# Valuing the Invaluable: The Economic Value of Family Caregiving, 2008 Update

In 2007, about 34 million family caregivers provided care at any given point in time, and about 52 million provided care at some time during the year. The estimated economic value of their unpaid contributions was approximately \$375 billion in 2007, up from an estimated \$350 billion in 2006.

#### Introduction

In today's tumultuous economic climate, family caregivers remain the backbone of our nation's long-term care (LTC) system. Their unpaid contributions, along with those of friends and neighbors, include not only personal care and help with everyday tasks, but also health-related interventions, such as administering complex medications. In 2007, the estimated economic value of their unpaid contributions was approximately \$375 billion, up from an estimated \$350 billion in 2006.

This increase assumes the age-adjusted prevalence of caregiving is unchanged, *but* reflects an increase in the U.S. population, aging of the population, and an increase in the economic value per hour of care.

The "typical" U.S. caregiver is a 46-year-old woman who works outside the home and spends more than 20 hours per week providing unpaid care to her mother.<sup>2</sup>

This *Insight on the Issues* provides estimates of the economic value of family caregivers' contributions at both the national and state levels, using the most recent data available. It also summarizes key findings about the costs of caregiving to caregivers themselves,

as well as how informal caregiving helps to improve the quality of health and LTC and reduce the use of nursing home and inpatient hospital care, from studies that have been published over roughly the last three years. A summary of other pertinent literature prior to 2006 may be found in the original publication in the *Valuing the Invaluable* series.<sup>3</sup>

# **Estimates at the National Level**

The figure of \$375 billion is based on 34 million caregivers age 18 or older providing an average of 21 hours of care per week to adults with limitations in daily activities, at an average value of \$10.10 per hour. The estimate of 34 million represents the number of caregivers providing care at any given point in time. The number of adults providing care at some point during the year is significantly higher, estimated at 52 million in 2007.

#### **How These Estimates Were Made**

We identified five recent publications with estimates of the prevalence of caregivers and/or hours of care provided based on nationally representative surveys. Each of these surveys varied in the definition of caregiving, age groups represented, and year of survey.



Combining prevalence data from all five surveys, we classified caregivers by care recipient age, and estimated the number of caregivers in each of four age tiers (ages 18–59, 60–74, 75–84, and 85+) per person in the age group for each state. The economic value of caregiving was then calculated by (number of caregivers at any given time) x (hours of care per caregiver per year) x (economic value per hour) in each state. For a complete description of the methodology, please see www.aarp.org/research/housing-mobility/caregiving/i13\_caregiving.html.

### What These Estimates Include

These estimates include only adults currently providing care at any given point in time to adults with limitations in daily activities. Because of data limitations, the estimates do not include caregivers and care recipients under age 18; nor do they include caregivers who provide assistance to adults who have chronic health conditions but do not have a limitation in an activity of daily living (ADL) or instrumental activity of daily living (IADL).

In addition, we used a relatively low estimate of the average value of family caregivers' time, at about \$10 per hour; yet family caregivers may engage in many types of activities, ranging from assistance with shopping to complex care coordination to health-related interventions, such as managing intravenous medications. Moreover, the "opportunity costs" of foregone wages and nonwage benefits such as health insurance or pension benefits are not included.

It should be noted that \$375 billion is a rough estimate, based on our best estimate of the number of caregivers and hours per year, and it is a somewhat conservative estimate. Table 1 gives the range of estimates, using high, medium, and low estimates of the number of

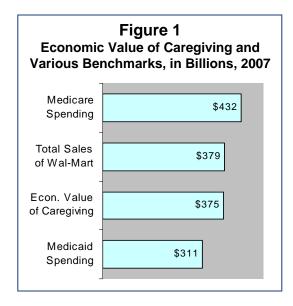
		Number of Caregivers		
		Low (29	Med. (34	High (41
		million)	million)	million)
er Hour	High (\$18.22 /hr)	\$570 billion	\$675 billion	\$800 billion
Economic value per Hour	Med. (\$10.10 /hr)	\$315 billion	\$375 billion	\$445 billion
Econol	Low (\$6.64 /hr)	\$205 billion	\$245 billion	\$290 billion

caregivers and economic value per hour. Depending on assumptions and data sources used, the total economic value of caregiving may be as high as \$800 billion.<sup>8</sup>

