Medical Cost Trend:
Behind the Numbers 2016

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Health Research Institute
The heart of the matter

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An in-depth discussion

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A look at: health spending over the next 10 years

With ongoing pressure from purchasers, and competition from non-traditional new entrants, the question for healthcare providers, insurers and life sciences companies is: Will that be enough over the next decade?
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Not long ago, experts bemoaned the “unsustainable” healthcare spending growth rate, consuming ever larger portions of family, business and government bank accounts.

Today, 10 years after PwC’s Health Research Institute (HRI) began issuing its projection for the coming year’s medical cost trend, the growth rate has slowed. HRI anticipates a 6.5% rate for 2016. After likely changes in benefit plan design, such as higher deductibles and co-pays, the net growth rate is expected to be two percentage points lower at 4.5%.

Yet medical inflation still outpaces general economic inflation, underscoring the challenges ahead for an industry still chasing the elusive concept of value. And while the health sector has adopted structural changes that improve efficiency and quality, much of the slowing growth is attributable to cost-shifting onto consumers who face difficult decisions around what health services to buy—when, where and at what price.

HRI’s analysis measures spending growth in the employer-based market—the foundation of the US health system, covering about 150 million Americans. Changes to government health insurance, including new plans sold on public exchanges, are not within the purview of this analysis—but spending growth for government plans such as Medicare has slowed as well.

Several factors will intensify spending in the year ahead. New specialty drugs entering the market in 2015 and 2016 bring with them the hope for new cures and treatments, but at a high cost. As with Hepatitis C, the health system will once again be faced with how to pay for products whose benefits may not be realized for many, many years. Major cyber security breaches are prompting health companies to take extra steps to protect sensitive personal information from external threats. Investments to guard personal health data will add to the overall cost of delivering care in 2016 and beyond.

But moderating forces are expected to hold growth in check. Insurance plan designs influence how often and to what extent employees use health services. HRI research confirms that employers intend to continue shifting costs onto employees, which prompts many workers to scale back on services or search for alternatives.

Although virtual care is not new, its use will ramp up significantly in 2016. Both government and private purchasers are adding a wide range of telehealth services to its covered benefits. Costs are falling as hospitals move away from capital intensive “brick and mortar” care and instead monitor patients remotely, while consumers trade office visits for virtual ones.

With the ten-year anniversary of HRI’s Medical Cost Trend: Behind the Numbers, we identify the major trends of the last decade—more consumer cost-sharing, greater use of technology and shifting care from inpatient settings to physician offices, retail clinics and even the home. But with ongoing pressure from purchasers, and competition from non-traditional new entrants, the question for healthcare providers, insurers and life sciences companies is: Will that be enough over the next 10 years?
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Executive summary

Spending growth in the $2.9 trillion US health economy is expected to slow in 2016 as compared to 2015, but it will still outpace overall economic inflation. Stock prices, earnings reports and the customer base have increased and that means the industry is financially healthy. Affordable healthcare, however, remains out-of-reach for many consumers.¹

For this research, HRI interviewed industry executives, health policy experts and health plan actuaries whose companies cover more than 100 million employer-based members. HRI also analyzed results from PwC’s 2015 Health and Well-being Touchstone survey of more than 1,100 employers from 36 industries, and a national consumer survey of more than 1,000 US adults. In this year’s report, we identified:

Three factors expected to “deflate,” or reduce, the healthcare growth rate in 2016:

- **Looming “Cadillac tax” accelerates cost-shift**—the ACA’s insurance excise tax set to begin in 2018 is already influencing employer’s benefit design. To avoid paying the 40% tax on health plan premiums over $10,200 for individual coverage and $27,500 for self and spouse or family coverage, employers are upping the amount that employees must pay thereby reducing their costs.²

- **Virtual care**—new technology increasingly renders virtual visits more efficient and convenient than traditional medical care. Hospitals are already using remote monitoring to improve outcomes and bring down treatment costs. Large companies now see telehealth as a valuable tool for primary care.

- **New health advisers**—are helping to steer consumers to more efficient healthcare. With more experience in consumer retail services, these advisers provide information, incentives, and disincentives—all tools to assist employees with making good choices when seeking health treatment.

Going the other way, there are two factors expected to “inflate,” or boost, the spending trajectory in 2016:

- **Specialty drugs**—as the price of high-cost Hepatitis C therapies is being challenged, the next wave of specialty drugs begins. The majority of FDA drug approvals is for specialty drugs and, because of their high costs, will require new ways to identify, manage and pay for these treatments as well as quantify their value in reducing other types of healthcare services.

- **Cyber security**—large-scale security breaches add a new layer of expense to the health business, as companies move quickly to secure and protect the vast amount of personal health data they possess. The sophistication of attacks means health providers need to spend money on both prevention and, if a breach occurs, remediation.

What this means for your business

More Americans with health insurance and an improving economy have not increased the medical spending trajectory. Structural changes have helped keep costs in check. But there is still much to be done as long as health spending continues to outpace gross domestic product and individual consumers and companies struggle to afford services. Health companies must restrain costs when bringing new cures and technology to consumers.

Affordability moves front and center in the New Health Economy. Employers must pursue strategies that not only strengthen their bottom line but better equip workers to make informed health decisions—or they will likely pay a high cost in the long run. User-friendly technology offers opportunities for greater transparency, remote care delivery and true comparison shopping.
A 10-year perspective

When HRI made its first projection of healthcare spending, the growth rate for 2007 was nearly 12%. The trend ticked down in 2008 but remained high for the next four years—even in the midst of the Great Recession and slow economic recovery.

Much has changed since then. Technology investments, which for many years hit the expense account on the ledger are now translating into the savings of virtual health. In the old world of first dollar coverage, employees were largely insulated from out-of-pocket costs. Now consumers shop around, often finding savings and convenience in retail-style new entrants. Understanding the factors that have slowed spending growth will enable health organizations of the future to thrive in the New Health Economy.

Here are four key trends we have observed over the past decade.

The healthcare-spending trajectory has leveled off but is not decreasing

The growth rate of all US health expenditures has decreased by about 1% every decade since 1961 (see Figure 1). But the slowing growth still represents a rise in total healthcare costs, especially as compared against inflation. In one sense, the nation has reckoned with the unsustainability of healthcare costs and taken steps to bend the cost curve. Still, private healthcare spending continues to increase faster than the economy and is now at 17.4% of GDP.

