rabies vaccination previously as PrEP, irrespective of the years passed:</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>                                                                               |
| Previous post-exposure prophylaxis | Categorical | EHRs | <p>Patient received at least two doses of rabies vaccination previously as PEP because of a past AAI, irrespective of the years passed:</p>                                                                                                                                |

|                             |                    |      |                                                                                                                                                                                   |
|-----------------------------|--------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                    |      | <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>                                                                                                             |
| Number of previous doses    | Discrete numerical | EHRs | Number of total doses of rabies vaccination previously received by a patient either as PEP, PrEP, or a combination of both.                                                       |
| Previous rabies vaccination | Categorical        | EHRs | Patient received at least two doses of rabies vaccination previously as PrEP, PEP or a combination of both: <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul> |
| Country of AAI              | Categorical        | EHRs | Countries where the AAI occurred                                                                                                                                                  |
| WHO Region of AAI           | Categorical        | EHRs | Countries where the AAI occurred were grouped in regions according to WHO classification                                                                                          |
| AAI animal                  | Categorical        | EHRs | Type of animal involved in the AAI, as referred by the patient during the AVC visit                                                                                               |
| Type of AAI                 | Categorical        | EHRs | Type of injury suffered by the patient: <ul style="list-style-type: none"> <li>• Bite</li> <li>• Scratch</li> <li>• Contact without wounds</li> </ul>                             |

|                                                   |                    |                             |                                                                                                                                                                                                                                     |
|---------------------------------------------------|--------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   |                    |                             | <ul style="list-style-type: none"> <li>Unknown</li> </ul>                                                                                                                                                                           |
| Body part injured                                 | Categorical        | EHRs                        | <p>Body part that was injured as a result of AAI:</p> <ul style="list-style-type: none"> <li>Upper extremity</li> <li>Lower extremity</li> <li>Head or neck</li> <li>Torso</li> <li>Multiple body parts</li> <li>Unknown</li> </ul> |
| Immunoglobulin                                    | Categorical        | EHRs                        | <p>Immunoglobulin was administered after AAI either at ACV or at another centre (as referred by patient)</p> <ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>                                                      |
| Total doses of rabies vaccination received        | Discrete numerical | Vaccination registry + EHRs | Number of total doses of rabies vaccination received as a result of the present AAI, irrespective of the centre.                                                                                                                    |
| Total doses of rabies vaccination received at AVC | Discrete numerical | Vaccination registry        | Number of total doses of rabies vaccination administered at our AVC as a result of the present AAI                                                                                                                                  |

*Annex 2. Hazard Ratios and Kaplan–Meier curves from adjusted Cox regression comparing time (days) between from AAI to first vaccine dose of vaccination between previously vaccinated and the unvaccinated groups.*

| <b>Variable</b>                   | <b>HR (95% CI)</b>  |
|-----------------------------------|---------------------|
| Previous vaccination (Yes)        | 0.40 (0.24 – 0.68)* |
| Age 18–45                         | 1.40 (0.67 – 2.92)  |
| Age > 45                          | 1.94 (0.87 – 4.30)  |
| Sex (Male)                        | 1.25 (0.92 – 1.70)  |
| Pre-travel advice (Yes)           | 0.61 (0.40 – 0.93)* |
| WHO Region: Americas              | 0.40 (0.25 – 0.63)* |
| WHO Region: Eastern Mediterranean | 0.66 (0.41 – 1.04)  |
| WHO Region: Other                 | 0.56 (0.38 – 0.83)* |

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HR= Hazards Ratio; 95% CI= Confidence Interval at 95%.

\*p<0.05

Adjusted time to first vaccine by prior vaccination

