Health Care Costs—From Birth to Death

Sponsored by Society of Actuaries

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Executive Summary

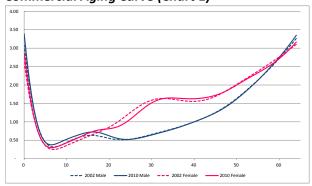
This study used commercial data held by the Health Care Cost Institute (HCCI) and Medicare fee-for-service data to analyze health care cost differences by age and their contribution to overall health care cost change. The commercial data includes claims from 2002 through 2010 and the Medicare data includes claims from 2006 through 2010. This analysis offers insights into the following questions:

- What is the impact of the aging of America and its contribution to historical health care cost trends?
- How will health care reform impact premium rates (specifically, the Affordable Care Act's limitation on premium rate differences between the highest and lowest age-based rate)?
- How might changes in age-related eligibility impact Medicare spending?
- What differences in costs exist by age and by different groups (e.g., gender, employee/dependent, group/individual and plan type)?
- How do various disease conditions impact costs by age?
- How can better understanding of age-related costs help improve actuarial valuations of retiree health care programs?

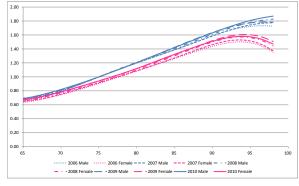
Overall

In general, the analysis shows that health care costs increase by age with the exception of the very youngest ages. Costs, on average, are very high in the first year or two of birth and drop significantly by age five. At that point, costs increase modestly through the teen years. Female costs then begin to accelerate more quickly during child-bearing ages and flatten out in the 40s before increasing again. Male costs are relatively flat in the 20s and begin to accelerate after age 30, but remain lower on a per person basis than females in the same age group. The "cross-over age" occurs in the early 60s, when per capita spending for males exceeds that for females. Medicare costs (excluding private and Medicaid-financed long-term care) for beneficiaries age 65 and older continue to increase with age. Males continue to have higher costs than females for whom per person costs start to decline around age 90.





Medicare Aging Curve (Chart 10)



The preceding two charts are from the main text of the report. Chart 1 shows the age/gender curve for the commercial population from birth to age 64. The Medicare Aging Curve (Chart 10) shows the continuing aging curve for the 65 and over Medicare population. Separate indices were developed for

the commercial and Medicare populations due to their different provider reimbursement rates (i.e., negotiated discount versus administratively set prices). Using indices rather than costs also allows for comparison between years. Both commercial and Medicare costs were based on "allowed charges," which are the costs of health care services that reflect discounts (in the case of commercial plans) and include both the amounts owed by the health plan (or the federal government) and the insured member (or Medicare beneficiary).

Key Uses and Findings

- 1. The changing demographics of age and gender have contributed from 7 percent to 10 percent of the real growth in per capita health care costs (less than 0.5 percent per year) depending on the period studied. This is consistent with other studies' findings.
- 2. Inpatient services showed the most variation in use by age, in particular, with female costs increasing during child-bearing ages and then decreasing until they begin to increase again in the mid-40s. (This study looked at costs by inpatient, outpatient, professional and outpatient prescription drugs.) Outpatient and prescription drug costs were relatively stable with exponential growth by age.
- 3. Chronic conditions in the young (under age 30) take a higher relative toll on that population than they do for the older population. For commercial members under age 30 identified with cancer or circulatory conditions, there was significant variation by age in the ratio of their costs to the costs of the entire population under age 30, and their costs were much higher on average. In contrast, when costs for members age 30 and older with three chronic conditions—cancer, circulatory and musculoskeletal conditions—were compared to the total cost of that population, results showed relatively stable ratios of those with the condition compared to all (around 2 to 1) members above age 30.
- 4. Between 2002 and 2010, an established pattern of an increase in health care costs for females in their child-bearing years (20-44) has shifted outward by three years meaning that higher costs for women are occurring later in the child-bearing window. This may reflect well-documented recent trends of women delaying childbirth.
- 5. The age-related premium policy established by CMS in its implementation of the Affordable Care Act will increase premiums for younger individuals and decrease them for older individuals purchasing individual health insurance. By analyzing the underlying costs per age for the population (both male and female) and comparing it to the new approach for individual coverage purchased in state-based exchanges, we found that premiums for individuals in their 20s will subsidize the cost of health insurance for individuals in their 60s. For example, the average cost index for those age 21 through 29 is 27 percent higher under the CMS proposed age curve compared to 3 percent lower for those age 60 through 64.
- 6. Changes in the eligibility age for Medicare would raise the average per capita cost for the Medicare population because younger and relatively healthier beneficiaries would no longer be eligible. If the eligibility age were changed from age 65 to age 70 for example, while total Medicare spending would decline overall, the per capita cost would increase 12 percent because the 65 to 69 year old

- participants are generally the lower cost members. The costs of that change would be borne by the federal government and beneficiaries through their subsidized premiums.
- 7. The future health care needs for a retiree vary by the retiree's current age and their expected lifetime, but are estimated to be about \$146,400 for someone currently age 65 with an average expected lifetime of 20 years (\$292,800 for a couple of the same age). That amount includes health care costs not paid for by the federal government through the Medicare program (including Medicare Parts B and C premiums). If they think they will live until age 90 (25 years instead of 20 years) they will need \$220,600 (or \$441,200 for a couple). These amounts are for the "average" retiree and do not include long term care costs that some retirees may incur.
 - From the government's perspective, they will spend, on average, nearly \$450,000 for the new age 65 Medicare beneficiary during their expected lifetime (20 years).
- 8. For retirees suffering from certain chronic conditions (cancer, circulatory and musculoskeletal), health care costs not paid for by the federal government through Medicare can easily exceed \$300,000 (twice the estimates for all individuals).

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Introduction

This study was made possible by detailed claims data available from the Health Care Cost Institute (HCCI) from its database of commercial medical claims and the five-percent sample of Medicare claims. The commercial data included claims for all services including inpatient, outpatient, professional and prescription drugs. The Medicare data included data for the fee-for-service members under the Medicare Hospital Insurance program (HI or Part A) and the Supplementary Medical Insurance program (SMI or Part B). Data was not available for the Medicare prescription drug program (Part D).

The commercial data included book-of-business data for three major health plan carriers with over 30 million members and \$130 billion in claims in 2010. The Medicare data for 2010 included 1.2 million members and over \$14 billion in claims.

Both the commercial data and the Medicare data are allowed charges. That is, they are the amounts that the benefit calculations are based on, after provider discounts, and before any plan design provisions are applied. Since there is a large difference in allowed charges between commercial carriers and Medicare that is documented in other studies, the aging curve analysis has been done separately for the two sets of data. In addition, this study also analyzed the age curve for the costs that Medicare does not pay (i.e., the Medicare allowed charge minus the Medicare benefit payment) as these are the amounts that other private payers may pay in supplemental coverage to Medicare.

Overall Pre-Medicare Costs

Commercial data from the HCCI database were compiled for calendar years 2002 through 2010. The data was separately compiled by insured group (individual versus employer-sponsored or group business), product type (HMO versus POS/PPO product lines) and by major diagnosis groups (by standard DRG for inpatient care and assignment based on major diagnosis codes for other services).

Per capita costs were summarized by single age and gender for each year. These costs were graduated using the Whitaker-Henderson method and are primarily shown in graphic form throughout this report. The costs were indexed to the average cost for each year weighted by the aggregate 2010 membership. Using the same membership as weights eliminates the effect of changing demographics over time. Detailed results are shown in tables in the appendix.

Costs by Year

The following chart shows the cost index for 2002 and 2010 for all insured groups, product types and diagnostic groups. Note that this was not a longitudinal study of the same members but an analysis of costs by age and gender for those enrolled in the plans in each year. That is, an annual snapshot of costs of then covered members.

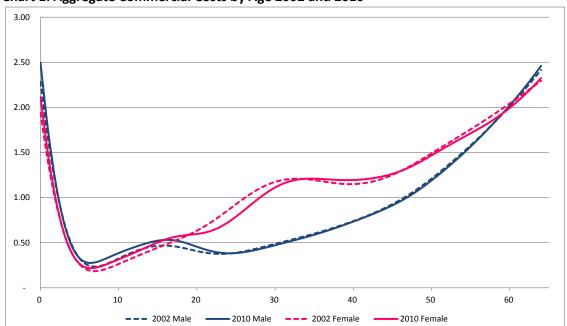


Chart 1: Aggregate Commercial Costs by Age 2002 and 2010

At a high level, the age curve is not significantly different between the two years for this pre-Medicare population. There are two key findings from the above chart by comparing the 2002 lines to the 2010 lines. One, relative per capita costs have increased between 2002 and 2010 for both males and females from around ages 8 to 20. Two, the increase in costs for females have shifted almost three years for those in their 20s likely due to the delay in childbirth. This is consistent with other studies and anecdotal commentary. It is supported by the birth rate statistics from the U.S. Census Bureau. The following table shows the birth rate per 1,000 women for the same two years.

Table 1. Births per 1,000 Women¹

Ages	2002	2010	% Change
15 to 19 years	55.9	29.3	- 48%
20 to 24 years	90.0	87.3	- 3%
25 to 29 years	97.2	96.6	- 1%
30 to 34 years	83.6	82.6	- 1%
35 to 39 years	41.9	50.7	21%
40 to 44 years	11.9	12.6	6%

The above chart shows decreased birth rates for women to age 34 and an increase for women 35 to 44 which are consistent with the change in the female age curve over the same ages.

In general, relative per capita costs are high in the first year of life and decline until around age 8 and remain relatively level until age 20 for females and 30 for males. There is a rapid increase in relative costs for females at child-bearing ages to about age 30 and the cost levels off during the 30s and early 40s and then begins to increase through to Medicare age. Whereas, male costs begin to increase at age

¹. U.S. Census Bureau. *Current Population Reports, Fertility of American Women*. Washington: U.S. Census Bureau, 2010.

30 and continue to increase through to Medicare age. Male relative costs are below female relative costs for most ages until they cross over at about age 60. The cross-over age has moved from age 61 in 2002 to age 59 in 2010. It is beyond the scope of this paper to speculate why this change has happened but it is interesting to also study the age curve by service (inpatient, outpatient, professional services and prescription drugs) as the cross-over ages are very different.

Costs by Insured Group

The following chart shows costs by individual versus group business for the 2009 and 2010 calendar years.

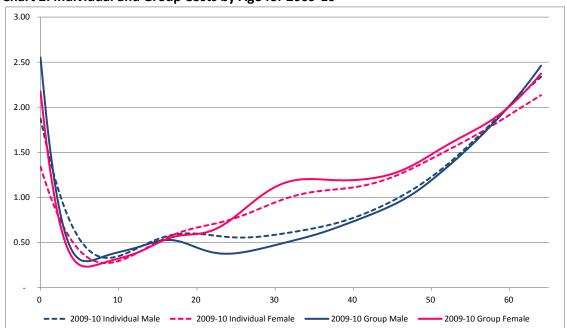


Chart 2: Individual and Group Costs by Age for 2009-10

Individual and group business show similar relative cost patterns by age with the individual slopes slightly flatter than the group slopes. The maternity bump seen in the group age slope for females is less pronounced in the individual business and the index (i.e., costs relative each group's average) is generally less than the group market at most ages. This is likely because many individual plans do not cover maternity costs. The age slope for males are very similar for the two markets with slightly higher costs at the younger ages in the individual market compared to the group market that is likely reflecting risk selection in the market.

It is important to keep in mind that the differences in the age curve between individual and group business is not an indicator of cost relationships between the two business segments. Each business group's age curve is a representation of the relative differences in costs by age and gender within the business group. Therefore, it is valid to state that males aged 30 are a lower cost than females of the same age, on average, and are lower cost than older males for both the individual and group business segments. It is not valid to say that a male age 30 covered under an individual contract is higher cost than a male age 30 covered under a group contract.

Costs by Product Type

The PPO/POS versus HMO product type comparison is made with the group market because the individual market exposure in the collected data is not as robust as the group market. From an analysis perspective, focusing on just the group market eliminates any bias that there may be between the group and individual markets. The following shows the costs by PPO/POS and HMO plan types by age and gender for the 2009 and 2010 calendar years.

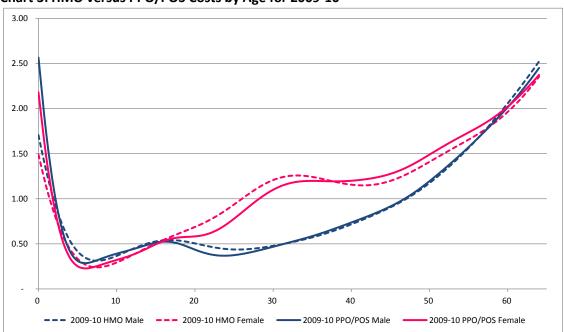


Chart 3: HMO versus PPO/POS Costs by Age for 2009-10

The relative costs by age are very similar between PPO/POS and HMO plan types with some variations that fit anecdotal commentary about why people select the two types of plans. Young families oftentimes elect HMO coverage for its more robust coverage of routine care and maternity benefits. The similarity of the age curve slopes indicates that there is little difference between plan types to flatten the costs by age. However, it should be kept in mind that the predominant type of HMO network is an independent physician arrangement (IPA) rather than a group or staff model for the insurers included in this analysis.

The comment made when comparing the individual to group age curves applies with this comparison. The index for each market type is relative to the average cost for that particular market and is not an indicator of relative cost differences between the HMO and PPO/POS markets.

Costs by Relationship

Costs by subscriber and dependent members yield interesting results. The following chart shows the results of the total commercial group coverage population between subscriber and dependent members. About one percent of the population was excluded because of the lack of relationship code.

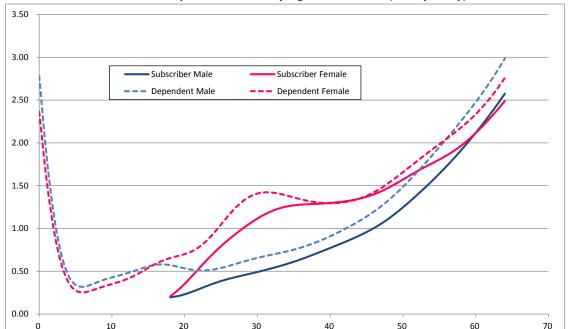


Chart 4: Subscriber versus Dependent Costs by Age for 2009-10 (Group Only)

Of course, there are no costs for subscribers at the children's ages, but beyond age 20 for males and 50 for females there is a relatively uniform difference between subscriber and dependent costs. For dependents under age 18, there is a small difference in costs by gender. The male and female age curve for dependents dramatically diverge beginning at age 18. Dependent males above age 20 are about 20 percent higher than the same aged subscriber male. Females above age 50 are about 12 percent higher than their subscriber counterparts. During child-bearing ages, dependent females have accelerated costs at about five years before subscriber females. Dependent female costs show a peak in their index at age 30 and decline for a short period. Subscriber female costs do not show a similar peak in slope but rather have a steady increase. Female costs converge at about age 38 and begin diverging again at about age 45.

Unisex Cost Curve

The Affordable Care Act requires insurers to develop premium rates that vary by age only and not gender. In addition, they are limited to a maximum 3:1 ratio of the highest rate to the lowest rate. Recent regulations have proposed a uniform age curve that states may adopt. The following compares the 2010 relative cost curve of an average unisex set of per capita costs and the proposed age curve to the gender based cost curves. The underlying data is group PPO/POS coverages for 2010.

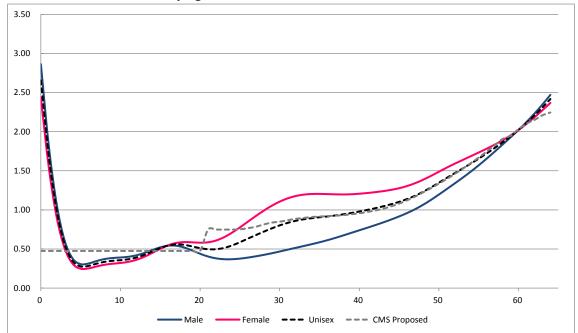


Chart 5: Unisex Cost Curve by Age for 2010

Chart 5 shows the unisex aging curve (the black dashed line) based on the membership underlying the 2010 experience data. Since the membership is close to 50/50 male/female, the resulting curve is very close to the average of the male and female curves.

The grey dashed line shows the proposed standard age curve from CMS to meet the ACA's 3:1 rate ratio limit in their proposed regulations issued November 26, 2012. It was adjusted for the membership of the same 2010 experience data. The proposed age curve is flat under age 21 and, as stated in the proposed regulations, is not part of the 3:1 rate restriction. The proposed regulation interprets the 3:1 limitation to be a constraint on premium rates for adults and not children. The proposed flat index under age 21 is about 0.47 when setting the proposed age curve to the same indexing as the study uses (i.e., relative to the average cost). The data from the study averages to an index of 0.53 for those under age 21. This average is highly dependent on the enrollment distribution for the under age 21 population so the difference in the average is not surprising. The proposed age curve is higher from age 21 through age 35 than the calculated unisex age curve of the study's data. From ages 35 through 55, the proposed age curve is very close to the calculated unisex age curve and then begins to diverge (lower) after age 55. Assuming that all of the membership in the database continues to be insured, this implies that young adults (those age 21 through 35) will subsidize older adults (aged 60 and older) in the new health insurance programs. On average, the young adults (age 21 through 35) cost index is 15 percent higher³ under the CMS proposed age curve and the older adults (age 60-64) are 3 percent lower. At the extreme, the age 21 average person's cost index is 50 percent higher under the proposed age curve and the age 64 average person is 7 percent lower. From a gender perspective, males will subsidize females

² Patient Protection and Affordable Care Act; Health Insurance Market Rules; Rate Review, Centers for Medicare & Medicaid Services, HHS, Proposed Rule, Federal Register, Vol. 77, No. 227, November 26, 2012, page 70595.

³ For those age 21 through 29, the proposed age curve is 27 percent higher than the study's unisex age curve.

for most years until age 60 where the proposed unisex index is less than both the male and female indices.

Pre-Medicare Costs by Service

Per capita costs were summarized by single age and gender for each year by major service categories (inpatient facility, outpatient facility, professional services and prescription drugs). The following charts show the results for all experience years by each major service for the group PPO line of business. All other lines of business show similar results but the group PPO line has greater exposure and therefore more credible data broken down by service. Each chart uses the same scale. Detailed results are shown in tables in the appendix.

Inpatient Facility Costs

The inpatient facility costs by age showed the greatest variation by age. The index by gender is very consistent from year to year. The index at the very earliest ages has values exceeding 10.0. The graduation method does not do a very good job in smoothing data that have extreme changes, so raw data results are shown for ages 3 through 7. Other than the child-bearing ages for females, the inpatient facility curve is nearly unchanged over the last ten years.

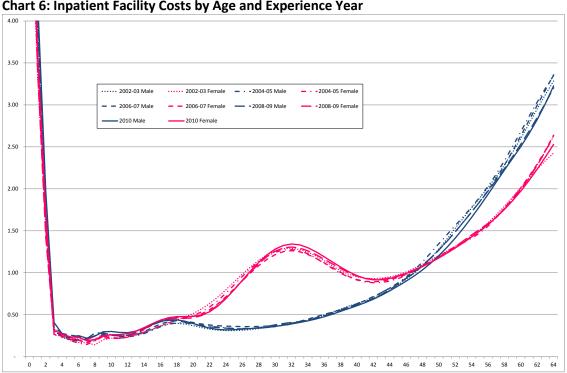


Chart 6: Inpatient Facility Costs by Age and Experience Year

Inpatient costs show a very significant cost increase for females during the child-bearing ages reflecting the costs of delivery with a distinctive peak in the early 30s. Inpatient services exceed the 2.00 cost index (i.e., over two times the average cost of the whole group) at the oldest ages for both male and female and this variance has been consistent over time. Inpatient costs show the greatest difference of male over female costs after age 50 than any of the other service groups. Also, the cross-over age where male costs exceed female costs is around age 50 instead of age 60 for all services combined.

Outpatient Facility Costs

After the slight decline and rise during the adolescent ages, the outpatient facility costs by age exhibit a consistently increasing age curve. The bump seen in the overall costs during child-bearing ages is not as evident with these costs. Female costs by ages show greater variation over the years than the male costs. In particular, their costs have lowered relative to the average over the years for females in their 20s and have increased for females in their 40s and 50s.

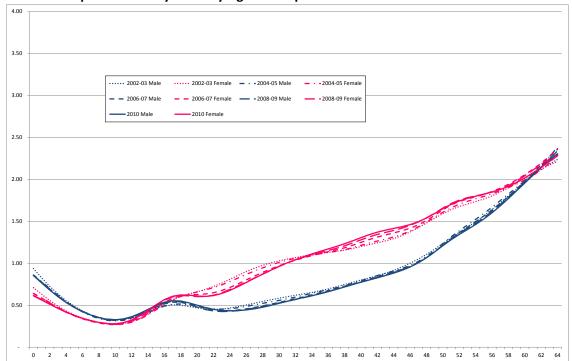


Chart 7: Outpatient Facility Costs by Age and Experience Year

Female costs show a relatively steady increase in costs during adulthood while male cost increases are more exponential. Costs at the youngest ages are relatively modest with costs below the overall average (i.e., index less than 1.00) for all ages.

Professional Service Costs

Professional service costs show very high costs at the earliest ages that declines sharply and then level off from ages 5 through about 22 and then begin increasing throughout adulthood. A very rapid increase in costs is evident for females during child-bearing ages. In addition, the apparent shift over the years for females in those years reflects the observed delay of child birth discussed earlier in this report.

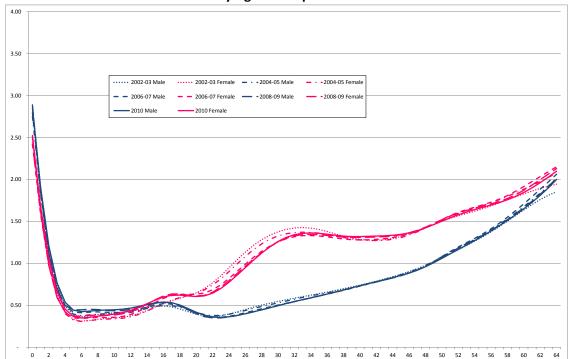


Chart 8: Professional Service Costs by Age and Experience Years

Professional service costs show a very similar curve as the overall cost curve although the male costs do not exceed female costs at any adult age.

The female age curve has flattened out over the years with relative costs throughout the childbearing ages lower in the more recent years and also at the older ages. The male age curve has remained relatively stable over the years with slightly lower relative costs in the late 20s and early 30s.

Pharmacy Costs

Pharmacy costs increase during early childhood and crest in the late teens. Male costs then drop until the mid-20s and begin a geometric increase after, while females do not experience a similar drop. The aging curves for males do not seem to differ over the years while females appear to trend downward over the nine year period. Both the male and female age curves have increased relative to the average in the teen years and early 20s.

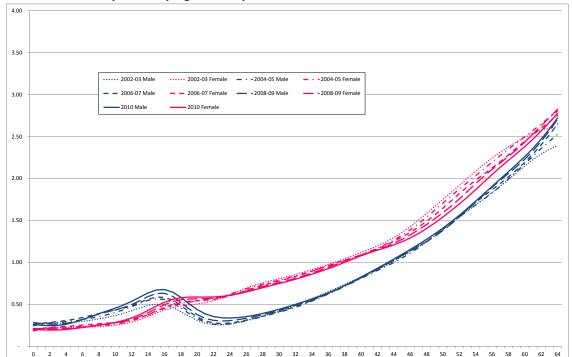


Chart 9: Pharmacy Costs by Age and Experience Years

Overall Medicare Costs

The Medicare 5% samples only include data for fee-for-service Medicare beneficiaries and have both allowed charges (the amount on which Medicare benefits are based) and the amount of the Medicare benefit payment. The following analysis reviews cost relativities of both the Medicare total allowed charge and the Medicare net allowed amount. The Medicare net allowed amount is determined as the difference of the Medicare total allowed amount and the Medicare benefit payment. This is, in essence, the amount of costs that may be considered allowable charges for any private supplemental plan (e.g., employer-sponsored integrated plan, individual Medicare supplement or Medigap plan). A third Medicare cost that could be analyzed by age and gender is the Medicare benefit payment amount itself. Such an age curve could be used by someone projecting the cost of Medicare benefit payments. In general, the shape of a Medicare benefit payment age curve will be very similar to the allowed charge so this particular measure is not shown in this study except for a very high level comparison in Chart 20.

Data is available for calendar years 2006 through 2010. Unless specified, the Medicare charts do not include prescription drugs, as the Part D (the Medicare outpatient prescription drug program) data is not included.

Costs by Year

The following charts show cost indices by year for the Medicare population.

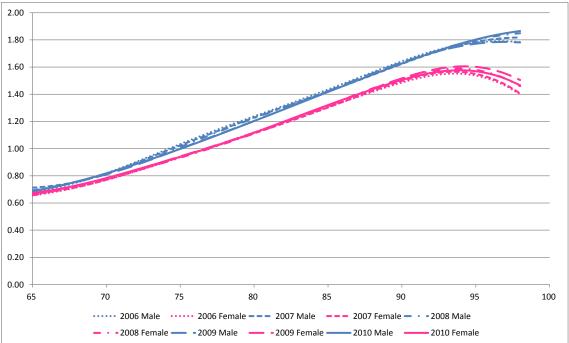


Chart 10: Medicare Total Allowed Charge by Age 2006 through 2010

The costs for all years were indexed to the weighted average cost of the population for each year. The 2010 demographics were used for each year for the weighting to eliminate the noise that could be introduced with changing demographics. The costs only include Medicare Parts A and B fee-for-service costs and do not include outpatient prescription drugs.

Two key findings can be derived from the above chart by comparing the 2006 lines to the 2010 lines. One, relative per capita costs steepened for both males and females during the five years of data reviewed. Two, the costs do not level off until the mid-90s for both males and females.

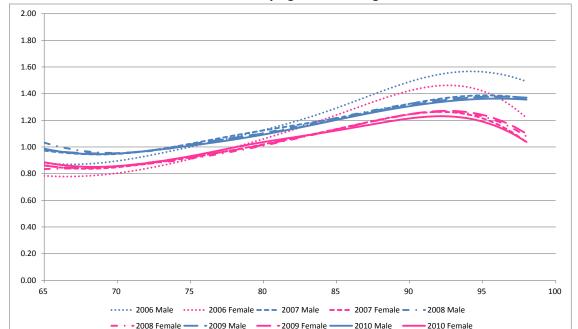


Chart 11: Medicare Net Allowed Amount by Age 2006 through 2010

The relative cost curve is flatter for the above Medicare net allowed amounts than the underlying Medicare total allowed charges. The key difference would be the Medicare benefit design that results in a lower proportion of inpatient costs in the net allowed amount than in the Medicare total allowed charge. Inpatient costs for the Medicare net allowed amounts primarily include the Part A inpatient deductible with the coinsurance payments for long term hospital stays to a lesser degree. The difference in the shape of the curve from the Medicare net allowed amount chart implies that inpatient cost by age is the key driver of the Medicare total allowed charge curve trend over time. During the five year period, it visibly appears that the cost curve has flattened. The 2006 age curve seems to be an anomaly relative to the other four years and suggests that it should be ignored.⁴

Medicare Costs by Service

Similar to the pre-Medicare analysis by service, per capita costs were summarized by single age and gender for each year by major service categories (inpatient facility, outpatient facility, professional and prescription drugs) for Medicare members. The following charts show the results for all experience years by each major service, first for Medicare Total Allowed Charge, then for Medicare Net Allowed Amount. All charts are shown with a scale from 0.00 to 2.00 except for inpatient facility costs that use an expanded scale to 3.00. Detailed results are shown in tables in the appendix.