“Medical costs cannot continue to grow faster than per capita incomes indefinitely. As we get closer to 25% of GDP, spending will have to be constrained,” said Tom Getzen, executive director of the International Health Economics Association and professor of insurance and healthcare management at Temple University.

“As health spending grows faster than the rest of the economy, resistance to further increases can begin to slow down the growth—or bend the cost curve.”


Figure 1: Although the health spending growth rate is slowing, it still continues to be a disproportionately large part of the US economy
Year-over-year growth in national health expenditures adjusted for inflation and % of total GDP

Cost-sharing slows consumer use of health services

Over the last decade, employers have relied increasingly on cost-sharing to manage use of medical services and the resulting costs. Employers offering high-deductible health plans grew almost 300% since 2009 when HRI began tracking employer health plan design through the PwC Health and Well-being Touchstone surveys of major US companies. Over the same time period, average in-network deductibles and out-of-network deductibles increased by roughly $500 and $1000, respectively.

When consumers pay more for their care, they think twice about which provider to choose or whether another set of tests is really necessary (see Figure 2). Although this may screen out unnecessary use, the consumer cost factor may also inhibit valuable medical attention including early diagnoses and chronic care management. A worsening health condition is ultimately far more costly for everyone.

Rather than foregoing needed care, employers and health plans are now creating tools to help consumers make informed choices (see deflator #3: New health advisers guide the way to better value care).

Employers offering high-deductible health plans grew almost 300% since 2009.

Figure 2: As cost-sharing increases, consumers forego care
Average employer insurance deductible vs. percentage of consumers foregoing care

Source: PwC 2015 Health and Well-being Touchstone survey, Gallup Poll, and PwC HRI consumer surveys

In-Network Deductible

% of US consumers that forego medical care

Average in-network deductible ($/year)


Source: PwC 2015 Health and Well-being Touchstone survey, Gallup Poll, and PwC HRI consumer surveys
“For the first time in 16 years, we’ve seen a decrease in hospital prices,” explained Charles Roehrig, director of Altarum’s Center for Sustainable Health Spending. “While Medicare and commercial insurance payment policies are clearly important here, this could also be a sign that changes in patient delivery models are indeed impacting costs.”

**Figure 3: Inpatient care volume on a rapid decline**

Changes in hospital inpatient and outpatient utilization

![Graph showing inpatient admissions and outpatient visits from 2003 to 2016](chart.png)

Source: American Hospital Association 2013 data and HRI analysis

Curtailing inpatient care lowers costs

Hospital costs contribute over one-third of total health spending for the privately insured. In response, more care has shifted to less expensive ambulatory centers, retail health clinics and physician offices. Since 2003, the number of outpatient visits has increased 12% while inpatient care has decreased by nearly 20% (see Figure 3).

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The Affordable Care Act has had minimal direct effect on employer health costs

Since its passage in 2010, the ACA has not had major direct impacts on spending in the employer-based insurance market. Only 4% of employers saw a significant impact from the $2,000 penalty imposed under the law’s employer mandate. Most of the issues, where employers saw some impact, were reporting requirements. But even reporting requirements did not have a significant impact on the majority of employers according to the PwC 2015 Health and Well-being Touchstone survey of large employers (see Figure 4).

However, the pending Cadillac tax on high-cost plans has firms worried and taking anticipatory steps (see deflator # 1: As the Cadillac tax looms, employers accelerate cost shifts), with 64% of employers expecting it to have an impact on their company.9

Employers are taking steps to mitigate any potential cost, including scaling-back benefits by raising deductibles, co-payments and co-insurance, moving to high-performance networks, and changing to high-deductible health plans.

After witnessing a decade shaped by large forces—the economy, technological advances, a new law—health spending in 2016 is noteworthy for an exception to that trend. Now almost all of the inflators and deflators hinge on individual consumers and how they respond to the emerging incentives and penalties employed by employers, purchasers and government.

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**Figure 4: Most employers indicate ACA is not a major cost driver**
Percentage of US employers that responded that the following ACA components have had a significant financial effect on their business

- **36%** Reporting and compliance requirements
- **31%** Excise tax on high-cost plans (Cadillac Tax)
- **25%** Additional fees and taxes (PCORI and reinsurance)
- **24%** Large employer reporting for employer shared responsibility
- **16%** Reporting of minimum essential coverage
- **4%** Free rider $2,000 penalty per FTE

Source: PwC 2015 Health and Well-being Touchstone survey10
PwC’s Health Research Institute (HRI) projects 2016’s medical cost trend to be 6.5%—slightly lower than the 6.8% projected for 2015 (see Figure 5). The net growth rate in 2016, after accounting for benefit design changes such as higher deductibles and narrow provider networks, is expected to be 4.5%. Benefit design changes typically hold down spending growth by shifting costs to consumers, who often choose less expensive healthcare options.

This projection is based on HRI’s analysis of medical costs in the large employer insurance market, which covers about 150 million Americans. By comparison, Medicare serves 55 million beneficiaries and about 11 million Americans enrolled in the ACA’s public exchanges.11

The slight downward shift in 2016 projections can be attributed to various underlying factors. With the Cadillac tax on the horizon, insurers and employers are under pressure to find cost-effective ways to lower health spending. Insurers will offer more risk-based contracts to providers, and companies will find more ways to share costs with their employees to mitigate this pressure.

Although costly specialty drugs have gone mainstream and a few additional blockbusters are slated to be released this year and next, insurers will be more prepared to price the cost into premiums. Unlike the unanticipated impact of the Hepatitis C drugs on costs, insurers are more closely tracking the drug development pipeline and the patient populations who will take them.

Additionally, as members continue to demand convenience and personalization in their healthcare—and price transparency—we will see the expansion of virtual care and new tools and technologies that cater to consumer needs. Consequently, these tools, such as primary care visits delivered by telehealth, will help healthcare organizations find cost-effective ways to provide care.

