

Supporting Information

Manton et al. 10.1073/pnas.0911626106

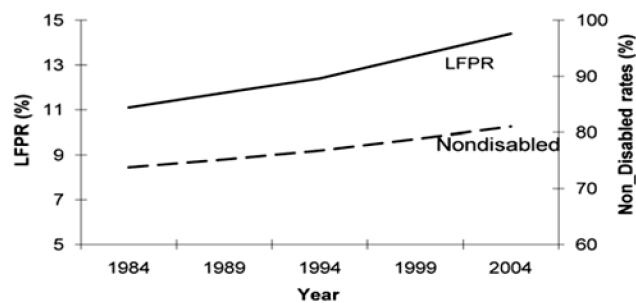


Fig. S1. LFPR as a function of DDR from NLTC5 1984 to 2004

Table S1. Per annum national wealth and tax revenue increase due to labor force growth in the US elderly population for 2010, 2020, and 2030

| Year | Labor force increment to 2000 labor force (4,100,000), million | Labor force, million | LFPR, % | National wealth increase due to labor force increase, \$ billion | Tax revenues increase due to labor force increase, \$ billion |
|------|--|----------------------|---------|--|---|
| 2010 | 2.4 | 6.7 | 17.5 | 294 | 59 |
| 2020 | 6.9 | 11.2 | 21.5 | 1267 | 253 |
| 2030 | 9.4 | 13.7 | 20.2 | 2594 | 519 |

Table S2. Health dynamic projection of per annum national wealth and tax revenues increase for 2010, 2020, and 2030

| Year | US age 65+ population, million | Labor force increment to 2000 labor force | | | Labor force, million | LFPR, % | Annual LFPR growth, % | National wealth increase due to labor force increase, \$ billion | Tax revenues increase due to labor force increase, \$ billion | Reductions in Medicare cost due to nondisabled persons' health, \$ billion |
|------|--------------------------------|---|------|-------|----------------------|---------|-----------------------|--|---|--|
| | | DDR | MCI | Total | | | | | | |
| 2010 | 38.1 | 0.3 | 2.0 | 2.3 | 6.6 | 17.3 | 282 | 56 | 105 | |
| 2020 | 52.1 | 0.8 | 7.7 | 8.5 | 12.8 | 24.6 | 1561 | 312 | 242 | |
| 2030 | 68.0 | 1.3 | 15.5 | 16.8 | 21.1 | 31.0 | 4637 | 927 | 530 | |

Table S3. Projection (2020 and 2030) of net effects due to the labor force increase and Medicare cost reduction in nondisabled persons' health in the US elderly population

| Year | "Toossi" | | | Health dynamics model | | | | | Difference between the BLS and health dynamics model, \$ billion |
|------|----------|-------------------------------|---|-----------------------|-------------------------------|---|---|-------------------------------|--|
| | LFPR, % | Labor force increase, million | Tax revenues increase due to labor force increase, \$ billion | Projected LFPR, % | Labor force increase, million | Tax revenues increase due to labor force increase, \$ billion | Medicare cost reduction due to health improvement, \$ billion | Net total effects, \$ billion | |
| 2020 | 21.5 | 6.9 | 253 | 24.6 | 8.5 | 312 | 242 | 554 | 301 |
| | 29.5 | 11.1 | 406 | 31.3 | 12.0 | 441 | 242 | 683 | 277 |
| | 42.8 | 18.0 | 661 | 43.4 | 18.3 | 672 | 242 | 914 | 253 |
| 2030 | 21.5 | 10.3 | 569 | 31.0 | 16.8 | 927 | 530 | 1,457 | 888 |
| | 29.5 | 15.8 | 872 | 44.3 | 25.8 | 1,424 | 530 | 1,954 | 1,082 |
| | 42.8 | 24.8 | 1,369 | 65.7 | 40.4 | 2,230 | 530 | 2,760 | 1,391 |

"Toossi" model: unknown health dynamics (assume no change in health care).