Inpatient Facility Costs

The inpatient facility costs by age showed the greatest variation of the four service categories. The indexes at the oldest ages have values exceeding 2.0. In addition, other than the older ages, the inpatient facility curve is nearly unchanged over the last ten years.

⁴ This anomaly was shown to CMS Office of the Actuary and they were not aware of any design difference between 2006 and the other years that would yield such a difference.

Chart 12: Inpatient Facility Costs by Age and Experience Year—Medicare Total Allowed Charge

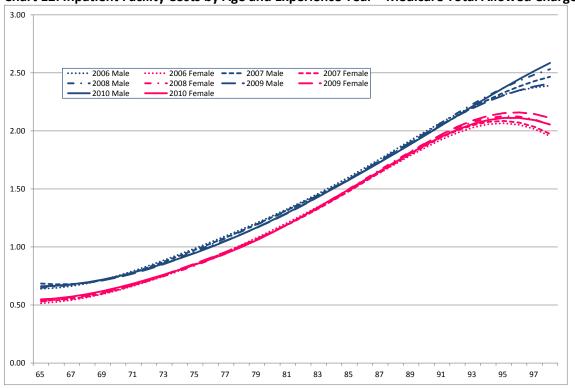
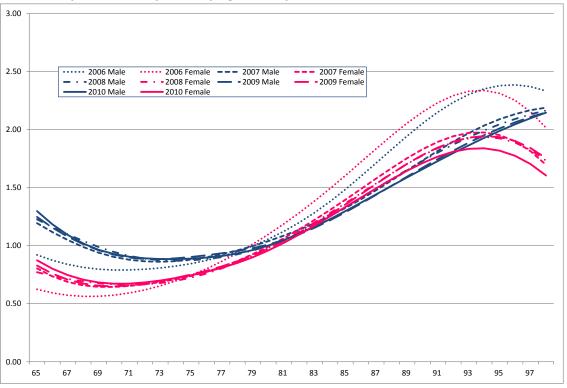


Chart 13: Inpatient Facility Costs by Age and Experience Year—Medicare Net Allowed Amount



The age curve for Medicare allowed charges is very similar for all study years but departs at the older ages. The male age curve for 2010 shows an increasing cost trend relative to the average over the other experience years but there is not a consistent change by year. The 2009 age curve is very similar to the 2006 age curve but the 2007 and 2008 age curves are between the 2006 and 2010 age curves. The female age curve at these older ages show more sporadic variation with the 2009 age curve having the highest index values and the 2010 age curve in the middle of the high 2009 age curve and the low 2006 age curve.

The curve for the Medicare net allowed amounts produces an interesting pattern relative to the Medicare total allowed charge cost curve. First the 2006 curve seems to be much different than the other years and should probably be disregarded in any trend observations. However, it is consistent with the following years in that the Medicare net allowed amount cost curve is flattening out between 2007 and 2010.

The Medicare net allowed amount age curve also declines in the early years of Medicare coverage before increasing again in the mid-70s and finally declining again in the mid-90s. The declining curve in the 60s and the 90s are probably for different reasons. In the 60s, it is likely that the length of stay is less than later ages so that the Part A inpatient deductible is a greater percentage of the Medicare total allowed charge. This also implies that the hospital admission rate declines in the 60s which may be true as the healthier beneficiaries who were working start to enroll in Medicare. The decline in the 90s seems to correlate with the decline in overall Medicare total allowed charges.

Outpatient Facility Costs

The outpatient facility costs by age exhibit a consistently increasing age curve until the mid-90s. Costs by ages show greater variation in the later ages and indicate higher cost levels over time. The relative female costs also decline at a greater rate in the 90s than the relative male costs.

Chart 14: Outpatient Facility Costs by Age and Experience Year—Medicare Total Allowed Charge

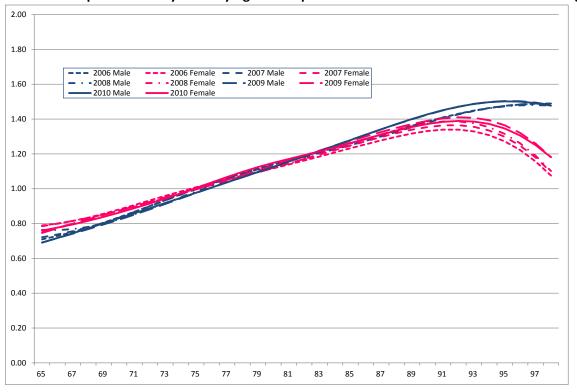
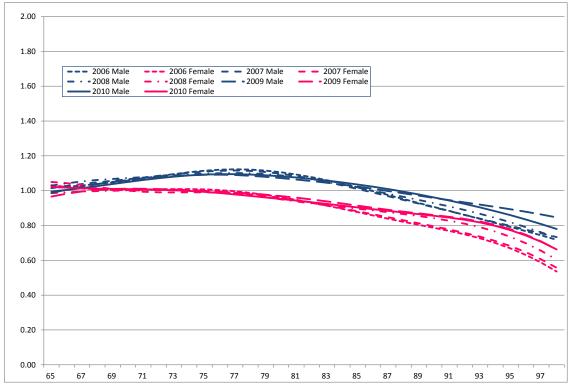


Chart 15: Outpatient Facility Costs by Age and Experience Year—Medicare Net Allowed Amount



Medicare net allowed amounts reflect a relatively flatter aging curve than the Medicare total allowed charges. In fact, after peaking in the late 70s, the relative costs begin to decline. There appears to be an increasing relative cost trend at the older ages over the years. Both the 2009 and 2010 age curves for both males and females are higher than the 2006 through 2008 age curves which are relatively close together.

Professional Service Costs

Professional service costs show increasing costs until the mid-80s and then decline. The variation of the curve over time is not as great as the inpatient and outpatient facility cost curves. However, it does show an increasing cost relative to the average cost at the older ages over time. Both the male and female age curves peak in the mid-80s and declines steadily at the older ages.

2.00 1.80 ••••• 2006 Male --- 2007 Female ••••• 2006 Female --- 2007 Male 2008 Male - • 2008 Female -- 2009 Male 2009 Female 1.60 2010 Male 2010 Female 1.40 1.20 1.00 0.80 0.60 0.40 0.20 0.00 71 93

Chart 16: Professional Service Costs by Age and Experience Years—Medicare Total Allowed Charge

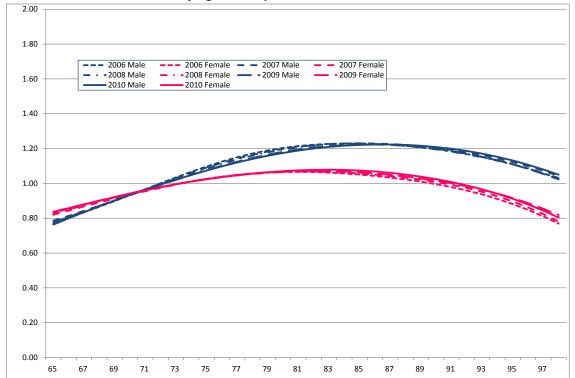


Chart 17: Professional Costs by Age and Experience Years—Medicare Net Allowed Amount

Professional service net allowed amounts show a similar curve as the total allowed charge cost curve because of the design of the Part B program (i.e., relatively low deductible and 80 percent benefit with no out-of-pocket limit).

Pharmacy Costs

Medicare Part D pharmacy costs were not available from the 5% Medicare sample but there was data available for the commercial business. This data shows an increasing cost curve until about age 80 and then declines. Similar to the other Medicare data, costs show increasing relative costs over the last five years.

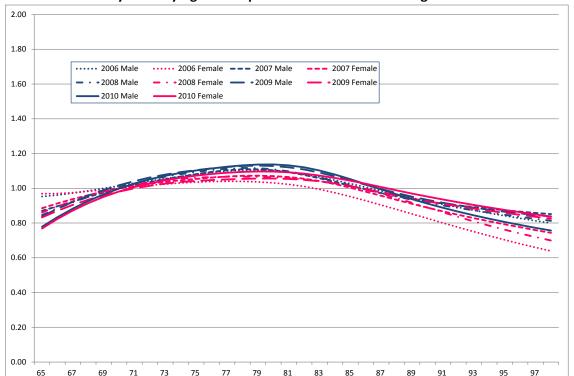


Chart 18: Pharmacy Costs by Age and Experience Years—Medicare Ages

There are not as marked differences in the age curve by gender as the other services. The indices are very close by gender in the 60s and begin to diverge in the 70s for all study years. There is a trend in the female index showing higher relative costs over the years at ages above 80 while the male costs seem to show declining relative costs with the 2010 index lower than the other years.

Medicare Benefit Payments

A natural conclusion in studying the age curves for the total allowed Medicare charges and the net allowed amounts would imply that the Medicare benefit payment would be the steepest slope. The following chart compares the three for the 2010 study period (all costs exclude prescription drugs).

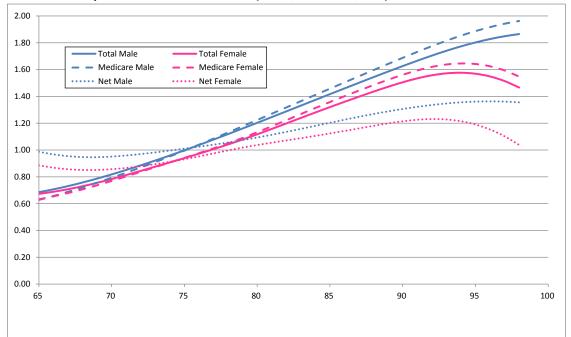


Chart 19: Comparison of Medicare Costs (Total, Medicare, Net)

The "Total" lines are the Medicare total allowed charges. The "Medicare" lines are the Medicare benefit payment amounts and the "Net" lines are the Medicare net allowed amounts.

One interesting use of the above curve is to estimate the per person cost increase of the Medicare program if the eligibility age were increased to age 70. Using the 2010 enrollment, about 28 percent of the population will be dropped but only 19 percent of the claims will be eliminated. This will mean that the per person cost will increase by 12.5 percent by dropping the younger retirees from the Medicare program $[(1.00-0.19) \div (1.00-0.28)-1.00]$. But, it does save the Medicare program 19 percent.

Another use of the age curve is to estimate a person's total out-of-pocket costs in retirement. Social Security estimates of life expectancy at age 65 are about 19 and 21 years for males and females, respectively. Of course, this is an average and retirees may live longer or shorter lifespans than the averages suggest. The following illustrates average costs for persons retiring at 55, 60, 65 and 70 in 2013 and living to 75, 80, 85, 90 and 95. It assumes that the average per person costs published by the Health Care Cost Institute represent total costs under age 65. Of course, it only represents the cost of claims and does not include any administrative costs of insurance companies to provide the benefits. For post-65 costs, it assumes the average net allowed cost from the 5% Medicare sample. These are costs not paid by Medicare and therefore a cost that retirees will pay for either by purchasing insurance or out of

⁵The 2012 Annual Report of the Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds. *Table V.A.4. Cohort Life Expectancy*. Washington: U.S. Government Printing Office, 25 April 2012.

⁶ Health Care Cost Institute. *Health Care Cost and Utilization Report: 2011*. Washington: Health Care Cost Institute, September 2012.

their pockets. In addition, retirees will be required to pay the Medicare Part B and D premiums which vary by income but most retirees will pay the standard premium rates which are used in this exhibit.⁷

Table 2: Health Care Costs in Retirement for Single Retiree in 2013

Retirement	Life Expectancy						
Age	75	80	85	90	95		
55	\$ 206,200	\$ 276,300	\$ 372,400	\$ 501,500	\$ 672,500		
60	123,400	176,500	249,300	347,200	476,800		
65	50,900	91,200	146,400	220,600	318,800		
70	23,000	53,700	95,500	151,800	226,200		

The above amounts are for a single retiree in 2013. For a family of two, the amounts should be doubled. They represent the present value of future expected health care costs that are not paid by Medicare. If the above numbers were discounted to a present value number, they will be less. For example, the \$146,400 amount for an age 65 retiree living until age 85 would be \$104,100 discounted at 3 percent per year.

Fidelity Investments has been estimating a similar cost of medical expenses in retirement for the last few years. Their latest estimate from 2012 was that a 65-year old couple would need \$240,000 to cover medical expenses thought retirement. That number is comparable to the 65 year old living to 85 shown above which would be about \$293,000 ($$146,400 \times 2$).

The Medicare payment costs can be used to illustrate the cost of providing Medicare benefits by the government. Since the Medicare Parts A, B and C are financed in different ways, it is not easy to add up their costs in a comparable fashion from the annual Trustees report. Starting with the 5% Medicare sample in 2010, we can calculate the estimated costs per person in 2013 using the assumed trend rates shown in the Methodology section. The resulting projected costs are shown below:

Table 3: Projected Medicare Costs for Single Retiree in 2013

Retirement		Life Expectancy						
Age	75	80	85	90	95			
65	\$ 130,100	\$ 250,700	\$ 433,900	\$ 705,400	\$ 1,092,900			
70	61,900	153,800	292,700	498,500	792,200			
75		72,600	178,600	334,500	557,100			
80			83,700	202,600	371,300			

Assuming an average life expectancy to age 85 for a new Medicare beneficiary at age 65, the federal government will spend, on average, \$433,900 for their Medicare coverage. The chart also shows the sensitivity of the government obligation to differences in life expectancy. If the new Medicare

⁷ See the Methodology section for details on the health care trend rate and other assumptions used in the projections.

⁸ In Fidelity Investment's press release, they assume that males have a life expectancy of 17 years and 20 years for females. Fidelity. *Fidelity Estimates Couples Retiring In 2012 Will Need \$240,000 To Pay Medical Expenses Throughout Retirement*. Boston: Fidelity, 12 May 2012.

beneficiaries were to live for 25 years instead of 20 years on average, the obligation increases by 63 percent to \$705,400.

Combined Net Medicare Costs

Using the net cost curves above can be used to derive plan specific age curves. For example, if we assume the 2010 study year is an appropriate aging curve for the Medicare population and the plan's costs are allocated by the following:⁹

•	Inpatient	20%
•	Outpatient	10%
•	Professional	10%
•	Pharmacy	60%

Then the following age curve assumption may be derived.

Table 4: Development of Plan Specific Medicare Age Curve

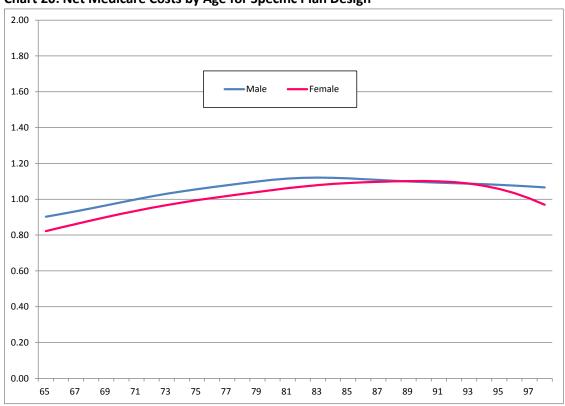
	20.00%		10.	00%	10.	00%	60.	00%	100	.00%
	Inpa	atient	Outpatient		Professional		Pharmacy		Total	
Age	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
65	1.296	0.873	0.996	1.022	0.763	0.836	0.778	0.769	0.902	0.822
66	1.184	0.801	1.004	1.018	0.800	0.858	0.834	0.824	0.917	0.842
67	1.091	0.745	1.015	1.014	0.835	0.880	0.883	0.872	0.933	0.862
68	1.018	0.706	1.026	1.011	0.869	0.901	0.927	0.915	0.949	0.881
69	0.964	0.682	1.038	1.010	0.902	0.922	0.965	0.951	0.966	0.900
70	0.927	0.672	1.050	1.009	0.934	0.942	0.999	0.982	0.983	0.918
71	0.904	0.673	1.062	1.008	0.964	0.961	1.028	1.007	1.000	0.936
72	0.890	0.683	1.072	1.006	0.993	0.979	1.052	1.029	1.016	0.952
73	0.884	0.699	1.080	1.003	1.022	0.995	1.072	1.046	1.030	0.968
74	0.884	0.720	1.088	0.998	1.048	1.010	1.089	1.061	1.044	0.982
75	0.888	0.745	1.092	0.993	1.074	1.024	1.103	1.073	1.056	0.995
76	0.896	0.774	1.095	0.986	1.098	1.036	1.114	1.083	1.067	1.007
77	0.911	0.809	1.095	0.978	1.120	1.047	1.124	1.089	1.078	1.018
78	0.932	0.851	1.092	0.970	1.141	1.056	1.132	1.094	1.089	1.029
79	0.962	0.900	1.088	0.961	1.159	1.064	1.137	1.097	1.099	1.040
80	1.001	0.958	1.082	0.952	1.175	1.070	1.137	1.096	1.108	1.051
81	1.047	1.023	1.076	0.943	1.189	1.075	1.132	1.092	1.115	1.062
82	1.102	1.096	1.068	0.933	1.200	1.078	1.120	1.084	1.119	1.071
83	1.162	1.173	1.058	0.924	1.210	1.079	1.102	1.073	1.121	1.079
84	1.228	1.253	1.047	0.914	1.216	1.077	1.079	1.060	1.119	1.085
85	1.297	1.333	1.035	0.903	1.221	1.074	1.052	1.044	1.116	1.091

⁹ The 20%/10%/60% allocation above is appropriate for a typical large employer-sponsored plan using Medicare carve-out coordination. If the plan design or Medicare coordination method is different, another allocation may need to be used. For a Medicare Advantage product where the plan is responsible for all of the Medicare allowed charges, a similar calculation should be done on the Medicare total allowed charge age/gender curve.

	20.	00%	10.	00%	10.	00%	60.	00%	100	.00%
	Inpa	ntient	Outp	atient	Profe	ssional	Phar	macy	To	otal
Age	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
86	1.369	1.414	1.023	0.893	1.223	1.068	1.023	1.026	1.112	1.095
87	1.442	1.494	1.009	0.884	1.223	1.060	0.993	1.007	1.108	1.097
88	1.515	1.572	0.994	0.874	1.221	1.051	0.965	0.988	1.103	1.100
89	1.588	1.645	0.978	0.865	1.216	1.039	0.937	0.970	1.099	1.101
90	1.659	1.712	0.961	0.856	1.209	1.024	0.912	0.952	1.096	1.102
91	1.729	1.768	0.943	0.845	1.199	1.008	0.888	0.935	1.093	1.100
92	1.798	1.810	0.924	0.833	1.186	0.988	0.865	0.919	1.090	1.096
93	1.864	1.834	0.903	0.817	1.171	0.966	0.845	0.904	1.087	1.088
94	1.928	1.838	0.882	0.797	1.152	0.941	0.825	0.889	1.084	1.075
95	1.989	1.818	0.859	0.773	1.131	0.912	0.806	0.875	1.080	1.057
96	2.045	1.773	0.834	0.742	1.107	0.879	0.789	0.862	1.076	1.034
97	2.098	1.702	0.808	0.706	1.080	0.843	0.772	0.849	1.072	1.005
98	2.146	1.604	0.780	0.663	1.050	0.803	0.757	0.836	1.066	0.969

Graphically, the resulting age curve is shown in Chart 21.

Chart 20: Net Medicare Costs by Age for Specific Plan Design



The resulting curve is a relatively flat aging line varying from 0.82 to 1.12.

Commercial Medicare Data

The HCCI database includes data for covered members younger and older than age 65. Unfortunately, the commercial data does not have indicators for active/retired status for members over age 65 or, at the time of the study, indicators of which data is for Medicare Advantage members. The observed age cost curve for the commercial post-65 per capita costs shows a consistently declining relative cost. This can be explained by a mix of active members, where the insured plan is primary, and retired members, where Medicare is primary at the earlier years, plus a mixture of Medicare Advantage members, where there is no direct offset of charges for Medicare payments in the data. The resulting age curve may be useful if a similar mix of active/retired members and type of plan is being studied. However, because they are very different populations, any such analysis should split out these populations to better understand their cost patterns.

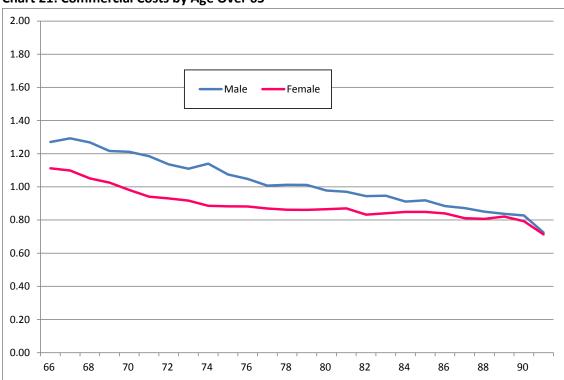


Chart 21: Commercial Costs by Age Over 65

The above chart shows the raw data for all commercial data. All of the separate splits of data by market segment and plan type were similar. Because these results are likely due to a non-homogeneous mix of actives and retirees, and types of insurance coverage, the analysis of post-65 costs is limited to the use of the Medicare 5% sample with the exception of the prescription drug data which was shown in the prior section. The same issue of mixing of data with Medicare offsets and without offsets is not an issue with the prescription drug data.

Health Care Costs by Condition

Three different conditions were analyzed for cost variations by age including cancer, circulatory and musculoskeletal conditions. These three were chosen because they had the most occurrences for both

the commercial and Medicare populations. For uniformity of plan type, the group PPO members only are studied for the commercial population.

The data was reviewed in two different ways. One was to develop a cost index for the population with the disease and compare it to the overall index. The second method was to compare the disease population cost index to the overall cost index to derive a cost ratio for the disease population relative to the overall population. The second approach creates an interesting measure that makes it easier to show both the commercial and Medicare populations together, so that method is used for most of the analysis.

The following chart shows the relationship of costs for those with cancer compared to the total population for the commercial group.

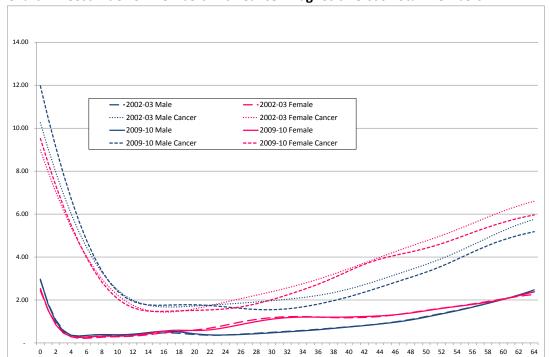


Chart 22: Cost Index of Members with Cancer Diagnosis versus Total Members

For the two study periods (2002-03 and 2009-10), the resulting indices are relatively similar with high costs for those with cancer at the younger ages and converging in the twenties and then diverging again at the older ages.

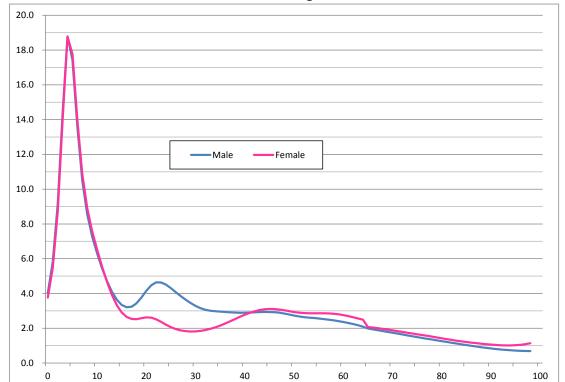


Chart 23: Cost Ratio of Members with Cancer Diagnosis to Total Members – 2009-10

Since the 2002-03 and 2009-10 study periods showed similar aging curves, only the 2009-10 study period is shown in these ratio charts. The above chart also brings in similar data for the Medicare population. Note that even though these are two separate data sources, the ratio indices are very compatible and join at age 65 with remarkably similar results.

For members with cancer, health care costs are extremely high compared to total members for children and stabilizes around 3.0 (i.e., three-times average costs) during the working years of adults and gradually decreases over age 65. For males, the ratio declines more rapidly than females at the older ages and goes below the average 1.00 starting in the mid-80s.

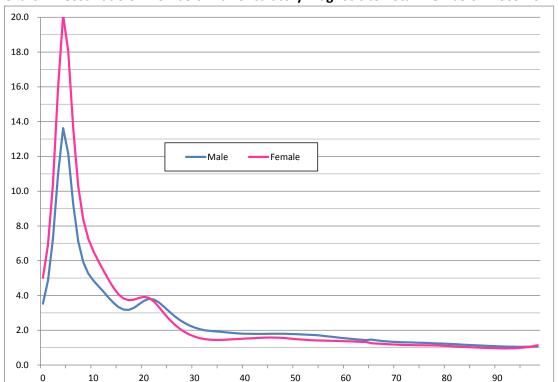


Chart 24: Cost Ratio of Members with Circulatory Diagnosis to Total Members – 2009-10

Members with circulatory conditions have a similar ratio to average costs as those with cancer except the ratio levels off at 1.5 instead of 3.0 during the working years and decreases slowly above age 65 stabilizing at about 1.0.

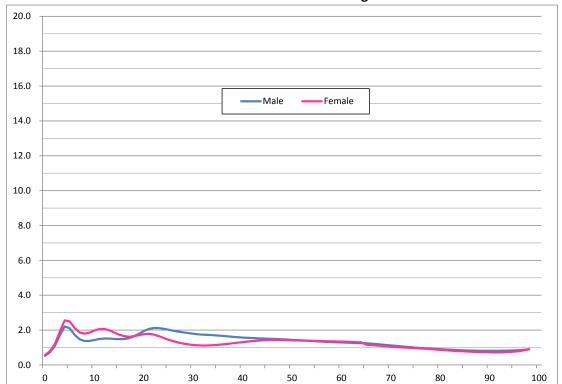


Chart 25: Cost Ratio of Members with Musculoskeletal Diagnosis to Total Members – 2009-10

Members with musculoskeletal conditions show a different ratio pattern than the other two conditions and have much less variation from the average (note the Y-axis scale is kept at 0.0 to 20.0, the same as for the other two conditions). The index rises in the early years and somewhat stabilizes during the teen years and twenties and then begin to decrease from the 30s on. The ratio actually goes below 1.0 for members over age 75 meaning that their health care costs are less than the average.

Implications of Conditions

In general, members with some type of identified condition have costs higher than the average. As the prevalence of these conditions change over time, it will influence costs by age—especially at the younger ages. Two ratios to watch are the ones that dip below the average (males over 85 for cancer conditions and both genders over age 75 for musculoskeletal conditions) if different treatments become available for patients at those ages, costs could increase.

For the three conditions studied, the following chart shows the prevalence of each between the 2002-03 and 2009-10 study periods. For example, in the 2002-03 data, 2.4 percent of the members had cancer as their primary diagnosis.

Condition	2002-03	2009-10
Cancer	2.4%	2.6%
Circulatory	2.8%	3.1%
Musculoskeletal	7.3%	8.6%

Five-Year Age Group Curve

Age/gender medical costs are often summarized by costs in five-year age groups (children grouped as one group despite the recognized high costs in the early years). The following table was derived from the Group PPO data from the 2010 study period. As discussed above, commercial costs above age 65 included a mix of active (private plan primary) and retired (Medicare primary) so that an active cost age 65 and over is not readily available. The following table extrapolated the age 65 cost by fitting a geometric curve to the age 60 through 64 costs. Costs after age 65 were based on the increase in costs of the Medicare allowable charge costs and net costs including prescription drugs. Active costs over age 70 were assumed the average of ages 70 through 74.