What is medical cost trend?
Medical cost trend, or the healthcare growth rate, is the percentage increase in the cost to treat patients from one year to the next. While it can be defined in several ways, this report estimates the projected increase in per capita costs of medical services that affect commercial insurers and large, self-insured businesses. The projection is used by insurance companies to calculate health plan premiums for the coming year. For example, a 10% cost trend means that a plan that costs $10,000 per employee this year will cost $11,000 next year. The growth rate is influenced primarily by:

- Changes in the price of medical products and services, known as unit cost inflation
- Changes in the number of services used, or per capita utilization increases
Factors affecting 2016 spending growth rate

Employer cost-shifting, greater use of virtual care and new health adviser companies that guide consumers toward more cost-effective care will put downward pressure on the growth rate.

Deflator #1: As the Cadillac tax looms, employers accelerate cost-shifts

Beginning in 2018, the ACA’s “Cadillac tax” imposes stiff penalties on employers that offer high-cost insurance plans. The intent of the law is to encourage companies to choose lower-cost health plans and put pressure on insurers to sell lower-priced plans.

The Cadillac tax is the third largest single source of funding in the ACA with roughly $87 billion in anticipated revenue from 2016 through 2025. Many businesses would rather scale back their health plans than pay the tax. More than 60% of large US companies in PwC’s 2015 Health and Well-being Touchstone survey expect the tax to have an impact on their company. However, slowing healthcare growth also reduces the number of employers subject to the tax, so current employer efforts to adjust for the tax may be premature.

“The Cadillac tax is pushing more employers to enact higher cost-sharing,” said Mark Pauly, professor of Health Care Management at Wharton School of the University of Pennsylvania.

More than 85% of employers in PwC’s 2015 Health and Well-being Touchstone survey have implemented, or are considering, greater employee cost-sharing. And, 25% of employers have already implemented high deductible health plans as the only

Figure 6: Employers offering only high-deductible plans
Percentage of US employers that have already implemented high-deductible plans as the only option offered to their members

The percentage of employers offering only high-deductible plans for employees has nearly doubled since 2012.

Source: PwC 2015 Health and Well-being Touchstone survey
benefit option to their employees, a 40% increase over 2014 (see Figure 6).¹⁵

Even before the ACA, companies steadily increased cost-sharing as a way to save money and engage consumers in their own care (see Figure 7). Thirty-eight percent of consumers surveyed in early 2015 sought alternative options or appealed insurance decisions based on prices for care (see Figure 8).

A recent Cigna study found medical costs in high deductible plans were 12% lower than in other types of health plans as consumers are using health improvement programs, complying with recommended treatments and lowering their overall health risks.¹⁷

As cost-shifting pushes consumers to become more conscientious about their healthcare choices, even foregoing unnecessary care or seeking alternatives to costly inpatient facilities, providers too are thinking of creative ways to maintain business.

“My ideal vision is to have clinics geared towards cost-conscious Millennials,” said Dr. Joanne Conroy, CEO of Lahey Hospital & Medical Center. “These clinics would serve as a one-stop shop to get all their service needs met in a cost-effective setting.”

There is some concern that high cost-sharing may be a barrier to care. A recent analysis by the nonpartisan Kaiser Family Foundation found that many consumers with high cost-sharing plans cannot afford to pay for care. Of those families with private health insurance, only 49% of households have enough money on hand to meet the higher out-of-pocket limit.²⁰

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**Figure 7: Cost-shifting pushes consumers to become more conscientious about their healthcare choices**

Percentage of consumers with employer-based insurance who took the following actions in the last 12 months due to cost of care

- **28%** Skipped seeing a doctor
- **28%** Asked for a generic prescription instead of a brand prescription
- **24%** Skipped prescription medicine or took less medication than prescribed
- **20%** Skipped seeing a specialist (such as an OB/GYN, dermatologist, orthopedic surgeon)
- **18%** Skipped follow-up care (such as going to physical therapy sessions recommended by a doctor)
- **16%** Delayed or skipped a procedure or treatment

Source: PwC Health Research Institute 2015 consumer survey¹⁸
Figure 8: Consumers with employer-based insurance are seeking more affordable options

- Asked about an alternative treatment because of costs: 38%
- Asked a doctor for a cheaper alternative to a prescription drug
- Appealed an insurance decision about coverage or amount paid
- Contacted hospitals for payment eligibility assistance
- Contacted doctors and healthcare facilities to ask about price
- Asked a doctor for a less costly alternative to a healthcare procedure
- Asked a doctor for a referral to a different specialist due to cost
- Asked for a medical discount
- Appealed an insurance decision about coverage or amount paid
- Asked a doctor or hospital for a medical discount
- Contacted hospitals for payment eligibility assistance

Source: PwC Health Research Institute 2015 consumer survey

Things to consider:

- **Encourage cost-sharing prudently.** Because foregoing care at the expense of becoming chronically ill is costlier in the long run, help educate consumers about wise medical choices. Insurers and employers should promote health benefits that avoid wasteful spending but allow consumers who truly need care to seek timely treatment—such as minimal barriers for preventive and wellness services.

- **Utilize data and analytics in two-way conversations.** As health insurers and providers move away from fee-for-service payments toward risk-based contracts based on quality and performance metrics, insurers should share patient-level reporting and dashboards with providers to identify cost-cutting strategies and specific areas for quality improvement.

**Deflator #2: Virtual care expands, with great promise for cost savings**

Close to a million people now receive care through remote monitoring, which is projected to save billions of dollars across the healthcare system over the next two decades. Although the industry is no stranger to remote monitoring, the trend will expand significantly in 2016.

Part of the reason is the government’s embrace of more virtual care through a series of regulatory and financial actions. For example, Congress designated $26 million in funding for telemedicine programs across rural communities, while the administration has added several Medicare payment codes for telemedicine. Additional barriers to providing virtual care and telehealth across state lines are expected to fall, as seven states joined an interstate compact on licensure which was recently approved by the Federation of State Medical Boards.

“There are 24 states that now mandate that private payers pay for telemedicine,” explained Jonathan Linkous, CEO of the American Telemedicine Association, “and this year alone there are 100 bills introduced into the state legislature mandating private payer support or expanding Medicaid coverage of telehealth.” While some states such as
Texas are trying to limit the practice of telehealth, the majority of states are looking to expand virtual care.24

The private sector is also stepping in. According to a National Business Group on Health employer survey, 48% of employers will make telehealth services available to employees in 2015. Large integrated healthcare systems, such as Kaiser Permanente, use videoconferencing to treat behavioral health issues.26

“Virtual consults allow for much more efficient use of our resources while delivering quality care in a more convenient and comfortable environment for patients,” Dr. Joseph Kvedar, vice president at Partners Healthcare, told HRI. “We have started a pilot telehealth program, in which we are able to conduct six or more virtual patient visits in an hour, while in the office we can do five patients per hour if we are really efficient.”