# How Much Is \$375 Billion?

Some benchmarks can help to put this figure in more meaningful context. The estimated \$375 billion is:

- More than total Medicaid spending in 2007, including both federal and state contributions for both medical and long-term care (\$311 billion).
- As much as the total sales of the world's largest companies, including Wal-Mart Stores (\$379 billion in 2007, the most of any company) and ExxonMobil (\$359 billion).
- Approaching total expenditures for the Medicare program (\$432 billion in 2007). 11
- More than \$1,000 for every person in the United States (302 million people as of July 1, 2007). 12
- About 2.7 percent of the U.S. gross domestic product (\$13.8 trillion in 2007). 13



# State Variation

The most important factor in determining the number of caregivers in each state is state population. However, caregiving prevalence also varies among states, reflecting differences in the age structure of the population, rates of disability and chronic health conditions, and cultural and economic factors. There is also significant variation in economic value per hour among states. Table 2 presents estimates of the number of caregivers, economic value per hour, and total economic value of caregiving in every state and the District of Columbia.

Table 3 compares the total economic value of caregiving to three measures in each state: total Medicaid spending, Medicaid LTC spending, and Medicaid home- and community-based services (HCBS) spending. <sup>14</sup> State-to-state variation in these ratios is mostly due to variation in state Medicaid spending.

Total Medicaid spending ranges from less than \$500 per capita in Nevada to more than \$2,000 per capita in New York and the District of Columbia.

States differ even more dramatically in Medicaid spending for LTC, from about

\$125 to more than \$900 per capita, and in spending for HCBS, from about \$50 to more than \$400 per capita.

The economic value of caregiving exceeded total Medicaid LTC spending in all states, and was more than three times as high in 36 states.

Compared to Medicaid HCBS spending, the economic value of family caregiving was at least three times as high in all states, and more than 10 times as high in 19 states.

# The Costs of Caregiving

The costs of caregiving to caregivers themselves are more than a simple accounting of hours. They also include:

#### **Direct Out-of-Pocket Costs**

Caregivers to persons age 50 or older reported spending an average of \$5,531 out-of-pocket in 2007. Long-distance caregivers had the highest annual expenses (\$8,728), compared to coresident caregivers (\$5,885) and those who cared for someone nearby (\$4,570).<sup>15</sup>

# **Economic Insecurity Due to Changes in Work Patterns**

The loss of wages, health insurance and other job benefits, retirement savings, and Social Security benefits holds serious consequences for caregivers. More than one-third (37%) of caregivers to persons age 50 older reported quitting their job or reducing their work hours in 2007. Another recent study found that midlife women in the labor force who begin caregiving are more likely to leave the labor force entirely than to reduce their hours. <sup>17</sup>

#### **Health Effects and Costs**

Caregivers are at risk of becoming "patients" themselves, according to a recent summary of decades of evidence