Table 5: Five-Year Age/Gender Table

Group	Age	Male	Female
Children		0.533	0.533
Actives	< 20	0.500	0.587
	20-24	0.394	0.625
	25-29	0.410	0.922
	30-34	0.515	1.165
	35-39	0.646	1.200
	40-44	0.805	1.229
	45-49	1.016	1.349
	50-54	1.339	1.587
	55-59	1.740	1.835
	60-64	2.233	2.184
	65-69	2.786	2.618
	70+	3.338	3.087
Retiree (Total)	65-69	0.766	0.746
(with Rx)	70-74	0.918	0.880
	75-79	1.084	1.021
	80-84	1.246	1.171
	85-89	1.388	1.309
	90-94	1.511	1.397
	95+	1.606	1.351
Retiree (Net)	65-69	0.933	0.886
(with Rx)	70-74	1.025	0.973
	75-79	1.089	1.040
	80-84	1.111	1.071
	85-89	1.073	1.044
	90-94	1.004	0.958
	95+	0.931	0.827

A specific use of the above table is to use it for retiree medical actuarial valuations when a premium rate is provided that is based on a blend of active employee and pre-65 retiree experience. Assuming that active employee and retiree morbidity is the same at the same age, a \$6,000 blended premium rate and the following demographics, the single premium rate may be split by age and group.

Table 6: Example of Splitting Blended Premium Rate

		Age/Gender					
		Membe	r Count	Fac	ctor	Premiur	n Rate
Group	Age	Male	Female	Male	Female	Male	Female
Actives	< 20	50	20	0.500	0.587	2,347	2,755
	20-24	80	75	0.394	0.625	1,850	2,935
	25-29	100	125	0.410	0.922	1,925	4,330
	30-34	200	200	0.515	1.165	2,416	5,472
	35-39	225	250	0.646	1.200	3,034	5,636
	40-44	225	250	0.805	1.229	3,780	5,769
	45-49	250	300	1.016	1.349	4,773	6,336
	50-54	200	200	1.339	1.587	6,286	7,454
	55-59	150	200	1.740	1.835	8,172	8,617
	60-64	100	50	2.233	2.184	10,487	10,254
	65-69	50	50	2.786	2.618	13,081	12,292
	70+	10	0	3.338	3.087	15,675	14,495
	Total	3,3	60	1.205		\$ 5,659	
Retiree	50-54	10	20	1.339	1.587	6,286	7,454
	55-59	50	50	1.740	1.835	8,172	8,617
	60-64	100	100	2.233	2.184	10,487	10,254
	Total	33	330 2.017			\$ 9,4	171
Total		3,6	90	1.2	278	\$ 6,0	000

In the above table, the member count (employees, retirees and covered dependents) and the \$6,000 blended premium are the given numbers. Cross-multiplying the member counts with the age/gender factors develops the total average 1.278 factor as well as the 1.205 and 2.017 average factors for actives and retirees, respectively. The premium rates are developed by multiplying the appropriate age/gender factor with the average age-adjusted premium rate of \$4,696 ($$6,000 \div 1.278$). For example, the male age 20-24 rate is \$4,696 × 0.394 = \$1,850.

As a result, the average active employee's premium rate is \$5,659 or about 94 percent of the blended rate and the average pre-65 retiree premium rate is \$9,471 or 158 percent of the blended rate (and 167 percent of the active rate).

Readers using the age curve developed in this study are encouraged to read a study by Jeff Petertil that appeared in the North American Actuarial Journal.¹⁰ In Table 4 of that study, a representative age curve table for a group of retirees was presented, in a form showing one-year age-to-age factors by age bands. For comparison purposes to this current study, the factors from that representative age curve were converted to a comparable cost index for the under age 65 commercial population and the Medicare population. The representative table starts at age 50 as the analysis was specifically for health care costs in retirement.

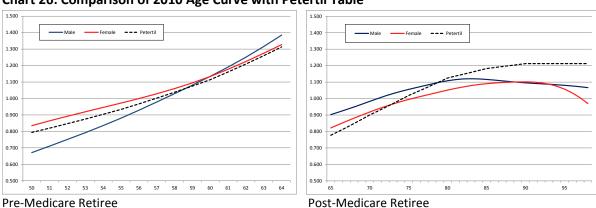


Chart 26: Comparison of 2010 Age Curve with Petertil Table

The representative age curve was intended to be a unisex age curve. It does a pretty good job following pre-Medicare retiree 2010 experience—a little high before age 60 and a little low after 60. The post-Medicare representative age curve produces a steeper curve than 2010 experience age curve that was developed in Table 4 of this study. Depending on design, the 2010 experience age curve will change which makes this comparison more difficult.

Aging in Health Care Costs of the United States

The preceding charts and discussion have shown that there have been slight changes in the "shape" of the health care cost curve over the last decade. The change in the shape of the curve may be attributed to many variables including generational attitudes toward health, treatment pattern changes of conditions over time, changing medical technology and the availability of more and different drug treatments. However, one use of the resulting age curve is to demonstrate its overall contribution to health care cost trends over the last several years. Assuming the shape of the curve is similar for the total United States population, the above indices can be applied to the age of the U.S. population at various years to determine the impact of aging on health care costs.

The following table shows the U.S. population by age groupings at various years along with the total national health expenditures per capita.

¹⁰ Petertil, Jeffrey P. "Aging Curves for Health Care Costs In retirement." *North American Actuarial Journal* 9.3 (2005): 22-49.

Table 7: Impact of Aging on Health Care Cost Trends from 1930-2010

Gender	Age Group	1930	1950	1970	1990	2010	Index
Male	Under 20	24,013,884	25,922,460	39,138,579	36,524,801	42,575,112	0.500
	20 to 24	5,336,815	5,606,293	7,917,269	9,675,596	11,056,339	0.394
	25 to 29	4,860,180	5,972,078	6,621,567	10,695,936	10,675,799	0.410
	30 to 34	4,561,786	5,624,723	5,595,790	10,876,933	10,063,421	0.515
	35 to 39	4,679,860	5,517,544	5,412,423	9,902,243	9,996,641	0.646
	40 to 44	4,136,459	5,070,269	5,818,813	8,691,984	10,399,409	0.805
	45 to 49	3,671,924	4,526,366	5,851,334	6,810,597	11,182,579	1.016
	50 to 54	3,131,645	4,128,648	5,347,916	5,514,738	10,966,236	1.339
	55 to 59	2,425,992	3,630,046	4,765,821	5,034,370	9,580,184	1.740
	60 to 64	1,941,508	3,037,838	4,026,972	4,947,047	8,158,625	2.233
	65 to 69	1,417,812	2,424,561	3,122,084	4,532,307	5,892,007	2.786
	70 to 74	991,647	1,628,829	2,315,000	3,409,306	4,268,737	3.338
	75 to 79	547,604	1,001,798	1,560,661	2,399,768	3,183,507	3.943
	80 to 84	251,138	504,958	875,584	1,366,094	2,302,229	4.532
	85 and over	117,010	236,828	542,379	857,698	1,807,168	5.187
Female	Under 20	23,595,107	25,176,662	37,831,821	34,797,085	40,660,924	0.587
	20 to 24	5,533,563	5,875,535	8,453,752	9,344,716	10,611,599	0.625
	25 to 29	4,973,428	6,270,182	6,855,426	10,617,109	10,477,448	0.922
	30 to 34	4,558,635	5,892,284	5,834,646	10,985,954	10,030,407	1.165
	35 to 39	4,528,785	5,728,842	5,694,428	10,060,874	10,085,603	1.200
	40 to 44	3,853,736	5,133,704	6,162,141	8,923,802	10,499,772	1.229
	45 to 49	3,370,355	4,544,099	6,264,605	7,061,976	11,465,341	1.349
	50 to 54	2,844,159	4,143,540	5,756,102	5,835,775	11,399,093	1.587
	55 to 59	2,219,685	3,605,074	5,207,207	5,497,386	10,199,011	1.835
	60 to 64	1,809,713	3,021,637	4,589,812	5,669,120	8,828,565	2.184
	65 to 69	1,352,793	2,578,375	3,869,541	5,579,428	6,623,327	2.618
	70 to 74	958,357	1,783,120	3,128,831	4,585,517	5,057,301	3.087
	75 to 79	558,786	1,150,609	2,274,173	3,721,601	4,129,865	3.585
	80 to 84	283,538	620,386	1,408,727	2,567,645	3,447,852	4.110
	85 and over	155,120	340,073	968,522	2,222,467	3,725,588	4.692
_							
	age Index	0.956	1.073	1.115	1.206	1.299	
	l % change	4.00	0.6%	0.2%	0.4%	0.4%	
	per capita	\$ 29	\$ 83	\$ 356	\$ 2,854	\$ 8,417	
Annua	l % change		5.3%	7.5%	11.0%	5.6%	

Source: NHE for 1930 and 1950 from Social Security Administration; 1970 - 2010 from Centers for Medicare and Medicaid Services

The above chart was developed using the 2010 age curve developed in this paper (the last column labeled "Index"). Using this one stable age curve as a constant is used to show how the population change over the years has contributed to cost increases without the noise created by using different age curves for different years because the shape of the curve may be changing because of contributing factors other than age and gender. The middle columns under the labels 1930 to 2010 are the total population of the United States for each year. Using the population as weights, an "Average Index" is calculated for each year. For example, the weighted average of the index column using the population in 1930 is 0.956. The effect of aging can be developed by using these average index numbers for each period. The average annual change is developed by taking the 20th root for each 20-year change. For

example, the most recent annual change from 1990 to 2010 was developed by dividing 1.299 by 1.206 and taking the 20^{th} root $[0.4\% = (1.299 \div 1.206)^{0.05} - 1.00]$

National health expenditure per capita costs have increased between 5 to 11 percent per year for the four 20-year periods since 1930 and the aging demographics have contributed less than 0.5 percent each year except 1930 to 1950. The annual average increase in the NHE was 7.3 percent from 1930 through 2010 while the average aging index increased at 0.4 percent. Over this same time period, the consumer price index grew from an average of 16.7 in 1930 to an average of 218.06 in 2010—an annual average of 3.3 percent. Assuming CPI is a reasonable proxy for inflation, the NHE grew at a real rate of 4.0 percent and aging accounted for about 10 percent of the real growth.

This result is consistent with other studies. For example, a Health Affairs article¹² from 2012 estimated that demographic effects (age and gender) on real per capita health spending growth from 1960 through 2007 accounted for 7.2 percent. CPI growth from 1950 through 2010 and 1970 through 2010 was 3.7 percent and 4.4 percent, respectively.¹³ The annual NHE per capita growth from the same years was 8.0 percent and 8.2 percent so real NHE per capita growth was 4.3 percent from 1950 and 3.8 percent from 1970. The average annual change in the average aging index from 1950 through 2010 was 0.3 percent and from 1970 through 2010 it was 0.4 percent. Demographic changes therefore accounted for 7.5 percent of the health care growth from 1950 and 10.0 percent from 1970. The Health Affairs article related real growth to GDP and using the implicit price deflator as a measure of inflation produces slightly different results with demographic changes accounting for 7.0 percent and 8.7 percent of real per capita health care growth from 1950 and 1970 to 2010, respectively.¹⁴

The aging curve index was extrapolated beyond age 70 from the commercial age curve by using the Medicare aging curve. A refinement of this aging factor development would be to account for the difference between Medicare and commercial plan payments but that difference has changed over time since the adoption of Medicare. The author does not believe that such refinement will significantly change the result.

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¹¹ During the same time period, the implicit price deflator, which is often cited as a better measure of inflation, increased an average of 3.0 percent.

¹² Smith, Sheila, Joseph P. Newhouse, and Mark S. Freeland. "Income, insurance, and technology: Why does health spending outpace economic growth?." *Health Affairs* 28.5 (2009): 1276-1284.

¹³ The average CPI-U for 1930 was 16.7, for 1950 it was 24.1, for 1970 it was 38.8 and for 2010 it was 218.1, U.S. Bureau of Labor Statistics. *Consumer Price Index, All Urban Consumers*. Washington: Department of Labor, 2012.

¹⁴ The implicit price deflator for the five years shown (1930-2010) were 10.226, 14.656, 24.338, 72.262 and 110.993, Implicit Price Deflators for Gross Domestic Product, U.S. Department of Commerce, Bureau of Economic Analysis.

Follow-Up Studies

The results of this study have produced several different analysis of how health care costs vary by age and gender. However, as the author compiled results, there were limitations to the available data that would have been useful for other analysis. The additional data and studies that could be done include:

- There was not coding available in the database to identify members who were actively working versus retired. It would be nice to have this additional data to study the impact that retired status has on costs relative to the active employee population.
- The commercial data for members over age 65 were not used in this study because the data included a mix of active and retired members (active members over age 65 are likely still covered by the employer plan as their primary coverage) and types of coverage (Medicare Advantage HMO, PPO and private fee-for-service; employer coverage, individual coverage—MA claims would not include a Medicare offset whereas employer and individual coverage would). These separate indicators are needed to effectively use the post-age 65 commercial data.
- Interesting analysis has been done in other studies regarding health care costs in the last year of life
 relative to other years. This database includes an extremely valuable base to do further studies in
 this area so mortality statistics will need to be merged into this claims database to do such a study.
- There was an observed increase in relative costs (i.e., higher index) for both males and females in pharmacy costs in their teens and early 20s. Further analysis could be done to better understand the drivers in the increase.

Data, Methods and Assumptions

The key source of data was the Health Care Cost Institute (HCCI) commercial data from 2001 through 2010. The Medicare fee-for-service analysis was based on the 5 percent sample of Medicare data for years 2006 through 2010. Summarized data was received by the researcher for use in this analysis. This section documents the data received, methods used to evaluate the data and any assumptions used to develop results.

Data

Summarized data was prepared by the data analytics group employed by HCCI for this study. In general, the data received for the commercial and Medicare datasets were similar with some slight differences in claim amounts received so that analysis could be made of costs not paid by Medicare. In general, the following data was received.

Calendar year: Data was grouped by single years based on member enrollment, fill date for
pharmacy data, admission date for inpatient stays and service date for other providers.
 Commercial data was received for years 2001 through 2010 and Medicare data for years 2006
through 2010. After review, the 2001 calendar year data was not used due to significantly lower
exposures relative to the other years. Enrollment data is included for all years, including
members with no claims.

- Plan type: Data was grouped by HMO and PPO/POS/FFS. Medicare claims were classified as PPO/POS/FFS.
- Market segment: Individual and group business segments were separately identified.
- Age: The HCCI data only include the members' year of birth. Age was calculated based on set
 calculations utilized by HCCI which is to determine the age monthly by subtracting an assumed
 birthday of July 1 of the year of birth from the reporting month. For this data, the lowest age
 was used for the reported data. Therefore, newborns are classified as age -1 in the data
 received. Ages for commercial data were capped at age 90 and age 98 for the Medicare data.
- Gender: Male and female indicators were provided.
- Subscriber relationship: Self and dependent indicators were provided.
- Primary disease condition: Each member was assigned to a single major diagnostic category based on DRGs for inpatient stays and ICD-9 diagnosis codes for other services.
- Medical member months: Each record includes the number of months a member was eligible for coverage whether or not a claim was reported. That is, zero cost claimants are included.
- Pharmacy member months: Since not all members in the database have both medical and outpatient pharmacy claims data submitted, a separate count of the number of months a member was eligible for pharmacy coverage is included.
- Inpatient facility allowed amount: Total covered amount (allowed charge) is summarized for all
 inpatient service stays. These include hospital stays as well as skilled nursing facilities, hospice
 and mental health hospitals.
- Outpatient facility allowed amount: Total outpatient facility allowed charges include all identified facility charges that are not inpatient charges.
- Professional and other allowed amount: All professional charges identified by HCCI which are basically those that do not have a valid revenue code that identifies them as a facility claim.
- Pharmacy allowed amount: Outpatient pharmacy costs are separately identified in the data warehouse. Amounts reported include all charges eligible for benefit payment including ingredient costs, dispensing fees and taxes.

In addition, the Medicare data included amounts so that both the total allowed charge (the Medicare allowable amount) and the Medicare benefit payment could be identified. For post-65 analysis, both the total Medicare allowed charge as well as the Medicare net charge is studied. The net charge is the amount that may be supplemented by private plans and represents the difference between the total allowed charge and the Medicare benefit payment.

Methods

Data was summarized for several different study segments for this research to answer specific questions. At a high level, the following key hypotheses are explored in this research:

- 1. How has the health care cost curve changed over time?
- 2. Is there a difference in the health care cost curve between individual and group business?
- 3. Is there a difference in the health care cost curve by product (HMO versus PPO/POS)?
- 4. What are the differences in the health care cost curve by major services (inpatient facility, outpatient facility, professional and pharmacy)?
- 5. What is the pattern of health care costs by age for some key diagnostic groups?

Separately for the post-65 population, how does the health care cost curve differ between the total allowed costs of Medicare compared to the amounts that may be supplemented by private insurance (the net costs)?

In order to develop the above comparisons, the total data had to be split among several different pieces. As some of the pieces were split, it was evident that the volatility in results due to small exposures deemed the analysis immaterial due to significance of differences. For example, the early years of individual data had relatively low exposures and the resulting age curve looked significantly different than later years but that may be due solely to the lower exposures and not a real change in utilization.

After summarizing costs by age, an underlying pattern of claims was evident in most analysis but for an easier visual comparison of the data points, it was important to smooth the data. The Whittaker-Henderson graduation method was chosen to smooth data. The following two charts illustrate how the raw data was transformed to the graduated smooth data.

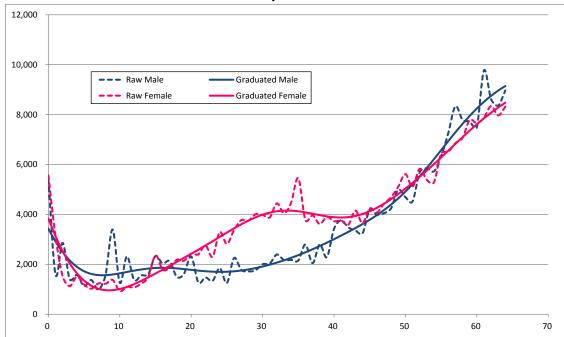


Chart 27: Individual HMO data for calendar year 2010

The smoothed data provides a pretty good representation of the underlying data. The r^2 for the above data is 0.562 for males and 0.916 for females for all ages. The correlation is low for males because of the fluctuations in the childhood ages. The r^2 for males aged 20 and over is 0.968 and 0.958 for females.

In contrast, the group PPO/POS data for the same year required less smoothing.

¹⁵ A special thank you to Stuart Klugman with the Society of Actuaries who eagerly helped set up the spreadsheet formulas for smoothing the data using the Whittaker-Henderson graduation method.

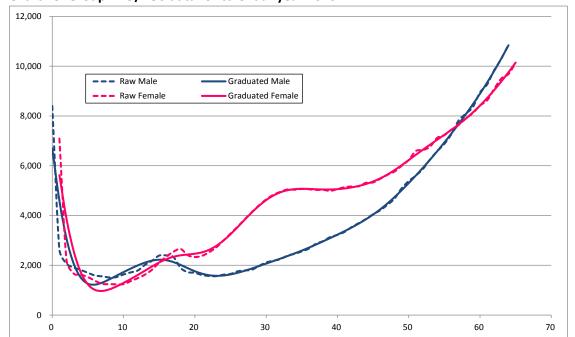


Chart 28: Group PPO/POS data for calendar year 2010

The r^2 for males is 0.981 and it is 0.980 for females for all ages. The major differences in the smoothing came at the earlier ages where the slopes are much more dramatic than they are in the adult ages. The r^2 for ages 20 and over is 1.000 for males and 0.999 for females. The big blips in data that are apparent in the individual HMO example is not evident at all in the group PPO/POS example, the key difference being the exposures between the two. The individual HMO data includes 230,000 lives and the group PPO/POS data includes 31 million lives.

The commercial pharmacy data was extended at the oldest ages to match the ages provided in the Medicare data. The commercial data lumped all costs for those aged 90 and over in one cell. The Medicare data went out to age 98. The commercial data was extrapolated by fitting an exponential curve to the commercial data ages 85 through 89.

Some data that was provided by HCCI was not used in this analysis after analyzing the data as above. These include:

- 2001 calendar year commercial data: The exposures were relatively low compared to other
 years (less than five million compared to all of the other years that included about 14 million in
 each year and with 2010 that included over 33 million lives).
- Commercial data for members over age 65: It was hoped this data could be compared to the Medicare data for consistency but due to inconsistent observed results, it was decided that there were too many variables affecting the cost curve so that it was not reliable. For all study years, this data showed a steady decrease by age from 65 through age 90 (ages 90 and above were combined). This was not consistent to the Medicare sample data. Possible reasons for the results are that active and retired members could not be separated as the indicator is not in the current HCCI database. Since most active members would have the Medicare as secondary coverage and the reported commercial data is net of Medicare, there will be an increasing

percentage of members with Medicare primary as older members are studied. Therefore, the youngest members will have costs that do not net out Medicare and the oldest members will have Medicare costs netted out of their charges. Also, those covered by Medicare Advantage PPO plans will not have a Medicare offset as the plans are paid directly by Medicare. In other data, Medicare Advantage members tend to be younger than the total Medicare population which biases toward higher costs for younger post-65 members.

- Age 64 data is a mix of members with and without Medicare coverage due to the calculation of the age.
- Only three diagnostic categories are being studied as the others have relatively low exposures and the volatility by age is too great.

Assumptions

No assumptions are used to replace data or to project data except for the commercial pharmacy data for ages 90 through 98 described in the methods section. All results are used without adjustment. An implicit assumption when study years are grouped is that such grouping does not materially impact the resulting age curve. The data could have trended to a consistent year (e.g., if 2002 and 2003 data were grouped, the 2002 data could have trended to 2003). Given that such trending may perhaps need to be different by age, gender and other characteristics, it was decided not to trend.

Tables 2 and 3 assume a health care trend rate in its underlying projections. A number of trend rates may be selected by different health care experts. For illustrative purposes for this chart, the trend rates calculated by the CMS Office of the Actuary in their latest projections of the national health expenditure are used for both the pre- and post-Medicare costs. ¹⁶ They project trends to 2021. After 2021, the 2021 trend rate is continued. The following table shows the trend rates used.

Year	Trend Rate
2010-11	3.1%
2011-12	3.4%
2012-13	2.9%
2013-14	6.4%
2014-15	4.7%
2015-16	5.3%
2016-17	5.0%
2017-18	5.2%
2018-19	5.5%
2019-20	5.8%
2020+	5.7%

The above trend rates were used for all medical costs including projecting the Medicare Part B premium.

¹⁶ Office of the Actuary. *National Health Expenditure Projections 2011-2021: Table 1, National health expenditures per capita annual change.* Washington: Centers for Medicare & Medicaid Services, 2012.

2013 per person costs used in the Table 2 projections include:

Pre-65 allowed cost: \$ 4,838
 Post-65 net allowed cost (medical only): 2,033
 Post-65 prescription drug cost: 1,112
 Medicare Part B premium: 1,259

Note that the pre-65 cost per person is from the latest HCCI report on total allowed charges for 2011 of \$4,547; the post-65 net allowed cost of \$1,853 is from the 2010 data of the 5% Medicare sample and the post-65 prescription drug costs of \$2,703 in 2010 from the commercial data. To approximate the impact of the Medicare Part D program, retirees pay about 25 percent of the standard benefit which pays about half of the drug costs and the remaining costs are paid by the federal government and the pharmaceutical industry. They will also ultimately have to pay 25 percent of the cost of the drugs in the form of copays or coinsurance. Therefore, the projections will start with a \$1,014 cost $($2,703 \times 0.50 \times 0.25 + $2,703 \times 0.25)$ in 2010.

Table 3 assumes that the total Medicare per person cost in 2010 is $$11,746 ($9,719 + $2,703 \times 0.75)$. Trending for three years to 2013 is \$12,885.

Appendix

The following pages provide the detailed tables underlying each chart included in this study. In addition, an Excel file is available with same tables.

