# Exhibit 559

## **Expert Report of Andrew Brod, Ph.D.**

#### In the matter of

## Gary Layne McElhiney, Sr. v. United States of America

Case No. 7:23-CV-01368-BO

May 8, 2025



#### 1. Introduction

In this report, I provide a preliminary assessment and rebuttal of the plaintiff's expert report regarding economic damages in McElhiney v. USA. The report, written by Chad L. Staller and Stephen M. Dripps (S&D), claims damages for lost earnings, lost household services, past medical expenses, and the value of a life-care plan (LCP).

Mr. McElhiney was diagnosed with Parkinson's disease (PD) in July 2018, and he claims that the diagnosis resulted from his exposure to contaminated water at Camp Lejeune. He further claims to have incurred economic damages as a result of that exposure. For the sole purpose of producing this report, I will assume that liability has been established.

In addition, I will address the issue of offsets for Mr. McElhiney's support and care by the U.S. government.

As further information becomes available on any of the issues addressed in this memorandum, I may update my analysis.

#### 2. About Dr. Brod

I did my undergraduate work at the University of Illinois and earned a Ph.D. in economics from the University of Minnesota. My undergraduate majors were mathematics and economics, and my graduate fields were econometrics and industrial organization. I have worked for the American Medical Association and the University of North Carolina at Greensboro. At UNCG, I taught courses in statistics, forecasting, econometrics, and microeconomics, and I directed an applied economic research center for more than a decade. I retired from UNCG in 2010 and have worked since then as a self-employed economic consultant.

I have worked in forensic economics for more than 25 years. I work for both plaintiffs and defendants, primarily analyzing and testifying about economic damages, though I have conducted other kinds of analyses. My work focuses on projections of lost earnings in personal-injury and wrongful-death cases, lost profits in complex commercial cases, and the valuation of life-care plans.

My billing rates are \$480 per hour for case review, research, and report writing; \$240 per hour for out-of-town travel, and \$750 per hour for testimony (with a \$1,800 daily minimum). I bill for my assistant's time at a rate of \$160 per hour.

My resume and a four-year testimony log are included in this report as Appendices B and C. A list of recent publications is included in my resume.

#### 3. Lost Earnings

S&D opine that Mr. McElhiney's lost earning capacity is \$288,360, but their calculation omits an important aspect of Mr. McElhiney's work history. In particular, he was already disabled.

After his honorable discharge from the Marine Corps in September 1995, Mr. McElhiney did various jobs before finishing his career with a trucking company. Starting in late 2010, he worked as a truck driver and trainer. He worked full-time at first, but started working part-time in 2014. He retired in January 2016 because the pain from his medical conditions became too great: "I liked the job, but... I was getting to the point that every bone – every joint in my body was hurting, the neuropathy in my hands and feet, and I just could not stand the jarring of the truck."

In June 2016, Mr. McElhiney applied for Social Security disability benefits. On one of the forms he submitted to the federal government, he was asked to list all of the reasons why he could no longer work. His reasons included "paralysis of cranial nerve on right side of face," "paralysis of sciatic nerve in the lower extremities," and "intervertebral disk syndrome." His exhaustive list of reasons made no mention of PD.<sup>2</sup>

He was approved for Social Security disability benefits in September 2016, with an onset date in August 2015.<sup>3</sup> That was the date on which his disability was determined to have begun. Therefore, by Social Security's disability criterion, Mr. McElhiney was completely disabled and unemployable prior to his July 2018 PD diagnosis.

The implication is that Mr. McElhiney's PD did not lead to a loss of earning capacity, because the loss had already taken place, and for reasons unrelated to his PD. My opinion is that the value of his lost earnings due to PD is zero.

#### 4. Lost Household Services

S&D's report presents a value of lost household services through March 1, 2025, at which point such services are assumed to be covered by the LCP. However, S&D do not express an expert opinion regarding the number of service hours Mr. McElhiney could have provided but for his PD. They present an average number of hours based on data published by the U.S. Bureau of Labor Statistics, but that number applies to all men of Mr. McElhiney's age. S&D do not address the likelihood that Mr. McElhiney would have actually done that many hours of household chores.

According to the Department of Veterans Affairs, Mr. McElhiney suffers from various conditions that preceded his PD, including lumbar disc disease.<sup>4</sup> In June 2016, about two years before his PD diagnosis, Mr. McElhiney applied for Social Security disability benefits, complaining of "disorders of the back" and "peripheral neuropathy." I do not have the expertise to determine which, if any, household chores Mr. McElhiney's non-PD conditions allowed him to do, and S&D appear not to have investigated this issue at all.

<sup>2</sup> Disability Report – Adult, Form SSA-3368, 01368 MCELHINEY SSA 0000000034-39.

<sup>&</sup>lt;sup>1</sup> Gary McElhiney deposition, pp. 136-137.

<sup>&</sup>lt;sup>3</sup> Social Security Administration, Notice of Award, 01368\_MCELHINEY\_SSA\_0000000554-557.

<sup>&</sup>lt;sup>4</sup> Veterans Benefits Administration, Rating Decision, April 22, 2021, 01368 MCELHINEYG VA 00000255.

<sup>&</sup>lt;sup>5</sup> Materials related to SSD application, 01368\_MCELHINEY\_VA\_0000003848-3871.

Instead, they present a calculation for one service hour per week, leaving the task of determining the number of weekly hours to the finder of fact in this case.

Given the possibility that Mr. McElhiney might not have been able to perform any household chores even if he had not contracted PD, and because S&D do not express a clear opinion about the number of lost service hours due to PD, it is my opinion that there is no basis to include lost household services in Mr. McElhiney's economic damages.

#### 5. Past Medical Expenses

S&D assert that "Mr. McElhiney has incurred medical expenses equal to approximately \$28,308." But their only evidence of that is an assertion – effectively Mr. McElhiney's assertion - in the First Amended Track 1 Trial Plaintiff Damages Assessment. That document cites relevant records, including a summary of medical expenses by Dickson Medical Associates that accounts for \$26,067 of the asserted total.<sup>6</sup> There is no indication that S&D analyzed these medical expenses or verified that they are strictly PDrelated.

#### 6. Future Medical Expenses: Life-Care Plan

A life-care plan (LCP) for Mr. McElhiney was prepared by the defense life-care planner, Michael Shahnasarian, Ph.D. The LCP describes various medications, treatments, and equipment that Dr. Shahnasarian believes Mr. McElhiney will need in the future as a result of his PD. The plan provides estimates of the costs of these items over Mr. McElhiney's remaining life.

The economic analysis of an LCP involves (a) identifying inflation, or growth, rates that allow medical costs to be projected into the future, and (b) using a discount rate to express the streams of future costs as lump-sum present values.

I took the cost estimates provided in the Shahnasarian LCP and obtained reasonable growth rates for the costs in each category, based on components of the Consumer Price Index (CPI). Following S&D, I calculated average inflation rates over the period 2013-2024. I assigned CPI components in order to capture the bulk of the spending in each category. Table A, on the following page, associates these growth rates with the LCP categories.

As the table indicates, I divided three categories (Therapeutic Needs, Home Facility Care, and Drugs and Supply Needs) into two parts to capture the different nature (and inflation rates) of the activities in that category.

<sup>6</sup> Dickson Medical Associates, Itemized Statement, August 2023, 01368 MCELHINEY 0000000007-29.