Table 2 Number of Caregivers and the Economic Value of Caregiving, by State, 2007							
		Number o	f Caregivers				
State	Total State	At any	At any time	Economic	Total Value		
	Population	given time	during the year	Value/Hour	(millions)		
	4 400 000			40.40	<b>07.200</b>		
Alabama	4,630,000	570,000	860,000	\$8.49	\$5,200		
Alaska	683,000	74,000	117,000	\$13.10	\$1,050		
Arizona	6,340,000	610,000	920,000	\$10.50	\$6,900		
Arkansas	2,830,000	360,000	550,000	\$8.80	\$3,500		
California	36,600,000	4,000,000	6,100,000	\$11.05	\$48,000		
Colorado	4,860,000	540,000	840,000	\$11.04	\$6,500		
Connecticut	3,500,000	370,000	560,000	\$12.37	\$4,900		
Delaware	865,000	105,000	158,000	\$11.31	\$1,280		
Dist. of Columbia	588,000	57,000	87,000	\$10.82	\$670		
Florida	18,250,000	1,800,000	2,700,000	\$9.89	\$19,200		
Georgia	9,540,000	1,330,000	2,000,000	\$9.07	\$13,000		
Hawaii	1,283,000	113,000	169,000	\$11.92	\$1,450		
Idaho	1,499,000	162,000	250,000	\$9.13	\$1,600		
Illinois	12,850,000	1,490,000	2,300,000	\$10.60	\$17,100		
Indiana	6,350,000	720,000	1,100,000	\$9.91	\$7,800		
Iowa	2,990,000	300,000	450,000	\$10.25	\$3,400		
Kansas	2,780,000	270,000	410,000	\$9.24	\$2,700		
Kentucky	4,240,000	530,000	800,000	\$9.51	\$5,400		
Louisiana	4,290,000	560,000	850,000	\$8.13	\$4,900		
Maine	1,317,000	153,000	230,000	\$11.18	\$1,840		
Maryland	5,620,000	600,000	920,000	\$10.12	\$6,600		
Massachusetts	6,450,000	690,000	1,040,000	\$11.86	\$8,800		
Michigan	10,070,000	1,280,000	1,940,000	\$10.41	\$14,400		
Minnesota	5,200,000	590,000	900,000	\$11.11	\$7,100		
Mississippi	2,920,000	460,000	690,000	\$8.18	\$4,000		
Missouri	5,880,000	590,000	890,000	\$9.84	\$6,300		
Montana	958,000	111,000	167,000	\$9.53	\$1,140		
Nebraska	1,775,000	177,000	270,000	\$10.48	\$2,000		
Nevada	2,570,000	280,000	430,000	\$10.81	\$3,300		
New Hampshire	1,316,000	147,000	220,000	\$11.55	\$1,830		
New Jersey	8,690,000	980,000	1,470,000	\$11.16	\$11,800		
New Mexico	1,970,000	210,000	320,000	\$9.36	\$2,100		
New York	19,300,000	2,200,000	3,300,000	\$10.61	\$25,000		
North Carolina	9,060,000	1,110,000	1,690,000	\$9.63	\$11,600		
North Dakota	640,000	56,000	83,000	\$9.74	\$580		
Ohio	11,470,000	1,320,000	1,990,000	\$9.92	\$14,200		
Oklahoma	3,620,000	380,000	570,000	\$9.15	\$3,700		
Oregon	3,750,000	410,000	620,000	\$10.91	\$4,800		
Pennsylvania	12,430,000	1,390,000	2,100,000	\$10.39	\$15,600		
Rhode Island	1,058,000	114,000	171,000	\$11.94	\$1,470		
South Carolina	4,410,000	580,000	880,000	\$8.99	\$5,700		
South Dakota	796,000	87,000	130,000	\$9.87	\$920		
Tennessee	6,160,000	780,000	1,180,000	\$9.23	\$7,800		
Texas	23,900,000	2,800,000	4,200,000	\$8.76	\$26,000		
Utah	2,650,000	340,000	520,000	\$9.68	\$3,500		
Vermont	621,000	55,000	83,000	\$11.45	\$680		
Virginia	7,710,000	910,000	1,390,000	\$9.38	\$9,200		
Washington	6,470,000	640,000	970,000	\$11.43	\$7,900		
West Virginia	1,812,000	280,000	420,000	\$8.23	\$2,500		
Wisconsin	5,600,000	590,000	890,000	\$10.32	\$6,600		
Wyoming	523,000	55,000	84,000	\$9.84	\$580		
United States	302,000,000	34,000,000	52,000,000	\$10.10	\$375,000		

