

Table S1. ICD-9-CM codes regarding the definition of 20 common diseases

Disease	ICD-9-CM code
Hypertension	401, 402, 403, 404, 405
Diabetes	250
Congestive heart failure	39891, 40201, 40211, 40291, 40401, 40403, 40411, 40413, 40491, 40493, 4254, 4255, 4257, 4258, 4259, 428
Coronary syndrome	410, 411, 412, 413, 414
Cardiac dysrhythmias	427
Peripheral vascular disease	0930, 4373, 4400, 4401, 44020, 44021, 44022, 44023, 44024, 44029, 44030, 44031, 44032, 4408, 4409, 44100, 44101, 44102, 44103, 4411, 4412, 4413, 4414, 4415, 4416, 4417, 4419, 4431, 44321, 44322, 44323, 44324, 44329, 44381, 44382, 44389, 4439, 4471, 5571, 5579, V434
Cerebrovascular disease	36234, 430, 431, 432, 43300, 43301, 43310, 43311, 43320, 43321, 43330, 43331, 43380, 43381, 43390, 43391, 434, 4350, 4351, 4352, 4353, 4358, 4359, 436, 437, 438
Chronic pulmonary disease	4168, 4169, 490, 491, 492, 493, 4940, 4941, 4950, 4951, 4952, 4953, 4954, 4955, 4956, 4957, 4958, 4959, 496, 500, 501, 502, 503, 504, 505, 5064, 5081, 5088
Renal disease	403, 404, 5820, 5821, 5822, 5824, 58281, 58289, 5829, 5830, 5831, 5832, 5834, 5836, 5837, 584, 585, 586, 5880, V420, V451, V560, V561, V562, V5631, V5632, V568
Liver disease	07022, 07023, 07032, 07033, 07044, 07054, 0706, 0709, 570, 5710, 5711, 5712, 5713, 57140, 57141, 57149, 5715, 5716, 5718, 5719, 5733, 5734, 5738, 5739, V427, 4560, 4561, 45620, 45621, 5722, 5723, 5724, 5728
Dementia	290, 2930, 2931, 29381, 29382, 29383, 29384, 29389, 2939, 2940, 2941, 2948, 2949, 3100, 3101, 3102, 3108, 3109, 3310, 3311, 3312
Other neurological disorders	3319, 332, 3334, 3335, 33392, 3340, 3341, 3342, 3343, 3344, 3348, 3349, 3350, 33510, 33511, 33519, 33520, 33521, 33522, 33523, 33524, 33529, 3358, 3359, 3362, 340, 3410, 3411, 34120, 34121, 34122, 3418, 3419, 34500, 34501, 34510, 34511, 3452, 3453, 34540, 34541, 34550, 34551, 34560, 34561, 34570, 34571, 34580, 34581, 34590, 34591, 3481, 3483, 34830, 34831, 34839, 780, 7843
Digestive disorder	530, 531, 532, 53300, 53301, 53310, 53311, 53320, 53321, 53330, 53331, 53340, 53341, 53350, 53351, 53360, 53361, 53370, 53371, 53390, 53391, 53400, 53401, 53410, 53411, 53420, 53421, 53430, 53431, 53440, 53441, 53450, 53451, 53460, 53461, 53470, 53471, 53490, 53491, 536, 558, 564
Osteoporosis	733
Arthritis (including rheumatoid arthritis)	274, 710, 711, 714, 715, 716, 718, 720, 727, 728, 729, 739

Table S1. ICD-9-CM codes regarding the definition of 20 common diseases (continued)

Disease	ICD-9-CM code
Anxiety, dissociative and somatoform disorders	30000-30002, 30009-30016, 30019-30023, 30029, 3003, 3005-3007, 30081, 30082, 30089, 3009, 3062, 3069, 30740-30749, 3080-3084, 3089, 316
Bipolar disorder	29600-29606, 29610-29616, 29640-29646, 29650-29656, 29660-29666, 2967, 29680-29682, 29689
Depression	29620-29626, 29630-29636, 29690, 29699, 2980, 3090, 3091, 311
Schizophrenia and psychotic disorders	29500-29505, 29510-29515, 29520-29525, 29530-29535, 29540-29545, 29550-29555, 29560-29565, 29570-29575, 29580-29585, 29590-29595, 2970-2973, 2978, 2979, 2981-2984, 2988, 2989, 29900, 29901, 29910, 29911, 29980, 29981, 29990, 29991
Cancer	140-239

Figure S1. The sampling and data linkage process of the 2005 and 2010 Longitudinal Health Insurance Databases (LHID)