**Table A: Life-Care Plan Categories and Growth Rates** 

	Growth	aregories and Growth Pares		
LCP category	Rate	CPI Component		
Evaluations	1.52%	Physicians' services		
Therapeutic Needs	1.3270	Filysicians services		
Therapeutic Needs, Other Med				
Diagnostic Tests	1.45%	Services by other medical professionals		
Home Facility Care, Nurse				
Wheelchair Needs	0.84%	Medical equipment and supplies		
Aids for Independent Living	0.0470	Medical equipment and supplies		
Drugs and Supply Needs	2.11%	Prescription drugs		
Drugs and Supply Needs, OTC	1.01%	Nonprescription drugs		
Home Facility Care, ex Nurse	3.49%	Care of elderly and invalids at home		
Transportation	1.83%	New vehicles		
Personal Fitness	2.74%	All items		
Architectural Renovations	5.57%	New single-family houses under construction		
Procedures/Hospitalizations	3.86%	Outpatient hospital services		

The Shahnasarian LCP expresses costs in ranges for some items, so I followed suit and calculated lower and upper bounds on the value of the LCP. My projections start on March 1, 2025, and extend until the expected end of Mr. McElhiney's life. Following S&D, I used CDC demographic data to determine that Mr. McElhiney's remaining life expectancy on March 1 was 13.5 years, implying a total life expectancy of 83.8 years.

In order to calculate the present value of future medical expenses, I discounted all future values using the same 4.35% discount rate used by S&D. The results of my analysis appear in Table B; detailed results appear in Appendix A.

Table B: Present Value of Life-Care Plan, by Category

LCP category	Lower	Upper
Evaluations	\$1,881	\$6,837
Therapeutic Needs	\$11,620	\$30,207
Therapeutic Needs, Other Med	\$12,169	\$24,121
Diagnostic Tests	\$2,675	\$3,623
Home Facility Care, Nurse	\$4,021	\$15,011
Home Facility Care, ex Nurse	\$1,439,475	\$1,913,293
Wheelchair Needs	\$6,928	\$7,917
Aids for Independent Living	\$5,257	\$10,911
Drugs and Supply Needs	\$20,785	\$155,097
Drugs and Supply Needs, OTC	\$1,259	\$1,862
Transportation	\$55,133	\$65,055
Personal Fitness	\$499	\$1,032
Architectural Renovations	\$40,299	\$40,872
Procedures/Hospitalizations	\$89,082	\$342,468
Total	\$1,691,083	\$2,618,307

As Table B shows, the present value of the cost of the Shahnasarian LCP is between \$1,691,083 and \$2,618,307.

#### 7. Offsets to Damages

The economic damages in this case are properly offset by certain defined expenses that have been and will be incurred by the federal government on behalf of Mr. McElhiney. Such offsets fall into two categories, (a) past and future disability benefits, and (b) past and future medical benefits.

**Disability Benefits**: The April 2021 Rating Decision for Mr. McElhiney by the Veterans Benefits Administration (VBA) identified an array of PD-related and non-PD-related conditions, all with disability percentages assigned to them.<sup>7</sup> These non-PD-related conditions and percentages are reproduced in Table C. I fed the percentages in Table C into the VA's Combined Disability Rating Calculator to determine the joint rating of Mr. McElhiney's non-PD-related health conditions. 8 The result of this calculation was a non-PD combined disability rating of 100%.

Table C: Gary McElhiney's Non-PD-Related Disabilities

Table C. Gary McEminey & Non-1 D-Related Disab	Disability
Disability	Percentage
Adjustment Disorder with Anxiety and Depressed Mood	70%
Lumbar Disc Disease	20%
Left L5 Radiculopathy associated with Lumbar Disc Disease	20%
Radiculopathy Right Lower Extremity associated with Lumbar Disc Disease	20%
Right Femoral Nerve and Tibial Nerve	20%
Left Femoral Nerve and Tibial Nerve	20%
Right Shoulder Impingement Syndrome	20%
Degenerative Disc Disease, Lumbar Spine, with Left Leg Radiculopathy	10%
Left Knee Impairment, with History of Surgery	10%
Tinnitus	10%
Rosacea	10%
Right 5th Cranial Nerve with Postherpetic Neuralgia	10%
Postherpetic Neuralgia, Right Side of Face, 5th Nerve	10%
Combined Rating, per VA Calculator	100%

Therefore, from the perspective of the VBA, Mr. McElhiney was 100% disabled even before he contracted PD. The PD-related increment to his regular VBA disability benefit is zero.

<sup>&</sup>lt;sup>7</sup> Veterans Benefits Administration, Rating Decision, April 22, 2021, 01368 MCELHINEYG VA 00000255.

<sup>8 &</sup>quot;About Disability Ratings," https://www.va.gov/disability/about-disability-ratings/.

However, since June 2020, Mr. McElhiney has received a Special Monthly Compensation payment, Level K, of \$136.06, and this benefit is for a condition that is related to his PD. Therefore, the PD-related increment to his overall VBA disability benefit is the SMC-K benefit, which I assumed he will continue to receive. Twelve months at the current rate of \$136.06 per month works out to \$1,632.72.

I obtained data on Mr. McElhiney's past SMC-K benefit from various sources. <sup>9,10,11</sup> I projected the current benefit into the future, until his life expectancy of 83.8 years, using the same discount rate as I did to calculate the present value of the LCP. By law, the benefit grows each year according to the Social Security Administration's cost-of-living adjustment (COLA). The average COLA for the years 2000-24 was 2.56%, so I assumed that future SMC-K benefits will grow at a rate of 2.56% per year.

Based on the above information, the present value of this offset to Mr. McElhiney's economic damages in this case, calculated from mid-2020 until his life expectancy, is **\$26,604**.

**Medical Offsets**: Mr. McElhiney's past medical offsets are addressed in various memoranda and notes. A memorandum by a contractor to the Centers for Medicare and Medicaid Services states that PD-related claims totaling \$177.18 were paid by Medicare on Mr. McElhiney's behalf. A memorandum by the Veterans Health Administration (VHA), accompanied by a spreadsheet exhibit, lists the Camp Lejeune-related expenses incurred by VHA on behalf of various CLJA plaintiffs. The amount listed for Mr. McElhiney is \$22,015.17.

A memorandum from Veterans Affairs, accompanied by a spreadsheet of data, outlines the costs incurred by Camp Lejeune plaintiffs through the VA's Community Care Network.<sup>14</sup> The value of PD-related care listed for Mr. McElhiney is \$812.94.

Adding up the above medical expenses yields a total value of past medical offsets of **\$23,005**.

Mr. McElhiney's future medical offsets are summarized in a report by Henry Miller of the Berkeley Research Group, which lists Medicare's projected payments for the items in the Shahnasarian LCP. The Miller report retains the categories and treatments of the Shahnasarian LCP and can be construed as a modification of the LCP. The results of the modified Shahnasarian LCP appear in Table D, on the following page.

\_

<sup>&</sup>lt;sup>9</sup> Veterans Affairs letter to Mr. McElhiney, June 3, 2021, 01368 McElhiney VA 0000004161-4165.

<sup>&</sup>lt;sup>10</sup> "VBA Disability Ratings, Conditions, and Amounts (3.13.2025)," document provided by DOJ.

<sup>11 &</sup>quot;About Disability Ratings," https://www.va.gov/disability/about-disability-ratings/.

<sup>&</sup>lt;sup>12</sup> Memorandum by Kathleen Hunter, Benefits Coordination and Recovery Center, April 1, 2025.

<sup>&</sup>lt;sup>13</sup> Veterans Health Administration memorandum by Janine Genovese, March 18, 2025.

<sup>&</sup>lt;sup>14</sup> Veterans Affairs memorandum by the Office of Integrated Veteran Care, February 20, 2025.

