

Austrian Healthcare Resilience

Definitions

The more doctors are removed from the system, the lower the remaining free capacity and the higher the probability for a patient to get rejected at a new doctor, and the more steps patients need to make to find a doctor who still has free capacity available.

Free capacity

the exact percentage of doctors can be removed nationwide before the remaining free capacity in that state is filled up over 20%.

Lost patients

the exact percentage of doctors can be removed nationwide before the percentage of lost patients in that state crosses the limit of 1%.

Risk

if remove doctor i, how does it affect his/her neighbor's j capacities on average. Value range is from 0 to 1.

Benefit

the normalized initial free capacity value. Range is from 0 to 1.

Displacement steps of a "lost" patient

A network viz is to simulate the displacement steps of a "lost" patient. Patients can only travel a limited distance from their starting doctor. If patients do not get accepted by a given number of doctors, they become "lost".

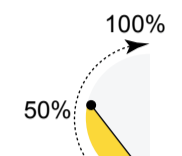
Legend

Free capacity (FC) Lost patients (LP)



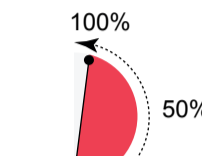
average value

Risk level



% doctors > nationwide average score

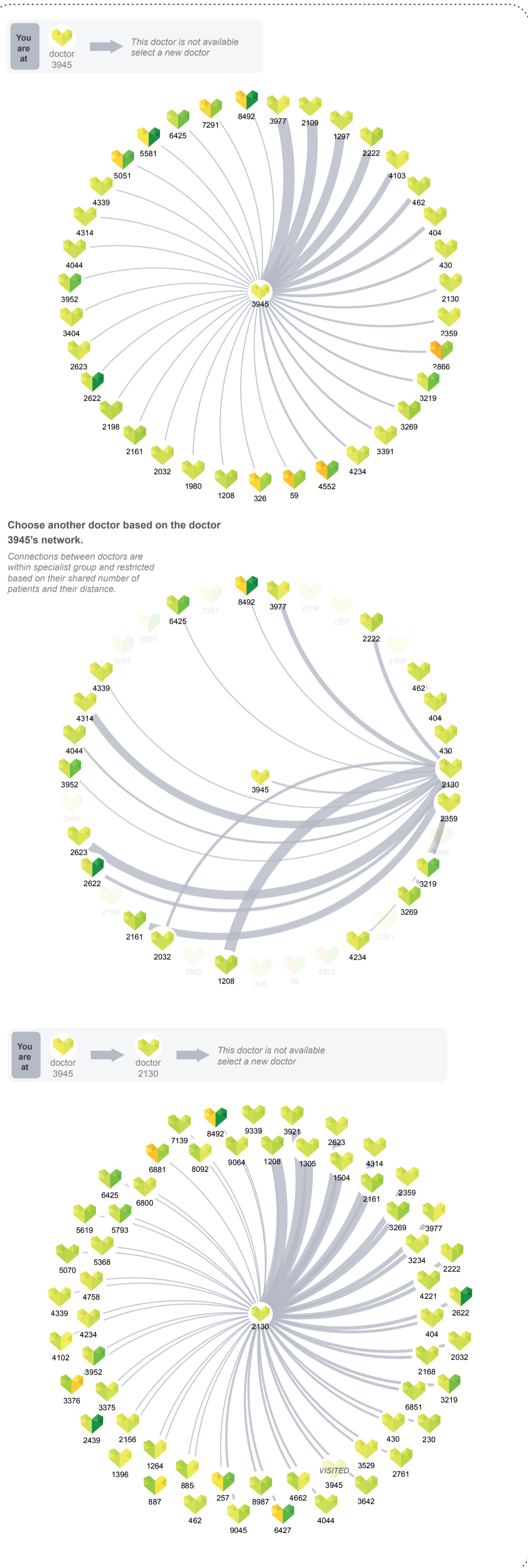
Benefit level



Average score of doctors



Color scale



Choose another doctor based on the doctor 3945's network.

Connections between doctors are within specialist group and restricted based on their shared number of patients and their distance.