“The American Telemedicine Association estimates 800,000 primary care consults will be done remotely in 2015,” said Linkous. “We expect consumers will drive its expansion broadly in 2016.”

As doctors and hospitals become more mindful of avoiding government penalties related to quality metrics and readmissions, they are turning to virtual care as a cost-effective and efficient way to improve follow-up care. One area with great promise for cost savings is diabetes management (see Figure 9).

Consumers value convenience and cost savings, and virtual care saves them time and money. For example, according to a 2014 HRI study, 64% of the respondents were open to trying new, non-traditional ways of seeking medical attention or treatment if the price was right.28 As more insurers, providers and employers offer virtual options, the expected savings will help slow the overall spending growth rate in 2016 and beyond.

Things to consider:

• Offer virtual care as an ER alternative. Focus on monitoring patients with chronic and complex conditions and keeping them out of the emergency room—examples include follow-up visits after procedures, monitoring asthma and encouraging diabetics to embrace healthier behaviors. Retail health and outpatient clinics can also use virtual care to improve primary care access.

• Promote the use of virtual care through member outreach and incentives. Members are often unaware of the telehealth treatment options available and this can be solved through more frequent communications, open-house

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Figure 9: Diabetes management shows greater savings with the use of virtual care
Illustrative comparison of annual diabetes costs for in-person treatment vs. virtual care in US

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Source: PwC Health Research Institute analysis27
information sessions and provision of patient satisfaction data and statistics to demonstrate the benefits of telehealth. Employers should consider tying financial incentives—such as waived copays and deductibles—for employees to make use of virtual care in place of in-person or emergency room visits for routine procedures.

- Consider alternative business models and partners. Health systems and insurers should consider partnering with tech-smart companies. Delivering telemedicine visits requires a different type of network, clinical skillset and equipment.

**Deflator #3: New health advisers guide the way to better value care**

As the focus on quality and consumer costs has grown, so have the array of people to guide complicated choices. Since 2010, over 90 firms with little to no prior medical experience have become healthcare advisers. These new health advisers are sometimes competing, but more often partnering with, health insurers, providers and employers, to help individuals navigate the complex terrain of the health ecosystem.

“Consumers are demanding more and more around price transparency” said Daniel Polsky, executive director of the Leonard Davis Institute of Health Economics at the University of Pennsylvania, “and many are surprised by how much money they are responsible for.” According to a recent JAMA study, patients who knew the price of services before receiving them chose lower-priced options. Through these tools, members can find out where they stand in terms of how much they need to pay for a specific service, at a particular setting, how much of their deductible they have used and what remains, and if there are any cash rewards for a particular setting.

“Consumers are often only presented with one treatment option, but when you can actually empower them with good information and financial incentives, the outcomes are positive,” Brian Marcotte, president of the National Business Group on Health, told HRI. “I see this as a significant opportunity to reduce employer health costs.”

Fallon Health launched its SmartShopper tool in October 2014 to guide members to lower-cost facilities through financial incentives. Members can log in online, review various procedures and choose the level of reward based on the cost of provider. For example, an employee searching for a knee replacement may see five results with cash rewards ranging from $500 if they choose the cheapest option to no reward for a more expensive procedure.

One specific procedure in which Fallon is trying to move members from office-based settings to home-based services is Remicade infusions, which are used to treat Crohn’s disease, ulcerative colitis and rheumatoid arthritis. Members are awarded up to $500 per infusion conducted at home. Even though the plan pays the member $500, it still saves money by moving away from high-cost hospitals and physician offices (see Figure 10).

Even large employers such as the Commonwealth of Kentucky are using these new companies to guide employees through healthcare decisions.

“If you’re going to demand that your employees be more accountable, literate and educated in their healthcare choices, then you have to provide them the tools to make informed and wise decisions. When consumers choose high-value, lower cost providers, they earn rewards for saving money for both themselves and their employer,” said Joseph Cowles, Commissioner, Department of Employee Insurance, Commonwealth of Kentucky.

**Things to consider:**

- Provide employees with meaningful results. Members are hungry for data that means something to them. Unless they can be provided with personalized information, and some sort of tangible incentive, the effectiveness of programs such as wellness may fall flat.

- Consider partnering with a health adviser company. With so many new services and decision support tools already available and coming to market, insurers, employers, and providers should evaluate which ones best fit their needs and provide effective, cost-cutting solutions with high returns.
**Comcast Corporation**
Accolade:
- **What is it?** A high-touch concierge service that provides consultative support to 95% of employees who have claims
- **How does it work?** Very popular and highly utilized service that helps employees find the most cost-effective providers through the use of various tools (such as Castlight and second-opinion tools) and partnerships (such as MD Anderson)
- **Results**—In the past 5 years, utilization and readmissions have steadily decreased

**Fallon Health**
Fallon SmartShopper tool:
- **What is it?** A tool that ranks providers based on procedure codes and geography, and lists increasing financial incentives (for example, $50, $100, $125) for employees
- **How does it work?** Employees receive financial incentives towards a treatment if they choose a preferred facility
- **Results**—Increased savings overall and high satisfaction rates among employees who have used the service

**Spendwell Health, Inc.**
SpendWell e-commerce site:
- **What is it?** An online marketplace that allows consumers to purchase routine care at known prices by creating bundled health treatments and services that are easily priced by providers and consumed by shoppers
- **How does it work?** Providers select their services and prices and are no longer required to verify eligibility, benefits, or reconcile claims and remittances, and are paid in real-time, making the process a true e-commerce transaction
- **Results**—The marketplace simplifies health care purchasing which results in savings of 9-20% below health insurance negotiated fees

**Commonwealth of Kentucky, Kentucky Employee’s Health Plan**
Vitals SmartShopper:
- **What is it?** Vitals SmartShopper team conducts specific outreach to members slated for certain procedures (such as MRIs, colonoscopies, ultrasounds) and offers alternative facilities
- **How does it work?** Both consumers and employers are offered savings for using alternative locations
- **Results**—Radiology outreach program had 85% success rate in ensuring employee chose preferred facility when outreach was conducted and they were offered alternative locations to conduct MRI

**Honeywell International, Inc.**
Surgery Decision Support:
- **What is it?** A tool that provides employees resources for weighing options when surgery is needed for knee, hip, back, or hysterectomy; bariatric surgery will also be added in 2015
- **How does it work?** $1000 penalty implemented for those who pursue surgery but do not go through the program
- **Results**—In 2013, employee participation jumped to 92% from an extremely low number the previous year

Source: PwC Health Research Institute research

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**Figure 10: New health advisers are guiding consumers to affordable care**
An in-depth discussion

Source: PwC Health Research Institute research based on data from the FDA, Express Scripts, Catamaran, and Thomson Reuters

Other emerging trends tug in the opposite direction: Specialty drugs becoming a larger part of the drug pipeline and investments to strengthen cyber security will put upwards pressure on the healthcare spending growth rate in 2016.