Table D: Present Value of Modified LCP, by Category

LCP category	Lower	Upper
Evaluations	\$1,240	\$1,240
Therapeutic Needs	\$5,751	\$10,078
Therapeutic Needs, Other Med	\$7,391	\$8,139
Diagnostic Tests	\$965	\$965
Home Facility Care, Nurse	\$12,401	\$24,802
Home Facility Care, ex Nurse	\$1,447,642	\$1,442,727
Wheelchair Needs	\$10,505	\$10,833
Aids for Independent Living	\$5,032	\$7,382
Drugs and Supply Needs	\$66,398	\$66,398
Drugs and Supply Needs, OTC	\$904	\$904
Transportation	\$22,808	\$22,808
Personal Fitness	\$0	\$0
Architectural Renovations	\$6,890	\$6,970
Procedures/Hospitalizations	\$91,000	\$149,479
Total	\$1,678,927	\$1,752,726

As Table D shows, the present value of the modified Shahnasarian LCP is between **\$1,678,927** and **\$1,752,726**. The court may decide to subtract these amounts from the corresponding lower and upper bound values of the original Shahnasarian LCP, to arrive at a net value of the cost of Mr. McElhiney's future medical care.

#### 8. Plaintiff's LCP

The plaintiff's LCP was produced by Kay Hairston, R.N. S&D calculated the present value of the Hairston LCP to be \$3,554,960. In case the court adopts the Hairston LCP, I calculated the value of the future medical offsets as applied to that LCP. The Miller report also addresses the Hairston LCP.

Table E: Present Value of Modified Hairston LCP, by Category

LCP category	Lower	Upper
Physician/Medical	\$20,040	\$26,925
Physician/Medical - Diagnostics	\$5,277	\$5,277
Physician/Medical - ER Treatment	\$3,601	\$3,601
Medications/Supplies	\$66,969	\$66,969
Medications/Supplies – OTC	\$15,046	\$15,046
Rehabilitation – Evaluations	\$4,705	\$4,705
Rehabilitation - Health/Strength	\$0	\$0
Therapeutic/Adaptive Equipment	\$15,718	\$20,110
Daily Care - ex Nurse	\$1,416,083	\$1,411,169
Other Medical Professionals	\$76,812	\$147,729
Transportation	\$22,261	\$39,777
Residential Modifications	\$6,854	\$6,854
Total	\$1,653,367	\$1,748,164

As he did with the Shahnasarian LCP, Mr. Miller lists the projected Medicare payments for the items in the Hairston LCP. I created the category Other Medical Professionals to include therapists, counselors, nurses, and other services to which it is reasonable to apply the CPI component for "Services by other medical professionals."

The results of the modified Hairston LCP appear in Table E, on the preceding page. It shows that Medicare is projected to cover between \$1,653,367 and \$1,748,164 of the cost of the Hairston LCP.

#### 9. Conclusions

My findings in this report are as follows:

- (a) The value of lost earnings is zero;
- (b) There is no basis for a claim of lost household services;
- (c) The present value of the Shahnasarian LCP is between \$1,691,083 and \$2,618,307;
- (d) The present value of past and future disability offsets is \$26,604;
- (e) Past medical offsets total \$23,005;
- (f) The present value of future medical offsets is between \$1,678,927 and \$1,752,726; and
- (g) If the court adopts the plaintiff's LCP, the present value of future medical offsets to that LCP is between \$1,653,367 and \$1,748,164.

The opinions set forth in this report, which are my present opinions to a reasonable degree of certainty, are based in part upon my review of the available documents provided to me. The data and facts relied upon in formulating my conclusions are the type of data reasonably and typically relied upon by experts in the field of forensic economics.

#### 10. References

- Short-Form Complaint, filed November 2, 2023
- Life-care plan by Michael Shahnasarian, Ph.D., May 2025
- Rehabilitation Evaluation of Gary Layne McElhiney, Sr., by Michael Shahnasarian, Ph.D., May 2025
- Expert report by Henry Miller, May 2025
- Expert report by Chad L. Staller and Stephen M. Dripps, February 2025
- Life-care plan by Kay Hairston, February 2025
- Transcript of deposition of Gary McElhiney, Vols. I and II, March and April 2024
- Disability Report Adult, Form SSA-3368, June 2016, 01368 MCELHINEY SSA 0000000034-39
- Social Security Administration, Notice of Award, September 2016, 01368 MCELHINEY SSA 0000000554-557
- Gary McElhiney's Social Security disability application materials, 01368\_MCELHINEY\_VA\_0000003848-3871

- Veterans Benefits Administration, Rating Decision, April 2021, 01368 MCELHINEYG VA 00000255
- Department of Veterans Affairs, Combined Disability Rating Calculator, https://www.va.gov/disability/about-disability-ratings/
- Letter from VBA, dated May 1, 2025, along with data spreadsheet, "RITA 2025-54151 results 04302025.xlsx"
- Benefits Coordination and Recovery Center, Memorandum by Kathleen Hunter, April 2025, and associated data
- Department of Veterans Affairs, Office of Integrated Veteran Care, Memorandum and exhibit on Community Care Network, February 2025, and associated data
- Veterans Health Administration, Memorandum on VHA Expenses, March 2025, and associated data
- Veterans Affairs letter to Mr. McElhiney, June 2021, 01368 McElhiney VA 0000004161-4165
- First Amended Track 1 Trial Plaintiff Damages Assessment of Gary McElhiney
- Dickson Medical Associates, Itemized Statement, August 2023, 01368 MCELHINEY 0000000007-29
- Social Security Administration, Data on cost-of-living adjustments at www.ssa.gov/cola/
- U.S. Department of Labor, Bureau of Labor Statistics: Consumer Price Index data at www.bls.gov/cpi/
- "United States Life Tables, 2021," National Vital Statistics Reports, Vol. 72, No. 12, November 2023

#### 11. Author Information

My business name and address are:

Andrew Brod, Ph.D. **Brod Forensic Economics** 4501 Kenbridge Drive Greensboro, NC 27410

Andrew C. Brod

## Appendix A

VBA Offsets: McElhiney's SMC-K Payments

	Age on		Present
Year	1/1	Annual	Value
2020	65	\$662	\$662
2021	66	\$1,341	\$1,341
2022	67	\$1,420	\$1,420
2023	68	\$1,543	\$1,543
2024	69	\$1,593	\$1,593
2025	70	\$1,633	\$1,633
2026	71	\$1,675	\$1,605
2027	72	\$1,717	\$1,577
2028	73	\$1,762	\$1,550
2029	74	\$1,807	\$1,524
2030	75	\$1,853	\$1,498
2031	76	\$1,900	\$1,472
2032	77	\$1,949	\$1,447
2033	78	\$1,999	\$1,422
2034	79	\$2,050	\$1,398
2035	80	\$2,103	\$1,374
2036	81	\$2,157	\$1,350
2037	82	\$2,212	\$1,327
2038	83	\$2,269	\$870
	7	<b>Fotal</b>	\$26,604
	20	20-24	\$6,559
	20	)25-38	\$20,045