	Burgenland	Carinthia	Lower Austria	Upper Austria	Salzburg	Styria	Tyrol	Vorarlberg	Vienna
General medicine	FC 9.30% LP 20.68% Risk 88.59% / 0.66 Benefit 30.98% / 0.21	FC 9.16% LP 28.31% Risk 48.53% / 0.58 Benefit 40.59% / 0.23	FC 8.64% LP 17.68% Risk 85.65% / 0.66 Benefit 31.50% / 0.20	FC 11.62% LP 35.33% Risk 14.02% / 0.52 Benefit 48.32% / 0.26	FC 9.78% LP 29.43% Risk 61.69% / 0.59 Benefit 39.32% / 0.23	FC 8.76% LP 20.15% Risk 91.16% / 0.67 Benefit 31.08% / 0.20	FC 9.64% LP 18.74% Risk 91.94% / 0.67 Benefit 37.20% / 0.23	FC 12.82% LP 43.51% Risk 3.02% / 0.50 Benefit 52.26% / 0.27	FC 14.96% LP 56.65% Risk 1.23% / 0.36 Benefit 84.76% / 0.36
Ophthalmology	FC 8.94% LP 11.93% Risk 100.00% / 0.69 Benefit 36.36% / 0.20	FC 10.55% LP 11.01% Risk 41.94% / 0.57 Benefit 19.35% / 0.22	FC 9.86% LP 5.50% Risk 98.48% / 0.74 Benefit 24.24% / 0.21	FC 10.78% LP 11.24% Risk 71.43% / 0.62 Benefit 22.86% / 0.22	FC 11.93% LP 8.72% Risk 30.30% / 0.56 Benefit 21.21% / 0.19	FC 10.32% LP 5.50% Risk 69.49% / 0.66 Benefit 23.73% / 0.21	FC 11.47% LP 7.57% Risk 66.67% / 0.63 Benefit 30.56% / 0.22	FC 11.83% LP 19.27% Risk 16.67% / 0.48 Benefit 45.83% / 0.24	FC 10.09% LP 11.24% Risk 93.40% / 0.70 Benefit 31.13% / 0.22
Surgery	FC 12.23% LP 30.22% Risk 75.00% / 0.62 Benefit 87.50% / 0.68	FC 15.47% LP 37.41% Risk 13.64% / 0.43 Benefit 72.73% / 0.60	FC 13.67% LP 33.45% Risk 28.33% / 0.58 Benefit 61.67% / 0.47	FC 15.83% LP 39.57% Risk 8.57% / 0.46 Benefit 71.43% / 0.59	FC 15.83% LP 49.64% Risk 3.33% / 0.39 Benefit 73.33% / 0.57	FC 11.15% LP 5.40% Risk 71.43% / 0.62 Benefit 52.38% / 0.43	FC 14.03% LP 20.14% Risk 29.17% / 0.55 Benefit 62.50% / 0.51	FC 14.39% LP 28.42% Risk 0.00% / 0.36 Benefit 80.00% / 0.60	FC 13.67% LP 30.94% Risk 31.51% / 0.54 Benefit 63.01% / 0.46
Dermatology	FC 8.97% LP 13.10% Risk 100.00% / 0.69 Benefit 66.67% / 0.29	FC 9.90% LP 9.31% Risk 100.00% / 0.71 Benefit 21.43% / 0.18	FC 11.03% LP 13.45% Risk 97.67% / 0.68 Benefit 55.81% / 0.28	FC 10.00% LP 20.00% Risk 87.89% / 0.84 Benefit 51.22% / 0.30	FC 11.03% LP 16.90% Risk 8.33% / 0.49 Benefit 58.33% / 0.34	FC 10.00% LP 3.79% Risk 66.67% / 0.65 Benefit 51.52% / 0.28	FC 10.34% LP 13.45% Risk 64.00% / 0.61 Benefit 56.00% / 0.31	FC 14.83% LP 26.55% Risk 7.14% / 0.44 Benefit 85.71% / 0.41	FC 11.03% LP 27.59% Risk 54.44% / 0.59 Benefit 64.44% / 0.35