Inflator #1: Specialty drugs go mainstream

2014 and 2015 were big years for Hepatitis C drug spending—contributing a half percentage point and one-fifth percentage point respectively to total employer medical cost increases, a remarkable impact by a single therapeutic class. Many expect Hepatitis C costs to fold into the base costs for health plans this year, but assume the drug pipeline contains other drugs with similar costs.

“Therefore,” explained Dr. Arnold Milstein, professor of medicine and director of the Clinical Excellence Research Center at Stanford University, “the cost of specialty drugs is a continued source of concern.” In fact, a new class of cholesterol drugs, called PCSK9 inhibitors, slated to be approved later this year, could cost the healthcare system upwards of $1.5 billion annually (see Figure 11). Because PCSK9s are maintenance drugs and will be used over the course of a patient’s lifetime, they could eventually become one of the highest-selling classes of drugs in history, even dwarfing the initial costs of Hepatitis C treatments.

After these cholesterol therapies hit the market, other specialty drugs will follow with treatments for cancer, rheumatic diseases and hematology. Even some generic drugs are fetching higher prices. The price of these therapies can have a major effect on year-over-year costs and impact overall medical inflation.

According to a recent Express Scripts report, total national prescription drug spending increased 13.1% last year to about $980 per person—the highest increase in a decade. The report attributes much of the increase to specialty medications that were estimated to contribute $310 of that per member cost.

As we continue to see a rise in personalized medicine and targeted therapeutics, investments in specialty medications will continue to grow and surpass traditional drug investments: currently, 700 specialty products are in development.

Things to consider:

- Identify your target population. Not all patients with high cholesterol should become candidates for PCSK9 inhibitor treatments. Employers should work with pharmacy benefit managers to apply clinical guidelines and incentives—such as tiered benefits—to direct expensive specialty treatments to the right patients at the right time.

- Leverage generic therapies. Few generic options for high-priced specialty drugs currently exist. But less-costly alternatives should follow as more specialty drugs come on the market in the next few years. Although the associated savings with biosimilars and generic
specialty treatments may not be as large as traditional drugs, they are worth exploring for employers and insurers.\textsuperscript{38}

- \textit{Partner with drug makers on new financing mechanisms}. Employers and insurers should engage pharmaceutical companies in creative financing for high-cost specialty drugs. Debt financing, gain sharing, value-based payment and special discounts should be explored.

**Inflator #2: Supersizing cyber security investments**

Eighty-five percent of health organizations responding to PwC’s Global State of Information Security Survey 2015 had experienced a data breach in the prior 12 months; 29% had experienced more than 50 (see Figure 12).

Health-information breaches are not just an unprotected laptop forgotten in the back of a cab; transnational cyber crime is spreading fast as a new and more potent threat. The most valuable data to steal are personal medical records that often contain personal, financial and insurance data. Stolen health records fetch even higher prices than credit card numbers—up to $251 per medical record compared to 33 cents for a credit card number.\textsuperscript{39}

In the last seven months more than 90 healthcare providers experienced a breach.\textsuperscript{41} Since health data is attractive to criminals, it is no surprise that health organizations have experienced a series of highly publicized data breaches resulting in multimillion dollar settlements with government and consumers, increased oversight and public mistrust.\textsuperscript{42}

Over the course of 2016, health organizations anticipate greater investment in security, which will nudge up total healthcare spending. Eighty-eight percent of the health organizations responding said their security spending was either increasing or staying the same in the next 12 months, and 63% intend to spend more than $1 million (see Figure 12).

Now health systems are scrambling to beef up security, liability insurance and infrastructure. “Providers are acutely aware that they need to demonstrate they care about protecting their patients’ information, and that they need to ramp up cyber security investments to avoid regulatory interventions and remain out of the negative spotlight,” said the Healthcare Leadership Council’s president, Mary Grealy.

Protection becomes doubly important as consumers create new sources of health information data through their mobile devices and on-line activities. According to a recent HRI survey, consumers are becoming more comfortable with DIY medicine and sharing their data remotely—more than half said that they were willing to check vital signs at home with phone-enabled devices and 56% were willing to share health data with doctors via mobile or on-line applications.\textsuperscript{43}

However, while consumers are eager to use technology to capture health data, privacy concerns trump online efficiency: 71% prioritized data security over convenience and access when it came to sharing medical tests and imaging results.\textsuperscript{44}

The costs associated with health system data breaches are varied, and providers are investing more now

---

**Figure 12: Health organizations are concerned about data breaches**

What is the number of security incidents detected in the past 12 months?

<table>
<thead>
<tr>
<th>Number of Incidents</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 or none</td>
<td>15.00%</td>
</tr>
<tr>
<td>1-9</td>
<td>43.75%</td>
</tr>
<tr>
<td>10-49</td>
<td>12.50%</td>
</tr>
<tr>
<td>50 or more</td>
<td>28.75%</td>
</tr>
</tbody>
</table>

What is your organization’s total information security budget for 2014?

<table>
<thead>
<tr>
<th>Budget Range</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>$49,999 or less</td>
<td>3.61%</td>
</tr>
<tr>
<td>$50,000 - $99,999</td>
<td>4.82%</td>
</tr>
<tr>
<td>$1 million - $9.9 million</td>
<td>28.92%</td>
</tr>
<tr>
<td>$1 million or more</td>
<td>33.73%</td>
</tr>
<tr>
<td>$100,000 - $999,999</td>
<td>28.91%</td>
</tr>
</tbody>
</table>

When compared with last year, security spending over the next 12 months will?