## **Shahnasarian LCP**

#### **Lower Bound**

	Age on	Aids Indep	Medi-	Wheel- chair	Therapies, Other	Diagnostic	Attendant	Personal	Procs /	Architect
Year	1/1	Living	cations	Needs	Med Pros	Tests	Care	Fitness	Hosp	Renovs
2025	70	\$696	\$1,439	\$0	\$2,419	\$228	\$37,200	\$263	\$28,288	\$40,299
2026	71	\$0	\$1,689	\$0	\$883	\$222	\$44,270	\$0	\$0	\$0
2027	72	\$0	\$1,653	\$0	\$859	\$215	\$43,903	\$0	\$1,578	\$0
2028	73	\$0	\$1,618	\$0	\$835	\$210	\$43,539	\$0	\$0	\$0
2029	74	\$0	\$1,583	\$0	\$812	\$204	\$43,179	\$0	\$1,563	\$0
2030	75	\$846	\$1,549	\$0	\$789	\$198	\$85,641	\$0	\$26,075	\$0
2031	76	\$687	\$1,516	\$2,135	\$767	\$193	\$84,932	\$0	\$1,549	\$0
2032	77	\$530	\$1,483	\$564	\$746	\$187	\$84,228	\$236	\$0	\$0
2033	78	\$1,506	\$1,451	\$545	\$725	\$182	\$165,488	\$0	\$1,534	\$0
2034	79	\$0	\$1,420	\$527	\$705	\$177	\$164,117	\$0	\$0	\$0
2035	80	\$200	\$1,390	\$509	\$685	\$172	\$162,757	\$0	\$26,989	\$0
2036	81	\$13	\$1,360	\$492	\$666	\$167	\$161,408	\$0	\$0	\$0
2037	82	\$778	\$1,331	\$475	\$648	\$163	\$160,070	\$0	\$1,506	\$0
2038	83	\$0	\$1,302	\$1,680	\$630	\$158	\$158,744	\$0	\$0	\$0
	_	\$5,257	\$20,785	\$6,928	\$12,169	\$2,675	\$1,439,475	\$499	\$89,082	\$40,299

	Age on	Trans-		Therapies,	Medi- cations,	Attendant Care -	
Year	1/1	port	<b>Evals</b>	Physicians	OTC	Nurse	Annual
2025	70	\$27	\$441	\$1,046	\$93	\$0	\$112,438
2026	71	\$0	\$0	\$1,018	\$108	\$0	\$48,191
2027	72	\$25	\$0	\$990	\$105	\$0	\$49,329
2028	73	\$0	\$406	\$1,055	\$101	\$0	\$47,764
2029	74	\$24	\$0	\$848	\$98	\$0	\$48,310
2030	75	\$0	\$0	\$824	\$95	\$0	\$116,018
2031	76	\$52,252	\$374	\$802	\$92	\$0	\$145,298
2032	77	\$421	\$0	\$780	\$89	\$0	\$89,265
2033	78	\$433	\$0	\$759	\$86	\$718	\$173,429
2034	79	\$401	\$344	\$739	\$83	\$698	\$169,211
2035	80	\$412	\$0	\$718	\$81	\$679	\$194,592
2036	81	\$382	\$0	\$699	\$78	\$660	\$165,926
2037	82	\$392	\$317	\$680	\$76	\$642	\$167,077
2038	83	\$364	\$0	\$662	\$73	\$624	\$164,236
		\$55,133	\$1,881	\$11,620	\$1,259	\$4,021	\$1,691,083

## **Shahnasarian LCP**

## **Upper Bound**

	Age	Aids		Wheel-	Therapies,	<b>D</b> : (1			Б. /	
Year	on 1/1	Indep Living	Medi- cations	chair Needs	Other Med Pros	Diagnostic Tests	Attendant Care	Personal Fitness	Procs / Hosp	Architect Renovs
2025	70	\$1,256	\$10,736	\$0	\$6,173	\$309	\$49,367	\$371	\$69,801	\$0
2026	71	\$0	\$12,606	\$0	\$1,626	\$300	\$58,749	\$0	\$0	\$40,872
2027	72	\$0	\$12,336	\$0	\$1,581	\$292	\$58,262	\$0	\$1,578	\$0
2028	73	\$94	\$12,071	\$0	\$1,537	\$284	\$57,779	\$0	\$67,253	\$0
2029	74	\$0	\$11,812	\$0	\$1,494	\$276	\$57,301	\$0	\$1,563	\$0
2030	75	\$1,926	\$11,559	\$0	\$1,453	\$268	\$113,651	\$343	\$0	\$0
2031	76	\$1,687	\$11,311	\$2,392	\$1,412	\$261	\$112,710	\$0	\$67,861	\$0
2032	77	\$54	\$11,068	\$643	\$1,373	\$254	\$111,776	\$0	\$0	\$0
2033	78	\$2,154	\$10,831	\$621	\$1,335	\$247	\$220,127	\$0	\$1,534	\$0
2034	79	\$127	\$10,598	\$600	\$1,298	\$240	\$218,303	\$0	\$65,384	\$0
2035	80	\$1,795	\$10,371	\$580	\$1,262	\$233	\$216,494	\$318	\$1,520	\$0
2036	81	\$89	\$10,149	\$2,015	\$1,227	\$227	\$214,699	\$0	\$0	\$0
2037	82	\$316	\$9,931	\$542	\$1,192	\$220	\$212,920	\$0	\$65,974	\$0
2038	83	\$1,414	\$9,718	\$523	\$1,159	\$214	\$211,156	\$0	\$0	\$0
		\$10,911	\$155,097	\$7,917	\$24,121	\$3,623	\$1,913,293	\$1,032	\$342,468	\$40,872

Year	Age on 1/1	Trans-	Evals	Therapies, Physicians	Medications,	Attendant Care - Nurse	Annual
2025	70	\$27	\$441	\$1,046	\$93	\$0	\$112,438
2026	71	\$0	\$0	\$1,018	\$108	\$0	\$48,191
2027	72	\$25	\$0	\$990	\$105	\$0	\$49,329
2028	73	\$0	\$406	\$1,055	\$101	\$0	\$47,764
2029	74	\$24	\$0	\$848	\$98	\$0	\$48,310
2030	75	\$0	\$0	\$824	\$95	\$0	\$116,018
2031	76	\$52,252	\$374	\$802	\$92	\$0	\$145,298
2032	77	\$421	\$0	\$780	\$89	\$0	\$89,265
2033	78	\$433	\$0	\$759	\$86	\$718	\$173,429
2034	79	\$401	\$344	\$739	\$83	\$698	\$169,211
2035	80	\$412	\$0	\$718	\$81	\$679	\$194,592
2036	81	\$382	\$0	\$699	\$78	\$660	\$165,926
2037	82	\$392	\$317	\$680	\$76	\$642	\$167,077
2038	83	\$364	\$0	\$662	\$73	\$624	\$164,236
		\$55,133	\$1,881	\$11,620	\$1,259	\$4,021	\$1,691,083

## Shahnasarian LCP, Modified by Miller

#### **Lower Bound**

Year	Age on 1/1	Aids Indep Living	Medi- cations	Wheel- chair Needs	Therapies, Other Med Pros	Diagnostic Tests	Attendant Care	Personal Fitness	Procs / Hosp	Architect Renovs
2025	70	\$743	\$4,596	\$0	\$1,998	\$82	\$91,595	\$0	\$30,613	\$6,890
2026	71	\$0	\$5,397	\$0	\$489	\$80	\$109,003	\$0	\$0	\$0
2027	72	\$0	\$5,281	\$0	\$475	\$78	\$108,100	\$0	\$327	\$0
2028	73	\$0	\$5,168	\$0	\$462	\$76	\$107,204	\$0	\$0	\$0
2029	74	\$0	\$5,057	\$0	\$449	\$73	\$106,315	\$0	\$324	\$0
2030	75	\$481	\$4,948	\$0	\$437	\$71	\$106,845	\$0	\$29,579	\$0
2031	76	\$1,897	\$4,842	\$5,879	\$424	\$69	\$105,960	\$0	\$321	\$0
2032	77	\$509	\$4,738	\$0	\$413	\$68	\$105,082	\$0	\$0	\$0
2033	78	\$879	\$4,637	\$0	\$401	\$66	\$103,375	\$0	\$318	\$0
2034	79	\$0	\$4,537	\$0	\$390	\$64	\$102,518	\$0	\$0	\$0
2035	80	\$212	\$4,440	\$0	\$379	\$62	\$101,668	\$0	\$29,207	\$0
2036	81	\$37	\$4,345	\$0	\$369	\$60	\$100,826	\$0	\$0	\$0
2037	82	\$273	\$4,251	\$0	\$358	\$59	\$99,990	\$0	\$312	\$0
2038	83	\$0	\$4,160	\$4,626	\$348	\$57	\$99,162	\$0	\$0	\$0
_		\$5,032	\$66,398	\$10,505	\$7,391	\$965	\$1,447,642	\$0	\$91,000	\$6,890