Table 3 Ratio of Economic Value of Caregiving to Medicaid Spending, by State, 2007 Ratio of Economic Value of Caregiving to								
Alabama	1.27	4.2	14.6					
Alaska	1.10	3.1	5.0					
Arizona**	1.04	n/a	n/a					
Arkansas	1.09	3.5	11.7					
California	1.55	5.0	9.1					
Colorado	2.19	5.8	11.3					
Connecticut	1.13	2.2	6.1					
Delaware	1.29	4.4	12.3					
Dist. of Columbia	0.50	1.8	5.4					
Florida	1.40	4.6	13.5					
Georgia	1.81	8.7	22.8					
Hawaii	1.30	3.9	9.8					
Idaho	1.45	4.3	9.9					
Illinois	1.35	5.7	18.1					
Indiana	1.51	4.7	14.0					
Iowa	1.27	2.9	7.7					
	1.27	3.1	5.8					
Kansas								
Kentucky	1.18	4.2	13.8					
Louisiana	1.01	3.7	10.1					
Maine	0.87	2.8	5.5					
Maryland	1.19	3.8	9.3					
Massachusetts	0.86	3.0	7.7					
Michigan	1.57	6.3	18.9					
Minnesota	1.15	2.6	4.1					
Mississippi	1.23	3.7	29.3					
Missouri	0.95	4.0	8.9					
Montana	1.56	3.9	8.7					
Nebraska	1.30	3.2	8.4					
Nevada	2.65	10.2	22.5					
New Hampshire	1.53	3.4	8.7					
New Jersey	1.32	3.4	11.6					
New Mexico	0.82	3.0	4.1					
New York	0.61	1.4	3.0					
North Carolina	1.19	4.0	8.9					
North Dakota	1.13	1.9	7.3					
Ohio	1.09	3.0	9.9					
Oklahoma	1.10	3.4	7.9					
Oregon	1.65	4.5	6.2					
Pennsylvania	0.98	2.5	8.9					
Rhode Island	0.84	2.6	5.7					
South Carolina	1.36	5.7	16.4					
South Dakota	1.49	3.6	9.2					
Tennessee	1.09	3.8	12.8					
Геxas	1.27	5.3	12.5					
Utah	2.51	9.8	25.3					
Vermont**	0.65	n/a	n/a					
Virginia	1.86	5.7	14.5					
virginia Washington	1.38	4.3	6.9					
wasnington West Virginia		3.0	7.3					
West Virginia	1.13	3.0	7.3					

<sup>\*</sup> In this table, LTC and HCBS spending include home health. Spending data are from B. Burwell, K. Sredl, and S. Eiken, Medicaid Long Term Care Expenditures FY 2007 (Thomson Reuters, 2008). \*\* Both Arizona and Vermont operate large managed care programs through 1115 waivers, so comparable data on Medicaid LTC and HCBS spending are not available for these states.

3.1

2.9

3.7

6.8

5.3

1.31

1.35

1.20

Wisconsin

Wyoming

**United States** 

on the physical and mental health effects of caregiving. The greater the intensity in the type or quantity of assistance provided, the greater the magnitude of the health effects, which are largely due to chronic stress. Not surprisingly, problems paying medical bills and medical debt are more frequent among caregivers than among noncaregivers.

# Effects on the Health and Long-Term Care Systems

Long recognized as the foundation of the nation's LTC system, family caregivers are also critical resources in the nation's health care system. Both the aging of the population and shortages of health and LTC workers, including nurses and paraprofessionals, are placing additional pressure on health and LTC systems.<sup>20</sup> Trends toward shorter hospital stays and greater reliance on home- and community-based care rather than nursing home care continue. And the increasing number of veterans with traumatic brain injuries and other severe disabilities can present lifelong challenges to family members, including older parents as well as spouses.

Evidence that family caregiver support delays or prevents the use of nursing homes continues to accumulate. 21 Recent analysis also provides support for initiatives to reduce stress among persons caring for chronically disabled elders as a strategy to reduce or defer nursing home entry. 22

People who have family caregivers tend to have shorter hospital stays, <sup>23</sup> while the absence of a family caregiver has been linked to hospital readmissions. <sup>24</sup> Informal care by adult children reduces Medicare inpatient expenditures of single older persons, as well as expenditures for home health and skilled nursing facility care. <sup>25</sup> The 39 percent of Medicare beneficiaries 65 or older who are accompanied to routine medical visits, most commonly by spouses or

adult children, are older, less educated, and in worse health than those not accompanied. The presence of these companions during physician visits facilitates communication and increases patient satisfaction.<sup>26</sup>

The role of family caregivers as critical partners with professionals in the care of patients with chronic illnesses, along with the need for better communication with and support of family caregivers, has been established.<sup>27</sup> Interventions that focus on the roles of family caregivers during care transitions show positive results, ranging from better patient outcomes in functional status and quality of life to reduced rehospitalizations. 28,29 For example, better discharge planning involving family caregivers during transitions from hospital to home may not only improve quality of care but also help to avert early hospital readmission among Medicare beneficiaries.<sup>30</sup>

#### Conclusions

For both ethical and economic reasons, it is essential to prevent family caregivers from being overwhelmed by the demands placed upon them. The cost of funding more services and supports for caregivers is minute compared to the value of their unpaid contributions. Moreover, caregivers help to contain health and long-term care costs by delaying or preventing the use of nursing home care and hospital inpatient care. The following policy recommendations could all be implemented at small fractions of the value of unpaid caregivers' contributions. These recommendations apply to policies at both the federal and state levels.