<table>
<thead>
<tr>
<th>Change in Spending</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase</td>
<td>62.19%</td>
</tr>
<tr>
<td>Stay the same</td>
<td>25.61%</td>
</tr>
<tr>
<td>Decrease</td>
<td>12.20%</td>
</tr>
</tbody>
</table>

Source: PwC Global State of Information Security Survey 2015\textsuperscript{40}
in prevention, such as training and awareness programs, to strengthen their cyber security infrastructures. Even heath systems purchasing cyber security insurance may be at risk. In some cases, courts have ruled that insurance issuers do not have to pay settlements to health companies without effective security controls in place. Thus, providers are building identity and access management in a more controlled, centralized manner, and improving security settings through more standardized and automated processes. They realize that these investment costs still pale in comparison to much higher post-breach expenditures and brand damage (see Figure 13).

**Things to consider:**

- **Increase IT budgets for preventive cyber security measures.** As cyber attacks increase, both in number and sophistication, health organizations need to build stronger data-security and breach-prevention systems. If patients lose trust in providers’ ability to keep their information safe, any efficiency gains from electronic or cloud-based records—such as patients sharing confidential data and personal metrics online or filling out forms in advance of appointments—may be lost.
- **Plan ahead for post-breach responses.** As post-breach reactions are equally important (if not more) as prevention of cyber attacks, providers should have crisis-management strategies in place in anticipation of data breaches. This includes having a plan to notify all affected parties and address regulatory impacts. Running simulations such as table-top exercises is a good way to test plans.
- **Involve vendors in cyber security.** Vendor risk management is an issue for health systems because many health information technology companies have full access rights to a hospital’s IT system. Vendors need to share responsibility for security because they are opening up risk to the systems when they work on them and implement them.

**Fig 13: Providers have strong incentives to spend now on cyber security to avoid high costs of future breaches**

Preventive cyber security costs

**$8 per patient record**

**Prevention**

- Risk assessment and management
- Security controls
- Monitoring and detection
- Forensics and insurance

Post-breach

- HIPAA fines
- Legal fees
- Lost business due to reputational damage
- Customer restitutions and credit monitoring services

Source: PwC Health Research Institute analysis

**Estimated costs of major breach**

$200 per patient record
A look at: health spending over the next 10 years

With ongoing pressure from purchasers, and competition from non-traditional new entrants, the question for healthcare providers, insurers and life sciences companies is: Will that be enough over the next decade?
If we have learned anything from the past 10 years, it is about the role of the individual consumer in demanding value. As cost-sharing grows, consumers paying out-of-pocket will be on the front lines in the battle to control rising medical bills.

Predicting a continued slowdown is more guess work than economics. Gail Wilensky, PhD, economist and senior fellow at Project HOPE summed it up: “We have no idea at this point whether the slow medical cost growth is sustainable. In the 90s we had a flat period—history has shown that even a decade of slow spending doesn’t necessarily give you a sustainable trend.”

Although HRI projects a slight dip in healthcare cost growth for 2016, it may not continue without more structural change. HRI interviewed more than 10 nationally recognized economists about what the next 10 years may bring and several pointed to factors likely to put upward pressure on the spending trajectory.

"Not much is permanent when it comes to the downtick in medical cost trend. In fact, trend is quite vulnerable to having an uptick in the next few years due to drug trends, costly new technologies, and other unforeseen factors,” said Paul Ginsburg, Norman Topping chair in medicine and public policy at the University of Southern California.

Similarly, Mark Pauly predicted the cost curve will rise again. “We are now seeing technological advancements—which have been flat in recent years—beginning to pick up. Also, the recession is over, and wages are increasing at a faster rate. Therefore, we can expect trend to rise as long as income growth returns to normal levels.”

However, efforts by the industry, employers and most notably consumers, may serve as a powerful counterbalance. The quest for value and competition from new entrants continues to force innovation. Educated consumers, particularly Millennials and individuals facing high deductibles, will be far more cautious about unnecessary or overly expensive services.

For the health industry, the mountain to climb becomes ever steeper as the simple reductions are made and the next wave requires cutting “closer to the bone.” To continue bending the cost curve over the next decade the health system will need to consider:

1. **Now is the time to make healthcare technology work**

In most industries, new technology decreases cost. Consumer devices become smaller, more powerful and cheaper over time. Manufacturing equipment is faster, more accurate and lowers the unit cost of production. But even after 10 years of major investments in health technology, the results have largely failed to decrease the cost of health delivery.

The Health Information Technology for Economic and Clinical Health Act (HITECH Act) passed in 2009 has invested $29.1 billion to promote the widespread adoption of health information technology. Health systems have spent millions—and even billions—in developing and building IT infrastructure. Yet savings have been largely elusive. The following three achievements need to be met to make technology work.

- **Achieve an interoperable, agile health IT infrastructure**—Coordinate data collected across care settings so it can be integrated, analyzed and used to provide rapid feedback to consumers and doctors.
- **Use data analytics to create strategic insights and actionable results**—Healthcare executives view data mining and analytics as having the highest strategic importance during the next five years.
- **Develop advanced decision support tools to inform patient care decisions**—These new tools will be adaptable to incorporate new information, such as scientific discoveries and clinical evidence to create actionable recommendations.

2. **Patient engagement tools can make transparency initiatives successful**

Over the past decade it has become the norm for private health plans to make price transparency tools available to consumers; however, a survey of health plans found that only 2% of employees used the tools. The current challenge is to not just make a price tool available, but to create one with effective incentives.

- **Develop frameworks that highlight and provide high value options**—Providing straightforward quality information and highlighted high-value options, helps consumers understand that higher cost does not equal higher quality.
- **Provide incentives to choose lower cost options**—Encourage consumers to use transparency tools to make informed decisions by offering real financial incentives.
3. Innovation may lead to more affordable care options

The delivery system is changing as consumers take on responsibility for healthcare decisions. Tools will be built to enable changes and revise roles in care delivery. Technology innovations will create more personalized treatment, and traditional exams will be replaced by more personalized care techniques, eliminating unnecessary care.

- **Adoption of virtual care drives costs down**—Virtual care will become mainstream for consumers, insurers and employers—creating convenience for the consumer and savings for purchasers.

