

## Diseases targeted by the surveillance systems

| Disease             | N. of surveillance systems (%) <sup>*</sup> | Species group                                           | References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|---------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multiple diseases   | 46 (29.3%)                                  | Humans: 33<br><br>Animals: 7<br><br>Humans & animals: 6 | (Adokiya et al., 2015; Alemu et al., 2019; Ario et al., 2022; Babaie et al., 2015; Colón-González et al., 2018; Debnath and Ponnaiah, 2018; El-Khatib et al., 2018; Garcell et al., 2014; Mala et al., 2021; Maponga et al., 2014; Mor et al., 2014; Ng’etich et al., 2021; Randriamiarana et al., 2018; Reijn et al., 2011; Rumunu et al., 2022; Schwind et al., 2014; Sickbert-Bennett et al., 2011; Stolka et al., 2018; Thomas et al., 2018; Tom-Aba et al., 2018; Van Boetzelaer et al., 2020)<br>(Faverjon et al., 2019; Mercier et al., 2020; Nathues et al., 2015; Reber et al., 2012; Vial et al., 2016; Vredenberg et al., 2024, 2022)<br>(Barboza et al., 2014) |
| Avian influenza     | 17 (10.8%)                                  | Humans: 1<br>Animals: 16                                | (Stephenson et al., 2016)<br>(Alba et al., 2010; Bonney et al., 2019; Breed et al., 2012; Cameron et al., 2020; Christensen et al., 2011; Collineau et al., 2013; Comin et al., 2012; Delabougliise et al., 2016; Grosbois et al., 2015; Häsler et al., 2012b; Knight-Jones et al., 2010; Peyre et al., 2015; Rutten et al., 2012; Waziri et al., 2014; Weaver et al., 2016)                                                                                                                                                                                                                                                                                               |
| Bovine tuberculosis | 15 (9.6%)                                   | Animals                                                 | (Calba et al., 2016; Calvo-Artavia et al., 2013; Drewe et al., 2017; El Allaki et al., 2016; Guétin-Poirier et al., 2020; Jamin and Rivière, 2020; Lopes et al., 2016; Poirier et al., 2019; Pozo et al., 2021; Rivière et al., 2017, 2015; Rossi et al., 2015; Sergeant et al., 2017; Welby et al., 2012)                                                                                                                                                                                                                                                                                                                                                                 |
| Rabies              | 8 (5.1%)                                    | Humans: 3<br>Animals: 2<br>Humans & animals: 3          | (Attema et al., 2019; Hunduma and Leulseged, 2021; Mtema et al., 2016)<br>(Craighead et al., 2015; Gerardo-Giorda et al., 2013)<br>(Kuye et al., 2024; Pham et al., 2021; Undurraga et al., 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Zoonotic influenza  | 8 (5.1%)                                    | Humans: 1<br>Humans and animals: 7                      | (Stewart et al., 2019)<br>(Barboza et al., 2013)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| African swine fever | 6 (3.8%)                                    | Animals                                                 | (Calba et al., 2015; Cameron et al., 2020; Chenais et al., 2015; Gervasi et al., 2020)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Disease                                            | N. of surveillance systems (%) <sup>*</sup> | Species group                       | References                                                                                                                        |
|----------------------------------------------------|---------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| COVID-19                                           | 6 (3.8%)                                    | Humans                              | (Awekeya et al., 2021; Ba et al., 2024; Liu et al., 2021; Lokuge et al., 2022; Porcu et al., 2023; Umeozuru et al., 2022)         |
| Foot and mouth disease                             | 6 (3.8%)                                    | Animals                             | (Cameron et al., 2020; Coelho et al., 2024; Ferrer-Miranda et al., 2022, 2020; Hernández-Jover et al., 2011; Martin et al., 2015) |
| Bluetongue                                         | 4 (2.5%)                                    | Animals                             | (Cameron et al., 2020; Häsler et al., 2012a; Rüegg et al., 2018; Welby et al., 2013)                                              |
| Classical swine fever                              | 4 (2.5%)                                    | Animals                             | (Guo et al., 2014; Peyre et al., 2015; Schulz et al., 2017, 2016)                                                                 |
| West Nile fever or West Nile neuroinvasive disease | 4 (2.5%)                                    | Animals: 3<br>Humans and animals: 1 | (Chaintoutis et al., 2014; Faverjon et al., 2017, 2016)<br>(Bellini et al., 2014)                                                 |
| Bovine viral diarrhea or mucosal disease           | 3 (1.9%)                                    | Animals                             | (Häsler et al., 2012c; Norström et al., 2014; Peyre et al., 2015)                                                                 |
| Tick-borne diseases                                | 3 (1.9%)                                    | Humans and animals                  | (Garcia-Vozmediano et al., 2022)                                                                                                  |
| Brucellosis                                        | 2 (1.3%)                                    | Animals                             | (Foddai et al., 2020; Hénaux and Calavas, 2017)                                                                                   |
| Campylobacteriosis                                 | 2 (1.3%)                                    | Humans: 1<br>Humans and animals: 1  | (Babo Martins et al., 2017)<br>(Grills et al., 2010)                                                                              |
| Cholera                                            | 2 (1.3%)                                    | Humans                              | (Sparrow et al., 2016)                                                                                                            |
| Ebola                                              | 2 (1.3%)                                    | Humans                              | (Olu et al., 2020; Ratnayake et al., 2016)                                                                                        |
| Salmonellosis                                      | 2 (1.3%)                                    | Animals                             | (Foddai et al., 2021; Peyre et al., 2015)                                                                                         |