 Implement "family-friendly" workplace policies that include flextime and telecommuting, referral to supportive services, and caregiver support programs in the workplace.

- Assess family caregivers' own needs, such as through publicly funded home- and community-based service programs, and provide or refer them to supportive services.
- Provide paid leave to permit caregivers to care for an ill child, spouse, or parent, including expanding the Family and Medical Leave Act (FMLA) to provide paid leave and to cover more workers for longer periods.<sup>31</sup>
- Expand funding for the National Family Caregiver Support Program (NFCSP). The total budget for NFCSP funding, including the funding for Native American Caregiver Support, is \$166 million for fiscal year 2008. This represents less than one-twentieth of 1 percent of the economic value of caregivers' contributions.
- Provide adequate funding for respite programs, including the Lifespan Respite Care Act, which was enacted in 2006 but for which no funding has yet been provided.
- Provide financial assistance for family caregivers, such as a tax credit for caregiving. A \$3,000 tax credit, the amount that would be provided as part of several federal legislative proposals, would help to offset some of the direct expenses of eligible caregivers. Many of these caregivers would still bear high costs associated with caregiving, including lost wages and employment benefits, lower retirement benefits, poorer health status, and higher medical expenses of their own.
- Recognize and support the role of family caregivers in chronic care coordination programs and care transitions.

 Encourage nurses, social workers, and other health professionals to provide greater support to family caregivers and to engage them as partners in care.

<sup>&</sup>lt;sup>1</sup> See M. J. Gibson and A. Houser, *Valuing the Invaluable: A New Look at the Economic Value of Family Caregiving*, AARP Public Policy Institute Issue Brief IB-82 (Washington, DC: AARP, June 2007); and A. Houser and M. J. Gibson, *Valuing the Invaluable: A New Look at State Estimates of the Economic Value of Family Caregiving (Data Update)*, AARP Public Policy Institute Data Digest DD158R (Washington, DC: AARP, November 2007). This *Insight on the Issues* updates the estimates of the number of caregivers and economic value of caregiving.

<sup>&</sup>lt;sup>2</sup> Caregiving in the U.S. (Bethesda, MD: National Alliance (NAC) and Washington, DC: AARP, 2004).

<sup>&</sup>lt;sup>3</sup> See Gibson and Houser (June 2007).

<sup>&</sup>lt;sup>4</sup> We considered surveys that asked whether someone was "currently providing care" or "providing care within the last month" to be equivalent "any given point in time" measures.

<sup>&</sup>lt;sup>5</sup> The five publications are NAC and AARP, Caregiving in the U.S. (2004); P. Arno, Estimated Prevalence and Economic Value of Family Caregiving, by State (2004) (Kensington, MD: National Family Caregivers Association & San Francisco, CA: Family Caregiver Alliance, 2006); R. W. Johnson and S. G. Schaner, Many Older Americas Engage in Caregiving Activities (Washington, DC: Urban Institute, 2005); R. W. Johnson and J. M. Wiener, A Profile of Frail Older Americans and Their Caregivers, (Washington, DC: Urban Institute, 2006); and S. L. McKune, et al., Caregiving: A National Profile and Assessment of Caregiver Services and Needs (Americus, GA: Rosalynn Carter Institute, 2006).

<sup>&</sup>lt;sup>6</sup> ADLs include bathing, dressing, and eating; IADLs include managing medications or finances. Due to data limitations, the estimates do not include persons providing care to children under 18 with disabilities, caregivers under age 18 providing care to adults, or grandparents providing care for children under 18.

<sup>&</sup>lt;sup>7</sup> The value per hour was estimated at the state level as a weighted average of the state minimum wage (w), home health aide median wage (x), and average private pay hourly rate for hiring a home health aide(y), given by (w+x+0.5y)/2.5