Year	Age on 1/1	Trans-	Evals	Therapies, Physicians	Medications,	Attendant Care - Nurse	Annual
2025	70	port \$0	<b>Evals</b> \$291	\$519	\$67	Nurse \$0	\$137,393
2026	71	\$0	\$0	\$505	\$78	\$0	\$115,551
2027	72	\$0	\$0	\$491	\$75	\$0	\$114,826
2028	73	\$0	\$268	\$525	\$73	\$0	\$113,774
2029	74	\$0	\$0	\$419	\$71	\$0	\$112,708
2030	75	\$0	\$0	\$408	\$68	\$0	\$142,838
2031	76	\$22,808	\$246	\$396	\$66	\$0	\$142,909
2032	77	\$0	\$0	\$386	\$64	\$0	\$111,259
2033	78	\$0	\$0	\$375	\$62	\$2,215	\$112,327
2034	79	\$0	\$227	\$365	\$60	\$2,154	\$110,314
2035	80	\$0	\$0	\$355	\$58	\$2,094	\$138,476
2036	81	\$0	\$0	\$345	\$56	\$2,036	\$108,074
2037	82	\$0	\$209	\$336	\$54	\$1,979	\$107,822
2038	83	\$0	\$0	\$327	\$53	\$1,924	\$110,657
	_	\$22,808	\$1,240	\$5,751	\$904	\$12,401	\$1,678,927

## Shahnasarian LCP, Modified by Miller

## **Upper Bound**

	Age	Aids		Wheel-	Therapies,					
	on	Indep	Medi-	chair	Other	Diagnostic	Attendant	Personal	Procs /	Architect
Year	1/1	Living	cations	Needs	Med Pros	Tests	Care	Fitness	Hosp	Renovs
2025	70	\$743	\$4,596	\$0	\$2,746	\$82	\$91,595	\$0	\$30,613	\$0
2026	71	\$0	\$5,397	\$0	\$489	\$80	\$109,003	\$0	\$0	\$6,970
2027	72	\$0	\$5,281	\$0	\$475	\$78	\$108,100	\$0	\$327	\$0
2028	73	\$87	\$5,168	\$0	\$462	\$76	\$107,204	\$0	\$29,859	\$0
2029	74	\$0	\$5,057	\$0	\$449	\$73	\$106,315	\$0	\$324	\$0
2030	75	\$945	\$4,948	\$0	\$437	\$71	\$106,845	\$0	\$0	\$0
2031	76	\$1,975	\$4,842	\$5,879	\$424	\$69	\$105,960	\$0	\$29,761	\$0
2032	77	\$43	\$4,738	\$0	\$413	\$68	\$105,082	\$0	\$0	\$0
2033	78	\$917	\$4,637	\$0	\$401	\$66	\$102,538	\$0	\$318	\$0
2034	79	\$111	\$4,537	\$0	\$390	\$64	\$101,689	\$0	\$29,029	\$0
2035	80	\$752	\$4,440	\$0	\$379	\$62	\$100,846	\$0	\$315	\$0
2036	81	\$110	\$4,345	\$4,954	\$369	\$60	\$100,010	\$0	\$0	\$0
2037	82	\$129	\$4,251	\$0	\$358	\$59	\$99,181	\$0	\$28,934	\$0
2038	83	\$1,570	\$4,160	\$0	\$348	\$57	\$98,360	\$0	\$0	\$0
	_	\$7,382	\$66,398	\$10,833	\$8,139	\$965	\$1,442,727	\$0	\$149,479	\$6,970

Year	Age on 1/1	Trans-	Evals	Therapies, Physicians	Medi- cations, OTC	Attendant Care - Nurse	Annual
2025	70	port \$0	\$291	\$920	\$67	\$0	\$131,653
2026	71	\$0	\$0	\$895	\$78	\$0	\$122,912
2027	72	\$0	\$0	\$871	\$75	\$0	\$115,207
2028	73	\$0	\$268	\$895	\$73	\$0	\$144,090
2029	74	\$0	\$0	\$733	\$71	\$0	\$113,022
2030	75	\$0	\$0	\$713	\$68	\$0	\$114,028
2031	76	\$22,808	\$246	\$694	\$66	\$0	\$172,726
2032	77	\$0	\$0	\$675	\$64	\$0	\$111,082
2033	78	\$0	\$0	\$657	\$62	\$4,431	\$114,026
2034	79	\$0	\$227	\$639	\$60	\$4,307	\$141,052
2035	80	\$0	\$0	\$621	\$58	\$4,188	\$111,661
2036	81	\$0	\$0	\$605	\$56	\$4,071	\$114,579
2037	82	\$0	\$209	\$588	\$54	\$3,958	\$137,722
2038	83	\$0	\$0	\$572	\$53	\$3,848	\$108,968
		\$22,808	\$1,240	\$10,078	\$904	\$24,802	\$1,752,726

## Hairston LCP, Modified by Miller

#### **Lower Bound**

	Age on	Equip-	Medi-	Health &	Medi- cation,	Diagnostic	Attendant	Hospital	Home	Trans-
Year	1/1	ment	cations	Strength	OTC	Tests	Care	Svces	Mods	port
2025	70	\$201	\$4,636	\$0	\$1,113	\$380	\$90,369	\$265	\$6,854	\$0
2026	71	\$0	\$5,443	\$0	\$1,293	\$444	\$107,544	\$264	\$0	\$0
2027	72	\$0	\$5,326	\$0	\$1,252	\$431	\$106,653	\$263	\$0	\$0
2028	73	\$0	\$5,212	\$0	\$1,212	\$419	\$105,769	\$261	\$0	\$0
2029	74	\$0	\$5,100	\$0	\$1,173	\$408	\$104,893	\$260	\$0	\$0
2030	75	\$10,739	\$4,991	\$0	\$1,135	\$396	\$104,023	\$259	\$0	\$22,261
2031	76	\$286	\$4,884	\$0	\$1,099	\$385	\$103,161	\$258	\$0	\$0
2032	77	\$359	\$4,779	\$0	\$1,064	\$375	\$102,306	\$257	\$0	\$0
2033	78	\$317	\$4,677	\$0	\$1,030	\$364	\$100,622	\$255	\$0	\$0
2034	79	\$335	\$4,576	\$0	\$997	\$354	\$99,789	\$254	\$0	\$0
2035	80	\$2,642	\$4,478	\$0	\$965	\$344	\$98,962	\$253	\$0	\$0
2036	81	\$313	\$4,382	\$0	\$934	\$335	\$98,142	\$252	\$0	\$0
2037	82	\$233	\$4,288	\$0	\$904	\$325	\$97,328	\$251	\$0	\$0
2038	83	\$292	\$4,196	\$0	\$875	\$316	\$96,522	\$249	\$0	\$0
		\$15,718	\$66,969	\$0	\$15,046	\$5,277	\$1,416,083	\$3,601	\$6,854	\$22,261