Gynaecology & Obstetrics	FC 9.42% LP 11.05% Risk 100.00% / 0.71 Benefit 6.25% / 0.11	FC 10.14% LP 7.07% Risk 90.91% / 0.70 Benefit 9.09% / 0.11	FC 9.78% LP 14.49% Risk 92.94% / 0.89 Benefit 4.71% / 0.13	FC 9.24% LP 12.86% Risk 92.13% / 0.65 Benefit 3.37% / 0.11	FC 9.69% LP 17.03% Risk 45.71% / 0.59 Benefit 0.00% / 0.12	FC 10.14% LP 8.70% Risk 91.30% / 0.69 Benefit 1.45% / 0.12	FC 13.41% LP 16.49% Risk 46.77% / 0.57 Benefit 17.74% / 0.17	FC 13.41% LP 17.75% Risk 27.27% / 0.53 Benefit 9.09% / 0.16	FC 12.86% LP 7.43% Risk 78.48% / 0.83 Benefit 10.77% / 0.14
Otorhinolaryngology	FC 9.56% LP 9.56% Risk 90.00% / 0.59 Benefit 70.00% / 0.49	FC 8.83% LP 4.78% Risk 100.00% / 0.74 Benefit 58.82% / 0.29	FC 9.22% LP 12.63% Risk 100.00% / 0.72 Benefit 75.61% / 0.42	FC 9.56% LP 18.09% Risk 36.46% / 0.67 Benefit 78.57% / 0.46	FC 11.96% LP 18.09% Risk 31.58% / 0.51 Benefit 84.21% / 0.58	FC 10.58% LP 9.56% Risk 69.23% / 0.64 Benefit 84.62% / 0.53	FC 13.31% LP 20.82% Risk 15.15% / 0.50 Benefit 97.88% / 0.58	FC 12.63% LP 28.67% Risk 0.00% / 0.47 Benefit 84.62% / 0.47	FC 10.92% LP 21.16% Risk 81.01% / 0.54 Benefit 81.01% / 0.54
Internal medicine	FC 12.38% LP 26.56% Risk 60.00% / 0.59 Benefit 2.44% / 0.05	FC 13.52% LP 23.16% Risk 40.51% / 0.57 Benefit 3.89% / 0.05	FC 12.76% LP 27.22% Risk 59.65% / 0.61 Benefit 0.58% / 0.05	FC 11.63% LP 27.41% Risk 36.94% / 0.67 Benefit 0.00% / 0.05	FC 13.99% LP 32.99% Risk 17.81% / 0.50 Benefit 1.37% / 0.05	FC 13.33% LP 18.90% Risk 70.18% / 0.65 Benefit 0.62% / 0.05	FC 14.08% LP 21.17% Risk 15.99% / 0.59 Benefit 1.94% / 0.04	FC 14.65% LP 48.77% Risk 4.94% / 0.40 Benefit 0.00% / 0.05	FC 15.12% LP 33.27% Risk 15.99% / 0.57 Benefit 5.78% / 0.07
Paediatrics	FC 7.74% LP 11.61% Risk 100.00% / 0.71 Benefit 11.11% / 0.11	FC 12.80% LP 11.61% Risk 34.55% / 0.61 Benefit 18.18% / 0.24	FC 10.71% LP 10.71% Risk 100.00% / 0.67 Benefit 12.00% / 0.19	FC 10.42% LP 13.99% Risk 86.21% / 0.83 Benefit 6.67% / 0.15	FC 10.71% LP 16.67% Risk 68.18% / 0.46 Benefit 9.09% / 0.17	FC 11.61% LP 12.20% Risk 89.74% / 0.65 Benefit 15.38% / 0.17	FC 12.20% LP 16.37% Risk 11.93% / 0.57 Benefit 19.35% / 0.23	FC 12.80% LP 25.30% Risk 9.09% / 0.53 Benefit 18.18% / 0.20	FC 10.12% LP 16.07% Risk 89.79% / 0.81 Benefit 12.50% / 0.17
Neurology	FC 9.64% LP 12.65% Risk 100.00% / 0.71 Benefit 16.67% / 0.17	FC 6.02% LP 6.63% Risk 100.00% / 0.82 Benefit 14.29% / 0.14	FC 14.46% LP 18.07% Risk 100.00% / 0.74 Benefit 50.00% / 0.33	FC 10.24% LP 13.86% Risk 86.21% / 0.87 Benefit 10.34% / 0.23	FC 11.45% LP 7.83% Risk 100.00% / 0.62 Benefit 20.00% / 0.24	FC 4.82% LP 11.45% Risk 100.00% / 0.78 Benefit 11.11% / 0.13	FC 13.86% LP 3.01% Risk 11.94% / 0.74 Benefit 35.00% / 0.23	FC 16.27% LP 21.69% Risk 0.00% / 0.46 Benefit 30.00% / 0.36	FC 9.64% LP 16.27% Risk 90.00% / 0.70 Benefit 23.33% / 0.25