- **Do-it-yourself healthcare will continue to grow**—The market for consumer health apps and do-it-yourself home diagnostics will continue to grow. Technology will provide convenient in-the-moment care that consumers demand.

- **Use precision health medicine to reduce costs**—With a $215 million government commitment to fostering research for targeted therapies through the Personal Medicine Initiative, there will be continued public and private investment to target the right treatment at the right time to reduce inefficiency and waste.

4. Health costs less when there is competition

Healthcare is now joining other industries in creating market competition that can ultimately lead to lower costs. With greater access to accurate information, consumers help create greater competition in the health sector.

- **Rethink traditional mergers and acquisitions**—New types of collaborations such as joint ventures, affiliations and partnerships have quadrupled over the past 10 years with no signs of slowing. Consolidation needs to create efficiencies instead of just market power so explore collaborations that align incentives and create new capabilities and options for consumers.

- **Health services compete on consumer satisfaction and experience**—Medicare is already basing payments on patient satisfaction with The Hospital Consumer Assessment of Healthcare Providers and Systems scores. As the government sector deems this a critical factor, private plans and consumers will also demand higher consumer satisfaction.

- **Competition in pharma and medical devices leads to lower costs**—When a competitor hits the market, even the price of blockbuster drugs drop. With the recent announcement of the first approved biosimilar, expect the FDA and other regulatory bodies to facilitate faster approvals creating greater competition.

5. Chronic diseases can be managed with healthier lifestyles

The most common chronic diseases such as diabetes and heart disease are estimated to cost the US more than $1 trillion annually in direct costs and indirect impacts such as productivity losses. Eighty-four percent of healthcare expenditures are attributed to people with chronic conditions. Many of these are preventable or could be managed through behavior modification.

- **Use predictive analytics to inform consumers and promote lifestyle changes**—By using advanced analytics to model how human behavior leads to disease and finding insights that predict upcoming health changes, we can develop ways to nudge individuals toward healthier lifestyles.

- **Collaborate to promote healthy lifestyles in communities**—Organizations such as the Robert Wood Johnson Foundation are assisting communities to review vital health factors and provide tools on policy, programs and system changes to improve overall health. To move the population health needle, disparate organizations must approach prevention from a holistic manner.

- **Tap into technology to promote behavior change**—With the rapid growth of wearable technology, there will be widespread adoption of trackers as providers and insurers embrace and incentivize consumers to use these “wearables” to identify risks before serious conditions emerge.

The US economy continues to slowly recover from the worst economic crisis since the Great Depression. Real GDP has grown at an average rate of 2.2% since 2009. More confident consumers are spending more, but not—apparently—on healthcare.

So far we have not seen a surge in medical services from people who delayed seeking care during the 2008 recession. Even adding millions of Americans to the insurance rolls has not flooded the system in a way that has shot up spending. Structural changes in the delivery of care may be counteracting increased demand.

Nevertheless, health spending continues to outpace the broader economy and the financial and health effects of greater cost-sharing are yet to be fully known. At some point, consumer income growth will need to surpass the pace of medical spending. Until then, there is considerable work to be done.


4. PwC Health and Well-being Touchstone surveys

5. IBID

6. PwC Health and Well-being historical data for in-patient and out-patient deductibles is used. Estimates of the percentage of consumers forgoing care included Gallup Poll data and PwC HRI consumer survey responses over the past 4 years. PwC HRI consumer survey question: “During the past 12 months, was there a time when you needed any of the following types of care, but had to forego care because of cost? Services included: going to the doctor, seeing a specialist, taking less prescription medicine than prescribed, physical therapy (other follow up care), delaying or forging a procedure, or mental health services. Data includes those with and without insurance. Gallup data obtained February 2015 from: (http://www.gallup.com/poll/179774/cost-barrier-americans-medical-care.aspx)


9. PwC 2015 Health and Well-being Touchstone survey question: “In assessing the ACA provisions that are to be phased in between 2015 and 2018, how significant a financial impact do you think the following will have on your company or its employees?” Choices included: Significant impact, slight impact, no impact.

10. IBID


12. The 2018 thresholds for high-cost plans are $10,200 for individual coverage and $27,500 for family coverage. These thresholds will be updated in 2019 for the growth in the CPI-U plus 1% and at the growth CPI-U thereafter.


14. PwC 2015 Health and Well Being Touchstone survey question: “In assessing the ACA provisions that are to be phased in between 2015 and 2018, how significant a financial impact do you think the following will have on your company or its employees?” Choices included: Significant impact, slight impact, no impact.

15. PwC 2015 Health and Well-being Touchstone survey question: “For your health and welfare benefits program, which of the following are you considering implementing in the next three years?” Item: Implement a high deductible plan as a full replacement option for medical benefits. Choices included: Already implemented, under consideration, not under consideration.

16. IBID

17. “Cigna consumer-driven health plans bend health cost curve by shifting behaviors,” April 2014. (http://newsroom.cigna.com/NewsReleases/cigna-consumer-driven-health-plans-bend-health-cost-curve-by-shifting-behaviors.htm); It does not appear that Cigna accounted for any employer contribution to Health Savings Accounts (HSAs) which could significantly offset the savings of 12%.

18. PwC Health Research Institute 2015 consumer survey question: “During the past 12 months, was there a time when you needed any of the following but had to forego the service(s) due to cost of care?”

19. PwC Health Research Institute 2015 consumer survey question: “Over the last year, have you taken any of the following actions?” Item: Asked about an alternative treatment because of cost.


24. “Cigna consumer-driven health plans bend health cost curve by shifting behaviors,” April 2014. (http://newsroom.cigna.com/NewsReleases/cigna-consumer-driven-health-plans-bend-health-cost-curve-by-shifting-behaviors.htm); It does not appear that Cigna accounted for any employer contribution to Health Savings Accounts (HSAs) which could significantly offset the savings of 12%.


27. The base case is calculated using average utilization and cost information from the American Diabetes Association, “Economic costs of diabetes in the US in 2012.” April 2013; the total costs include both diabetes related and unrelated conditions costs were also adjusted to 2015. The virtual care visit is estimated using PwC internal sources and industry-compiled data; total virtual care visits include direct substitutions for a portion of physician office visits and additional visits with nurse practitioners.