	Age	D.L.L	Db /	Other	G	
Year	on 1/1	Rehab, Physicians	Phys / Medical	Medical Pros	Support Services	Annual
2025	70	\$399	\$1,701	\$4,719	\$0	\$110,638
2026	71	\$389	\$1,655	\$5,408	\$0	\$122,440
2027	72	\$378	\$1,610	\$5,258	\$0	\$121,171
2028	73	\$368	\$1,567	\$5,111	\$0	\$119,920
2029	74	\$358	\$1,524	\$4,969	\$0	\$118,685
2030	75	\$348	\$1,483	\$4,831	\$0	\$150,466
2031	76	\$339	\$1,442	\$4,697	\$0	\$116,551
2032	77	\$329	\$1,403	\$4,566	\$0	\$115,439
2033	78	\$320	\$1,365	\$6,655	\$0	\$115,606
2034	79	\$312	\$1,328	\$6,469	\$0	\$114,415
2035	80	\$303	\$1,292	\$6,290	\$0	\$115,529
2036	81	\$295	\$1,257	\$6,115	\$0	\$112,024
2037	82	\$287	\$1,223	\$5,945	\$0	\$110,784
2038	83	\$279	\$1,190	\$5,779	\$0	\$109,699
		\$4,705	\$20,040	\$76,812	\$0	\$1,653,367

## Hairston LCP, Modified by Miller

## **Upper Bound**

Vest	Age on	Equip-	Medi-	Health &	Medi- cation,	Diagnostic	Attendant	Hospital	Home	Trans-
<b>Year</b> 2025	1/1 70	ment \$201	cations \$4,636	Strength \$0	<b>OTC</b> \$1,113	Tests \$380	<b>Care</b> \$90,369	Svces \$265	<b>Mods</b> \$6,854	port \$0
			. ,				. ,			
2026	71	\$0	\$5,443	\$0	\$1,293	\$444	\$107,544	\$264	\$0	\$0
2027	72	\$0	\$5,326	\$0	\$1,252	\$431	\$106,653	\$263	\$0	\$0
2028	73	\$0	\$5,212	\$0	\$1,212	\$419	\$105,769	\$261	\$0	\$0
2029	74	\$0	\$5,100	\$0	\$1,173	\$408	\$104,893	\$260	\$0	\$0
2030	75	\$10,739	\$4,991	\$0	\$1,135	\$396	\$104,023	\$259	\$0	\$22,261
2031	76	\$286	\$4,884	\$0	\$1,099	\$385	\$103,161	\$258	\$0	\$0
2032	77	\$359	\$4,779	\$0	\$1,064	\$375	\$102,306	\$257	\$0	\$0
2033	78	\$317	\$4,677	\$0	\$1,030	\$364	\$99,786	\$255	\$0	\$0
2034	79	\$335	\$4,576	\$0	\$997	\$354	\$98,959	\$254	\$0	\$0
2035	80	\$2,642	\$4,478	\$0	\$965	\$344	\$98,139	\$253	\$0	\$0
2036	81	\$313	\$4,382	\$0	\$934	\$335	\$97,326	\$252	\$0	\$0
2037	82	\$4,626	\$4,288	\$0	\$904	\$325	\$96,519	\$251	\$0	\$17,517
2038	83	\$292	\$4,196	\$0	\$875	\$316	\$95,720	\$249	\$0	\$0
		\$20,110	\$66,969	\$0	\$15,046	\$5,277	\$1,411,169	\$3,601	\$6,854	\$39,777

	Age on	Rehab,	Phys /	Other Medical	Support	
Year	1/1	Physicians	Medical	Pros	Services	Annual
2025	70	\$399	\$2,286	\$8,936	\$0	\$115,440
2026	71	\$389	\$2,224	\$10,327	\$0	\$127,928
2027	72	\$378	\$2,164	\$10,040	\$0	\$126,507
2028	73	\$368	\$2,105	\$9,761	\$0	\$125,107
2029	74	\$358	\$2,048	\$9,490	\$0	\$123,729
2030	75	\$348	\$1,992	\$9,226	\$0	\$155,371
2031	76	\$339	\$1,938	\$8,969	\$0	\$121,319
2032	77	\$329	\$1,885	\$8,720	\$0	\$120,074
2033	78	\$320	\$1,834	\$12,908	\$0	\$121,492
2034	79	\$312	\$1,784	\$12,549	\$0	\$120,121
2035	80	\$303	\$1,736	\$12,200	\$0	\$121,061
2036	81	\$295	\$1,689	\$11,861	\$0	\$117,386
2037	82	\$287	\$1,643	\$11,531	\$0	\$137,891
2038	83	\$279	\$1,598	\$11,210	\$0	\$114,737
		\$4,705	\$26,925	\$147,729	\$0	\$1,748,164

## Appendix B

#### ANDREW C. BROD

President, Brod Forensic Economics
Senior Research Fellow, Center for Business and Economic Research, UNC-Greensboro
4501 Kenbridge Drive, Greensboro, NC 27410
Telephone: 336-707-6439

E-mail: Info@andrewbrod.com Web: http://www.andrewbrod.com

#### **EDUCATION**

1992: Ph.D. in Economics, University of Minnesota.

1985: M.A. in Economics, University of Minnesota.

1981: A.B. in Economics and Mathematics, University of Illinois.

Phi Beta Kappa, Cum Laude, and Distinction in Economics.

#### PROFESSIONAL EXPERIENCE

1997-present: President, Brod Forensic Economics

2010-present: Senior Research Fellow, Bryan School of Business and Economics, University of North Carolina at Greensboro.

1999–2010: Director, Center for Business and Economic Research, Bryan School of Business and Economics, University of North Carolina at Greensboro.

1989–99: Instructor and Assistant Professor, Department of Economics, University of North Carolina at Greensboro.

1988-89: Research Associate, University of Minnesota.

1986–88: Research Associate, Center for Health Policy Research, American Medical Association, Chicago, Illinois.

1981–85: Teaching Associate and Research Assistant, University of Minnesota.

#### RECENT APPLIED RESEARCH STUDIES

"Triad Business Census 2023," for Triad Business Bank, February 2023

"Triad Business Census 2021," for Triad Business Bank, May 2021

"Economic Impact of '60-by-30'," for Community Foundation of Greater Greensboro, February 2020

"Assessing In-State Tuition for DACA Recipients," for Community Foundation of Greater Greensboro, December 2019

"Triad Business Census 2019," a feasibility study for TBB Organization, April 2019

"Economic Impact of the Proposed Lehigh Hanson Distribution Yard," for Lehigh Hanson, Inc., August 2018.

"Valuation of Loflin Concrete and Related Entities," for Loflin Concrete Company, Inc., August 2018.

