

**Table 4 Management of global health challenges: current and future centrality measures for GHG actors**

| GHG actor             | Management of global health challenges |                        |  |                   |                        |  |
|-----------------------|--|------------------------|--|-------------------|------------------------|--|
|                       | Current                                |                        |  | Future            |                        |  |
|                       | Degree centrality                      | Eigenvector centrality | Rank according to eigenvector centrality | Degree centrality | Eigenvector centrality | Rank according to eigenvector centrality |
| WHO                   | 212                                    | 0.378                  | 1  | 251               | 0.317                  | 2↓                                       |
| UNICEF                | 179                                    | 0.306                  | 2  | 266               | 0.331                  | 1↑                                       |
| Gavi                  | 153                                    | 0.256                  | 3  | 224               | 0.276                  | 4↓                                       |
| CEPI                  | 122                                    | 0.201                  | 4  | 195               | 0.24                   | 7↓                                       |
| Gates Foundation      | 169                                    | 0.296                  | 5  | 162               | 0.192                  | 13↓                                      |
| World Bank            | 179                                    | 0.304                  | 6  | 202               | 0.248                  | 6  |
| Research agencies     | 113                                    | 0.189                  | 7  | 214               | 0.265                  | 5↑                                       |
| Vaccine manufacturers | 89                                     | 0.15                   | 8  | 175               | 0.212                  | 11↓                                      |
| Government            | 193                                    | 0.339                  | 9  | 169               | 0.202                  | 12↓                                      |
| UNDP                  | 150                                    | 0.242                  | 10                                       | 246               | 0.301                  | 3↑                                       |
| Global Fund           | 137                                    | 0.216                  | 11                                       | 198               | 0.23                   | 9↑                                       |
| STP                   | 98                                     | 0.148                  | 12                                       | 190               | 0.219                  | 10↑                                      |
| PCN                   | 70                                     | 0.102                  | 13                                       | 156               | 0.178                  | 15↓                                      |
| PAI                   | 47                                     | 0.065                  | 14                                       | 108               | 0.119                  | 19↓                                      |
| MFI                   | 59                                     | 0.085                  | 15                                       | 123               | 0.136                  | 18↓                                      |
| MSF                   | 114                                    | 0.184                  | 16                                       | 149               | 0.167                  | 17↓                                      |
| GHC                   | 100                                    | 0.156                  | 17                                       | 164               | 0.187                  | 14↑                                      |
| US CDC                | 180                                    | 0.303                  | 18                                       | 152               | 0.172                  | 16↑                                      |
| FHI 360               | 52                                     | 0.077                  | 19                                       | 198               | 0.232                  | 8↑                                       |