- Chart 1: Aggregate Commercial Costs by Age 2002 and 2010
- Chart 2: Individual and Group Costs by Age for 2009-10
- Chart 3: HMO versus PPO/POS Costs by Age for 2009-10
- Chart 4: Subscriber versus Dependent Costs by Age for 2009-10
- Chart 5: Unisex Cost Curve by Age for 2010
- Chart 6: Inpatient Facility Costs by Age and Experience Year
- Chart 7: Outpatient Facility Costs by Age and Experience Year
- Chart 8: Professional Costs by Age and Experience Years
- Chart 9: Pharmacy Costs by Age and Experience Years
- Chart 10: Commercial Costs by Age Over 65
- Chart 11: Medicare Total Allowed Amount by Age 2006 through 2010
- Chart 12: Medicare Net Allowed Amount by Age 2006 through 2010
- Chart 13: Inpatient Facility Costs by Age and Experience Year—Total Allowed Amount
- Chart 14: Inpatient Facility Costs by Age and Experience Year—Net Allowed Amount
- Chart 15: Outpatient Facility Costs by Age and Experience Year—Total Allowed Amount

- Chart 16: Outpatient Facility Costs by Age and Experience Year—Net Allowed Amount
- Chart 17: Professional Costs by Age and Experience Years—Total Allowed Amount
- Chart 18: Professional Costs by Age and Experience Years—Net Allowed Amount
- Chart 19: Pharmacy Costs by Age and Experience Years—Medicare Ages
- Chart 20: Comparison of Medicare Costs (Gross, Medicare, and Net)
- Chart 21: Net Medicare Costs by Age for Specific Plan Design
- Chart 22: Cost Index of Members with Cancer Diagnosis versus Total Members
- Chart 23: Cost Ratio of Members with Cancer Diagnosis to Total Members 2009-10
- Chart 24: Cost Ratio of Members with Circulatory Diagnosis to Total Members 2009-10
- Chart 25: Cost Ratio of Members with Musculoskeletal Diagnosis to Total Members 2009-10
- Chart 26: Comparison of 2010 Age Curve with Petertil Table
- Chart 27: Individual HMO data for calendar year 2010
- Chart 28: Group PPO/POS data for calendar year 2010

Chart 1: Aggregate Commercial Costs by Age 2002 and 2010

	20	02	20:	10
Age	20 Male	62 Female	20: Male	Female
0	2.28	1.94	2.49	2.12
1	1.63	1.38	1.73	1.46
2	1.11	0.93	1.14	0.96
3	0.73	0.61	0.72	0.61
4	0.48	0.39	0.46	0.38
5	0.33	0.26	0.33	0.27
6	0.25	0.20	0.28	0.22
7	0.23	0.18	0.28	0.22
8	0.25	0.20	0.31	0.25
9	0.28	0.23	0.35	0.28
10	0.33	0.26	0.39	0.32
11	0.37	0.30	0.42	0.35
12	0.40	0.34	0.45	0.39
13	0.43	0.37	0.48	0.43
14	0.45	0.41	0.50	0.47
15	0.47	0.44	0.52	0.50
16	0.47	0.48	0.53	0.54
17	0.46	0.51	0.53	0.56
18	0.45	0.55	0.51	0.58
19	0.43	0.59	0.49	0.59
20	0.41	0.63	0.46	0.60
21	0.39	0.68	0.43	0.61
22	0.38	0.74	0.40	0.64
23	0.38	0.80	0.39	0.68
24	0.38	0.86	0.38	0.73
25	0.39	0.93	0.39	0.79
26	0.40	0.99	0.40	0.86
27	0.42	1.05	0.41	0.93
28	0.44	1.10	0.43	1.00
29	0.46	1.14	0.45	1.06
30	0.49	1.17	0.47	1.11
31	0.51	1.20	0.49	1.15
32	0.53	1.21	0.52	1.18
33	0.55	1.21	0.54	1.20
34	0.58	1.20	0.56	1.21
35	0.60	1.19	0.59	1.21
36	0.63	1.18	0.61	1.21
37	0.65	1.17	0.64	1.20
38	0.68	1.16	0.67	1.20
39	0.71	1.15	0.70	1.19
40	0.74	1.15	0.73	1.19
41	0.77	1.16	0.77	1.20
42	0.81	1.17	0.80	1.21
43	0.84	1.19	0.84	1.22
44	0.88	1.22	0.87	1.24
45	0.93	1.25	0.91	1.26
46	0.98	1.29	0.96	1.29
47	1.03	1.34	1.01	1.33
48	1.08	1.39	1.06	1.37
49	1.14	1.44	1.12	1.42
50	1.21	1.49	1.19	1.47
51	1.28	1.54	1.26	1.52
52	1.35	1.60	1.33	1.57
53	1.42	1.65	1.41	1.62
54	1.50	1.70	1.48	1.66
55	1.58	1.76	1.57	1.71
56	1.66	1.81	1.65	1.76
57	1.74	1.87	1.74	1.81
58	1.83	1.92	1.83	1.87
59	1.92	1.98	1.93	1.93
60	2.01	2.04	2.02	1.99
61	2.11	2.11	2.12	2.07
62	2.21	2.17	2.23	2.15
63	2.31	2.23	2.34	2.23
64	2.41	2.29	2.46	2.32

Chart 2: Individual and Group Costs by Age for 2009-10

	20	200 10 Individual		2000 10 Crown
Age	Male	009-10 Individual Female	Male	2009-10 Group Female
0	1.88	1.34	2.55	2.18
1	1.49	1.08	1.70	1.45
2	1.17	0.85	1.07	0.91
3	0.90	0.67	0.65	0.55
4	0.69	0.52	0.42	0.34
5	0.54	0.41	0.31	0.25
6	0.43	0.34	0.29	0.23
7	0.37	0.29	0.31	0.25
8	0.33	0.27	0.34	0.27
9	0.33	0.28	0.37	0.30
10	0.35	0.30	0.39	0.32
11	0.38	0.33	0.41	0.35
12	0.42	0.37	0.44	0.38
13	0.46	0.41	0.46	0.41
14	0.50	0.46	0.49	0.45
15	0.54	0.51	0.51	0.50
16	0.57	0.55	0.53	0.53
17	0.59	0.59	0.53	0.56
18	0.60	0.62	0.51	0.58
19	0.60	0.64	0.48	0.59
20	0.60	0.67	0.44	0.60
21	0.59	0.69	0.41	0.61
22	0.58	0.70	0.39	0.64
23	0.57	0.72	0.38	0.68
24	0.56	0.75	0.38	0.73
25	0.56	0.77	0.38	0.80
26	0.56	0.80	0.39	0.87
27	0.56	0.84	0.41	0.94
28	0.57	0.87	0.43	1.01
29	0.58	0.91	0.45	1.07
30	0.59	0.95	0.47	1.12
31	0.60	0.98	0.49	1.15
32	0.61	1.01	0.52	1.18
33	0.63	1.03	0.54	1.20
34	0.64	1.05	0.56	1.20
35	0.66	1.06	0.58	1.20
36	0.68	1.07	0.61	1.20
37	0.70	1.08	0.64	1.19
38	0.72	1.09	0.67	1.19
39	0.75	1.10	0.70	1.19
40	0.77	1.11	0.73	1.19
41	0.81	1.13	0.77	1.20
42	0.84	1.14	0.80	1.21
43	0.88	1.17	0.84	1.22
44	0.92	1.19	0.87	1.24
45	0.96	1.23	0.91	1.26
46 47	1.01 1.06	1.26 1.30	0.96 1.01	1.29 1.33
48	1.11	1.34	1.06	1.38
48	1.11	1.34	1.06	1.43
50	1.17	1.43	1.12	1.48
51	1.29	1.43	1.19	1.53
52	1.36	1.48	1.34	1.58
53	1.44	1.57	1.41	1.63
54	1.52	1.61	1.49	1.68
55	1.60	1.66	1.57	1.72
56	1.68	1.71	1.66	1.72
57	1.77	1.76	1.74	1.82
58	1.85	1.81	1.83	1.88
59	1.94	1.86	1.93	1.94
60	2.02	1.92	2.02	2.01
61	2.10	1.97	2.12	2.01
62	2.18	2.03	2.23	2.18
63	2.26	2.08	2.34	2.27
64	2.34	2.13	2.46	2.37
U- 1	2. ⊤	2.13	2.70	2.37

Chart 3: HMO versus PPO/POS Costs by Age for 2009-10

Λαο	2009-10 Male		2009-10 P Male	•
Age		Female		Female
0	1.70	1.49 1.13	2.56 1.72	2.18
2	1.30			1.46
3	0.98 0.72	0.84 0.61	1.09 0.67	0.92 0.56
4	0.54	0.45	0.42	0.35
5	0.42	0.33	0.31	0.25
6	0.35	0.27	0.29	0.23
7	0.32	0.24	0.30	0.24
8	0.32	0.24	0.33	0.27
9	0.34	0.26	0.37	0.30
10	0.37	0.29	0.39	0.32
11	0.40	0.33	0.42	0.35
12	0.44	0.38	0.44	0.38
13	0.48	0.42	0.47	0.41
14	0.51	0.46	0.49	0.45
15	0.53	0.50	0.51	0.50
16	0.54	0.54	0.52	0.53
17	0.54	0.58	0.52	0.56
18	0.54	0.62	0.50	0.57
19	0.52	0.65	0.47	0.58
20	0.51	0.69	0.44	0.58
21	0.49	0.73	0.41	0.60
22	0.47	0.77	0.38	0.62
23	0.45	0.82	0.37	0.66
24	0.44	0.88	0.37	0.71
25	0.44	0.94	0.37	0.78
26	0.44	1.00	0.39	0.85
27	0.44	1.06	0.40	0.92
28	0.45	1.12	0.42	0.99
29	0.46	1.17	0.45	1.05
30	0.48	1.21	0.47	1.10
31	0.49	1.24	0.49	1.14
32	0.51	1.25	0.51	1.17
33	0.53	1.26	0.54	1.19
34	0.55	1.25	0.56	1.20
35	0.57	1.24	0.59	1.20
36	0.60	1.23	0.61	1.20
37	0.62	1.21	0.64	1.19
38	0.65	1.19	0.67	1.19
39	0.68	1.17	0.70	1.19
40	0.72	1.16	0.74	1.20
41	0.75	1.15	0.77	1.21
42	0.79	1.15	0.80	1.22
43 44	0.83 0.86	1.16 1.17	0.84 0.88	1.23 1.25
45	0.86	1.17	0.88	1.28
46	0.95	1.23	0.92	1.31
47	1.00	1.27	1.01	1.34
48	1.05	1.31	1.07	1.39
49	1.11	1.36	1.13	1.44
50	1.17	1.41	1.20	1.49
51	1.24	1.46	1.27	1.54
52	1.32	1.51	1.34	1.59
53	1.40	1.56	1.41	1.64
54	1.48	1.61	1.49	1.69
55	1.56	1.66	1.57	1.74
56	1.65	1.71	1.66	1.78
57	1.75	1.76	1.74	1.83
58	1.85	1.82	1.83	1.89
59	1.95	1.89	1.92	1.95
60	2.06	1.96	2.02	2.02
61	2.17	2.05	2.11	2.10
62	2.28	2.14	2.22	2.18
63	2.40	2.24	2.33	2.28
64	3.52	3.28	3.33	3.22

Chart 4: Subscriber versus Dependent Costs by Age for 2009-10

	Subs	criber	Depen	dent
Age	Male	Female	Male	Female
0			2.78	2.37
1			1.86	1.58
2			1.17	0.99
3			0.71	0.60
4			0.45	0.37
5			0.34	0.28
6			0.32	0.25
7			0.34	0.27
8			0.37	0.30
9			0.40	0.33
10			0.43	0.35
11			0.45	0.38
12			0.47	0.41
13			0.50	0.45
14			0.53	0.49
15			0.56	0.54
16			0.58	0.59
17			0.58	0.63
18	0.20	0.21	0.57	0.65
19	0.21	0.27	0.55	0.68
20	0.23	0.35	0.53	0.70
21	0.26	0.44	0.52	0.73
22	0.29	0.54	0.51	0.78
23	0.33	0.63	0.51	0.86
24	0.36	0.71	0.52	0.95
25	0.39	0.79	0.54	1.05
26	0.41	0.87	0.56	1.15
27	0.43	0.94	0.59	1.24
28	0.45	1.00	0.61	1.32
29	0.47	1.06	0.63	1.37
30	0.49	1.12	0.66	1.41
31	0.51	1.16	0.68	1.42
32	0.54	1.20	0.69	1.42
33	0.56	1.23	0.71	1.41
34	0.58	1.26	0.73	1.39
35	0.61	1.27	0.75	1.36
36	0.64	1.28	0.78	1.34
37	0.67	1.28	0.80	1.32
38	0.70	1.29	0.84	1.31
39	0.74	1.29	0.87	1.30
40	0.77	1.30	0.91	1.30
41	0.81	1.31	0.95	1.30
42	0.84	1.32	0.99	1.31
43	0.88	1.33	1.04	1.32
44	0.92	1.35	1.09	1.35
45	0.96	1.37	1.14	1.38
46 47	1.00	1.40	1.20 1.26	1.42
	1.06	1.43		1.47
48 49	1.11	1.48	1.33	1.53
	1.18	1.52	1.40	1.59
50	1.25	1.57	1.49	1.66
51 52	1.32	1.62	1.57	1.72
52 52	1.40	1.67	1.66	1.79
53 54	1.47 1.56	1.72 1.76	1.76	1.86 1.92
			1.85	
55 56	1.64 1.73	1.81 1.85	1.95	1.99 2.05
57			2.05	
58	1.82 1.92	1.91 1.97	2.15 2.26	2.11 2.18
58 59	2.01	2.04	2.36	2.18
60	2.01		2.36	
61	2.12	2.12 2.20	2.48	2.34 2.43
62	2.23	2.29	2.72	2.53
63	2.34	2.39	2.72	2.53
64	2.43	2.49	2.98	2.76
U 4	2.30	۷.45	2.30	2.70

Chart 5: Unisex Cost Curve by Age for 2010

Age	Male	Female	Unisex	CMS Proposed Unisex
0	2.86	2.44	2.65	0.48
1	1.81	1.54	1.68	0.48
2	1.06	0.90	0.98	0.48
3	0.60	0.51	0.56	0.48
4	0.38	0.31	0.34	0.48
5	0.31	0.25	0.28	0.48
6	0.31	0.25	0.28	0.48
7	0.35	0.28	0.31	0.48
8	0.37	0.30	0.34	0.48
9	0.38	0.31	0.35	0.48
10	0.39	0.32	0.36	0.48
11	0.40	0.34	0.37	0.48
12	0.42	0.36	0.39	0.48
13	0.45	0.40	0.43	0.48
14	0.49	0.45	0.47	0.48
15	0.52	0.50	0.51	0.48
16	0.54	0.55	0.54	0.48
17	0.54	0.58	0.56	0.48
18	0.52	0.59	0.55	0.48
19	0.48	0.59	0.53	0.48
20	0.44	0.58	0.51	0.48
21	0.40	0.59	0.50	0.75
22	0.38	0.61	0.50	0.75
23	0.37	0.65	0.51	0.75
24	0.37	0.71	0.54	0.75
25	0.38	0.78	0.59	0.75
26	0.39	0.85	0.63	0.77
27	0.41	0.92	0.68	0.78
28	0.42	0.99	0.72	0.81
29	0.45	1.05	0.76	0.84
30	0.47	1.11	0.80	0.85
31	0.49	1.15	0.83	0.87
32	0.51	1.18	0.86	0.89
33	0.54	1.19	0.88	0.90
34	0.56	1.20	0.89	0.91
35	0.59	1.20	0.91	0.91
36	0.61	1.20	0.92	0.92
37	0.64	1.20	0.93	0.93
38	0.67	1.20	0.94	0.93
39	0.71	1.20	0.96	0.94
40	0.74	1.21	0.98	0.96
41	0.77	1.22	1.00	0.97
42	0.80	1.23	1.02	0.99
43	0.84	1.24	1.05	1.02
44	0.88	1.26	1.07	1.05
45	0.92	1.28	1.10	1.08
46	0.96	1.31	1.14	1.12
47	1.01	1.34	1.18	1.17
48	1.06	1.38	1.23	1.22
49	1.13	1.43	1.29	1.28
50	1.20	1.49	1.35	1.34
51	1.27	1.54	1.41	1.40
52	1.34	1.59	1.47	1.46
53	1.41	1.64	1.53	1.53
54	1.49	1.69	1.59	1.60
55	1.57	1.73	1.66	1.67
56	1.66	1.78	1.72	1.75
57	1.74	1.83	1.79	1.82
58	1.84	1.89	1.86	1.91
59	1.93	1.95	1.94	1.95
60	2.02	2.02	2.02	2.03
61	2.12	2.10	2.11	2.10
62	2.23	2.18	2.21	2.15
63	2.35	2.27	2.31	2.21
64	2.47	2.37	2.42	2.24

Chart 6: Inpatient Facility Costs by Age and Experience Year

	2002-0)3	2004-0)5	2006-0)7	2008-0)9	201	<u> </u>
Age	Male	Female								
0	7.16	5.92	6.80	6.26	7.47	6.42	7.68	6.42	7.53	6.41
1	4.00	3.34	3.73	3.42	4.06	3.50	4.08	3.42	4.25	3.63
2	1.81	1.53	1.64	1.48	1.73	1.51	1.68	1.41	1.96	1.69
3	0.33	0.26	0.36	0.30	0.30	0.27	0.36	0.29	0.41	0.31
4	0.23	0.25	0.24	0.23	0.24	0.25	0.28	0.27	0.27	0.27
5	0.20	0.19	0.20	0.19	0.22	0.21	0.26	0.22	0.23	0.24
6	0.23	0.17	0.19	0.16	0.20	0.19	0.24	0.19	0.25	0.23
7	0.19	0.16	0.18	0.14	0.21	0.16	0.21	0.20	0.22	0.19
8	0.19	0.14	0.21	0.19	0.25	0.20	0.28	0.24	0.25	0.21
9 10	0.25 0.27	0.20 0.22	0.26 0.27	0.24 0.25	0.27 0.26	0.23 0.22	0.28 0.26	0.25 0.23	0.30 0.30	0.25 0.26
11	0.26	0.22	0.27	0.25	0.26	0.22	0.25	0.23	0.30	0.26
12	0.25	0.23	0.24	0.25	0.24	0.22	0.26	0.22	0.29	0.27
13	0.26	0.25	0.25	0.26	0.26	0.27	0.29	0.27	0.30	0.30
14	0.29	0.28	0.28	0.29	0.30	0.32	0.33	0.33	0.34	0.35
15	0.32	0.33	0.32	0.33	0.35	0.38	0.38	0.38	0.38	0.39
16	0.36	0.37	0.36	0.37	0.39	0.42	0.42	0.43	0.42	0.44
17	0.39	0.41	0.39	0.40	0.42	0.45	0.43	0.45	0.44	0.46
18	0.40	0.44	0.40	0.43	0.43	0.47	0.43	0.46	0.44	0.48
19	0.39	0.47	0.40	0.46	0.42	0.47	0.41	0.46	0.42	0.48
20	0.37	0.52	0.39	0.49	0.41	0.48	0.39	0.46	0.39	0.48
21	0.35	0.57	0.38	0.53	0.39	0.51	0.37	0.49	0.36	0.50
22	0.33	0.63	0.36	0.59	0.38	0.56	0.36	0.54	0.34	0.54
23	0.32	0.71	0.35	0.67	0.37	0.63	0.35	0.61	0.32	0.60
24	0.31	0.80	0.34	0.76	0.36	0.71	0.34	0.70	0.32	0.69
25	0.31	0.89	0.34	0.86	0.36	0.81	0.33	0.80	0.32	0.80
26	0.31	0.98	0.34	0.96	0.36	0.91	0.33	0.90	0.33	0.91
27	0.32	1.07	0.34	1.05	0.36	1.00	0.33	1.01	0.33	1.02
28	0.33	1.15 1.21	0.34	1.13	0.36	1.09	0.34	1.11 1.19	0.34	1.12
29 30	0.35 0.36	1.21	0.35 0.36	1.20 1.24	0.36 0.37	1.16 1.22	0.36 0.38	1.19	0.35 0.36	1.21 1.28
31	0.38	1.29	0.30	1.27	0.37	1.25	0.40	1.29	0.37	1.33
32	0.40	1.29	0.39	1.28	0.40	1.26	0.41	1.31	0.37	1.34
33	0.41	1.28	0.41	1.26	0.42	1.25	0.42	1.29	0.41	1.33
34	0.44	1.25	0.44	1.23	0.45	1.22	0.43	1.26	0.43	1.30
35	0.46	1.20	0.46	1.17	0.48	1.17	0.45	1.21	0.45	1.25
36	0.50	1.14	0.49	1.11	0.50	1.12	0.48	1.16	0.48	1.19
37	0.53	1.08	0.53	1.05	0.53	1.06	0.52	1.10	0.51	1.13
38	0.57	1.02	0.56	0.99	0.56	1.00	0.55	1.05	0.54	1.07
39	0.60	0.98	0.59	0.95	0.59	0.96	0.59	1.00	0.57	1.01
40	0.63	0.95	0.63	0.91	0.63	0.92	0.62	0.96	0.61	0.96
41	0.67	0.94	0.67	0.89	0.67	0.90	0.65	0.93	0.64	0.93
42	0.70	0.93	0.72	0.88	0.71	0.89	0.69	0.92	0.69	0.92
43	0.75	0.94	0.77	0.88	0.76	0.90	0.74	0.92	0.73	0.92
44	0.80	0.95	0.82	0.90	0.82	0.92	0.80	0.94	0.78	0.93
45 46	0.86 0.92	0.97 1.01	0.88 0.95	0.93 0.97	0.87 0.93	0.94 0.98	0.87 0.94	0.96 1.00	0.84 0.90	0.96 0.99
46	1.00	1.01	1.03	1.02	1.00	1.02	1.01	1.00	0.90	1.03
47	1.08	1.10	1.03	1.02	1.00	1.02	1.01	1.04	1.03	1.03
49	1.18	1.15	1.24	1.14	1.17	1.13	1.18	1.13	1.11	1.12
50	1.29	1.21	1.35	1.20	1.27	1.19	1.27	1.18	1.21	1.18
51	1.41	1.26	1.46	1.26	1.38	1.25	1.38	1.24	1.31	1.23
52	1.53	1.32	1.56	1.31	1.49	1.31	1.49	1.31	1.41	1.30
53	1.65	1.38	1.67	1.36	1.61	1.37	1.61	1.38	1.53	1.36
54	1.77	1.44	1.78	1.41	1.73	1.43	1.73	1.45	1.66	1.43
55	1.89	1.51	1.90	1.47	1.85	1.50	1.85	1.52	1.80	1.50
56	2.02	1.60	2.03	1.56	1.98	1.57	1.98	1.59	1.94	1.58
57	2.15	1.69	2.18	1.66	2.13	1.66	2.11	1.67	2.08	1.66
58	2.29	1.79	2.34	1.77	2.28	1.77	2.24	1.76	2.22	1.75
59	2.44	1.90	2.51	1.89	2.45	1.89	2.38	1.87	2.36	1.86
60	2.60	2.02	2.68	2.01	2.63	2.01	2.53	1.99	2.51	1.97
61	2.78	2.13	2.86	2.14	2.82	2.15	2.69	2.13	2.66	2.10
62 63	2.95 3.12	2.23 2.33	3.03 3.20	2.29 2.45	3.00 3.18	2.30 2.46	2.85 3.02	2.28 2.45	2.83 3.02	2.24 2.38
64	3.12	2.33	3.35	2.45	3.36	2.46	3.02	2.45	3.02	2.58
04	3.40	4.43	3.33	4.05	3.30	2.04	3.20	4.05	3.23	2.33

Chart 7: Outpatient Facility Costs by Age and Experience Year

	2002-0	03	2004-0)5	2006-0	07	2008-0)9	2010	<u> </u>
Age	Male	Female								
0	0.94	0.71	0.86	0.64	0.86	0.64	0.85	0.62	0.86	0.61
1	0.83	0.63	0.78	0.59	0.78	0.58	0.77	0.57	0.77	0.56
2	0.73	0.56	0.70	0.53	0.69	0.53	0.69	0.52	0.68	0.51
3	0.63	0.49	0.62	0.47	0.61	0.47	0.61	0.46	0.60	0.46
4	0.55	0.43	0.54	0.42	0.54	0.42	0.54	0.42	0.53	0.42
5	0.49	0.38	0.48	0.38	0.47	0.37	0.48	0.37	0.47	0.38
6	0.43	0.35	0.42	0.34	0.42	0.34	0.43	0.34	0.42	0.34
7	0.39	0.32	0.37	0.31	0.38	0.31	0.39	0.32	0.38	0.32
8	0.35	0.30	0.34	0.29	0.35	0.29	0.35	0.30	0.35	0.29
9	0.33	0.28	0.32	0.28	0.33	0.27	0.33	0.28	0.33	0.28
10	0.32	0.27	0.31	0.27	0.32	0.27	0.33	0.28	0.33	0.28
11	0.33	0.28	0.32	0.28	0.33	0.28	0.34	0.29	0.34	0.29
12	0.35	0.30	0.34	0.30	0.35	0.30	0.36	0.31	0.36	0.32
13	0.39	0.34	0.37	0.33	0.38	0.34	0.39	0.36	0.40	0.38
14	0.43	0.40	0.41	0.39	0.43	0.40	0.44	0.42	0.45	0.44
15	0.46	0.46	0.46	0.45	0.48	0.47	0.49	0.49	0.50	0.51
16	0.49	0.52	0.49	0.51	0.52	0.53	0.53	0.56	0.54	0.57
17	0.50	0.57	0.51	0.56	0.54	0.58	0.55	0.60	0.55	0.61
18	0.50	0.60	0.52	0.61	0.53	0.61	0.54	0.62	0.55	0.62
19	0.49	0.63	0.50	0.64	0.51	0.62	0.51	0.61	0.53	0.62
20	0.47	0.66	0.49	0.66	0.49	0.63	0.48	0.60	0.50	0.61
21	0.45	0.69	0.47	0.68	0.46	0.63	0.45	0.60	0.47	0.61
22	0.45	0.72	0.46	0.71	0.45	0.65	0.43	0.62	0.45	0.62
23	0.45	0.76	0.45	0.74	0.44	0.68	0.43	0.65	0.44	0.64
24	0.47	0.81	0.46	0.78	0.44	0.71	0.43	0.69	0.43	0.68
25	0.48	0.86	0.47	0.83	0.44	0.76	0.44	0.73	0.44	0.72
26	0.50	0.90	0.49	0.87	0.46	0.80	0.45	0.78	0.44	0.77
27	0.53	0.94	0.51	0.91	0.47	0.85	0.47	0.83	0.46	0.82
28	0.55	0.98	0.52	0.95	0.49	0.89	0.49	0.87	0.48	0.87
29	0.57	1.01	0.54	0.98	0.51	0.93	0.51	0.92	0.50	0.92
30	0.58	1.03	0.56	1.01	0.53	0.97	0.53	0.96	0.52	0.96
31	0.60	1.05	0.58	1.04	0.56	1.01	0.55	1.00	0.55	1.01
32	0.62	1.07	0.60	1.06	0.58	1.04	0.57	1.04	0.57	1.04
33	0.64	1.09	0.62	1.08	0.60	1.07	0.59	1.07	0.59	1.08
34	0.65	1.10	0.64	1.10	0.62	1.09	0.61	1.10	0.61	1.11
35	0.67	1.12	0.66	1.11	0.65	1.12	0.64	1.13	0.64	1.14
36 37	0.70 0.72	1.13 1.14	0.69 0.71	1.13 1.14	0.68 0.70	1.14 1.16	0.67 0.69	1.15 1.18	0.66 0.69	1.17 1.20
	0.72		0.71	1.14	0.70	1.16		1.18	0.69	1.23
38 39	0.78	1.16 1.18	0.74	1.19	0.75	1.19	0.72 0.75	1.21	0.72	1.23
40	0.80	1.10	0.70	1.13	0.73	1.25	0.73	1.24	0.73	1.31
41	0.83	1.22	0.79	1.24	0.78	1.23	0.78	1.28	0.77	1.34
42	0.85	1.24	0.85	1.27	0.84	1.31	0.83	1.34	0.83	1.37
43	0.88	1.27	0.88	1.29	0.87	1.34	0.86	1.37	0.85	1.40
43	0.92	1.27	0.88	1.29	0.87	1.34	0.89	1.39	0.88	1.40
45	0.96	1.33	0.91	1.35	0.93	1.39	0.89	1.42	0.88	1.42
46	1.00	1.37	0.98	1.39	0.96	1.42	0.96	1.45	0.96	1.44
47	1.05	1.42	1.02	1.44	1.01	1.46	1.01	1.49	1.01	1.50
48	1.11	1.48	1.08	1.49	1.07	1.51	1.07	1.54	1.07	1.54
49	1.17	1.54	1.16	1.55	1.14	1.57	1.14	1.60	1.14	1.59
50	1.24	1.59	1.24	1.61	1.22	1.64	1.22	1.66	1.21	1.65
51	1.30	1.64	1.32	1.66	1.29	1.70	1.29	1.71	1.28	1.70
52	1.37	1.68	1.39	1.70	1.37	1.74	1.36	1.75	1.34	1.74
53	1.43	1.71	1.46	1.74	1.43	1.77	1.42	1.78	1.40	1.77
54	1.50	1.74	1.52	1.77	1.50	1.79	1.48	1.80	1.46	1.80
55	1.57	1.77	1.59	1.80	1.56	1.82	1.55	1.82	1.53	1.82
56	1.64	1.80	1.67	1.83	1.64	1.86	1.62	1.85	1.60	1.85
57	1.72	1.85	1.75	1.86	1.71	1.90	1.70	1.88	1.68	1.88
58	1.80	1.90	1.83	1.90	1.80	1.94	1.79	1.93	1.77	1.92
59	1.89	1.96	1.90	1.95	1.89	2.00	1.88	1.98	1.86	1.96
60	1.97	2.01	1.98	1.99	1.98	2.06	1.97	2.04	1.96	2.02
61	2.05	2.07	2.07	2.05	2.08	2.12	2.06	2.11	2.05	2.02
62	2.12	2.12	2.16	2.11	2.18	2.19	2.15	2.18	2.14	2.14
63	2.18	2.17	2.27	2.19	2.27	2.28	2.24	2.24	2.23	2.21
64	2.24	2.21	2.39	2.29	2.36	2.37	2.34	2.30	2.31	2.28
	۷.۲4	۲.۲٦	د.ي	د.دع	2.30	2.31	4.54	2.50	2.31	2.20