- "Assessment of Studies of House Values Near Rock Quarries," for Lehigh Hanson, Inc., October 2017.
- "Economic Impact of the Proposed Lehigh Hanson Quarry," for Lehigh Hanson, Inc., October 2017.
- "North Carolina Sales Tax Model," for the North Carolina Economic Modeling Project, August 2017.
- "Bee Safe Feasibility Study," for The Carroll Companies, August 2016.
- "Canada in the North Carolina Economy," for the Department of Foreign Affairs, Trade and Development, Government of Canada, March 2016.
- "The Economic Impact of the Greensboro Fire Department," for the City of Greensboro, December 2015.
- "Cityfi: Citywide Public Wi-Fi," with Roch Smith, Jr., for the City of Greensboro's Strong Cities, Strong Communities Challenge, June 2015.
- "Assessing the North Carolina Film Tax Credit," for Winston-Salem Business, Inc., May 2015.
- "North Carolina Urban/Suburban Poverty," for the City of Greensboro, September 2014.
- "The Economic Impact of the Fuquay-Varina Cultural Arts Center," for the FV Arts Foundation, September 2014.
- "Macroeconomic Assessment of North Carolina's Triad Region," for Kisco Senior Living, August 2013.
- "The Economic Impact of Improvements to Highway 17," subcontract to Atkins Global, for the Highway 17 Association, February 2013.
- "The History of Norfolk State University," subcontract to Jack Faucett Associates, for the Economic Impact of Norfolk State University, Norfolk State University, December 2012.
- "Analysis of Hendersonville, TN, Apartment Market," for The Carroll Companies, May 2012.
- "The Economic Impact of the Whitaker Park Development," for Winston-Salem Business, Inc., June 2011.
- "The Economic Impact of RAFI-USA's Tobacco Communities Reinvestment Fund," for the Rural Advancement Foundation International-USA, May 2011.
- "A GIS Chartbook: RAFI-USA's Tobacco Communities Reinvestment Fund," with Bradley Bereitschaft, for the Rural Advancement Foundation International-USA, May 2011.
- "Demographic and Economic Projections: North Carolina in 2040," subcontract to PBS&J, for the North Carolina Statewide Transportation Plan, North Carolina Department of Transportation, March 2011.
- "The Economic Impact of the Proposed National Banjo Center," for Piedmont Folk Legacies, June 2010.
- "The Economic Impact of UNCG's Proposed School of Pharmacy," for The University of North Carolina at Greensboro, April 2010.
- "State Wine Regulations," for The North Carolina Wine and Grape Council, April 2010.
- "The Economic Impact of the Natural Science Center of Greensboro," for the Natural Science Center of Greensboro, February 2009.
- "An Economic Analysis of Case Management in Guilford County," with Christopher Ruhm, for the Moses Cone Wesley Long Community Health Foundation, November 2008.
- "Economic and Demographic Projections: North Carolina in 2020 and 2030," subcontract to North Carolina State University's Institute for Transportation Research and Education, for the NC Logistics Plan, North Carolina Office of State Budget and Management, April 2008.
- "Guilford County's Retail 'Exports'," for the Greensboro Merchants Association, April 2008.

#### RECENT NEWSPAPER AND MAGAZINE ARTICLES

- "Lost Household Services in Lost Wages Projections," Triangle Attorney at Law, January 2025
- "Life-Care Plans and the Forensic Economist," Triangle Attorney at Law, September 2024
- "What For? The But-For Scenario," Triangle Attorney at Law, June 2024
- "Wrongful Death Cases Can Be Tricky, Triangle Attorney at Law, February 2024
- "Could ChatGPT Be Your Next Expert Witness?," Triangle Attorney at Law, August 2023
- "Covid-19, Life Expectancy, and Economic Damages," Triangle Attorney at Law, February 2023
- "Hedonic Damages in Civil Litigation," Triangle Attorney at Law, October 2022
- "Daubert Challenges from an Economist's Perspective," Triangle Attorney at Law, June 2022
- "Lost Profit in Business Litigation," Triangle Attorney at Law, February 2022
- "Boom Supersonic Takes Flight," Greensboro News & Record, January 30, 2022
- "What the Pandemic Did to Your Business and My Business," Triangle Attorney at Law, October 2021
- "Economic Damages Playing Bigger Role in Med-Mal Cases," Triangle Attorney at Law, May 2021
- "A Decade of Interesting Economic Policy in N.C.," Triad Business Journal, January 17, 2020
- "When Giving, Remember the Cost of Unintended Consequences," *Triad Business Journal*, December 6, 2019
- "Trump in a Landslide?," Triad Business Journal, October 25, 2019
- "Don't Oversell the Creative Economy," Triad Business Journal, October 4, 2019
- "Recessions Remember Them?," Triad Business Journal, September 6, 2019
- "State Health Plan: A Game of Chicken?," Triad Business Journal, August 2, 2019
- "Let's Dive Into the Triad's Payroll Puzzle," Triad Business Journal, May 31, 2019
- "Treading Water: It's Worse Than I Thought," Triad Business Journal, April 26, 2019
- "The Life Cycle in Forensic Economics," Triangle Attorney at Law Magazine, April 2019
- "The Yield Curve Inverted! The Yield Curve Inverted!," Triad Business Journal, March 29, 2019
- "Democratic Socialism or Social Democracy?," Triad Business Journal, March 1, 2019
- "NFL Drug Testing and the Sexes of Grandchildren," Triad Business Journal, December 28, 2018
- "Flipping the Bird at Pedestrians in the Triad?," Triad Business Journal, November 30, 2018
- "Trump, Media Confused on 'Time Value of Money'," Triad Business Journal, October 26, 2018
- "Reflecting on Triad Workforce, 20 Years Later," Triad Business Journal, September 14, 2018
- "Medicare For All: Too Costly or Worth the Risk?," Triad Business Journal, August 30, 2018
- "The Economic Outlook: Rosy, Gloomy, or Iffy?," Triad Business Journal, August 3, 2018
- "If Labor is Scarce, Why Aren't Wages Rising More?," Triad Business Journal, June 29, 2018
- "Are Rising Gasoline Prices an Omen of Recession?," Triad Business Journal, June 1, 2018
- "Medicaid Expansion: It's Still Not Too Late for North Carolina," *Triad Business Journal*, March 30, 2018

- "Can We Really Win a Trade War?," Triad Business Journal, March 9, 2018
- "Loss of Auto Plant Hurts Even More the Second Time," Triad Business Journal, January 26, 2018
- "Here's What the Triad Should Be Watching in 2018," Triad Business Journal, January 5, 2018
- "Can Greensboro-High Point's land Amazon's HQ2?," Triad Business Journal, November 24, 2017
- "Police Pursuits and the Value of a Statistical Life," Triad Business Journal, October 27, 2017
- "Celebrate Labor Day by Debunking Workforce Myths," Triad Business Journal, September 1, 2017
- "The Occasionally Curious World of Forensic Economics," *Triangle Attorney at Law Magazine*, September 2017
- "A Tale of Two, or Perhaps Five, North Carolinas," Triad Business Journal, July 28, 2017
- "Cutting Retiree Health Benefits is Penny-Wise and Pound-Foolish," *Triad Business Journal*, June 30, 2017
- "Public Cruelty as Economic Policy," Triad Business Journal, May 26, 2017
- "Auctions in the Air," Triad Business Journal, April 28, 2017
- "HB2 Means Slower Growth for North Carolina," Triad Business Journal, March 31, 2017
- "U.S. Labor Markets are Returning to (Almost) Normal," Triad Business Journal, February 24, 2017
- "Will U.S. Economy Suffer from a Trump Recession?," Triad Business Journal, January 27, 2017
- "Why is HB2 Still with Us? It's the Urban/Rural Divide," Triad Business Journal, January 13, 2017
- "Can President Trump Bring Back Manufacturing Jobs?," Triad Business Journal, December 2, 2016
- "This Year, the Economy Favors Neither Candidate," Triad Business Journal, October 28, 2016
- "North Carolina is Suffering from Self-Inflicted Wounds," Triad Business Journal, October 24, 2016

#### RECENT PUBLIC PRESENTATIONS

- "Writing Opinion Columns": UNCG Young Writers' Camp, 7/14/23 and 7/12/19
- "Brief Economic Update": Summit Rotary Club, 6/2/23; Institute of Management Accountants, Triad Chapter, 10/18/18; Edward R. Murrow Kiwanis, 8/14/18; Temple Emanuel, 11/1/17; Gate City Rotary Club, 8/17/17; Greensboro Kiwanis Club, 1/12/17; Institute of Management Accountants, Triad Chapter, 10/20/16; Crescent Rotary Club, 10/10/16.
- "Coronavirus Economics": Temple Emanuel, 7/29/20; Gate City Rotary Club, 5/14/20.
- "'60 by 30': The Impact of Educational Attainment in Guilford County": Community Foundation of Greater Greensboro, 5/22/20 and 2/25/20.
- "U.S./North Carolina Economic Update": Piedmont Triad Apartment Association, 1/17/20; Society of Financial Service Professionals, 2/20/18; Alamance Community College Foundation, 9/17/17; Society of Financial Service Professionals, 1/17/17; Bernard Robinson & Co., 10/25/16, 10/27/16; Society of Financial Service Professionals, 1/19/16.
- "Forensic Economics": UNCG chapter of National Association for Business Economics, 1/31/18.
- "Economic Update for the U.S. and the Transportation Sector": Transplace Southeast Carrier Symposium, 1/18/18, 11/10/16.

