### Supplemental Table S1: SNOMED-CT concepts related to function present in structured electronic health records data

| Functional Concept                                           | SNOMED-CT Concept Code | No. of Patients | Pct of Patients |
|--------------------------------------------------------------|------------------------|----------------|-----------------|
| **Mobility and Gross Motor**                                 |                        |                |                 |
| Total unique patients with any mobility limitation            |                        | 750,300        | 9.33            |
| Finding related to ability to perform gross motor function    | 364832000              | 283,580        | 3.72            |
| Gross motor impairment                                       | 228147004              | 0              | 0               |
| Finding related to ability to move                           | 364833005              | 282,040        | 3.70            |
| Finding related to ability to mobilize                       | 365092005              | 123,750        | 1.62            |
| Reduced mobility                                             | 8510008                | 3,060          | 0.04            |
| Unable to mobilize                                            | 302043000              | 5,320          | 0.07            |
| Impaired mobility                                            | 82971005               | 123,750        | 1.62            |
| Bed-ridden                                                   | 160685001              | 27,430         | 0.36            |
| Wheel-chair bound                                            | 225612007              | 33,350         | 0.44            |
| Finding related to ability to walk                           | 366727007              | 390            | 0.01            |
| Unable to move                                               | 225601007              | 490            | 0.01            |
| Difficulty moving                                            | 302002000              | <10            | <0.01           |
| Difficulty walking                                           | 719232003              | 5,860          | 0.08            |
| Finding of walking                                           | 116329008              | 530,190        | 6.96            |
| Finding of gait                                              | 298302000              | 529,950        | 6.95            |
| Finding of abnormal gait                                     | 22325002               | 519,960        | 6.82            |
| Unsteady when walking                                        | 22631008               | 1,750          | 0.02            |
| Walking disability                                           | 228158008              | 159,710        | 2.10            |
| Dependent for walking                                        | 427512004              | 0              | 0               |
| Finding related to ability to manage stairs (finding)         | 365115005              | 0              | 0               |
| Paralysis                                                     | 44695005               | 54,960         | 0.72            |
| **Fine Motor**                                               |                        |                |                 |
| Total unique patients with any fine motor limitations         |                        | <10            | <0.01           |
| Finding related to ability to perform fine motor function     | 364944003              | <10            | <0.01           |
| Fine motor impairment                                        | 228159000              | 0              | 0               |
| Fine motor disability                                        | 228148009              | 0              | 0               |
| Finding related to ability to perform general manipulative activities | 365144007              | 0              | 0               |
| Finding related to ability to pick up objects                 | 365145008              | 0              | 0               |
| Finding related to ability to perform dressing activity       | 365222007              | 0              | 0               |
| Finding related to ability to eat                            | 364787006              | 0              | 0               |
| **Large Muscle**                                             |                        |                |                 |
| Total unique patients with any large muscle limitations       |                        | 1,030          | 0.01            |
| Finding related to ability to sit                            | 364864007              | 0              | 0               |
| Finding related to ability to get in and out of a chair       | 365126004              | 0              | 0               |
| Finding related to ability to change position | 364913007 | 1,030 | 0.01 |
| Finding related to ability to bend | 364927002 | 0 | 0 |
| Finding related to ability to pull | 364883000 | 0 | 0 |
| Finding related to ability to push | 364882005 | 0 | 0 |
| Finding related to ability to push and pull | 364884006 | 0 | 0 |

