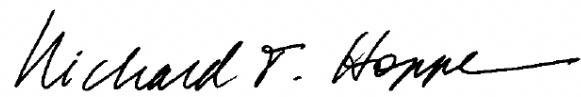


# Exhibit 389

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Date: February 3, 2025

Re: *Allan Howard vs. United States of America*

I am writing in response to your request for a medical expert evaluation of Allan Howard with respect to the relationship between his development of non-Hodgkin lymphoma and exposures to trichloroethylene (TCE), tetrachloroethylene (PCE), and benzene he experienced while stationed at Camp Lejeune from September 1977 to February 1979.

## **I. My Background**

I am a practicing physician, board-certified in Radiation Oncology by the American Board of Radiology. As my *curriculum vitae* reflects, my current academic appointment is as the Henry S. Kaplan-Harry Lebeson Professor in Cancer Biology and Professor of Radiation Oncology at Stanford University. Previously, I had been Chair of the Department of Radiation Oncology at Stanford and a member of the Board of Trustees of Stanford Hospital and Clinics. My professional career has been devoted to clinical management and research related to the lymphomas, including B-cell, T-cell, cutaneous lymphoma, and Hodgkin lymphoma. These activities are well reflected in my *curriculum vitae*, which includes more than 350 references in the peer-review literature related nearly exclusively to the diagnosis, evaluation, and treatment of lymphomas. In addition, I have contributed more than one hundred book chapters on the same subjects.

I serve on the Steering Committee of the International Lymphoma Radiation Oncology Group. I have been a member of the National Cancer Center Network (NCCN) Guideline Panel for the management of the Non-Hodgkin Lymphomas and currently serve on the T-Cell Lymphoma Panel, Cutaneous Lymphoma Panel, and I am Chair of the Hodgkin Lymphoma Guideline Panel of that organization. My previous service includes the Commission on Cancer of the American College of Surgeons, the Lymphoma Task Force of the American Joint Committee on Cancer, the People Living with Cancer Advisory Panel on Lymphoma of the American Society for Clinical Oncology, and the Board of Scientific Counselors of the National Cancer Institute, National Institutes of Health. In recognition of my contributions to the field of lymphoma, I have been awarded the Karl Musshoff Prize for clinical research from the German Hodgkin Lymphoma Study Group, the Lifetime Achievement Award from the International Society for Cutaneous Lymphoma, the Rodger Winn Award from the NCCN, and Gold Medals from the American Society for Radiation Oncology, the American College of Radiology, and the American Radium Society.

## **II. This Evaluation**

In order to conduct this expert medical evaluation, I reviewed and relied upon the following documents and reports:

- Medical records for Allan Howard from:
  - Department of Veterans Affairs, Dayton VAMC
  - Dayton Physicians Network

- Kettering Health
  - OSU Wexner Medical Canter
  - Ohio State University Medical Center
  - Quest Diagnostics
  - Kettering Health Network – VA Compensation Intake Center
  - ECP Dayton Med VA GOV
  - Digestive Specialists, Inc.
  - Kettering Health Dayton Pavilion
- Depositions of:
  - Allan Wayne Howard dated 2/16/2024 (Plaintiff)
  - Elizabeth Howard dated 5/7/2024 (daughter)
  - James Pieckenbrock dated 5/7/2024 (friend)
  - Dr. Ahmad Shabsigh
  - Dr. Saba Qureshi
  - Dr. Kelly Miller
  - David A. Savitz, PhD, dated 7/17/2024
- The Expert Report of Morris Maslia dated 10/25/2024
- The Expert Report of Dr. Kelly Reynolds
- The General Causation Reports of:
  - Timothy M. Mallon, M.D., M.P.H., MS.
  - Dean W. Felsher, M.D., Ph.D
  - Kathleen Gilbert, Ph.D
  - Steven B. Bird, M.D
  - Howard Hu M.D. M.P.H. Sc.D
- Short Form Complaint filed on behalf of Allan Wayne Howard on 7/15/24

In addition, I relied upon the peer-reviewed scientific literature that, in my opinion, is the most rigorous and relevant to the issues inherent in this evaluation. As appropriate, such evidence will be cited during this report.

### **III. Summary of Opinion**

It is my opinion that it is more likely than not that Mr. Howard's non-Hodgkin lymphoma (NHL), diffuse large B-cell lymphoma (DLBCL), was caused by his exposure to the contaminated water at Camp Lejeune.

I begin with a discussion of the chemicals in the water at Camp Lejeune, briefly turn to their causative effect of NHL generally, and then to the differential diagnosis etiology of Mr. Howard's NHL.

### **IV. Chemicals at Camp Lejeune**

Based on reports and testing, the water at Camp Lejeune contained TCE, PCE, benzene and the byproducts of their degradation.