| Disease                                       | N. of surveillance systems (%) <sup>*</sup> | Species group      | References                  |
|-----------------------------------------------|---------------------------------------------|--------------------|-----------------------------|
| Bovine spongiform encephalopathy              | 1 (0.6%)                                    | Animals            | (Ohashi et al., 2010)       |
| Crimean congo haemorrhagic fever              | 1 (0.6%)                                    | Humans             | (Qurat ul Ain et al., 2019) |
| Contagious equine metritis                    | 1 (0.6%)                                    | Animals            | (Amat et al., 2015)         |
| Echinococcosis                                | 1 (0.6%)                                    | Animals            | (Rivers et al., 2023)       |
| Equine infectious anemia                      | 1 (0.6%)                                    | Animals            | (Amat et al., 2015)         |
| Equine viral arteritis                        | 1 (0.6%)                                    | Animals            | (Amat et al., 2015)         |
| Infectious bovine rhinotracheitis             | 1 (0.6%)                                    | Animals            | (Veldhuis et al., 2017)     |
| Leptospirosis                                 | 1 (0.6%)                                    | Humans             | (Calero and Monti, 2022)    |
| Porcine reproductive and respiratory syndrome | 1 (0.6%)                                    | Animals            | (Arruda et al., 2017)       |
| Scrub typhus                                  | 1 (0.6%)                                    | Humans             | (Prajapati et al., 2023)    |
| Taeniasis or cysticercosis                    | 1 (0.6%)                                    | Humans and animals | (Fonseca et al., 2018)      |

| Disease                          | N. of surveillance systems (%) <sup>*</sup> | Species group           | References                                                                            |
|----------------------------------|---------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|
| Variant Creutzfeld-Jakob disease | 1 (0.6%)                                    | Humans                  | (Litzroth et al., 2015)                                                               |
| Not specified                    | 5 (3.2%)                                    | Humans: 1<br>Animals: 4 | (Mremi et al., 2023)<br>(Ely et al., 2012; Grosbois et al., 2015; Mremi et al., 2023) |
| <b>Total</b>                     | <b>157 (100%)</b>                           |                         |                                                                                       |

<sup>\*</sup> The percentages included in the table are rounded and thus do not sum to 100%.

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