Chart 8: Professional Costs by Age and Experience Years

Male Femule Male Femule Male Femule Male Femule Color		2002-0	03	2004-0)5	2006-0)7	2008-0)9	2010	<u> </u>
0 2.89 2.48 2.75 2.42 2.79 2.42 2.88 2.52 2.85 2.51 1 191 164 182 159 183 158 1.85 1.62 1.90 1.67 2 1.20 1.04 1.15 0.99 1.13 0.98 1.12 0.98 1.12 1.00 3 1.21 1.00 3 1.21 1.00 3 1.21 1.00 3 1.21 1.00 3 1.21 1.00 1.67 2 1.20 1.04 1.25 0.99 1.13 0.98 1.12 0.98 1.12 1.00 1.67 2 1.00 1.00 0.70 0.60 0.69 0.79 0.77 0.66 4 0.49 0.42 0.50 0.49 0.42 0.55 0.45 0.45 0.45 0.45 0.45 0.45 0.45	Age										
1		2.89	2.48	2.75	2.42	2.79	2.42	2.88	2.52	2.85	2.51
3	1	1.91	1.64	1.82	1.59	1.83	1.58	1.85	1.62	1.90	1.67
4 0.49 0.42 0.49 0.40 0.40 0.49 0.42 0.50 0.42 0.54 0.57 0.42 0.56 6 0.36 0.33 0.43 0.38 0.31 0.41 0.34 0.45 0.37 0.43 0.38 0.31 0.38 0.31 0.41 0.34 0.45 0.37 0.43 0.38 0.38 0.30 0.32 0.39 0.32 0.42 0.35 0.45 0.38 0.48 0.38 0.44 0.38 0.40 0.33 0.42 0.36 0.45 0.38 0.44 0.38 0.44 0.39 0.40 0.34 0.40 0.34 0.42 0.36 0.45 0.38 0.44 0.38 0.44 0.39 0.40 0.34 0.40 0.34 0.41 0.36 0.44 0.39 0.45 0.40 0.31 0.40 0.35 0.42 0.37 0.44 0.39 0.45 0.40 0.31 0.40 0.35 0.42 0.37 0.44 0.39 0.45 0.40 0.34 0.41 0.36 0.44 0.39 0.45 0.42 0.36 0.42 0.37 0.44 0.40 0.40 0.43 0.41 0.42 0.36 0.44 0.39 0.45 0.42 0.37 0.44 0.40 0.40 0.43 0.41 0.42 0.36 0.44 0.39 0.45 0.42 0.37 0.44 0.40 0.45 0.42 0.39 0.45 0.43 0.47 0.47 0.44 0.49 0.49 0.48 0.49 0.45 0.43 0.47 0.47 0.44 0.49 0.48 0.49 0.48 0.55 0.55 0.51 0.52 0.53 0.54 0.53 0.64 0.53 0.64 0.53 0.64 0.55 0.59 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.64 0.53 0.64 0.53 0.62 0.43 0.49 0.49 0.48 0.49 0.49 0.48 0.59 0.55 0.59 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.56	2	1.20	1.04		0.99	1.13	0.98	1.12	0.98		1.06
S	3	0.74	0.64	0.72	0.60	0.70	0.60	0.69	0.59	0.77	0.66
6 0.36 0.31 0.38 0.31 0.41 0.41 0.45 0.45 0.37 0.43 0.35 6.8 0.39 0.32 0.39 0.32 0.42 0.45 0.35 0.45 0.38 0.44 0.37 8 0.39 0.33 0.40 0.33 0.42 0.36 0.44 0.38 0.44 0.37 9 0.40 0.34 0.40 0.34 0.42 0.36 0.44 0.38 0.44 0.38 10 0.41 0.35 0.40 0.34 0.41 0.36 0.44 0.39 0.45 0.40 11 0.42 0.36 0.40 0.35 0.42 0.37 0.44 0.40 0.34 0.41 12 0.43 0.45 0.40 0.45 0.42 12 0.43 0.38 0.42 0.36 0.43 0.43 0.45 0.40 0.45 0.42 12 0.43 0.38 0.42 0.36 0.43 0.47 0.47 0.44 0.40 0.40 0.44 0.39 0.45 0.49 0.48 11 0.47 0.44 0.40 0.44 0.39 0.45 0.49 0.48 11 0.47 0.44 0.40 0.44 0.39 0.45 0.43 0.47 0.47 0.44 0.40 0.46 0.43 0.48 0.48 0.50 0.52 0.51 0.52 0.51 15 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.52 0.53 0.55 0.50 0.56 0.51 0.62 0.53 0.65 0.51 0.62 0.53 0.65 0.64 0.59 0.48 0.59 0.49 0.63 0.50 0.64 0.53 0.65 0.62 0.53 0.65 0.62 0.53 0.65 0.62 0.53 0.64 0.65 0.62 0.53 0.65 0.62 0.53 0.65 0.62 0.53 0.65 0.62 0.63 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	4	0.49	0.42	0.49	0.40	0.49	0.42	0.50	0.42	0.54	0.45
7 0.38 0.32 0.39 0.32 0.42 0.35 0.45 0.38 0.43 0.32 9 0.40 0.34 0.40 0.34 0.42 0.36 0.45 0.38 0.44 0.38 10 0.41 0.35 0.40 0.34 0.42 0.36 0.44 0.38 0.44 0.38 11 0.42 0.36 0.40 0.35 0.42 0.37 0.44 0.40 0.45 0.42 12 0.43 0.38 0.42 0.36 0.43 0.39 0.45 0.43 0.47 0.44 13 0.45 0.40 0.44 0.46 0.33 0.48 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.50 0.52 0.52 0.52 0.52 0.53 0.62 </td <td>5</td> <td>0.39</td> <td>0.33</td> <td>0.40</td> <td>0.32</td> <td>0.42</td> <td>0.35</td> <td>0.45</td> <td>0.37</td> <td>0.44</td> <td>0.37</td>	5	0.39	0.33	0.40	0.32	0.42	0.35	0.45	0.37	0.44	0.37
8 0.39 0.34 0.40 0.34 0.42 0.36 0.44 0.38 0.44 0.37 0.40 10.04 0.34 0.40 0.34 0.41 0.36 0.44 0.38 0.44 0.38 10 0.41 0.35 0.40 0.34 0.41 0.36 0.44 0.39 0.45 0.40 0.45 0.42 12 0.43 0.38 0.42 0.36 0.43 0.37 0.44 0.40 0.35 0.45 0.40 0.45 0.42 12 0.43 0.38 0.42 0.36 0.43 0.39 0.45 0.43 0.47 0.47 0.44 13 0.47 0.44 0.49 0.44 0.39 0.45 0.43 0.47 0.47 0.44 0.49 0.48 14 0.47 0.44 0.49 0.48 0.49 0.48 0.51 0.54 0.53 0.52 0.51 0.52 15 0.49 0.48 0.49 0.48 0.51 0.54 0.53 0.57 0.53 0.55 16 0.49 0.48 0.49 0.48 0.51 0.54 0.53 0.57 0.53 0.55 16 0.49 0.48 0.56 0.50 0.52 0.50 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.50 0.50 0.52 0.50 0.52 0.50 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.50 0.50 0.55 0.55 0.55 0.55 0.55	6	0.36	0.31	0.38	0.31	0.41	0.34	0.45	0.37	0.43	0.35
9 0.40 0.34 0.40 0.34 0.42 0.42 0.36 0.44 0.38 0.44 0.38 0.45 0.40 111 0.42 0.36 0.40 0.35 0.42 0.35 0.42 0.37 0.44 0.40 0.45 0.40 111 0.42 0.36 0.40 0.35 0.42 0.36 0.43 0.39 0.45 0.43 0.47 0.44 113 0.45 0.40 0.44 0.40 0.45 0.40 0.45 113 0.45 0.40 0.44 0.39 0.45 0.43 0.47 0.44 113 0.45 0.40 0.44 0.46 0.43 0.48 0.50 0.52 0.51 0.52 115 0.49 0.48 0.49 0.48 0.49 0.48 0.51 0.54 0.53 0.57 0.53 0.56 116 0.49 0.52 0.50 0.52 0.52 0.52 0.58 0.54 0.61 0.54 0.60 117 0.48 0.56 0.50 0.52 0.52 0.52 0.58 0.54 0.61 0.53 0.56 0.51 0.52 0.52 0.58 0.54 0.61 0.53 0.56 0.51 0.52 0.52 0.52 0.53 0.54 0.61 0.53 0.52 0.52 0.52 0.53 0.54 0.61 0.53 0.52 0.52 0.53 0.54 0.61 0.53 0.52 0.52 0.53 0.54 0.61 0.59 0.49 0.48 0.59 0.49 0.63 0.50 0.54 0.60 0.53 0.62 0.51 0.52 0.59 0.52 0.52 0.53 0.54 0.61 0.53 0.62 0.53 0.64 0.53 0.62 0.53 0.64 0.53 0.62 0.45 0.62 0.45 0.63 0.45 0.62 0.46 0.61 0.45 0.62 0.45 0.63 0.45 0.62 0.46 0.61 0.45 0.62 0.45 0.63 0.45 0.62 0.46 0.61 0.45 0.62 0.45 0.63 0.45 0.62 0.46 0.61 0.45 0.62 0.45 0.63 0.45 0.62 0.46 0.61 0.45 0.62 0.45 0.63 0.45 0.60 0.53 0.66 0.53 0.66 0.53 0.66 0.53 0.65 0.53 0.66 0.53 0.65 0.53 0.66 0.53 0.65 0.53 0.66 0.55 0.64 0.61 0.61 0.61 0.65 0.62 0.45 0.44 0.41 0.63 0.40 0.61 0.45 0.62 0.45 0.40 0.69 0.35 0.66 0.53 0.65 0.37 0.62 0.38 0.61 0.50 0.52 0.52 0.52 0.52 0.52 0.52 0.52	7	0.38	0.32	0.39	0.32	0.42	0.35	0.45	0.38	0.43	0.36
10	8	0.39	0.33	0.40	0.33	0.42		0.45	0.38		0.37
111 0.42 0.36 0.40 0.35 0.42 0.37 0.44 0.40 0.45 0.42 12 0.43 0.38 0.42 0.36 0.43 0.39 0.45 0.43 0.47 0.44 0.46 133 0.45 0.43 0.47 0.47 0.49 0.48 14 0.47 0.44 0.46 0.43 0.48 0.48 0.50 0.52 0.51 0.52 15 0.49 0.48 0.49 0.48 0.51 0.54 0.53 0.57 0.53 0.55 16 0.49 0.48 0.55 0.50 0.52 0.52 0.52 0.58 0.54 0.61 0.54 0.50 17 0.48 0.56 0.59 0.56 0.51 0.62 0.58 0.54 0.61 0.54 0.50 0.62 0.61 19 0.43 0.61 0.45 0.62 0.45 0.69 0.48 0.59 0.49 0.62 0.51 0.62 0.53 0.64 0.53 0.62 0.61 0.54 0.59 0.48 0.69 0.49 0.63 0.50 0.50 0.50 0.50 0.52 0.52 0.52 0.58 0.50 0.50 0.54 0.61 0.54 0.50 0.62 0.45 0.60 0.50 0.64 0.53 0.62 0.61 0.62 0.45 0.62 0.46 0.61 0.42 0.61 0.45 0.62 0.45 0.63 0.45 0.62 0.46 0.61 0.42 0.61 0.42 0.64 0.41 0.63 0.40 0.61 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42	9	0.40	0.34	0.40	0.34	0.42	0.36	0.44	0.38	0.44	0.38
12	10										0.40
13	11				0.35	0.42		0.44	0.40		0.42
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60 1.64 1.83 1.68 1.88 1.71 1.92 1.66 1.87 1.65 1.85 61 1.70 1.86 1.76 1.93 1.80 1.98 1.74 1.93 1.73 1.90 62 1.76 1.89 1.84 1.98 1.88 2.03 1.82 2.00 1.81 1.96 63 1.81 1.92 1.92 2.03 1.97 2.09 1.92 2.07 1.90 2.03											1.80
61 1.70 1.86 1.76 1.93 1.80 1.98 1.74 1.93 1.73 1.90 62 1.76 1.89 1.84 1.98 1.88 2.03 1.82 2.00 1.81 1.96 63 1.81 1.92 1.92 2.03 1.97 2.09 1.92 2.07 1.90 2.03											1.85
62 1.76 1.89 1.84 1.98 1.88 2.03 1.82 2.00 1.81 1.96 63 1.81 1.92 1.92 2.03 1.97 2.09 1.92 2.07 1.90 2.03											1.90
63 1.81 1.92 1.92 2.03 1.97 2.09 1.92 2.07 1.90 2.03											1.96
											2.03
64 1.85 1.94 2.01 2.08 2.06 2.15 2.02 2.13 2.00 2.10	64	1.85	1.94	2.01	2.08	2.06	2.15	2.02	2.13	2.00	2.10

Chart 9: Pharmacy Costs by Age and Experience Years

	2002-0	13	2004-0)5	2006-0	17	2008-0	19	2010	<u> </u>
Age	Male	Female								
0	0.26	0.19	0.25	0.18	0.26	0.20	0.28	0.21	0.26	0.20
1	0.27	0.21	0.27	0.21	0.28	0.21	0.27	0.21	0.25	0.20
2	0.27	0.22	0.28	0.22	0.29	0.22	0.26	0.21	0.25	0.19
3	0.28	0.22	0.29	0.23	0.30	0.23	0.26	0.21	0.25	0.20
4	0.28	0.22	0.29	0.23	0.31	0.24	0.27	0.21	0.26	0.20
5	0.29	0.23	0.30	0.23	0.32	0.25	0.29	0.22	0.29	0.21
6	0.30	0.23	0.32	0.24	0.34	0.25	0.32	0.23	0.32	0.22
7	0.31	0.23	0.33	0.24	0.37	0.26	0.35	0.24	0.35	0.24
8	0.33	0.24	0.35	0.25	0.39	0.27	0.38	0.26	0.39	0.25
9	0.35	0.24	0.38	0.25	0.41	0.28	0.41	0.27	0.42	0.27
10	0.37	0.25	0.40	0.26	0.43	0.28	0.44	0.28	0.46	0.29
11	0.39	0.27	0.43	0.28	0.46	0.30	0.46	0.30	0.49	0.31
12	0.43	0.29	0.47	0.31	0.49	0.31	0.50	0.32	0.54	0.34
13	0.46	0.32	0.51	0.34	0.52	0.34	0.54	0.36	0.59	0.38
14	0.49	0.36	0.55	0.37	0.56	0.38	0.59	0.40	0.64	0.43
15	0.50	0.40	0.57	0.41	0.59	0.42	0.63	0.45	0.67	0.48
16	0.49	0.43	0.56	0.45	0.58	0.46	0.63	0.50	0.68	0.53
17	0.46	0.46	0.52	0.49	0.55	0.50	0.60	0.53	0.65	0.56
18	0.41	0.48	0.46	0.51	0.49	0.52	0.53	0.55	0.58	0.58
19	0.36	0.49	0.39	0.53	0.41	0.54	0.45	0.56	0.51	0.59
20	0.31	0.51	0.33	0.54	0.35	0.54	0.38	0.57	0.44	0.59
21	0.28	0.52	0.29	0.55	0.30	0.55	0.33	0.57	0.39	0.59
22	0.26	0.55	0.26	0.57	0.28	0.56	0.31	0.57	0.35 0.34	0.59
23 24	0.26 0.27	0.58	0.26 0.27	0.59 0.62	0.27	0.58 0.60	0.30 0.31	0.59	0.34	0.60 0.61
25	0.27	0.62 0.66	0.27	0.65	0.28 0.29	0.63	0.31	0.61 0.63	0.34	0.63
26	0.28	0.70	0.28	0.68	0.23	0.67	0.34	0.66	0.34	0.65
27	0.33	0.70	0.31	0.08	0.31	0.70	0.35	0.69	0.33	0.67
28	0.36	0.76	0.36	0.71	0.36	0.73	0.38	0.71	0.37	0.70
29	0.39	0.78	0.38	0.76	0.39	0.75	0.40	0.74	0.42	0.72
30	0.42	0.81	0.41	0.79	0.41	0.78	0.43	0.76	0.44	0.75
31	0.45	0.83	0.43	0.81	0.44	0.80	0.46	0.78	0.47	0.77
32	0.49	0.86	0.47	0.84	0.48	0.83	0.49	0.81	0.50	0.80
33	0.53	0.89	0.50	0.87	0.51	0.86	0.52	0.84	0.53	0.83
34	0.57	0.91	0.54	0.90	0.55	0.90	0.55	0.87	0.57	0.86
35	0.61	0.94	0.58	0.93	0.59	0.93	0.59	0.91	0.60	0.89
36	0.65	0.98	0.62	0.96	0.63	0.96	0.63	0.94	0.64	0.93
37	0.69	1.01	0.67	0.99	0.67	0.99	0.67	0.98	0.68	0.96
38	0.74	1.04	0.71	1.02	0.72	1.03	0.72	1.02	0.73	1.00
39	0.78	1.08	0.76	1.05	0.77	1.06	0.77	1.06	0.77	1.04
40	0.82	1.12	0.81	1.09	0.82	1.09	0.82	1.09	0.83	1.08
41	0.87	1.16	0.86	1.13	0.87	1.12	0.87	1.12	0.88	1.11
42	0.91	1.20	0.90	1.17	0.92	1.16	0.92	1.15	0.93	1.15
43	0.96	1.24	0.95	1.21	0.97	1.20	0.97	1.19	0.99	1.18
44	1.01	1.30	1.00	1.27	1.03	1.25	1.03	1.23	1.04	1.21
45	1.07	1.36	1.05	1.32	1.08	1.30	1.08	1.27	1.10	1.25
46	1.14	1.43	1.11	1.39	1.13	1.36	1.14	1.33	1.15	1.29
47	1.21	1.50	1.17	1.46	1.19	1.42	1.19	1.39	1.21	1.34
48	1.27	1.58	1.24	1.54	1.25	1.49	1.25	1.45	1.27	1.40
49	1.34	1.67	1.32	1.62	1.32	1.57	1.31	1.52	1.34	1.47
50	1.41	1.75	1.39	1.71	1.39	1.65	1.38	1.59	1.41	1.54
51 52	1.48	1.83	1.47	1.79	1.47	1.73	1.46	1.67	1.48	1.62
52 52	1.55	1.92	1.54	1.87	1.55	1.82	1.54	1.76	1.56	1.70
53 54	1.62 1.69	2.00 2.09	1.61 1.68	1.95 2.03	1.64 1.72	1.90 1.98	1.63 1.72	1.85 1.94	1.64 1.73	1.78 1.87
55	1.76	2.09	1.75	2.03	1.72	2.05	1.72	2.03	1.73	1.87
55 56	1.76	2.17	1.75	2.11	1.79	2.05	1.81	2.03	1.82	2.05
57	1.03	2.23	1.03	2.19	1.94	2.13	1.98	2.11	1.91	2.03
58	1.99	2.31	1.91	2.27	2.02	2.28	2.06	2.19	2.08	2.13
59	2.07	2.36	2.08	2.43	2.10	2.36	2.14	2.35	2.17	2.30
60	2.15	2.49	2.17	2.50	2.19	2.45	2.23	2.44	2.26	2.38
61	2.22	2.54	2.27	2.57	2.29	2.52	2.33	2.53	2.36	2.47
62	2.29	2.58	2.36	2.65	2.40	2.60	2.44	2.63	2.47	2.57
63	2.35	2.60	2.44	2.73	2.52	2.68	2.57	2.73	2.59	2.67
64	2.39	2.62	2.53	2.80	2.65	2.75	2.71	2.83	2.72	2.78
	4.33	۷.0۷	۷.J۵	4.00	۷.03	۷./ ک	4./1	۵.03	۷./۷	2.70

Chart 10: Medicare Total Allowed Charge by Age 2006 through 2010

	20	006	20	007	20	008	20	009	20	010
Age	Male	Female								
65	0.68	0.65	0.71	0.67	0.69	0.66	0.69	0.67	0.69	0.67
66	0.70	0.67	0.72	0.68	0.71	0.68	0.71	0.69	0.71	0.69
67	0.72	0.69	0.74	0.70	0.73	0.70	0.73	0.70	0.73	0.71
68	0.75	0.71	0.76	0.72	0.76	0.72	0.75	0.73	0.76	0.73
69	0.78	0.74	0.78	0.74	0.78	0.75	0.78	0.75	0.79	0.76
70	0.82	0.77	0.82	0.77	0.81	0.78	0.81	0.78	0.82	0.78
71	0.86	0.80	0.85	0.80	0.85	0.81	0.84	0.81	0.85	0.81
72	0.90	0.83	0.89	0.84	0.88	0.84	0.88	0.84	0.89	0.84
73	0.95	0.87	0.94	0.87	0.93	0.87	0.92	0.88	0.92	0.88
74	0.99	0.90	0.98	0.90	0.97	0.90	0.96	0.91	0.96	0.91
75	1.03	0.94	1.02	0.94	1.01	0.93	1.00	0.94	1.00	0.94
76	1.08	0.97	1.07	0.97	1.06	0.97	1.04	0.98	1.04	0.97
77	1.12	1.01	1.11	1.01	1.10	1.00	1.08	1.01	1.08	1.01
78	1.16	1.05	1.15	1.04	1.14	1.04	1.12	1.04	1.12	1.04
79	1.20	1.08	1.19	1.08	1.18	1.07	1.16	1.08	1.16	1.08
80	1.24	1.12	1.23	1.11	1.22	1.11	1.20	1.12	1.20	1.12
81	1.28	1.16	1.27	1.15	1.26	1.15	1.25	1.16	1.25	1.16
82	1.32	1.19	1.31	1.19	1.30	1.19	1.29	1.19	1.29	1.20
83	1.35	1.23	1.34	1.22	1.34	1.23	1.33	1.23	1.33	1.24
84	1.39	1.27	1.38	1.26	1.38	1.28	1.38	1.27	1.37	1.28
85	1.44	1.31	1.42	1.30	1.42	1.32	1.42	1.31	1.42	1.32
86	1.48	1.34	1.46	1.34	1.46	1.36	1.47	1.36	1.46	1.36
87	1.52	1.38	1.50	1.38	1.50	1.40	1.51	1.40	1.50	1.40
88	1.56	1.42	1.54	1.42	1.55	1.44	1.55	1.44	1.54	1.44
89	1.60	1.45	1.58	1.46	1.59	1.48	1.59	1.48	1.59	1.47
90	1.64	1.49	1.62	1.50	1.63	1.52	1.63	1.52	1.63	1.51
91	1.68	1.51	1.66	1.53	1.67	1.55	1.67	1.55	1.67	1.53
92	1.71	1.54	1.70	1.55	1.71	1.57	1.70	1.58	1.70	1.56
93	1.74	1.55	1.73	1.56	1.74	1.59	1.73	1.60	1.74	1.57
94	1.76	1.55	1.76	1.56	1.77	1.59	1.75	1.61	1.77	1.58
95	1.78	1.54	1.79	1.55	1.80	1.58	1.77	1.60	1.80	1.57
96	1.79	1.51	1.80	1.52	1.82	1.56	1.78	1.58	1.83	1.55
97	1.79	1.46	1.81	1.47	1.84	1.52	1.79	1.55	1.85	1.51
98	1.78	1.40	1.82	1.41	1.85	1.46	1.78	1.50	1.87	1.47

Chart 11: Medicare Net Allowed Amount by Age 2006 through 2010

	20	006	20	007	20	008	20	009	20	010
Age	Male	Female								
65	0.88	0.78	0.97	0.86	1.03	0.83	0.98	0.86	0.99	0.89
66	0.87	0.78	0.96	0.85	1.00	0.84	0.97	0.85	0.97	0.87
67	0.87	0.78	0.95	0.84	0.98	0.84	0.96	0.84	0.95	0.86
68	0.87	0.78	0.95	0.84	0.97	0.84	0.95	0.84	0.95	0.85
69	0.88	0.79	0.94	0.84	0.96	0.85	0.95	0.85	0.95	0.85
70	0.90	0.80	0.95	0.85	0.96	0.86	0.95	0.86	0.95	0.86
71	0.91	0.82	0.96	0.86	0.96	0.86	0.96	0.87	0.96	0.87
72	0.93	0.84	0.97	0.87	0.97	0.87	0.97	0.88	0.97	0.88
73	0.95	0.86	0.99	0.89	0.98	0.88	0.98	0.90	0.98	0.89
74	0.98	0.88	1.00	0.90	1.00	0.90	1.00	0.91	1.00	0.91
75	1.00	0.91	1.02	0.92	1.01	0.91	1.02	0.93	1.01	0.93
76	1.03	0.94	1.05	0.94	1.03	0.93	1.04	0.94	1.02	0.95
77	1.05	0.97	1.07	0.96	1.05	0.95	1.05	0.96	1.04	0.97
78	1.08	1.00	1.09	0.98	1.07	0.97	1.07	0.98	1.06	1.00
79	1.10	1.03	1.11	1.00	1.09	0.99	1.09	1.00	1.07	1.02
80	1.13	1.06	1.12	1.02	1.11	1.01	1.10	1.02	1.09	1.04
81	1.16	1.09	1.14	1.04	1.13	1.03	1.12	1.04	1.11	1.05
82	1.19	1.13	1.16	1.06	1.15	1.06	1.14	1.06	1.14	1.07
83	1.22	1.16	1.18	1.09	1.17	1.08	1.16	1.08	1.16	1.09
84	1.25	1.20	1.20	1.11	1.19	1.11	1.18	1.11	1.18	1.11
85	1.29	1.24	1.22	1.13	1.22	1.13	1.20	1.13	1.20	1.12
86	1.33	1.28	1.24	1.16	1.24	1.16	1.23	1.16	1.23	1.14
87	1.37	1.32	1.26	1.18	1.26	1.18	1.25	1.18	1.25	1.16
88	1.41	1.36	1.28	1.21	1.29	1.20	1.27	1.20	1.27	1.18
89	1.45	1.39	1.30	1.23	1.31	1.23	1.29	1.23	1.29	1.20
90	1.49	1.42	1.32	1.25	1.32	1.24	1.31	1.25	1.31	1.21
91	1.52	1.45	1.34	1.26	1.34	1.26	1.33	1.26	1.32	1.23
92	1.54	1.46	1.36	1.26	1.35	1.26	1.35	1.27	1.34	1.23
93	1.56	1.46	1.37	1.26	1.36	1.26	1.36	1.27	1.35	1.23
94	1.57	1.45	1.38	1.24	1.37	1.25	1.37	1.26	1.36	1.21
95	1.56	1.42	1.39	1.21	1.38	1.23	1.38	1.24	1.36	1.19
96	1.55	1.37	1.39	1.17	1.38	1.19	1.38	1.21	1.36	1.15
97	1.53	1.31	1.38	1.11	1.37	1.14	1.38	1.16	1.36	1.10
98	1.49	1.22	1.36	1.04	1.36	1.08	1.37	1.10	1.36	1.04

Chart 12: Inpatient Facility Costs by Age and Experience Year—Total Allowed Charge