- <sup>8</sup> The high and low estimates of the number of caregivers are the average of the two highest and two lowest of the five data sources used to estimate prevalence. The high estimate for the value per hour uses the average private pay hourly rate for hiring a home health aide, and the low estimate uses the state minimum instead of the weighted average in note 7.
- <sup>9</sup> B. Burwell, K. Sredl, and S. Eiken, *Medicaid Long Term Care Expenditures FY 2007* (New York, NY: Thomson Reuters, 2008).
- <sup>10</sup> Forbes.com, Special Report: The Global 2000, www.forbes.com/lists/2008/18/biz\_2000global08\_The -Global-2000 Sales.html.
- <sup>11</sup> Center for Medicare and Medicaid Services, 2008 Medicare Trustees report, www.cms.hhs.gov/ReportsTrustFunds/
- <sup>12</sup> U.S. Census Bureau, Population Estimates Program, Table DP-1: General Demographic Characteristics: July 2007.
- <sup>13</sup> U.S. Department of Commerce, Bureau of Economic Analysis, NIPA table 1.1.5, 2007-A.
- <sup>14</sup> In this report, LTC and HCBS spending include home health services.
- <sup>15</sup> Family Caregivers What They Spend, what They Sacrifice: The Personal Financial Toll of Caring for a Loved One. (Minnetonka, MN: Evercare & Bethesda, MD: NAC, 2007).
- 16 Ibid.
- <sup>17</sup> E. K. Pavalko and K. A. Henderson, Combining Care Work and Paid Work: Do Workplace Policies Make a Difference? *Research on Aging*, 28(3):359–374 (May 2006).
- <sup>18</sup> S. Reinhard, A. Danso-Brooks, and K. Kelly, eds., State of the Science: Professional Partners Supporting Family Caregivers, *American Journal of Nursing*, 108(9 supplement) (September 2008), www.nursingcenter.com/ajnfamilycaregivers.
- <sup>19</sup> R. Schulz and P. R. Sherwood, Physical and Mental Health Effects of Family Caregiving, in Reinhard, Danso-Brooks, and Kelly, eds. (2008), pp. 12–26.
- <sup>20</sup> Institute of Medicine, *Retooling for an Aging America* (Washington, DC: The National Academies Press. 2008).
- <sup>21</sup> M. S. Mittleman, et al., Improving Caregiver Wellbeing Delays Nursing Home Placement of Patients with Alzheimer's Disease, *Neurology* 67(9):1592–1599 (2006).
- <sup>22</sup> B. Spillman and S. Long, Does High Caregiver Stress Lead to Nursing Home Entry? paper prepared for the Office of Disability, Aging, and Long-Term

- Care Policy, U.S. Department of Health and Human Services, January 26, 2007.
- <sup>23</sup> G. Picone, R. M. Wilson, and S. Chous, Analysis of Hospital Length of Stay and Discharge Destination Using Hazard Functions with Unmeasured Heterogeneity, *Heath Economics* 12(12):1021–1034 (2003).
- <sup>24</sup> E. C. Schwarz, Identification of Factors Predictive of Hospital Readmissions for Patients with Heart Failure, *Heart & Lung* 32:88–99 (2003).
- <sup>25</sup> C. H. Van Houten and E. C. Norton, Informal Care and Medicare Expenditures: Testing for Heterogeneous Treatment Effects, *Journal of Health Economics* 27:134–156 (2008).
- <sup>26</sup> J. L. Wolff and D. L. Roter, Hidden in Plain Sight: Medical Visit Companions as a Resource for Vulnerable Older Adults, *Archives of Internal Medicine* 168(13):1409–1415 (2008).
- <sup>27</sup> S. C. Reinhard, et. al., Supporting Family Caregivers in Providing Care, in *Patient Safety and Quality: An Evidence-Based Handbook for Nurses*, ed. R. G. Hughes, Vol. 08-0043 (Rockville, MD: Agency for Healthcare Research and Quality, 2008).
- <sup>28</sup> M. Naylor, and S. Keating, Transitional Care, in Reinhard, Danso-Brooks, and Kelly, eds. (2008), pp. 58–63.
- <sup>29</sup> E. A. Coleman and S. Chalmers, The Care Transitions Intervention: Results of a Randomized Controlled Trial. *Archives of Internal Medicine* 166:1822–1828 (2006).
- <sup>30</sup> I. Arbaje, et al., Postdischarge Environmental and Socioeconomic Factors and Likelihood of Early Hospital Readmission Among Community-Dwelling Medicare Beneficiaries, *The Gerontologist*, *48*(4): 495–504 (2008).
- <sup>31</sup> FMLA allows individuals who work for employers with 50 or more employees to take up to 12 weeks of unpaid leave to care for themselves, a child, spouse, or parent in the case of serious illness.

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