Orthopaedics	FC 13.66% LP 35.25% Risk 7.69% / 0.52 Benefit 84.62% / 0.47	FC 10.93% LP 25.96% Risk 4.17% / 0.45 Benefit 83.33% / 0.41	FC 12.84% LP 23.77% Risk 18.00% / 0.54 Benefit 68.97% / 0.37	FC 13.99% LP 22.13% Risk 32.76% / 0.47 Benefit 82.00% / 0.43	FC 13.66% LP 35.25% Risk 8.70% / 0.46 Benefit 91.30% / 0.47	FC 12.57% LP 9.56% Risk 50.00% / 0.56 Benefit 62.50% / 0.37	FC 16.39% LP 22.40% Risk 11.76% / 0.42 Benefit 79.41% / 0.41	FC 17.21% LP 34.70% Risk 0.00% / 0.29 Benefit 90.48% / 0.47	FC 14.48% LP 25.41% Risk 78.38% / 0.44 Benefit 78.38% / 0.44
Psychiatry	FC 15.53% LP 18.01% Risk 20.00% / 0.51 Benefit 80.00% / 0.62	FC 9.32% LP 20.50% Risk 25.00% / 0.53 Benefit 75.00% / 0.48	FC 16.77% LP 36.65% Risk 100.00% / 0.90 Benefit 100.00% / 0.90	FC 14.29% LP 27.95% Risk 6.45% / 0.45 Benefit 83.87% / 0.68	FC 13.04% LP 12.42% Risk 30.00% / 0.59 Benefit 40.00% / 0.37	FC 9.32% LP 12.42% Risk 54.55% / 0.57 Benefit 81.82% / 0.54	FC 10.56% LP 9.32% Risk 68.42% / 0.43 Benefit 68.42% / 0.43	FC 13.66% LP 35.40% Risk 0.00% / 0.33 Benefit 92.86% / 0.59	FC 10.56% LP 21.74% Risk 31.53% / 0.62 Benefit 74.29% / 0.48
Radiology	FC 17.22% LP 48.82% Risk 3.70% / 0.44 Benefit 81.48% / 0.43	FC 13.92% LP 38.92% Risk 100.00% / 0.38 Benefit 63.64% / 0.33	FC 12.26% LP 38.21% Risk 100.00% / 0.69 Benefit 52.05% / 0.34	FC 12.50% LP 36.79% Risk 100.00% / 0.46 Benefit 61.22% / 0.34	FC 15.80% LP 52.59% Risk 64.71% / 0.59 Benefit 78.57% / 0.44	FC 14.62% LP 41.51% Risk 4.62% / 0.42 Benefit 76.92% / 0.40	FC 12.03% LP 32.08% Risk 100.00% / 0.41 Benefit 59.38% / 0.33	FC 13.44% LP 46.93% Risk 0.00% / 0.45 Benefit 77.78% / 0.45	FC 13.44% LP 44.58% Risk 100.00% / 0.66 Benefit 71.72% / 0.34
Urology	FC 9.88% LP 6.72% Risk 90.91% / 0.72 Benefit 72.73% / 0.44	FC 8.70% LP 3.16% Risk 91.67% / 0.70 Benefit 66.67% / 0.36	FC 9.49% LP 9.88% Risk 100.00% / 0.69 Benefit 69.23% / 0.35	FC 10.28% LP 12.65% Risk 100.00% / 0.60 Benefit 89.47% / 0.55	FC 9.49% LP 14.23% Risk 82.35% / 0.43 Benefit 82.35% / 0.43	FC 10.28% LP 5.14% Risk 100.00% / 0.70 Benefit 73.08% / 0.42	FC 9.49% LP 9.49% Risk 100.00% / 0.69 Benefit 72.73% / 0.41	FC 13.83% LP 23.72% Risk 0.00% / 0.66 Benefit 100.00% / 0.66	FC 11.46% LP 16.21% Risk 86.25% / 0.66 Benefit 83.75% / 0.57