	20	006	20	007	20	008	20	009	20	010
Age	Male	Female								
65	0.64	0.51	0.68	0.54	0.65	0.53	0.66	0.55	0.66	0.55
66	0.65	0.53	0.68	0.54	0.66	0.54	0.67	0.55	0.67	0.56
67	0.66	0.54	0.68	0.55	0.67	0.56	0.68	0.57	0.68	0.57
68	0.69	0.57	0.69	0.57	0.69	0.58	0.69	0.58	0.70	0.59
69	0.72	0.59	0.71	0.60	0.72	0.61	0.71	0.61	0.72	0.62
70	0.75	0.63	0.74	0.63	0.74	0.64	0.74	0.64	0.75	0.65
71	0.79	0.66	0.78	0.67	0.78	0.67	0.77	0.68	0.78	0.69
72	0.84	0.71	0.83	0.71	0.82	0.71	0.81	0.72	0.82	0.72
73	0.89	0.75	0.88	0.76	0.86	0.75	0.85	0.76	0.86	0.76
74	0.94	0.80	0.93	0.80	0.91	0.79	0.90	0.81	0.90	0.80
75	0.99	0.85	0.98	0.85	0.96	0.84	0.95	0.86	0.95	0.85
76	1.04	0.90	1.03	0.90	1.02	0.89	1.00	0.91	1.00	0.90
77	1.10	0.96	1.08	0.96	1.08	0.94	1.06	0.96	1.05	0.95
78	1.15	1.02	1.14	1.01	1.13	1.00	1.11	1.01	1.11	1.00
79	1.21	1.08	1.20	1.07	1.19	1.06	1.17	1.07	1.17	1.06
80	1.27	1.14	1.26	1.13	1.25	1.13	1.23	1.13	1.23	1.12
81	1.33	1.21	1.32	1.19	1.31	1.20	1.29	1.20	1.30	1.19
82	1.39	1.28	1.38	1.26	1.38	1.27	1.36	1.26	1.36	1.27
83	1.46	1.35	1.45	1.33	1.45	1.34	1.43	1.34	1.43	1.34
84	1.53	1.42	1.52	1.41	1.52	1.42	1.51	1.41	1.51	1.42
85	1.61	1.49	1.59	1.48	1.59	1.50	1.59	1.49	1.58	1.50
86	1.68	1.57	1.66	1.56	1.66	1.58	1.67	1.57	1.66	1.58
87	1.76	1.64	1.73	1.64	1.74	1.67	1.75	1.65	1.73	1.66
88	1.84	1.72	1.81	1.72	1.82	1.75	1.83	1.74	1.81	1.73
89	1.92	1.79	1.89	1.80	1.91	1.83	1.91	1.82	1.89	1.81
90	2.00	1.86	1.97	1.88	1.99	1.90	1.98	1.90	1.97	1.88
91	2.08	1.93	2.05	1.95	2.07	1.97	2.06	1.97	2.05	1.95
92	2.15	1.98	2.13	2.00	2.15	2.03	2.13	2.04	2.13	2.01
93	2.21	2.03	2.20	2.05	2.23	2.08	2.20	2.09	2.21	2.06
94	2.27	2.06	2.27	2.08	2.30	2.11	2.26	2.13	2.29	2.09
95	2.31	2.07	2.33	2.09	2.37	2.13	2.31	2.15	2.37	2.11
96	2.35	2.05	2.38	2.07	2.43	2.12	2.35	2.16	2.45	2.11
97	2.37	2.02	2.43	2.03	2.49	2.10	2.38	2.15	2.52	2.09
98	2.39	1.95	2.47	1.97	2.53	2.05	2.41	2.11	2.58	2.06

Chart 13: Inpatient Facility Costs by Age and Experience Year—Net Allowed Amount

	20	006	20	007	20	800	20	009	20	010
Age	Male	Female								
65	0.92	0.62	1.19	0.80	1.23	0.77	1.25	0.83	1.30	0.87
66	0.87	0.59	1.12	0.73	1.16	0.74	1.15	0.76	1.18	0.80
67	0.84	0.57	1.05	0.69	1.10	0.71	1.08	0.71	1.09	0.75
68	0.81	0.56	0.99	0.66	1.04	0.69	1.01	0.67	1.02	0.71
69	0.80	0.56	0.94	0.64	0.99	0.67	0.96	0.65	0.96	0.68
70	0.79	0.57	0.90	0.64	0.94	0.66	0.92	0.65	0.93	0.67
71	0.79	0.59	0.88	0.65	0.91	0.66	0.90	0.66	0.90	0.67
72	0.80	0.62	0.86	0.67	0.89	0.67	0.88	0.67	0.89	0.68
73	0.81	0.65	0.86	0.69	0.87	0.68	0.88	0.69	0.88	0.70
74	0.82	0.70	0.87	0.71	0.87	0.70	0.89	0.72	0.88	0.72
75	0.84	0.74	0.88	0.74	0.87	0.72	0.90	0.75	0.89	0.75
76	0.87	0.80	0.90	0.77	0.88	0.76	0.92	0.78	0.90	0.77
77	0.91	0.87	0.93	0.82	0.90	0.80	0.93	0.82	0.91	0.81
78	0.95	0.94	0.96	0.87	0.93	0.86	0.95	0.87	0.93	0.85
79	1.00	1.01	1.00	0.93	0.96	0.91	0.98	0.92	0.96	0.90
80	1.06	1.10	1.04	0.99	1.00	0.98	1.01	0.98	1.00	0.96
81	1.12	1.19	1.09	1.06	1.05	1.05	1.05	1.04	1.05	1.02
82	1.20	1.28	1.14	1.14	1.11	1.12	1.10	1.11	1.10	1.10
83	1.28	1.38	1.19	1.22	1.18	1.20	1.15	1.19	1.16	1.17
84	1.38	1.49	1.26	1.31	1.25	1.28	1.22	1.27	1.23	1.25
85	1.49	1.60	1.32	1.40	1.33	1.37	1.29	1.35	1.30	1.33
86	1.60	1.72	1.40	1.49	1.41	1.45	1.36	1.44	1.37	1.41
87	1.71	1.84	1.48	1.58	1.49	1.54	1.44	1.53	1.44	1.49
88	1.83	1.95	1.56	1.67	1.57	1.62	1.52	1.62	1.52	1.57
89	1.94	2.06	1.65	1.75	1.65	1.70	1.59	1.70	1.59	1.65
90	2.05	2.15	1.73	1.83	1.73	1.78	1.67	1.78	1.66	1.71
91	2.15	2.23	1.82	1.89	1.80	1.84	1.75	1.85	1.73	1.77
92	2.24	2.29	1.90	1.94	1.87	1.89	1.82	1.90	1.80	1.81
93	2.30	2.33	1.97	1.97	1.93	1.92	1.89	1.93	1.86	1.83
94	2.35	2.34	2.03	1.98	1.99	1.94	1.95	1.94	1.93	1.84
95	2.38	2.31	2.09	1.95	2.05	1.92	2.01	1.93	1.99	1.82
96	2.38	2.25	2.13	1.90	2.09	1.89	2.06	1.90	2.05	1.77
97	2.37	2.15	2.17	1.81	2.13	1.82	2.11	1.84	2.10	1.70
98	2.33	2.02	2.19	1.70	2.16	1.73	2.15	1.75	2.15	1.60

Chart 14: Outpatient Facility Costs by Age and Experience Year—Total Allowed Charge

Age Male Female Male 1.38 1.35 1.38 1.35 1.38 1.35 1.35 1.35 1.35 1.35 1.35 1.36 1.38 1.35 1.38 1.48 1.12 1.48 1.18 1.48 1.18 1.48 1.18 1.48 1.18 1.48 1.18 1.48 1.18 1.48 1.18 1.48 1.18 1.48 1.14 1.11		20	006	20	007	20	008	20	009	20	010
66 0.73 0.80 0.74 0.80 0.76 0.78 0.72 0.77 0.72 0.78 67 0.75 0.81 0.76 0.81 0.77 0.80 0.74 0.80 0.74 0.79 68 0.78 0.83 0.78 0.83 0.77 0.82 0.77 0.82 69 0.81 0.86 0.80 0.85 0.80 0.85 0.80 0.85 0.80 0.85 0.80 0.85 0.90 0.85 0.80 0.84 0.88 0.83 0.87 0.82 0.87 0.82 0.87 0.83 0.86 0.89 71 0.87 0.91 0.87 0.90 0.85 0.90 0.86 0.89 72 0.90 0.93 0.90 0.92 0.88 0.92 0.88 0.92 0.89 0.92 0.94 73 0.93 0.96 0.93 0.95 0.92 0.95 0.91 0.95	Age	Male	Female								
67 0.75 0.81 0.76 0.81 0.77 0.80 0.74 0.80 0.74 0.79 68 0.78 0.83 0.78 0.83 0.77 0.82 0.77 0.82 69 0.81 0.86 0.80 0.85 0.80 0.85 0.79 0.85 0.80 0.84 70 0.84 0.88 0.83 0.87 0.90 0.85 0.90 0.85 0.90 0.86 0.89 71 0.87 0.91 0.87 0.90 0.85 0.90 0.85 0.90 0.86 0.89 72 0.90 0.93 0.90 0.92 0.88 0.92 0.88 0.92 0.89 0.92 0.94 74 0.97 0.98 0.97 0.97 0.95 0.98 0.94 0.98 0.92 0.94 75 1.00 1.01 1.00 1.00 0.98 1.00 0.98 1.00 0.98	65	0.71	0.79	0.72	0.78	0.76	0.75	0.69	0.75	0.69	0.76
68 0.78 0.83 0.78 0.83 0.77 0.82 0.77 0.82 69 0.81 0.86 0.80 0.85 0.80 0.85 0.79 0.85 0.80 0.84 70 0.84 0.88 0.83 0.87 0.82 0.87 0.82 0.87 0.82 0.87 0.80 0.86 71 0.87 0.91 0.87 0.90 0.92 0.88 0.92 0.88 0.92 0.89 0.92 0.89 0.92 0.89 0.92 0.89 0.92 0.94 0.98 0.92 0.94 0.98 0.92 0.94 0.98 0.92 0.94 0.98 0.92 0.94 0.98 0.95 0.97 0.95 0.91 0.95 0.92 0.94 0.98 0.95 0.97 0.95 0.91 0.98 0.90 0.94 0.98 0.95 0.97 75 1.00 1.01 1.00 1.00 1.00 1.00	66	0.73	0.80	0.74	0.80	0.76	0.78	0.72	0.77	0.72	0.78
69 0.81 0.86 0.80 0.85 0.80 0.85 0.79 0.85 0.80 0.84 70 0.84 0.88 0.83 0.87 0.82 0.87 0.82 0.87 0.83 0.86 71 0.87 0.91 0.87 0.90 0.85 0.90 0.85 0.90 0.86 0.89 72 0.90 0.93 0.90 0.92 0.88 0.92 0.89 0.92 0.95 0.92 0.95 0.91 0.95 0.92 0.95 0.92 0.95 0.92 0.95 0.92 0.94 0.98 0.95 0.97 0.95 0.92 0.98 0.95 0.97 0.95 0.98 0.94 0.98 0.95 0.97 0.95 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 1.00 1.00	67	0.75	0.81	0.76	0.81	0.77	0.80	0.74	0.80	0.74	0.79
70 0.84 0.88 0.83 0.87 0.82 0.87 0.82 0.87 0.83 0.86 71 0.87 0.91 0.87 0.90 0.85 0.90 0.85 0.90 0.86 0.89 72 0.90 0.93 0.90 0.92 0.88 0.92 0.88 0.92 0.89 0.95 0.92 0.94 0.98 0.95 0.92 0.94 0.98 0.95 0.97 0.97 0.95 0.94 0.98 0.95 0.97 0.97 0.95 0.94 0.98 0.95 0.97 0.97 0.95 0.94 0.98 0.95 0.97 0.95 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 0.98 1.00 1.04 1.05 1.06 1.05 1.02 1.02 1.01 1.01	68	0.78	0.83	0.78	0.83	0.78	0.83	0.77	0.82	0.77	0.82
71 0.87 0.91 0.87 0.90 0.85 0.90 0.85 0.90 0.86 0.89 72 0.90 0.93 0.90 0.92 0.88 0.92 0.88 0.92 0.89 0.92 73 0.93 0.96 0.93 0.95 0.92 0.95 0.91 0.95 0.92 0.94 74 0.97 0.98 0.97 0.97 0.95 0.98 0.94 0.98 0.95 0.97 75 1.00 1.01 1.00 1.00 0.98 1.00 0.98 1.00 0.98 1.00 76 1.03 1.03 1.03 1.02 1.02 1.01 1.03 1.01 1.04 77 1.06 1.05 1.05 1.05 1.05 1.04 1.05 1.04 1.07 78 1.09 1.07 1.09 1.07 1.08 1.07 1.07 1.08 1.07 1.10	69	0.81	0.86	0.80	0.85	0.80	0.85	0.79	0.85	0.80	0.84
72 0.90 0.93 0.90 0.92 0.88 0.92 0.88 0.92 0.89 0.92 73 0.93 0.96 0.93 0.95 0.92 0.95 0.91 0.95 0.92 0.94 74 0.97 0.98 0.97 0.97 0.95 0.98 0.94 0.98 0.95 0.97 75 1.00 1.01 1.00 1.00 0.98 1.00	70	0.84	0.88	0.83	0.87	0.82	0.87	0.82	0.87	0.83	0.86
73 0.93 0.96 0.93 0.95 0.92 0.95 0.91 0.95 0.92 0.94 74 0.97 0.98 0.97 0.97 0.95 0.98 0.94 0.98 0.95 0.97 75 1.00 1.01 1.00 1.00 0.98 1.00 0.98 1.00 0.98 1.00 76 1.03 1.03 1.02 1.02 1.02 1.01 1.03 1.01 1.04 77 1.06 1.05 1.05 1.05 1.05 1.04 1.05 1.04 1.07 78 1.09 1.07 1.09 1.07 1.08 1.07 1.08 1.07 1.00 1.00 1.10	71	0.87	0.91	0.87	0.90	0.85	0.90	0.85	0.90	0.86	0.89
74 0.97 0.98 0.97 0.97 0.95 0.98 0.94 0.98 0.95 0.97 75 1.00 1.01 1.00 1.00 0.98 1.00 1.04 1.05 1.04 1.05 1.04 1.07 1.08 1.07 1.08 1.07 1.10 1.10 1.10 1.10 1.10 1.10 </td <td>72</td> <td>0.90</td> <td>0.93</td> <td>0.90</td> <td>0.92</td> <td>0.88</td> <td>0.92</td> <td>0.88</td> <td>0.92</td> <td>0.89</td> <td>0.92</td>	72	0.90	0.93	0.90	0.92	0.88	0.92	0.88	0.92	0.89	0.92
75 1.00 1.01 1.00 1.00 0.98 1.00 1.03 1.01 1.04 1.04 1.07 1.04 1.07 1.04 1.07 1.08 1.07 1.00 1.00 1.10 1	73	0.93	0.96	0.93	0.95	0.92	0.95	0.91	0.95	0.92	0.94
76 1.03 1.03 1.02 1.02 1.02 1.01 1.03 1.01 1.04 77 1.06 1.05 1.05 1.05 1.05 1.04 1.05 1.04 1.07 78 1.09 1.07 1.08 1.07 1.08 1.07 1.10 79 1.11 1.10 1.11 1.10 1.11 1.09 1.10 1.10 1.10 1.12 80 1.14 1.12 1.14 1.12 1.13 1.13 1.13 1.13 1.15 81 1.16 1.14 1.16 1.15 1.16 1.14 1.16 1.16 1.16 1.17 82 1.19 1.16 1.18 1.17 1.19 1.17 1.19	74	0.97	0.98	0.97	0.97	0.95	0.98	0.94	0.98	0.95	0.97
77 1.06 1.05 1.05 1.05 1.04 1.05 1.04 1.07 78 1.09 1.07 1.08 1.07 1.07 1.08 1.07 1.08 1.07 1.10 79 1.11 1.10 1.11 1.10 1.11 1.09 1.10 1.10 1.10 1.12 80 1.14 1.12 1.14 1.12 1.13 1.13 1.13 1.13 1.15 81 1.16 1.14 1.16 1.15 1.16 1.14 1.16 1.16 1.17 82 1.19 1.16 1.18 1.17 1.19	75	1.00	1.01	1.00	1.00	0.98	1.00	0.98	1.00	0.98	1.00
78 1.09 1.07 1.09 1.07 1.08 1.07 1.08 1.07 1.08 1.07 1.10 79 1.11 1.10 1.11 1.10 1.11 1.09 1.10 1.10 1.10 1.12 80 1.14 1.12 1.14 1.12 1.13 1.13 1.13 1.13 1.15 81 1.16 1.14 1.16 1.15 1.16 1.14 1.16 1.17 1.19	76	1.03	1.03	1.03	1.02	1.02	1.02	1.01	1.03	1.01	1.04
79 1.11 1.10 1.11 1.10 1.11 1.09 1.10 1.10 1.10 1.12 80 1.14 1.12 1.14 1.12 1.13 1.13 1.13 1.13 1.15 81 1.16 1.14 1.16 1.15 1.16 1.14 1.16 1.16 1.17 82 1.19 1.16 1.18 1.17 1.19 1.19 1.19 1.19 1.19 83 1.21 1.19 1.20 1.20 1.21 1.20 1.22 <td< td=""><td>77</td><td>1.06</td><td>1.05</td><td>1.06</td><td>1.05</td><td>1.05</td><td>1.05</td><td>1.04</td><td>1.05</td><td>1.04</td><td>1.07</td></td<>	77	1.06	1.05	1.06	1.05	1.05	1.05	1.04	1.05	1.04	1.07
80 1.14 1.12 1.14 1.12 1.13 1.12 1.13 1.13 1.13 1.15 81 1.16 1.14 1.16 1.15 1.16 1.14 1.16 1.16 1.17 82 1.19 1.16 1.18 1.17 1.19 1.19 1.19 1.19 1.19 83 1.21 1.19 1.20 1.20 1.21 1.20 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.24 8.25 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26	78	1.09	1.07	1.09	1.07	1.08	1.07	1.07	1.08	1.07	1.10
81 1.16 1.14 1.16 1.15 1.16 1.14 1.16 1.16 1.17 82 1.19 1.16 1.18 1.17 1.19 1.19 1.19 1.19 1.19 83 1.21 1.19 1.20 1.20 1.21 1.20 1.22 1.24 1.23 1.25 1.25 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.2	79	1.11	1.10	1.11	1.10	1.11	1.09	1.10	1.10	1.10	1.12
82 1.19 1.16 1.18 1.17 1.19 1.17 1.19 1.19 1.19 1.19 83 1.21 1.19 1.20 1.20 1.21 1.20 1.22 1.22 1.22 1.22 84 1.24 1.21 1.23 1.22 1.24 1.23 1.25 1.25 1.26 1.26 1.28 1.27 1.28 1.26 85 1.26 1.23 1.25 1.25 1.26 1.26 1.28 1.27 1.28 1.26 86 1.29 1.26 1.27 1.27 1.29 1.29 1.31 1.30 1.31 1.29 87 1.31 1.28 1.30 1.30 1.31 1.31 1.34 1.33 1.34 1.31 88 1.34 1.30 1.33 1.32 1.34 1.34 1.37 1.35 1.37 1.33 89 1.36 1.32 1.35 1.34 1.36 1.40 1.37 1.40 1.35 90 1.39 1.33 1	80	1.14	1.12	1.14	1.12	1.13	1.12	1.13	1.13	1.13	1.15
83 1.21 1.19 1.20 1.20 1.21 1.20 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.24 1.23 1.25 1.25 1.24 1.23 1.25 1.25 1.24 1.23 1.25 1.24 1.23 1.25 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.26 1.28 1.27 1.28 1.29 1.31 1.30 1.31 1.31 1.30 1.31 1	81	1.16	1.14	1.16	1.15	1.16	1.14	1.16	1.16	1.16	1.17
84 1.24 1.21 1.23 1.22 1.24 1.23 1.25 1.25 1.24 85 1.26 1.23 1.25 1.25 1.26 1.26 1.28 1.27 1.28 1.26 86 1.29 1.26 1.27 1.29 1.29 1.31 1.30 1.31 1.29 87 1.31 1.28 1.30 1.30 1.31 1.31 1.34 1.33 1.34 1.31 88 1.34 1.30 1.33 1.32 1.34 1.34 1.37 1.35 1.37 1.33 89 1.36 1.32 1.35 1.34 1.36 1.40 1.37 1.40 1.35 90 1.39 1.33 1.38 1.35 1.39 1.38 1.43 1.39 1.43 1.37 91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.39 1.47 1.41 1.47 1.39	82	1.19	1.16	1.18	1.17	1.19	1.17	1.19	1.19	1.19	1.19
85 1.26 1.23 1.25 1.25 1.26 1.26 1.28 1.27 1.28 1.26 86 1.29 1.26 1.27 1.27 1.29 1.31 1.30 1.31 1.29 87 1.31 1.28 1.30 1.30 1.31 1.31 1.34 1.33 1.34 1.31 88 1.34 1.30 1.33 1.32 1.34 1.34 1.37 1.35 1.37 1.33 89 1.36 1.32 1.35 1.34 1.36 1.40 1.37 1.40 1.35 90 1.39 1.33 1.38 1.35 1.39 1.38 1.43 1.39 1.43 1.37 91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95	83	1.21	1.19	1.20	1.20	1.21	1.20	1.22	1.22	1.22	1.22
86 1.29 1.26 1.27 1.27 1.29 1.29 1.31 1.30 1.31 1.29 87 1.31 1.28 1.30 1.30 1.31 1.34 1.33 1.34 1.31 88 1.34 1.30 1.33 1.32 1.34 1.34 1.37 1.35 1.37 1.33 89 1.36 1.32 1.35 1.34 1.36 1.40 1.37 1.40 1.35 90 1.39 1.33 1.38 1.35 1.39 1.38 1.43 1.39 1.43 1.37 91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.36 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1	84	1.24	1.21	1.23	1.22	1.24	1.23	1.25	1.25	1.25	1.24
87 1.31 1.28 1.30 1.30 1.31 1.31 1.34 1.33 1.34 1.31 88 1.34 1.30 1.33 1.32 1.34 1.34 1.37 1.35 1.37 1.33 89 1.36 1.32 1.35 1.34 1.36 1.36 1.40 1.37 1.40 1.35 90 1.39 1.33 1.38 1.35 1.39 1.38 1.43 1.39 1.43 1.37 91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.36 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.36 1.50 1.35 95 1.48 1.27 1.48 1.25 1.48 1	85	1.26		1.25	1.25	1.26	1.26	1.28	1.27	1.28	1.26
88 1.34 1.30 1.33 1.32 1.34 1.34 1.37 1.35 1.37 1.33 89 1.36 1.32 1.35 1.34 1.36 1.36 1.40 1.37 1.40 1.35 90 1.39 1.33 1.38 1.35 1.39 1.38 1.43 1.39 1.43 1.37 91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.36 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95 1.48 1.27 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 96 1.48 1.22 1.48 1.25 1.48 1	86	1.29	1.26	1.27	1.27	1.29	1.29	1.31	1.30	1.31	1.29
89 1.36 1.32 1.35 1.34 1.36 1.36 1.40 1.37 1.40 1.35 90 1.39 1.33 1.38 1.35 1.39 1.38 1.43 1.39 1.43 1.37 91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.36 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95 1.48 1.27 1.48 1.30 1.47 1.32 1.50 1.36 1.50 1.35 96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1	87	1.31	1.28	1.30	1.30	1.31	1.31	1.34	1.33	1.34	1.31
90 1.39 1.33 1.38 1.35 1.39 1.38 1.43 1.39 1.43 1.37 91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.36 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95 1.48 1.27 1.48 1.30 1.47 1.32 1.50 1.36 1.50 1.35 96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25	88	1.34	1.30	1.33	1.32	1.34	1.34	1.37	1.35	1.37	1.33
91 1.41 1.34 1.40 1.36 1.41 1.39 1.45 1.40 1.45 1.38 92 1.43 1.34 1.43 1.36 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95 1.48 1.27 1.48 1.30 1.47 1.32 1.50 1.36 1.50 1.35 96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25	89	1.36	1.32	1.35	1.34	1.36	1.36	1.40	1.37	1.40	1.35
92 1.43 1.34 1.43 1.36 1.43 1.39 1.47 1.41 1.47 1.39 93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95 1.48 1.27 1.48 1.30 1.47 1.32 1.50 1.36 1.50 1.35 96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25	90	1.39		1.38	1.35	1.39	1.38	1.43	1.39	1.43	1.37
93 1.45 1.33 1.45 1.36 1.45 1.38 1.49 1.41 1.49 1.39 94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95 1.48 1.27 1.48 1.30 1.47 1.32 1.50 1.36 1.50 1.35 96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25	91	1.41	1.34	1.40	1.36	1.41	1.39	1.45	1.40	1.45	1.38
94 1.46 1.31 1.46 1.33 1.46 1.35 1.50 1.39 1.50 1.37 95 1.48 1.27 1.48 1.30 1.47 1.32 1.50 1.36 1.50 1.35 96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25	92		1.34	1.43	1.36	1.43	1.39		1.41	1.47	1.39
95 1.48 1.27 1.48 1.30 1.47 1.32 1.50 1.36 1.50 1.35 96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25		1.45			1.36			1.49		1.49	
96 1.48 1.22 1.48 1.25 1.48 1.26 1.50 1.32 1.50 1.31 97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25											1.37
97 1.49 1.16 1.49 1.18 1.48 1.19 1.49 1.26 1.49 1.25		1.48		1.48	1.30		1.32	1.50	1.36	1.50	1.35
	96	1.48	1.22	1.48	1.25	1.48	1.26	1.50	1.32	1.50	1.31
98 1.49 1.08 1.49 1.10 1.48 1.10 1.48 1.18 1.48 1.18		1.49	1.16	1.49		1.48	1.19	1.49		1.49	1.25
	98	1.49	1.08	1.49	1.10	1.48	1.10	1.48	1.18	1.48	1.18

Chart 15: Outpatient Facility Costs by Age and Experience Year—Net Allowed Amount

	20	006	20	007	20	008	20	009	20	010
Age	Male	Female								
65	1.02	1.03	1.01	1.05	1.03	0.99	0.99	0.97	1.00	1.02
66	1.02	1.02	1.03	1.04	1.04	0.99	1.01	0.98	1.00	1.02
67	1.03	1.01	1.04	1.03	1.05	0.99	1.02	1.00	1.01	1.01
68	1.04	1.01	1.05	1.02	1.06	1.00	1.04	1.00	1.03	1.01
69	1.05	1.01	1.06	1.01	1.07	1.00	1.05	1.01	1.04	1.01
70	1.06	1.00	1.07	1.00	1.07	1.00	1.06	1.01	1.05	1.01
71	1.07	1.01	1.08	0.99	1.08	1.00	1.07	1.01	1.06	1.01
72	1.08	1.01	1.09	0.99	1.08	1.00	1.08	1.01	1.07	1.01
73	1.10	1.01	1.09	0.99	1.09	1.00	1.08	1.01	1.08	1.00
74	1.11	1.01	1.10	0.99	1.09	1.00	1.09	1.00	1.09	1.00
75	1.11	1.01	1.11	0.99	1.10	1.00	1.09	1.00	1.09	0.99
76	1.12	1.00	1.11	0.99	1.10	0.99	1.09	0.99	1.09	0.99
77	1.12	1.00	1.12	0.99	1.10	0.99	1.09	0.99	1.09	0.98
78	1.12	0.99	1.11	0.98	1.10	0.97	1.09	0.98	1.09	0.97
79	1.11	0.98	1.11	0.97	1.10	0.96	1.08	0.98	1.09	0.96
80	1.11	0.96	1.10	0.96	1.09	0.95	1.07	0.97	1.08	0.95
81	1.09	0.95	1.08	0.94	1.08	0.94	1.06	0.96	1.08	0.94
82	1.08	0.93	1.07	0.93	1.06	0.93	1.05	0.95	1.07	0.93
83	1.06	0.91	1.05	0.91	1.05	0.92	1.05	0.94	1.06	0.92
84	1.04	0.90	1.03	0.90	1.03	0.91	1.03	0.93	1.05	0.91
85	1.02	0.88	1.01	0.88	1.02	0.90	1.02	0.91	1.04	0.90
86	1.00	0.86	0.99	0.86	1.00	0.89	1.01	0.90	1.02	0.89
87	0.97	0.84	0.97	0.85	0.98	0.88	1.00	0.89	1.01	0.88
88	0.95	0.82	0.95	0.83	0.96	0.87	0.98	0.88	0.99	0.87
89	0.93	0.80	0.93	0.81	0.95	0.85	0.97	0.87	0.98	0.87
90	0.91	0.79	0.90	0.79	0.93	0.84	0.96	0.86	0.96	0.86
91	0.88	0.77	0.88	0.78	0.91	0.83	0.95	0.85	0.94	0.85
92	0.86	0.75	0.86	0.76	0.89	0.81	0.93	0.84	0.92	0.83
93	0.84	0.73	0.84	0.74	0.87	0.79	0.92	0.82	0.90	0.82
94	0.81	0.70	0.82	0.71	0.84	0.76	0.91	0.80	0.88	0.80
95	0.79	0.67	0.80	0.68	0.82	0.73	0.89	0.78	0.86	0.77
96	0.77	0.63	0.78	0.65	0.79	0.70	0.88	0.75	0.83	0.74
97	0.74	0.59	0.75	0.60	0.76	0.65	0.86	0.71	0.81	0.71
98	0.72	0.54	0.73	0.56	0.73	0.60	0.85	0.66	0.78	0.66