31. Interview with Milissa Obara, Director of Product Management, Fallon Health.

32. Interviews with Milissa Obara, Director of Product Management, Fallon Health; Marcee Chmait, President, SpendWell Health, Inc.; Shawn Leavitt, EVP Global Benefits, Comcast Corporation; Joseph Cowles, Commissioner, Department of Employee Insurance, Commonwealth of Kentucky; Michael Ventrone, Senior Director, Health and Insurance, Honeywell International, Inc.


40. PwC Global State of Information Security® Survey 2015, “Managing cyber risks in an interconnected world.” (http://www.pwc.com/gx/en/consulting-services/information-security-survey/giss.html); the PwC Global State of Information Security survey results were filtered to include response from Health industries; North America; Company size greater than 1 billion.

41. US Department of Health & Human Services Office for Civil Rights, Breach Portal - Breaches affecting 500 or more individuals; the data was filtered to include all breach types and locations for healthcare providers between November 1, 2014 and May 26, 2015. (https://ocrportal.hhs.gov/ocr/breach/breach_report.jsf)


44. PwC Health Research Institute 2014 consumer survey


46. The annual prevention cost per patient record is based on estimated provider investments on preventive cyber security activities such as risk assessment and management, security controls, monitoring and detection, forensics and insurance; the annual post-breach cost per patient record is based on estimated provider averages of HIPAA fines legal expenditures and settlement amounts, lost business due to reputational damage, and customer restitutions and credit monitoring services paid out to members; based on government and media reports from 2012 to 2014.


53. A publications review determined unique announcements for alternative partnerships for the top 10 for-profit and non-profit hospitals in the US. Publications were identified using Factiva through word searches for provider or physician or hospital or health services or hospital system or doctor* combined with joint venture or affiliation or partner or clinical affiliation agreement or management services agreement or clinically integrated network or collaboration. Publications include all licensed Factiva sources.


56. RWJF, “Chronic care: making the case for ongoing care,” 2010. (http://www.rwjf.org/content/dam/farm/reports/reports/2010/rwjf54583); Data from Medical Expenditure Panel Survey (MEPS), 2006. (http://meps.ahrq.gov/mepsweb/)


Acknowledgments

Gerard Anderson, PhD
Professor, Health Policy and Management and International Health
Johns Hopkins Bloomberg School of Public Health

Larry Borres
President and CEO
Midwest Business Group on Health

Marcee Chmait
President
SpendWell Health, Inc.

Joanne Conroy, MD
CEO
Lahey Hospital & Medical Center

Joseph Cowles
Commissioner, Department of Employee Insurance
Commonwealth of Kentucky

Tom Getzen, PhD
Executive Director, International Health Economics Association;
Professor of Insurance and Healthcare Management
Temple University

Paul Ginsburg, PhD
Norman Topping Chair in Medicine and Public Policy
University of Southern California

Rob Graybill
VP SmartShopper
Vitals

Mary Grealy
President
Healthcare Leadership Council

Doug Holtz-Eakin, PhD
President
American Action Forum

Joseph C. Kvedar, MD
Vice President, Connected Health Partners HealthCare

David Lansky
President
Pacific Business Group on Health

Shawn Leavitt
SVP Global Benefits
Comcast Corporation

Jonathan Linkous
CEO
American Telemedicine Association

Brian Marcotte
President
National Business Group on Health

Arnold Milstein, MD
Professor of Medicine; Director of the Clinical Excellence Research Center
Stanford University

Torben Nielsen
General Manager
HealthSparq

Milissa Obara
Director of Product Management
Fallon Health

Mark Pauly, PhD
Professor of Health Care Management
Wharton School of Business,
University of Pennsylvania

Daniel Polsky, PhD
Executive Director, Leonard Davis Institute of Health Economics
University of Pennsylvania

Charles Roehrig, PhD
Vice President, Health Care Economics; Director, Center for Sustainable Health Spending
Altarum Institute

Paul Hughes-Cromwick
Health Economist and Senior Analyst,
Center for Sustainable Health Spending
Altarum Institute

Shawn Smith
Co-Founder
Wellero

Cori Uccello
Actuary and Senior Health Fellow
American Academy of Actuaries

Michael Ventrone
Senior Director, Health and Insurance
Honeywell International, Inc.

Gail Wilensky, PhD
Senior Fellow
Project HOPE
About this research

Each year, PwC’s Health Research Institute (HRI) projects the growth of private medical costs in the coming year and identifies the leading drivers of the trend. Insurance companies use medical cost trend to help set premiums by estimating what the same health plan this year will cost the following year. In turn, employers use the information to make adjustments in benefit plan design to help offset cost increases. The report identifies and explains what it refers to as “inflators” and “deflators” to describe why and how the healthcare spending growth rate is affected.

This forward-looking report is based on the best available information through May 2015. HRI conducted interviews in February, March and April 2015 with 17 health plan officials (whose companies cover more than 100 million people) about their estimates for 2016 and the factors driving those trends. Findings from PwC’s 2015 Health and Well-Being Touchstone survey of more than 1,100 employers from 36 industries and, a national consumer survey of more than 1,000 US adults are also included. Additionally, HRI analyzed the findings of a survey of more than 20 health plans that are members of the Health Plan Alliance. HRI also interviewed industry executives, health policy experts, national economists, and examined government data sources, journal articles, and conference proceedings in determining the 2016 growth rate.

Behind the Numbers 2016 is our tenth report in this series.

About Health Research Institute

PwC’s Health Research Institute (HRI) provides new intelligence, perspectives, and analysis on trends affecting all health related industries. The Health Research Institute helps executive decision makers navigate change through primary research and collaborative exchange. Our views are shaped by a network of professionals with executive and day-to-day experience in the health industry. HRI research is independent and not sponsored by businesses, government, or other institutions.

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Other Contributors

To have a deeper conversation about how this subject may affect your business, please contact:

Kelly Barnes  
Partner, Health Industries Leader  
kelly.a.barnes@us.pwc.com  
214 754 5172

Michael Thompson  
Principal  
michael.thompson@us.pwc.com  
646 471 0720

Rick Judy  
Principal  
richard.m.judy@us.pwc.com  
415 498 5218

Ceci Connolly  
Managing Director, HRI  
ceci.connolly@us.pwc.com  
202 312 7910