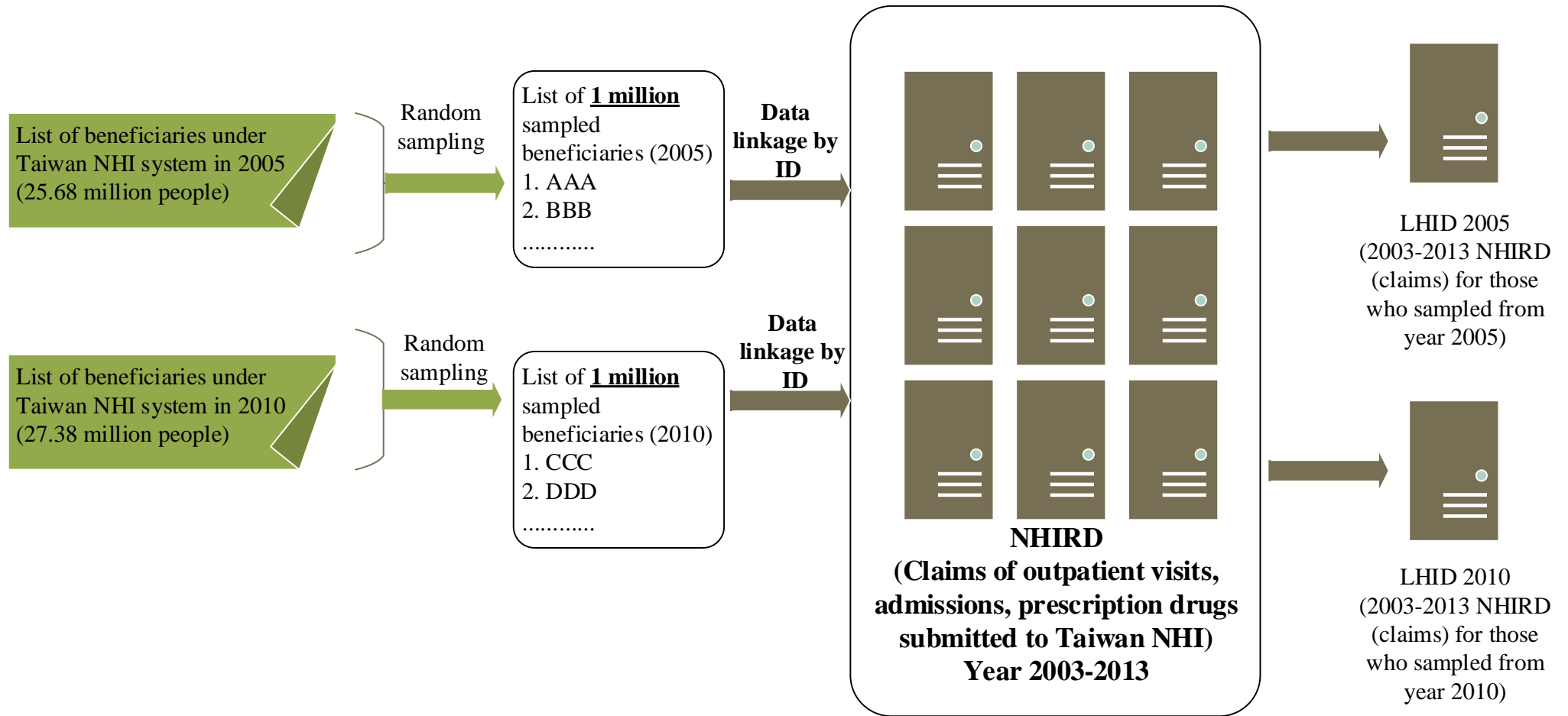
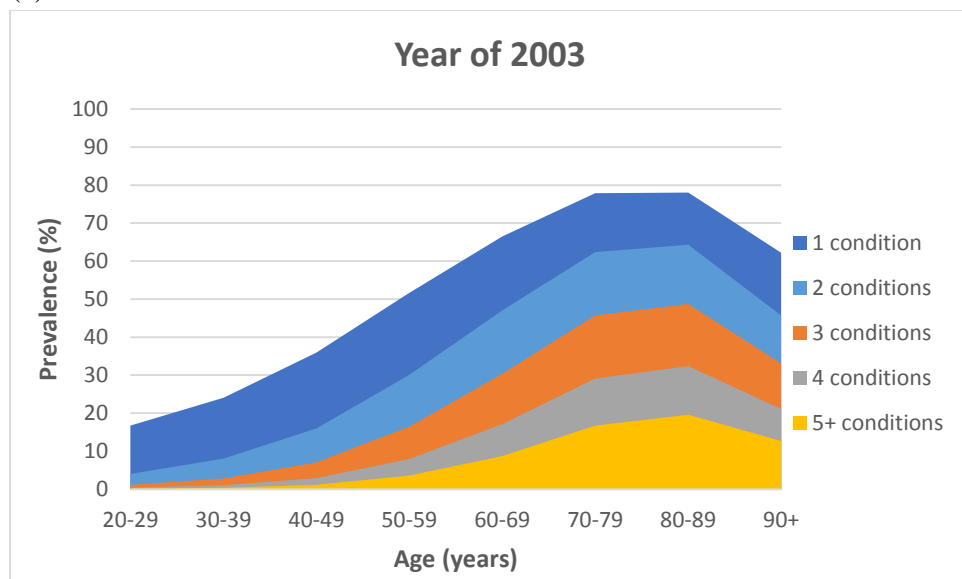


Figure S2. Prevalence of multi-morbidity in Taiwan by number of common diseases, age group, and year

(a) Year of 2003



(b) Year of 2013

