**Electronic Supplementary Material 2: SOC Distribution**

This is a Drug Safety online resource of the article ‘*Adverse Events in Twitter - Development of a Benchmark Reference Dataset: Results from IMI WEB-RADR*’ by Juergen Dietrich ([0000-0002-5494-3499](https://orcid.org/0000-0002-5494-3499)), Lucie M. Gattepaille, Britta Anne Grum, Letitia Jiri, Magnus Lerch, Daniele Sartori, Antoni Wisniewski.

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***Table 1*** shows the distribution of Systems Organ Classes (SOCs) in the benchmark reference dataset.   
83.9 % (n=1,171) of all AEs (n= 1,396) were related to the top four SOCs.

| **SOC** | **PT Count** | **Percent** |
| --- | --- | --- |
| General disorders and administration site conditions | 519 | 37.2 % |
| Psychiatric disorders | 370 | 26.5 % |
| Nervous system disorders | 161 | 11.5 % |
| Injury, poisoning and procedural complications | 121 | 8.7 % |
| Investigations | 44 | 3.2 % |
| Gastrointestinal disorders | 34 | 2.4 % |
| Metabolism and nutrition disorders | 33 | 2.4 % |
| Social circumstances | 30 | 2.1 % |
| Skin and subcutaneous tissue disorders | 24 | 1.7 % |
| Product issues | 13 | 0.9 % |
| Musculoskeletal and connective tissue disorders | 10 | 0.7 % |
| Immune system disorders | 8 | 0.6 % |
| Cardiac disorders | 6 | 0.4 % |
| Eye disorders | 4 | 0.3 % |
| Ear and labyrinth disorders | 3 | 0.2 % |
| Renal and urinary disorders | 3 | 0.2 % |
| Respiratory, thoracic and mediastinal disorders | 3 | 0.2 % |
| Vascular disorders | 3 | 0.2 % |
| Hepatobiliary disorders | 2 | 0.1 % |
| Reproductive system and breast disorders | 2 | 0.1 % |
| Infections and infestations | 1 | 0.1 % |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | 1 | 0.1 % |
| Surgical and medical procedures | 1 | 0.1 % |
| **Total** | **1,396** | 100.0 % |