- "Triad Economic Update/The Triad Business Index": Moderate Chic Club, 8/25/16.
- "The Economics of the Minimum Wage": Southern Guilford Rotary Club, 7/19/16.
- "Economic Implications of USPS Privatization": Grand Alliance to Save our Public Postal Service, 6/29/16.
- "The Economics of Immigration": Holy Trinity Episcopal Church, 3/6/16.

#### **ACADEMIC PUBLICATIONS**

- "Trends in Cooperative Research Activity: Has the National Cooperative Research Act Been Successful?" (with A. Link), in *Innovation Policy in the Knowledge-Based Economy* (edited by M. Feldman and A. Link), Kluwer Academic Publishers, 2001.
- "Advantageous Semi-Collusion," with Ram Shivakumar, Journal of Industrial Economics, June 1999.
- "Migraine Preventive Medications: A Reappraisal," with James Adelman, Randal Von Seggern, Lisa Mannix, and Alan Rapoport (2nd author), *Cephalalgia*, November 1998.
- "Domestic versus International R&D Spillovers," with Ram Shivakumar, *Economics Letters*, October 1997.
- "R&D Cooperation and the Joint Exploitation of Cooperative R&D," with Ram Shivakumar, *Canadian Journal of Economics*, August 1997.
- "Economics as One of the Humanities: A Comment," *Southern California Interdisciplinary Law Journal*, Winter 1995.
- "Can Green Trade be Free Trade?," Global Perspectives, Summer 1994.

#### RECENT PROFESSIONAL AND COMMUNITY SERVICE

- 2020-present: President, Finance Chair, and member of Board of Trustees, Temple Emanuel, Greensboro, NC
- 2006–20: Vice President, Campaign Chair, and member of Board of Trustees, Greensboro Jewish Federation.
- 2000–12: President, Vice President for Education, and member of Board of Trustees, Temple Emanuel, Greensboro, N.C.
- 2010-11: Member, Campaign Planning Committee, Community Theatre of Greensboro.
- 2006–2010: Faculty advisor, Hillel, The University of North Carolina at Greensboro.
- 2003–2005, 2006–2010: Vice President and member of Board of Directors, Association for University Business and Economic Research.
- 1999-2005: Member, Board of Directors, American Civil Liberties Union of North Carolina.
- 2001–02: Member, Action Greensboro task force on Attracting and Retaining Young Professionals.
- 2000–02: Member, Technical Advisory Team, City of Greensboro Comprehensive Plan, Greensboro, N.C.
- 1999–2000: Chair, Living-Wage Study Committee, City of Greensboro, N.C.
- 1999: Member, Citizen's Advisory Board, Department of Storm Water Services, City of Greensboro, N.C.



## **Appendix C**

# Four-Year Testimony Log for Dr. Andrew Brod As of May 8, 2025

- Estate of Guadalupe Vazquez-Alvarado v. Stellar HVAC LLC, et al Damages expert for plaintiff's counsel, Riddle & Riddle LLP Deposed: February 18, 2025
- 2. Sopheap Pang v. Wake Forest University Baptist Medical Center, et al Damages expert for plaintiff's counsel, Law Offices of Gregory Kash Deposed: January 31, 2025
- 3. Filomeno Orozco Vaquero v. Toll NC II LP, et al Damages expert for plaintiff's counsel, Bricio Law Firm Deposed: December 17, 2024
- 4. Aaron Casasola-Robles v. Ana T. Daley, R.N., et al Damages expert for plaintiff's counsel, Mills & Mahoney, PA Deposed: November 19, 2024
- 5. Clifford Hyatt v. North Carolina Farm Bureau Insurance, et al Damages expert for plaintiff's counsel, Poisson, Poisson & Bower Testified at arbitration hearing: November 6, 2024
- 6. Gregory Burgess v. United States of America Damages expert for defendant's counsel, U.S. Department of Justice Deposed: February 22, 2024
- 7. Rachelle Robinson-Ware v. Keenen Menefee-Long Damages expert for plaintiff's counsel, Bullock, Clay & Furr, PLLC **Testified at trial: February 1, 2024**
- Jeffery Cambre v. Medical Imaging Center LLC, et al Damages expert for plaintiff's counsel, Anderson, Johnson, Lawrence & Butler, LLP Testified at trial: November 7, 2023 Deposed: May 3, 2023
- Estate of Larry Toney v. Atrium Health, Inc., et al Damages expert for plaintiff's counsel, Comerford, Chilson & Moser, LLP Deposed: July 5, 2023
- Estate of Worth Carter, Jr. v. Judith Szulecki, M.D.
   Damages expert for plaintiff's counsel, Young, Haskins, Mann, Gregory & Wall, PC
   Deposed: June 27, 2023

- 11. David Carmely v. United States of America
  Damages expert for defendant's counsel, U.S. Department of Justice
  Testified at trial: March 8, 2023
- 12. Estate of William Conti v. Jeremy Holdsworth, M.D., et al Damages expert for plaintiff's counsel, Melvin Law Firm Deposed: February 20, 2023
- 13. CIP Construction Company, et al v. Schindler Elevator Company Damages expert for plaintiff's counsel, Rossabi Law Partners Deposed: August 10, 2022
- 14. Donald Pearce v. Novant Medical Group, et al Damages expert for plaintiff's counsel, Melvin Law Firm Deposed: June 15, 2022
- Lorraine Rusch v. High Point Clinical Trials Center LLC, et al Damages expert for defendant's counsel, Rossabi Law Partners Testified at trial: April 1, 2022 Deposed: December 22, 2021
- 16. April Williams v. North Carolina Baptist Hospital, et al Damages expert for plaintiff's counsel, Melvin Law Firm Deposed: March 10, 2022
- 17. Estate of Jennifer Huddle Edwards v. William Lindel, MD, et al Damages expert for plaintiff's counsel, Gardner Barrow & Sharpe PC Deposed: February 28, 2022
- 18. Cecil Staton v. Harry Smith, et al Damages expert for defendant's counsel, Fox Rothschild LLP Deposed: January 19, 2022
- 19. Estate of Kristopher Parks v. D Benton, Inc. et al Damages expert for plaintiff's counsel, Riddle & Brantley Deposed: December 14, 2021
- 20. Juanita Danzy v. Coloplast Corp. et al Damages expert for plaintiff's counsel, Martin Baughman Deposed: December 10, 2021
- 21. Estate of Justin Haggard v. Todd Ellis et al Damages expert for plaintiff's counsel, Tatum Law Firm Deposed: November 10, 2021
- 22. Joyce Hardison v. Wanda Goodson
  Damages expert for plaintiff's counsel, Poisson, Poisson & Bower
  Testified at trial: May 21, 2021