Chart 16: Professional Costs by Age and Experience Years—Total Allowed Charge

	20	006	20	007	20	800	20	009	20	010
Age	Male	Female								
65	0.73	0.80	0.74	0.79	0.72	0.79	0.73	0.81	0.72	0.81
66	0.77	0.83	0.78	0.82	0.76	0.82	0.77	0.83	0.76	0.83
67	0.80	0.86	0.81	0.85	0.80	0.85	0.80	0.86	0.80	0.86
68	0.84	0.88	0.84	0.87	0.84	0.88	0.84	0.89	0.84	0.88
69	0.88	0.91	0.88	0.90	0.88	0.91	0.88	0.91	0.88	0.91
70	0.92	0.93	0.92	0.93	0.92	0.94	0.91	0.94	0.92	0.93
71	0.96	0.96	0.96	0.95	0.95	0.96	0.95	0.96	0.95	0.96
72	1.00	0.98	1.00	0.98	0.99	0.98	0.99	0.98	0.99	0.98
73	1.04	1.00	1.03	1.00	1.03	1.00	1.02	1.00	1.02	1.00
74	1.08	1.02	1.07	1.02	1.06	1.02	1.05	1.02	1.05	1.02
75	1.11	1.04	1.10	1.04	1.10	1.04	1.09	1.04	1.08	1.04
76	1.15	1.05	1.14	1.05	1.13	1.05	1.12	1.05	1.11	1.05
77	1.17	1.06	1.17	1.06	1.16	1.06	1.14	1.06	1.14	1.06
78	1.20	1.07	1.19	1.07	1.19	1.07	1.17	1.07	1.16	1.07
79	1.22	1.08	1.21	1.08	1.21	1.08	1.19	1.08	1.19	1.08
80	1.24	1.08	1.23	1.08	1.23	1.08	1.21	1.09	1.21	1.09
81	1.25	1.08	1.24	1.08	1.24	1.09	1.23	1.09	1.22	1.09
82	1.26	1.08	1.26	1.08	1.25	1.09	1.24	1.09	1.23	1.10
83	1.27	1.08	1.26	1.08	1.26	1.08	1.25	1.09	1.25	1.10
84	1.27	1.07	1.27	1.07	1.26	1.08	1.26	1.08	1.25	1.09
85	1.27	1.06	1.27	1.07	1.26	1.07	1.26	1.08	1.26	1.09
86	1.26	1.05	1.26	1.06	1.26	1.07	1.26	1.07	1.26	1.08
87	1.26	1.04	1.26	1.05	1.25	1.06	1.25	1.06	1.26	1.07
88	1.25	1.02	1.25	1.03	1.25	1.04	1.25	1.04	1.25	1.06
89	1.24	1.01	1.24	1.02	1.23	1.03	1.24	1.03	1.25	1.04
90	1.22	0.99	1.23	1.00	1.22	1.01	1.23	1.01	1.23	1.02
91	1.21	0.97	1.21	0.98	1.20	0.99	1.21	1.00	1.22	1.00
92	1.19	0.94	1.20	0.96	1.18	0.97	1.19	0.98	1.20	0.98
93	1.17	0.92	1.18	0.94	1.16	0.95	1.17	0.95	1.18	0.95
94	1.14	0.89	1.15	0.91	1.14	0.92	1.14	0.93	1.16	0.92
95	1.11	0.86	1.13	0.87	1.11	0.89	1.11	0.90	1.13	0.89
96	1.08	0.82	1.10	0.83	1.08	0.86	1.08	0.86	1.10	0.85
97	1.05	0.78	1.07	0.79	1.05	0.82	1.05	0.83	1.07	0.81
98	1.02	0.73	1.03	0.74	1.01	0.78	1.01	0.79	1.03	0.77

Chart 17: Professional Costs by Age and Experience Years—Net Allowed Amount

	20	006	20	007	20	800	20	009	20	010
Age	Male	Female								
65	0.77	0.83	0.79	0.82	0.77	0.82	0.77	0.84	0.76	0.84
66	0.80	0.85	0.81	0.84	0.80	0.85	0.81	0.86	0.80	0.86
67	0.83	0.88	0.84	0.87	0.84	0.87	0.84	0.88	0.83	0.88
68	0.87	0.90	0.87	0.89	0.87	0.90	0.87	0.90	0.87	0.90
69	0.90	0.92	0.90	0.91	0.90	0.92	0.90	0.92	0.90	0.92
70	0.93	0.94	0.93	0.93	0.93	0.94	0.93	0.94	0.93	0.94
71	0.97	0.96	0.97	0.96	0.97	0.96	0.96	0.96	0.96	0.96
72	1.00	0.98	1.00	0.98	1.00	0.98	0.99	0.98	0.99	0.98
73	1.03	0.99	1.03	0.99	1.03	1.00	1.02	1.00	1.02	1.00
74	1.07	1.01	1.06	1.01	1.06	1.01	1.05	1.01	1.05	1.01
75	1.10	1.03	1.09	1.03	1.09	1.02	1.08	1.03	1.07	1.02
76	1.13	1.04	1.12	1.04	1.11	1.04	1.10	1.04	1.10	1.04
77	1.15	1.05	1.14	1.05	1.14	1.05	1.12	1.05	1.12	1.05
78	1.17	1.06	1.16	1.06	1.16	1.05	1.15	1.06	1.14	1.06
79	1.19	1.06	1.18	1.06	1.18	1.06	1.17	1.06	1.16	1.06
80	1.20	1.07	1.20	1.07	1.19	1.07	1.18	1.07	1.18	1.07
81	1.21	1.07	1.21	1.07	1.21	1.07	1.20	1.07	1.19	1.07
82	1.22	1.07	1.22	1.07	1.22	1.07	1.21	1.07	1.20	1.08
83	1.23	1.06	1.23	1.07	1.22	1.07	1.21	1.07	1.21	1.08
84	1.23	1.06	1.23	1.06	1.23	1.07	1.22	1.07	1.22	1.08
85	1.23	1.05	1.23	1.06	1.23	1.06	1.22	1.06	1.22	1.07
86	1.23	1.04	1.23	1.05	1.23	1.06	1.22	1.06	1.22	1.07
87	1.22	1.03	1.23	1.04	1.22	1.05	1.22	1.05	1.22	1.06
88	1.22	1.02	1.22	1.03	1.22	1.04	1.22	1.04	1.22	1.05
89	1.21	1.01	1.21	1.02	1.21	1.03	1.21	1.03	1.22	1.04
90	1.20	1.00	1.20	1.01	1.20	1.02	1.20	1.02	1.21	1.02
91	1.18	0.98	1.19	0.99	1.18	1.00	1.19	1.00	1.20	1.01
92	1.17	0.96	1.18	0.97	1.17	0.98	1.17	0.98	1.19	0.99
93	1.15	0.94	1.16	0.95	1.15	0.96	1.15	0.96	1.17	0.97
94	1.13	0.91	1.14	0.93	1.13	0.94	1.13	0.94	1.15	0.94
95	1.11	0.88	1.12	0.90	1.11	0.91	1.11	0.92	1.13	0.91
96	1.09	0.85	1.10	0.86	1.08	0.88	1.08	0.89	1.11	0.88
97	1.06	0.81	1.07	0.82	1.06	0.85	1.05	0.85	1.08	0.84
98	1.03	0.77	1.04	0.78	1.03	0.81	1.02	0.82	1.05	0.80

Chart 18: Pharmacy Costs by Age and Experience Years—Medicare Ages

Age Male Female Male Log 0.93 0.93 0.93 0.93 0.93 0.83 0.82 66 0.96 0.97 0.92 0.94 0.92 0.93 0.99 0.93 0.91 68 0.99 0.98 0.98 0.98 0.98 0.99 0.96 0.93 0.93 0.91 69 1.00 0.99 0.98 0.98 0.98 0.99 0.96 0.93 0.93 0.91 70 1.01 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.98 71 1.01 1.02 1.04 1.03 1.05 1.04 <t< th=""><th></th><th>20</th><th>006</th><th>20</th><th>007</th><th>20</th><th>008</th><th>20</th><th>009</th><th>20</th><th>010</th></t<>		20	006	20	007	20	008	20	009	20	010
66 0.96 0.97 0.90 0.91 0.88 0.90 0.88 0.87 0.83 0.82 67 0.97 0.97 0.92 0.94 0.92 0.93 0.92 0.90 0.88 0.87 68 0.99 0.98 0.95 0.96 0.95 0.96 0.93 0.93 0.91 69 1.00 0.99 0.98 0.98 0.98 0.98 0.99 0.96 0.97 0.95 70 1.01 1.00 1.00 1.01 1.00 1.02 0.98 1.00 0.98 71 1.03 1.01 1.02 1.01 1.03 1.02 1.04 1.00 1.03 1.01 71 1.03 1.01 1.02 1.04 1.03 1.05 1.04 1.00 1.03 1.07 1.05 71 1.04 1.02 1.05 1.08 1.06 1.09 1.04 1.09 1.06	Age	Male	Female								
67 0.97 0.92 0.94 0.92 0.93 0.92 0.90 0.88 0.87 68 0.99 0.98 0.95 0.96 0.96 0.96 0.93 0.93 0.91 69 1.00 0.99 0.98 0.98 0.98 0.99 0.96 0.97 0.95 70 1.01 1.00 1.00 1.00 1.00 1.02 0.98 1.00 0.98 71 1.03 1.01 1.02 1.01 1.03 1.02 1.04 1.00 1.03 1.01 72 1.04 1.02 1.05 1.04 1.07 1.05 1.08 1.03 1.07 1.05 74 1.07 1.03 1.07 1.05 1.08 1.06 1.01 1.04 1.09 1.06 75 1.08 1.04 1.08 1.05 1.08 1.06 1.10 1.04 1.00 1.06 1.11 1.06 1.10	65	0.95	0.97	0.87	0.89	0.85	0.86	0.84	0.83	0.78	0.77
68 0.99 0.98 0.95 0.96 0.95 0.96 0.96 0.93 0.93 0.91 69 1.00 0.99 0.98 0.98 0.98 0.99 0.96 0.97 0.95 70 1.01 1.00 1.00 1.00 1.00 1.00 1.02 0.98 1.00 0.98 71 1.03 1.01 1.02 1.04 1.03 1.02 1.04 1.00 1.01 1.03 1.02 1.04 1.00 1.03 1.05 1.04 1.00 1.04 1.00 1.05 1.04 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 1.05 1.08 1.06 1.09 1.04 1.09 1.06 1.11 1.05 1.10 1.04 1.00 1.06 1.11 1.05 1.11 1.00 1.01 1.04 1.10 1.06 1.11 1.05 1.11 1.05 1.11 1.05 1.11	66	0.96	0.97	0.90	0.91	0.88	0.90	0.88	0.87	0.83	0.82
69 1.00 0.99 0.98 0.98 0.98 0.99 0.96 0.97 0.95 70 1.01 1.00 1.00 1.01 1.00 1.02 0.98 1.00 0.98 71 1.03 1.01 1.02 1.01 1.03 1.02 1.04 1.00 1.03 1.01 72 1.04 1.02 1.04 1.03 1.05 1.04 1.06 1.01 1.05 1.03 73 1.06 1.02 1.05 1.04 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 74 1.07 1.03 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 75 1.08 1.04 1.09 1.06 1.11 1.06 1.11 1.07 1.12 1.07 1.12 1.07 1.12 1.07 1.12 1.05 1.11 1.08 75 1.01	67	0.97	0.97	0.92	0.94	0.92	0.93	0.92	0.90	0.88	0.87
70 1.01 1.00 1.00 1.01 1.00 1.02 0.98 1.00 0.98 71 1.03 1.01 1.02 1.01 1.03 1.02 1.04 1.00 1.03 1.01 72 1.04 1.02 1.04 1.03 1.05 1.04 1.06 1.01 1.05 1.03 73 1.06 1.02 1.05 1.04 1.07 1.05 1.08 1.03 1.07 1.05 74 1.07 1.03 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 75 1.08 1.04 1.08 1.05 1.09 1.06 1.11 1.06 1.11 1.07 1.12 1.07 1.11 1.08 1.10 1.04 1.10 1.07 1.11 1.06 1.11 1.05 1.11 1.08 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.01	68	0.99	0.98	0.95	0.96	0.95	0.96	0.96	0.93	0.93	0.91
71 1.03 1.01 1.02 1.01 1.03 1.02 1.04 1.00 1.03 1.01 72 1.04 1.02 1.04 1.03 1.05 1.04 1.06 1.01 1.05 1.03 73 1.06 1.02 1.05 1.04 1.07 1.05 1.08 1.03 1.07 1.05 74 1.07 1.03 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 75 1.08 1.04 1.09 1.06 1.11 1.05 1.10 1.04 1.10 1.07 76 1.09 1.04 1.09 1.06 1.11 1.06 1.11 1.05 1.11 1.08 77 1.10 1.04 1.10 1.07 1.11 1.07 1.12 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.13	69	1.00	0.99	0.98	0.98	0.98	0.98	0.99	0.96	0.97	0.95
72 1.04 1.02 1.04 1.03 1.05 1.04 1.06 1.01 1.05 1.03 73 1.06 1.02 1.05 1.04 1.07 1.05 1.08 1.03 1.07 1.05 74 1.07 1.03 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 75 1.08 1.04 1.08 1.05 1.09 1.06 1.10 1.04 1.10 1.07 76 1.09 1.04 1.09 1.06 1.11 1.06 1.11 1.05 1.11 1.08 77 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.06 1.14 1.10 80 1.10 1.04 1.11 1.07 1.11 1.06 1.12 1.05 1.13	70	1.01	1.00	1.00	1.00	1.01	1.00	1.02	0.98	1.00	0.98
73 1.06 1.02 1.05 1.04 1.07 1.05 1.08 1.03 1.07 1.05 74 1.07 1.03 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 75 1.08 1.04 1.08 1.05 1.09 1.06 1.10 1.04 1.10 1.07 76 1.09 1.04 1.09 1.06 1.11 1.05 1.11 1.08 77 1.10 1.04 1.10 1.07 1.11 1.07 1.12 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.14 1.10 80 1.10 1.03 1.10 1.07 1.11 1.06 1.13 1.06 1.14 1.10	71	1.03	1.01	1.02	1.01	1.03	1.02	1.04	1.00	1.03	1.01
74 1.07 1.03 1.07 1.05 1.08 1.06 1.09 1.04 1.09 1.06 75 1.08 1.04 1.08 1.05 1.09 1.06 1.10 1.04 1.10 1.07 76 1.09 1.04 1.09 1.06 1.11 1.06 1.11 1.05 1.11 1.08 77 1.10 1.04 1.10 1.07 1.11 1.07 1.12 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.13 1.09 79 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.06 1.14 1.10 80 1.10 1.04 1.11 1.07 1.11 1.06 1.13 1.06 1.14 1.10 81 1.09 1.02 1.06 1.10 1.06 1.12 1.05 1.13 1.09	72	1.04	1.02	1.04	1.03	1.05	1.04	1.06	1.01	1.05	1.03
75 1.08 1.04 1.08 1.05 1.09 1.06 1.10 1.04 1.10 1.07 76 1.09 1.04 1.09 1.06 1.11 1.06 1.11 1.05 1.11 1.08 77 1.10 1.04 1.10 1.07 1.11 1.07 1.12 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.13 1.09 79 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.06 1.14 1.10 80 1.10 1.03 1.10 1.07 1.11 1.06 1.13 1.06 1.14 1.10 81 1.09 1.02 1.09 1.06 1.10 1.06 1.12 1.05 1.13 1.09 82 1.08 1.01 1.08 1.06 1.04 1.06 1.11 1.05 1.12	73	1.06	1.02	1.05	1.04	1.07	1.05	1.08	1.03	1.07	1.05
76 1.09 1.04 1.09 1.06 1.11 1.06 1.11 1.05 1.11 1.08 77 1.10 1.04 1.10 1.07 1.11 1.07 1.12 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.13 1.09 79 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.06 1.14 1.10 80 1.10 1.03 1.10 1.07 1.11 1.06 1.13 1.06 1.14 1.10 81 1.09 1.02 1.09 1.06 1.10 1.06 1.12 1.05 1.13 1.09 82 1.08 1.01 1.08 1.06 1.08 1.05 1.11 1.05 1.12 1.08 83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10	74	1.07	1.03	1.07	1.05	1.08	1.06	1.09	1.04	1.09	1.06
77 1.10 1.04 1.10 1.07 1.11 1.07 1.12 1.05 1.12 1.09 78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.13 1.09 79 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.06 1.14 1.10 80 1.10 1.03 1.10 1.07 1.11 1.06 1.13 1.06 1.14 1.10 81 1.09 1.02 1.09 1.06 1.10 1.06 1.12 1.05 1.13 1.09 82 1.08 1.01 1.08 1.06 1.08 1.05 1.11 1.05 1.12 1.08 83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10 1.07 84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08	75	1.08	1.04	1.08	1.05	1.09	1.06	1.10	1.04	1.10	1.07
78 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.05 1.13 1.09 79 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.06 1.14 1.10 80 1.10 1.03 1.10 1.07 1.11 1.06 1.13 1.06 1.14 1.10 81 1.09 1.02 1.09 1.06 1.10 1.06 1.12 1.05 1.13 1.09 82 1.08 1.01 1.08 1.06 1.08 1.05 1.11 1.05 1.12 1.08 83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10 1.07 84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08 1.06 85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05	76	1.09	1.04	1.09	1.06	1.11	1.06	1.11	1.05	1.11	1.08
79 1.10 1.04 1.11 1.07 1.12 1.07 1.13 1.06 1.14 1.10 80 1.10 1.03 1.10 1.07 1.11 1.06 1.13 1.06 1.14 1.10 81 1.09 1.02 1.09 1.06 1.10 1.06 1.12 1.05 1.13 1.09 82 1.08 1.01 1.08 1.06 1.08 1.05 1.11 1.05 1.12 1.08 83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10 1.07 84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08 1.06 85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05 1.04 86 1.01 0.93 0.99 0.98 0.99 0.99 1.02 1.00 1.02	77	1.10	1.04	1.10	1.07	1.11	1.07	1.12	1.05	1.12	1.09
80 1.10 1.03 1.10 1.07 1.11 1.06 1.13 1.06 1.14 1.10 81 1.09 1.02 1.09 1.06 1.10 1.06 1.12 1.05 1.13 1.09 82 1.08 1.01 1.08 1.06 1.08 1.05 1.11 1.05 1.12 1.08 83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10 1.07 84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08 1.06 85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05 1.04 86 1.01 0.93 0.99 0.98 0.99 0.99 1.02 1.00 1.02 1.03 87 0.98 0.90 0.97 0.97 0.97 1.00 0.98 0.99 1.01	78	1.10	1.04	1.11	1.07	1.12	1.07	1.13	1.05	1.13	1.09
81 1.09 1.02 1.09 1.06 1.10 1.06 1.12 1.05 1.13 1.09 82 1.08 1.01 1.08 1.06 1.08 1.05 1.11 1.05 1.12 1.08 83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10 1.07 84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08 1.06 85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05 1.04 86 1.01 0.93 0.99 0.98 0.99 0.99 1.02 1.00 1.02 1.03 87 0.98 0.90 0.97 0.96 0.97 0.97 1.00 0.98 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.96	79	1.10	1.04	1.11	1.07	1.12	1.07	1.13	1.06	1.14	1.10
82 1.08 1.01 1.08 1.06 1.08 1.05 1.11 1.05 1.12 1.08 83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10 1.07 84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08 1.06 85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05 1.04 86 1.01 0.93 0.99 0.98 0.99 0.99 1.00 1.02 1.00 1.02 1.03 87 0.98 0.90 0.97 0.96 0.97 0.97 1.00 0.98 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.96 0.99 89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94	80	1.10	1.03	1.10	1.07	1.11	1.06	1.13	1.06	1.14	1.10
83 1.06 0.99 1.06 1.04 1.06 1.04 1.09 1.04 1.10 1.07 84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08 1.06 85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05 1.04 86 1.01 0.93 0.99 0.98 0.99 0.99 1.02 1.00 1.02 1.03 87 0.98 0.90 0.97 0.96 0.97 0.97 1.00 0.98 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.99 1.01 89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94 0.94 0.97 90 0.93 0.83 0.92 0.89 0.92 0.89 0.92 0.91 0.89 0.94 91 0.91 0.80 0.91 0.87 0.90 0	81	1.09	1.02	1.09	1.06	1.10	1.06	1.12	1.05	1.13	1.09
84 1.05 0.97 1.04 1.02 1.04 1.03 1.07 1.03 1.08 1.06 85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05 1.04 86 1.01 0.93 0.99 0.98 0.99 0.99 1.02 1.00 1.02 1.03 87 0.98 0.90 0.97 0.96 0.97 0.97 1.00 0.98 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.96 0.99 89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94 0.94 0.97 90 0.93 0.83 0.92 0.89 0.93 0.92 0.91 0.89 0.89	82	1.08	1.01	1.08	1.06	1.08	1.05	1.11	1.05	1.12	1.08
85 1.03 0.95 1.01 1.00 1.02 1.01 1.04 1.01 1.05 1.04 86 1.01 0.93 0.99 0.98 0.99 0.99 1.02 1.00 1.02 1.03 87 0.98 0.90 0.97 0.96 0.97 0.97 1.00 0.98 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.96 0.99 89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94 0.94 0.97 90 0.93 0.83 0.92 0.89 0.92 0.89 0.92 0.91 0.95 91 0.91 0.80 0.91 0.87 0.90 0.86 0.92 0.91 0.89 0.92 93 0.87 0.75 0.89 0.83 0.89 0.83 0.89 0.88 0.84 0.90	83	1.06	0.99	1.06	1.04	1.06	1.04	1.09	1.04	1.10	1.07
86 1.01 0.93 0.99 0.98 0.99 0.99 1.02 1.00 1.02 1.03 87 0.98 0.90 0.97 0.96 0.97 0.97 1.00 0.98 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.96 0.99 89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94 0.94 0.97 90 0.93 0.83 0.92 0.89 0.92 0.89 0.92 0.91 0.95 91 0.91 0.80 0.91 0.87 0.90 0.86 0.92 0.91 0.89 0.94 92 0.89 0.77 0.90 0.85 0.89 0.83 0.90 0.90 0.87 0.92 93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0	84	1.05	0.97	1.04	1.02	1.04	1.03	1.07	1.03	1.08	1.06
87 0.98 0.90 0.97 0.96 0.97 0.97 1.00 0.98 0.99 1.01 88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.96 0.99 89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94 0.94 0.97 90 0.93 0.83 0.92 0.89 0.92 0.89 0.93 0.92 0.91 0.95 91 0.91 0.80 0.91 0.87 0.90 0.86 0.92 0.91 0.89 0.94 92 0.89 0.77 0.90 0.85 0.89 0.83 0.90 0.90 0.87 0.92 93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.81 0.88 95 0.84 0.70 0.87 0.79 0.85 0.76 0	85	1.03	0.95	1.01	1.00	1.02	1.01	1.04	1.01	1.05	1.04
88 0.96 0.88 0.95 0.93 0.95 0.94 0.97 0.96 0.96 0.99 89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94 0.94 0.97 90 0.93 0.83 0.92 0.89 0.92 0.89 0.93 0.92 0.91 0.95 91 0.91 0.80 0.91 0.87 0.90 0.86 0.92 0.91 0.89 0.94 92 0.89 0.77 0.90 0.85 0.89 0.83 0.90 0.90 0.87 0.92 93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.87 0.82 0.89 95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.66 0.86 0.76 0.82 0	86	1.01	0.93	0.99	0.98	0.99	0.99	1.02	1.00	1.02	1.03
89 0.94 0.85 0.94 0.91 0.93 0.92 0.95 0.94 0.94 0.97 90 0.93 0.83 0.92 0.89 0.92 0.89 0.93 0.92 0.91 0.95 91 0.91 0.80 0.91 0.87 0.90 0.86 0.92 0.91 0.89 0.94 92 0.89 0.77 0.90 0.85 0.89 0.83 0.90 0.90 0.87 0.92 93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.87 0.82 0.89 95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0	87	0.98	0.90	0.97	0.96	0.97	0.97	1.00	0.98	0.99	1.01
90 0.93 0.83 0.92 0.89 0.92 0.89 0.93 0.92 0.91 0.95 91 0.91 0.80 0.91 0.87 0.90 0.86 0.92 0.91 0.89 0.94 92 0.89 0.77 0.90 0.85 0.89 0.83 0.90 0.90 0.87 0.92 93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.87 0.82 0.89 95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77	88	0.96	0.88	0.95	0.93	0.95	0.94	0.97	0.96	0.96	0.99
91 0.91 0.80 0.91 0.87 0.90 0.86 0.92 0.91 0.89 0.94 92 0.89 0.77 0.90 0.85 0.89 0.83 0.90 0.90 0.87 0.92 93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.87 0.89 95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77 0.85	89	0.94	0.85	0.94	0.91	0.93	0.92	0.95	0.94	0.94	0.97
92 0.89 0.77 0.90 0.85 0.89 0.83 0.90 0.90 0.87 0.92 93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.87 0.82 0.89 95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77 0.85	90	0.93	0.83	0.92	0.89	0.92	0.89	0.93	0.92	0.91	0.95
93 0.87 0.75 0.89 0.83 0.87 0.81 0.89 0.88 0.84 0.90 94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.87 0.82 0.89 95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77 0.85	91	0.91	0.80	0.91	0.87	0.90	0.86	0.92	0.91	0.89	0.94
94 0.86 0.73 0.88 0.81 0.86 0.78 0.88 0.87 0.82 0.89 95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77 0.85											
95 0.84 0.70 0.87 0.79 0.85 0.76 0.87 0.86 0.81 0.88 96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77 0.85				0.89	0.83			0.89	0.88	0.84	
96 0.83 0.68 0.87 0.78 0.84 0.74 0.86 0.85 0.79 0.86 97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77 0.85		0.86		0.88	0.81	0.86	0.78	0.88	0.87	0.82	0.89
97 0.81 0.66 0.86 0.76 0.82 0.72 0.85 0.84 0.77 0.85		0.84	0.70	0.87	0.79			0.87	0.86	0.81	0.88
	96	0.83	0.68	0.87	0.78	0.84	0.74	0.86	0.85	0.79	0.86
98 0.80 0.64 0.85 0.74 0.81 0.70 0.84 0.82 0.76 0.84	97	0.81	0.66	0.86	0.76	0.82	0.72	0.85	0.84	0.77	0.85
	98	0.80	0.64	0.85	0.74	0.81	0.70	0.84	0.82	0.76	0.84

Chart 19: Comparison of Medicare Costs (Total, Medicare, Net)