**Activities of Daily Living**

| Total unique patients with any ADL limitation | 327,980 | 4.30 |
| Requires assistance with all daily activities | 443430002 | 45,840 | 0.59 |
| Basic activity of daily living | 129001003 | 1,600 | 0.02 |
| Finding related to ability to perform person care activity | 365178001 | 22,450 | 0.29 |
| Activity of daily living alteration | 129818000 | 280 | <0.01 |
| Finding related to ability to perform community living activities | 365341008 | 20 | <0.01 |
| Finding related to ability to perform domestic activities | 365242003 | 20 | <0.01 |
| Finding related to ability to perform dressing activity | 365222007 | 0 | 0 |
| Finding related to ability to eat | 364787006 | 0 | 0 |
| Functionally dependent | 718705001 | 0 | 0 |
| Dependent for dressing | 129065005 | 0 | 0 |
| Dependent for personal hygiene activity | 722178004 | 0 | 0 |
| Dependent for walking | 427512004 | 0 | 0 |
| Dependent ability to transfer location | 714916007 | 0 | 0 |
| Finding related to ability to mobilize indoors | 365098009 | 0 | 0 |
| Reduced mobility | 8510008 | 3,060 | 0.04 |
| Unable to mobilize | 302043000 | 5,320 | 0.07 |
| Impaired mobility | 82971005 | 123,750 | 1.62 |
| Bed-ridden | 160685001 | 27,430 | 0.36 |
| Wheel-chair bound | 225612007 | 33,350 | 0.44 |
| Finding related to ability to walk | 366727007 | 390 | 0.01 |
| Difficulty walking | 719232003 | 5,860 | 0.08 |
| Walking disability | 228158008 | 159,710 | 2.10 |

**Instrumental activity of daily living**

| Total unique patients with any IADL limitation | 73,810 | 0.97 |
| Instrumental activity of daily living | 129063003 | 73,810 | 0.97 |
| Finding related to ability to manage medications | 365233005 | 73,600 | 0.97 |
| Difficulty managing medications | 285038001 | <10 | <0.01 |
| Unable to manage medications | 285035003 | <10 | <0.01 |
| Medication regimen behavior finding | 422979000 | 73,600 | 0.97 |
| Non-compliance with medication regimen | 129834002 | 71,670 | 0.94 |
| Instrumental activity of daily living alteration | 129816001 | 210 | <0.01 |
| Difficulty with money management | 300692004 | 0 | 0 |
| Finding related to ability to perform community living activities | 365341008 | 20 | <0.01 |
|---------------------------------------------------------------|-----------|----|-------|
| Finding related to ability to perform telephone activities    | 365366007 | 0  | 0     |
| Finding related to ability to perform shopping activities     | 365365006 | 0  | 0     |
| Functionally dependent                                        | 718705001 | 0  | 0     |
| Housework dependent                                           | 129031009 | 0  | 0     |
| Preparing meals dependent                                     | 129068007 | 0  | 0     |
| Telephone dependent                                           | 129071004 | 0  | 0     |
| Managing money dependent                                      | 129066006 | 0  | 0     |
| Shopping dependent                                            | 129032002 | 0  | 0     |
| Traveling dependent                                           | 129074007 | 0  | 0     |

**Supplemental Table S1 caption**: Data from the IBM Watson Health Explorys network covering people that had at least one health system encounter between February 14, 2017 and February 14, 2022 (N=7,662,030). Counts represent the number of unique individuals that had that SNOMED-CT concept code present in their electronic health record structured data. Indentation is used to represent the hierarchical nature of SNOMED-CT codes. For brevity, we report only the concepts that appeared with non-zero counts in the data, along with some zero count concepts to highlight domains that were searched but yielded no cases. We searched diagnoses, findings, and observation SNOMED CT concepts, but only findings yielded any results related to physical function. Some concept codes may appear in more than one category (e.g. difficulty walking is both mobility and an ADL limitation).
Supplemental Text S1: Additional details on methodology

We used the 2016 RAND Longitudinal file of the Health & Retirement Study to obtain the national estimates of the community prevalence of functional limitations. The HRS is a national survey of older adults and all responses are self-reported from an in-person or telephone interview. The 2016 data was used because that is the most recent year for which population weights are available. The elements included for each of the six categories of functional limitations are those used by RAND. There is some overlap across domains. We combined gross motor and mobility limitations as we realized it would be difficult to separate out the two concepts in the SNOMED-CT codes available in the Explorys data. The components of each of the measures are as follows. Activities of daily living (ADL) includes difficulties bathing, eating, toileting, walking across the room, and getting in/out of bed. Instrumental ADLs (IADLs) include difficulties preparing meals, grocery shopping, making phone calls, taking medication, managing money, or using a map. Fine motor limitations include difficulties difficulty eating, difficulty dressing, and difficulty picking up a dime. Gross motor and mobility limitations include difficulties walking across the room, walking 1 or several blocks, climbing 1 or several stairs, and getting in and out of bed or bath. Large muscle limitations include difficulties in sitting for 2 hours, getting in/out of a chair, stooping, or pushing/pulling large objects.