	Total	Charge	Medica	re Benefit	Net A	mount
Age	Male	Female	Male	Female	Male	Female
65	0.69	0.67	0.63	0.63	0.99	0.89
66	0.71	0.69	0.66	0.65	0.97	0.87
67	0.73	0.71	0.69	0.68	0.95	0.86
68	0.76	0.73	0.72	0.71	0.95	0.85
69	0.79	0.76	0.76	0.74	0.95	0.85
70	0.82	0.78	0.79	0.77	0.95	0.86
71	0.85	0.81	0.83	0.80	0.96	0.87
72	0.89	0.84	0.87	0.84	0.97	0.88
73	0.92	0.88	0.91	0.87	0.98	0.89
74	0.96	0.91	0.95	0.91	1.00	0.91
75	1.00	0.94	1.00	0.94	1.01	0.93
76	1.04	0.97	1.04	0.98	1.02	0.95
77	1.08	1.01	1.08	1.01	1.04	0.97
78	1.12	1.04	1.13	1.05	1.06	1.00
79	1.16	1.08	1.18	1.09	1.07	1.02
80	1.20	1.12	1.22	1.13	1.09	1.04
81	1.25	1.16	1.27	1.18	1.11	1.05
82	1.29	1.20	1.32	1.22	1.14	1.07
83	1.33	1.24	1.36	1.27	1.16	1.09
84	1.37	1.28	1.41	1.31	1.18	1.11
85	1.42	1.32	1.46	1.36	1.20	1.12
86	1.46	1.36	1.50	1.40	1.23	1.14
87	1.50	1.40	1.55	1.44	1.25	1.16
88	1.54	1.44	1.60	1.48	1.27	1.18
89	1.59	1.47	1.64	1.52	1.29	1.20
90	1.63	1.51	1.69	1.56	1.31	1.21
91	1.67	1.53	1.73	1.59	1.32	1.23
92	1.70	1.56	1.77	1.62	1.34	1.23
93	1.74	1.57	1.82	1.64	1.35	1.23
94	1.77	1.58	1.85	1.65	1.36	1.21
95	1.80	1.57	1.89	1.64	1.36	1.19
96	1.83	1.55	1.92	1.62	1.36	1.15
97	1.85	1.51	1.94	1.59	1.36	1.10
98	1.87	1.47	1.96	1.55	1.36	1.04

Chart 20: Net Allowed Amount by Age for Specific Plan Design

		00%		00%		00%		00%		.00%
Age	inpa Male	itient Female	Outp Male	atient Female	Male	ssional Female	Pnar Male	macy Female	Male	otal Female
65	1.296	0.873	0.996	1.022	0.763	0.836	0.778	0.769	0.902	0.822
66	1.184	0.801	1.004	1.018	0.800	0.858	0.834	0.703	0.917	0.842
67	1.091	0.745	1.015	1.018	0.835	0.880	0.883	0.872	0.933	0.862
68	1.018	0.706	1.026	1.011	0.869	0.901	0.927	0.915	0.949	0.881
69	0.964	0.682	1.038	1.010	0.902	0.922	0.965	0.951	0.966	0.900
70	0.927	0.672	1.050	1.009	0.934	0.942	0.999	0.982	0.983	0.918
71	0.904	0.673	1.062	1.008	0.964	0.961	1.028	1.007	1.000	0.936
72	0.890	0.683	1.072	1.006	0.993	0.979	1.052	1.029	1.016	0.952
73	0.884	0.699	1.080	1.003	1.022	0.995	1.072	1.046	1.030	0.968
74	0.884	0.720	1.088	0.998	1.048	1.010	1.089	1.061	1.044	0.982
75	0.888	0.745	1.092	0.993	1.074	1.024	1.103	1.073	1.056	0.995
76	0.896	0.774	1.095	0.986	1.098	1.036	1.114	1.083	1.067	1.007
77	0.911	0.809	1.095	0.978	1.120	1.047	1.124	1.089	1.078	1.018
78	0.932	0.851	1.092	0.970	1.141	1.056	1.132	1.094	1.089	1.029
79	0.962	0.900	1.088	0.961	1.159	1.064	1.137	1.097	1.099	1.040
80	1.001	0.958	1.082	0.952	1.175	1.070	1.137	1.096	1.108	1.051
81	1.047	1.023	1.076	0.943	1.189	1.075	1.132	1.092	1.115	1.062
82	1.102	1.096	1.068	0.933	1.200	1.078	1.120	1.084	1.119	1.071
83	1.162	1.173	1.058	0.924	1.210	1.079	1.102	1.073	1.121	1.079
84	1.228	1.253	1.047	0.914	1.216	1.077	1.079	1.060	1.119	1.085
85	1.297	1.333	1.035	0.903	1.221	1.074	1.052	1.044	1.116	1.091
86	1.369	1.414	1.023	0.893	1.223	1.068	1.023	1.026	1.112	1.095
87	1.442	1.494	1.009	0.884	1.223	1.060	0.993	1.007	1.108	1.097
88	1.515	1.572	0.994	0.874	1.221	1.051	0.965	0.988	1.103	1.100
89	1.588	1.645	0.978	0.865	1.216	1.039	0.937	0.970	1.099	1.101
90	1.659	1.712	0.961	0.856	1.209	1.024	0.912	0.952	1.096	1.102
91	1.729	1.768	0.943	0.845	1.199	1.008	0.888	0.935	1.093	1.100
92	1.798	1.810	0.924	0.833	1.186	0.988	0.865	0.919	1.090	1.096
93	1.864	1.834	0.903	0.817	1.171	0.966	0.845	0.904	1.087	1.088
94	1.928	1.838	0.882	0.797	1.152	0.941	0.825	0.889	1.084	1.075
95	1.989	1.818	0.859	0.773	1.131	0.912	0.806	0.875	1.080	1.057
96	2.045	1.773	0.834	0.742	1.107	0.879	0.789	0.862	1.076	1.034
97	2.098	1.702	0.808	0.706	1.080	0.843	0.772	0.849	1.072	1.005
98	2.146	1.604	0.780	0.663	1.050	0.803	0.757	0.836	1.066	0.969

Chart 21: Commercial Costs by Age Over 65

Age	Male	Female
66	1.27	1.11
67	1.29	1.10
68	1.27	1.05
69	1.22	1.03
70	1.21	0.98
71	1.18	0.94
72	1.14	0.93
73	1.11	0.92
74	1.14	0.89
75	1.08	0.88
76	1.05	0.88
77	1.01	0.87
78	1.01	0.86
79	1.01	0.86
80	0.98	0.87
81	0.97	0.87
82	0.94	0.83
83	0.95	0.84
84	0.91	0.85
85	0.92	0.85
86	0.88	0.84
87	0.87	0.81
88	0.85	0.81
89	0.84	0.82
90	0.83	0.79
91	0.72	0.71

Chart 22: Cost Index of Members with Cancer Diagnosis versus Total Members

		3 Overall		Cancer) Overall	2009-10	
Age	Male	Female	Male	Female	Male	Female	Male	Femal
0	2.93	2.44	10.26	8.98	2.97	2.53	11.97	9.52
1	1.84	1.54	9.05	7.97	1.80	1.53	10.48	8.38
2	1.06	0.89	7.94	7.02	1.00	0.84	9.11	7.33
3	0.58	0.49	6.92	6.16	0.54	0.45	7.85	6.35
4	0.34	0.29	6.00	5.36	0.36	0.49	6.70	5.47
5	0.26	0.22	5.17	4.65	0.33	0.26	5.68	4.67
6	0.27	0.22	4.44	4.01	0.35	0.28	4.77	3.96
7	0.30	0.24	3.81	3.45	0.38	0.31	3.98	3.34
8	0.33	0.27	3.27	2.97	0.39	0.32	3.33	2.82
9	0.35	0.28	2.83	2.56	0.39	0.32	2.81	2.39
10	0.35	0.29	2.47	2.23	0.38	0.32	2.41	2.06
11	0.36	0.30	2.19	1.96	0.39	0.33	2.12	1.81
12	0.38	0.32	1.99	1.75	0.41	0.35	1.93	1.64
					0.41			
13	0.40	0.34	1.85	1.61		0.39	1.82	1.54
14	0.43	0.38	1.75	1.51	0.49	0.45	1.77	1.48
15	0.45	0.43	1.70	1.45	0.52	0.50	1.75	1.46
16	0.47	0.47	1.67	1.43	0.55	0.55	1.76	1.47
17	0.47	0.51	1.67	1.44	0.55	0.58	1.77	1.48
18	0.45	0.54	1.68	1.47	0.52	0.59	1.78	1.49
19	0.42	0.57	1.70	1.52	0.47	0.58	1.78	1.51
20	0.39	0.60	1.72	1.59	0.43	0.58	1.78	1.52
21	0.37	0.64	1.74	1.66	0.39	0.58	1.76	1.53
22	0.36	0.69	1.76	1.74	0.38	0.61	1.74	1.54
23	0.36	0.76	1.79	1.82	0.37	0.66	1.71	1.56
24	0.37	0.83	1.81	1.90	0.37	0.72	1.68	1.59
25	0.39	0.90	1.83	1.99	0.38	0.79	1.64	1.63
26	0.41	0.98	1.86	2.07	0.39	0.86	1.61	1.68
	0.41		1.88		0.33	0.80		
27		1.04		2.14			1.58	1.75
28	0.45	1.10	1.91	2.22	0.43	1.00	1.56	1.83
29	0.47	1.14	1.94	2.30	0.45	1.06	1.55	1.92
30	0.49	1.18	1.97	2.39	0.47	1.11	1.55	2.02
31	0.52	1.20	2.00	2.47	0.50	1.15	1.56	2.12
32	0.54	1.22	2.04	2.56	0.52	1.18	1.59	2.24
33	0.56	1.23	2.07	2.66	0.54	1.20	1.63	2.35
34	0.58	1.23	2.11	2.75	0.56	1.20	1.68	2.47
35	0.61	1.22	2.16	2.86	0.59	1.21	1.74	2.60
36	0.64	1.21	2.21	2.97	0.61	1.20	1.81	2.74
37	0.66	1.19	2.27	3.08	0.65	1.20	1.89	2.88
38	0.69	1.18	2.34	3.20	0.68	1.20	1.97	3.03
39	0.72	1.17	2.42	3.33	0.71	1.20	2.06	3.20
40	0.75	1.17	2.51	3.46	0.74	1.21	2.15	3.36
41	0.78	1.18	2.61	3.59	0.78	1.22	2.26	3.52
42	0.81	1.19	2.71	3.72	0.81	1.23	2.36	3.66
43	0.85	1.21	2.82	3.86	0.84	1.24	2.48	3.79
44	0.89	1.23	2.94	3.99	0.88	1.26	2.59	3.90
45	0.93	1.27	3.06	4.12	0.92	1.28	2.71	4.00
46	0.98	1.31	3.18	4.25	0.97	1.31	2.82	4.08
47	1.04	1.36	3.30	4.38	1.01	1.35	2.94	4.16
48	1.10	1.41	3.42	4.51	1.07	1.39	3.06	4.24
49	1.16	1.41	3.54	4.63	1.14	1.45	3.17	4.24
50	1.23	1.52	3.66	4.75	1.21	1.50	3.30	4.41
51	1.30	1.57	3.79	4.88	1.28	1.56	3.43	4.51
52	1.37	1.62	3.93	5.00	1.35	1.61	3.57	4.62
53	1.45	1.66	4.07	5.14	1.42	1.66	3.73	4.74
54	1.52	1.71	4.23	5.28	1.50	1.70	3.89	4.87
55	1.60	1.76	4.39	5.42	1.58	1.75	4.06	5.01
56	1.68	1.82	4.56	5.57	1.67	1.79	4.22	5.14
57	1.76	1.87	4.73	5.71	1.75	1.84	4.38	5.27
58	1.85	1.93	4.90	5.86	1.84	1.90	4.54	5.39
59	1.94	1.99	5.07	6.00	1.94	1.96	4.67	5.51
60	2.04	2.06	5.23	6.14	2.03	2.04	4.80	5.62
61	2.13	2.11	5.38	6.27	2.13	2.12	4.91	5.72
62	2.22	2.17	5.52	6.39	2.23	2.20	5.01	5.81
63	2.30	2.22	5.64	6.50	2.35	2.29	5.10	5.89
64	2.37	2.26	5.75	6.60	2.47	2.39	5.18	5.96

Chart 23: Cost Ratio of Members with Cancer Diagnosis to Total Members – 2009-10

Age	Male	Female	Age	Male	Female
0	4.03	3.76	65	1.99	2.07
1	5.82	5.48	66	1.94	2.04
2	9.14	8.69	67	1.89	2.01
3	14.45	14.03	68	1.84	1.97
4	18.78	18.76	69	1.79	1.93
5	17.43	17.78	70	1.75	1.88
6	13.54	13.95	71	1.70	1.84
7	10.50	10.89	72	1.65	1.79
8	8.56	8.91	73	1.60	1.75
9	7.28	7.58	74	1.54	1.70
10	6.30	6.52	75	1.49	1.66
11	5.46	5.56	76	1.45	1.62
12	4.73	4.68	77	1.40	1.57
13	4.11	3.92	78	1.35	1.53
14	3.65	3.33	79	1.31	1.48
15	3.34	2.91	80	1.26	1.43
16	3.21	2.66	81	1.22	1.38
17	3.24	2.54	82	1.17	1.33
18	3.44	2.52	83	1.13	1.29
19	3.77	2.58	84	1.08	1.25
20	4.15	2.63	85	1.04	1.21
21	4.15	2.63	86	0.99	1.18
22	4.64	2.52	87	0.95	1.15
23	4.64	2.37	88	0.93	1.13
24	4.51	2.21	89	0.88	1.12
25	4.31	2.07	90	0.84	1.06
			91		
26 27	4.07 3.85	1.96 1.88	92	0.81	1.04 1.03
				0.78	
28	3.64	1.83	93	0.76	1.02
29	3.45	1.81	94	0.74	1.02
30	3.29	1.82	95	0.72	1.03
31	3.15	1.85	96	0.71	1.05
32	3.06	1.90	97	0.70	1.09
33	3.01	1.97	98	0.69	1.14
34	2.98	2.05			
35	2.96	2.16			
36	2.94	2.27			
37	2.92	2.40			
38	2.90	2.53			
39	2.89	2.66			
40	2.90	2.78			
41	2.91	2.89			
42	2.92	2.98			
43	2.93	3.05			
44	2.94	3.10			
45	2.94	3.11			
46	2.93	3.11			
47	2.90	3.08			
48	2.85	3.04			
49	2.80	2.99			
50	2.74	2.94			
51	2.68	2.90			
52	2.65	2.88			
53	2.62	2.87			
54	2.59	2.86			
55	2.56	2.86			
56	2.53	2.86			
57	2.50	2.86			
58	2.46	2.84			
59	2.42	2.81			
60	2.37	2.76			
61	2.31	2.70			
		2.64			
62	2.24	2.04			
62 63	2.24	2.57			

Chart 24: Cost Ratio of Members with Circulatory Diagnosis to Total Members – 2009-10

Age	Male	Female	Age	Male	Female
0	3.53	5.01	65	1.47	1.26
1	4.87	6.94	66	1.43	1.24
2	7.28	10.43	67	1.39	1.22
3	10.97	15.92	68	1.36	1.21
4	13.63	20.11	69	1.34	1.19
5	12.18	18.08	70	1.33	1.18
6	9.23	13.57	71	1.32	1.17
7	7.12	10.28	72	1.31	1.16
8	5.91	8.36	73	1.30	1.15
9	5.25	7.25	74	1.29	1.15
10	4.86	6.54	75	1.28	1.14
11	4.54	5.97	76	1.27	1.14
12	4.22	5.43	77	1.26	1.13
13	3.88	4.91	78	1.25	1.13
14	3.57	4.43	79	1.24	1.12
15	3.33	4.06	80	1.22	1.10
16	3.19	3.82	81	1.21	1.09
17	3.18	3.73	82	1.19	1.07
18	3.29	3.76	83	1.18	1.05
19	3.49	3.86	84	1.16	1.04
20	3.69	3.93	85	1.15	1.02
21	3.81	3.87	86	1.13	1.01
22	3.77	3.65	87	1.12	1.00
23	3.60	3.33	88	1.10	0.98
24	3.35	2.98	89	1.09	0.97
25	3.08	2.64	90	1.08	0.97
26	2.83	2.35	91	1.07	0.96
27	2.61	2.11	92	1.06	0.96
28	2.43	1.92	93	1.06	0.97
29	2.28	1.76	94	1.05	0.98
30	2.16	1.64	95	1.05	1.00
31	2.07	1.55	96	1.06	1.03
32	2.01	1.50	97	1.07	1.08
33	1.97	1.46	98	1.08	1.14
34	1.94	1.45			
35	1.92	1.45			
36	1.89	1.46			
37	1.86	1.47			
38	1.84	1.49			
39	1.82	1.51			
40	1.80	1.52			
41	1.80	1.54			
42	1.80	1.55			
43	1.80	1.57			
44	1.80	1.58			
45	1.80	1.58			
46	1.80	1.58			
47	1.80	1.57			
48	1.80	1.55			
49	1.79	1.53			
50	1.78	1.50			
51	1.77	1.47			
52	1.76	1.45			
53	1.74	1.44			
54	1.72	1.42			
55	1.72	1.41			
56	1.67	1.40			
57	1.63	1.40			
58	1.60	1.39			
59	1.57	1.38			
33	1.54	1.37			
60	1.54				
60 61	1 51	1 36			
61	1.51	1.36			
	1.51 1.48 1.46	1.36 1.35 1.34			

Chart 25: Cost Ratio of Members with Musculoskeletal Diagnosis to Total Members – 2009-10

Age	Male	Female	Age	Male	Female
0	0.52	0.56	65	1.25	1.16
1	0.73	0.79	66	1.23	1.14
2	1.10	1.21	67	1.20	1.12
3	1.71	1.91	68	1.18	1.10
4	2.21	2.56	69	1.15	1.08
5	2.10	2.51	70	1.12	1.05
6	1.73	2.12	71	1.10	1.03
7	1.48	1.87	72	1.07	1.02
8	1.38	1.80	73	1.05	1.00
9	1.38	1.86	74	1.02	0.98
10	1.43	1.97	75	1.00	0.97
11	1.49	2.06	76	0.98	0.95
12	1.52	2.07	77	0.96	0.93
13	1.52	1.99	78	0.94	0.92
14	1.50	1.86	79	0.93	0.90
15	1.48	1.74	80	0.91	0.87
16	1.49	1.66	81	0.89	0.85
17	1.54	1.62	82	0.88	0.83
18	1.64	1.65	83	0.86	0.81
19	1.79	1.71	84	0.85	0.80
20	1.94	1.77	85	0.84	0.78
21	2.06	1.79	86	0.83	0.77
22	2.12	1.75	87	0.82	0.76
23	2.12	1.66	88	0.82	0.75
24	2.08	1.55	89	0.81	0.74
25	2.02	1.45	90	0.81	0.73
26	1.96	1.36	91	0.81	0.73
27	1.91	1.29	92	0.82	0.73
28	1.87	1.23	93	0.82	0.73
29	1.83	1.18	94	0.82	0.75
30	1.79	1.15	95	0.83	0.73
31	1.76	1.13	96	0.85	0.80
32	1.74	1.12	97	0.83	0.84
33	1.74	1.12	98	0.90	0.84
34			30	0.50	0.91
35	1.71 1.69	1.13			
		1.15			
36	1.67	1.18			
37	1.64	1.21			
38	1.62	1.25			
39	1.59	1.28			
40	1.58	1.31			
41	1.56	1.34			
42	1.55	1.37			
43	1.53	1.39			
44	1.52	1.41			
45	1.51	1.43			
46	1.50	1.43			
47	1.49	1.44			
48	1.48	1.43			
49	1.46	1.43			
50	1.44	1.42			
51	1.43	1.41			
52	1.41	1.40			
53	1.40	1.39			
54	1.38	1.38			
55	1.36	1.38			
56	1.34	1.37			
57	1.32	1.37			
58	1.31	1.36			
59	1.30	1.35			
60	1.29	1.34			
61	1.28	1.33			
62	1.27	1.32			
C2	1.26	1.31			
63					

Chart 26: Comparison of 2010 Age Curve with Petertil Table

Age	Male	Female	Petertil	Age	Male	Female	Petertil
50	0.671	0.834	0.794	65	0.902	0.822	0.777
51	0.711	0.864	0.820	66	0.917	0.842	0.800
52	0.751	0.892	0.847	67	0.933	0.862	0.824
53	0.792	0.919	0.875	68	0.949	0.881	0.849
54	0.835	0.946	0.904	69	0.966	0.900	0.874
55	0.881	0.972	0.934	70	0.983	0.918	0.901
56	0.928	0.999	0.967	71	1.000	0.936	0.923
57	0.978	1.028	1.002	72	1.016	0.952	0.946
58	1.029	1.060	1.038	73	1.030	0.968	0.970
59	1.081	1.095	1.075	74	1.044	0.982	0.994
60	1.134	1.134	1.114	75	1.056	0.995	1.019
61	1.191	1.177	1.161	76	1.067	1.007	1.039
62	1.251	1.225	1.210	77	1.078	1.018	1.060
63	1.316	1.275	1.260	78	1.089	1.029	1.081
64	1.385	1.327	1.313	79	1.099	1.040	1.103
				80	1.108	1.051	1.125
				81	1.115	1.062	1.136
				82	1.119	1.071	1.148
				83	1.121	1.079	1.159
				84	1.119	1.085	1.171
				85	1.116	1.091	1.182
				86	1.112	1.095	1.188
				87	1.108	1.097	1.194
				88	1.103	1.100	1.200
				89	1.099	1.101	1.206
				90	1.096	1.102	1.212
				91	1.093	1.100	1.212
				92	1.090	1.096	1.212
				93	1.087	1.088	1.212
				94	1.084	1.075	1.212
				95	1.080	1.057	1.212
				96	1.076	1.034	1.212
_				97	1.072	1.005	1.212
				98	1.066	0.969	1.212

Chart 27: Individual HMO data for calendar year 2010

	Raw		Graduated			Ra	Raw		Graduated	
Age	Male	Female	Male	Female	Age	Male	Female	Male	Female	
0	23,902	8,831	6,202	5,130	35	2,179	4,478	2,257	4,150	
1	5,409	5,565	4,997	4,182	36	2,152	5,453	2,366	4,125	
2	1,592	3,134	3,980	3,363	37	2,797	3,764	2,482	4,082	
3	2,861	1,524	3,148	2,673	38	2,048	3,969	2,605	4,029	
4	1,399	1,124	2,494	2,110	39	2,800	3,615	2,735	3,973	
5	1,587	1,511	2,009	1,669	40	2,288	3,904	2,871	3,924	
6	1,129	1,189	1,675	1,341	41	3,421	3,727	3,011	3,891	
7	1,375	1,027	1,472	1,116	42	3,769	3,761	3,155	3,879	
8	985	1,235	1,376	981	43	3,482	3,584	3,303	3,895	
9	1,553	1,225	1,363	922	44	3,360	4,153	3,457	3,942	
10	3,397	1,376	1,406	926	45	3,247	3,646	3,618	4,020	
11	1,265	927	1,484	979	46	4,202	4,244	3,789	4,129	
12	2,322	1,097	1,577	1,071	47	3,994	4,074	3,974	4,267	
13	1,380	1,077	1,671	1,190	48	4,050	4,433	4,176	4,431	
14	1,558	1,226	1,755	1,329	49	4,246	4,692	4,399	4,616	
15	1,609	1,489	1,823	1,480	50	4,990	5,113	4,644	4,819	
16	2,333	2,362	1,870	1,637	51	4,695	5,616	4,912	5,036	
17	2,036	1,791	1,895	1,795	52	4,519	5,111	5,205	5,264	
18	2,125	1,863	1,898	1,954	53	5,688	5,830	5,522	5,503	
19	1,494	2,184	1,883	2,112	54	5,854	5,384	5,857	5,751	
20	1,627	2,144	1,856	2,271	55	5,728	5,285	6,208	6,009	
21	2,319	2,431	1,820	2,432	56	6,328	6,436	6,567	6,274	
22	1,279	2,400	1,783	2,595	57	7,257	6,512	6,928	6,545	
23	1,475	2,765	1,750	2,762	58	8,333	6,854	7,283	6,818	
24	1,339	2,304	1,724	2,931	59	7,789	7,068	7,625	7,090	
25	1,855	3,298	1,710	3,104	60	7,724	7,779	7,951	7,358	
26	1,253	2,814	1,709	3,275	61	7,487	7,658	8,256	7,619	
27	2,254	3,371	1,722	3,443	62	9,770	7,876	8,539	7,871	
28	1,782	3,769	1,749	3,603	63	8,616	8,342	8,797	8,113	
29	1,718	3,748	1,789	3,750	64	8,363	7,968	9,031	8,344	
30	1,762	4,008	1,841	3,879						
31	2,005	3,985	1,905	3,987						
32	2,035	3,882	1,980	4,069						
33	2,394	4,443	2,064	4,124						
34	2,174	4,049	2,156	4,150						

Chart 28: Group PPO/POS data for calendar year 2010

	Raw		Graduated			Ra	Raw		Graduated	
Age	Male	Female	Male	Female	Age	Male	Female	Male	Female	
0	14,598	12,706	12,176	10,363	35	2,485	5,125	2,492	5,121	
1	8,461	7,157	7,718	6,557	36	2,585	5,117	2,606	5,111	
2	2,634	2,215	4,529	3,833	37	2,699	5,089	2,732	5,098	
3	2,091	1,689	2,565	2,152	38	2,900	5,091	2,867	5,093	
4	1,931	1,642	1,603	1,323	39	3,009	5,061	3,005	5,103	
5	1,835	1,545	1,304	1,056	40	3,169	5,131	3,143	5,131	
6	1,708	1,394	1,339	1,073	41	3,269	5,208	3,282	5,170	
7	1,609	1,274	1,472	1,178	42	3,390	5,242	3,424	5,218	
8	1,579	1,259	1,581	1,269	43	3,588	5,245	3,572	5,273	
9	1,532	1,253	1,637	1,325	44	3,738	5,385	3,729	5,342	
10	1,547	1,260	1,664	1,367	45	3,907	5,393	3,897	5,431	
11	1,644	1,380	1,704	1,429	46	4,110	5,552	4,081	5,550	
12	1,735	1,503	1,784	1,539	47	4,265	5,718	4,289	5,703	
13	1,817	1,648	1,911	1,704	48	4,487	5,841	4,527	5,888	
14	2,043	1,844	2,069	1,914	49	4,733	6,080	4,796	6,10	
15	2,214	2,131	2,216	2,136	50	5,159	6,320	5,089	6,329	
16	2,420	2,381	2,306	2,329	51	5,454	6,691	5,391	6,554	
17	2,423	2,574	2,305	2,455	52	5,693	6,734	5,696	6,766	
18	2,347	2,687	2,208	2,502	53	5,957	6,872	6,008	6,970	
19	1,912	2,428	2,045	2,490	54	6,347	7,239	6,334	7,17	
20	1,735	2,358	1,868	2,469	55	6,679	7,361	6,678	7,373	
21	1,705	2,406	1,719	2,491	56	6,985	7,587	7,040	7,580	
22	1,623	2,554	1,619	2,588	57	7,390	7,787	7,418	7,800	
23	1,584	2,763	1,572	2,766	58	7,947	8,058	7,805	8,039	
24	1,577	3,054	1,571	3,011	59	8,216	8,292	8,198	8,303	
25	1,629	3,342	1,604	3,300	60	8,477	8,612	8,602	8,599	
26	1,663	3,617	1,660	3,609	61	9,095	8,834	9,031	8,928	
27	1,772	3,912	1,729	3,918	62	9,423	9,318	9,488	9,288	
28	1,804	4,203	1,807	4,211	63	10,016	9,774	9,980	9,670	
29	1,833	4,468	1,895	4,476	64	10,507	9,999	10,505	10,06	
30	1,984	4,704	1,990	4,701						
31	2,133	4,889	2,090	4,879						
32	2,201	5,010	2,189	5,005						
33	2,266	5,104	2,287	5,081						
34	2,409	5,094	2,387	5,116						