### a. TCE

Trichloroethylene (TCE) is an industrial solvent that has been widely used in various applications, including degreasing metals and in the production of adhesives and paints. TCE has a biologic half-life of three days. In humans, it is metabolized to trichloroepoxyethane (TCE oxide), then to trichloroacetaldehyde, chloral hydrate and other metabolites including trichloroacetic acid, dichlorovinyl glutathione, and dichlorovinyl cysteine. Some of these metabolites may be more toxic than the parent compound.

Epidemiological studies indicate a link between TCE exposure and the development of non-Hodgkin lymphoma (NHL). Lymphoma is a cancer that affects the lymphatic system, a crucial part of the immune system. There are several mechanisms through which TCE may contribute to the development of lymphoma.

TCE is a genotoxic agent (a property of chemical agents that damages the genetic information [DNA] in a cell)<sup>1</sup> via both direct and indirect effects on the DNA. It may cause chromosome aberrations, chromosome breaks, and sister chromatid exchanges.<sup>2,3</sup> This genetic damage can lead to mutations that contribute to the development of lymphoma

TCE has been demonstrated to cause immune system dysfunction.<sup>4</sup> It has been shown to have immunotoxic effects, potentially altering immune function and leading to an increased risk of lymphoproliferative disorders, including lymphoma. Evidence from animal studies indicates that TCE exposure causes immunomodulation including autoimmune disease and immunosuppression.<sup>5</sup> Both autoimmune disease and immunosuppression are associated with NHL.<sup>6</sup> Studies conducted of Chinese factory workers exposed to TCE have observed alterations in immune function markers that have been associated with an increased risk of NHL, indicating that the associations observed between TCE and NHL are biologically plausible.<sup>7</sup> In another study of the cohort of Chinese factory workers, total lymphocyte counts decreased with increasing exposures to TCE. Similar exposure-response trends were observed for CD4+ T cells, CD8+ T cells, B cells and NK cells.<sup>8</sup> The study concluded that these results provided evidence that TCE exposure leads to immunosuppression, which is associated with an increased risk of NHL.<sup>8</sup>

Karami et al. conducted a meta-analysis of TCE exposure and risk of lymphatic and hematopoietic cancers.<sup>9</sup> They examined studies published between 1950 and 2011.<sup>9</sup> The meta-analysis for NHL included 293 NHL cases from 12 cohort studies and 8140 cases from 12 case-control studies.<sup>9</sup> Their conclusion was that the data supported an association between TCE exposure and increased risk of NHL (relative risk = 1.32, 95% confidence interval 1.14-1.54).<sup>9</sup> Scott and Jinot conducted another systematic review of the epidemiologic evidence for an association between TCE exposure and NHL.<sup>10</sup> They calculated a relative risk for developing NHL following TCE exposure to be 1.23 (95% CI 1.07-1.42) and for the highest exposure group to be 1.43 (95% CI 1.13-1.82).<sup>10</sup>

### **b. Benzene**

Benzene is a colorless, toxic chemical compound that is widely recognized as an environmental and occupational hazard. It is primarily used in the manufacture of chemicals, plastics, and synthetic fibers. Benzene exposure has been implicated as a causative agent in the development of NHL.

Research indicates that benzene is a hematotoxic agent,<sup>11</sup> meaning it can adversely affect the blood-forming organs, including the bone marrow. This toxic effect can lead to disruptions in the production of blood cells, including lymphocytes, which are crucial components of the immune system. Epidemiological studies have consistently demonstrated an association between benzene exposure and an increased risk of developing various hematological malignancies, including NHL.

There are several possible mechanisms by which benzene contributes to lymphomagenesis. Benzene metabolites can induce genetic mutations, compromise immune function, and promote inflammation, all of which may lead to malignant transformation of lymphocytes. Multiple studies show that it produces genotoxicity in the lymphocytes of exposed humans.<sup>12</sup> It may produce multiple cytogenetic abnormalities in lymphocytes, and it induces specific chromosomal changes associated with NHL in human lymphocytes. The immunosuppression induced by benzene may lead to decreased immunosurveillance. In a recent study of the cohort of Chinese factory workers, benzene exposure was associated with alterations in lymphoid cell types and B-cell activation markers indicative of immunosuppression that could result in an increased risk of NHL.<sup>8</sup> Chronic exposure to benzene is known to result in genetic and epigenetic alterations that enhance lymphocyte proliferation and survival, further contributing to the development of lymphoma.

Benzene has also produced lymphomas in animal studies.<sup>12</sup> Accordingly, there is considerable support for the realization that it can cause human lymphatic tumors.<sup>12</sup> Linet et al. conducted a large study of mortality among benzene-exposed workers in China.<sup>13</sup> They compared causes of mortality in 73,789 benzene-exposed workers with 34,504 non-exposed workers in 12 cities in China.<sup>13</sup> The benzene-exposed workers experienced increased risk for all-cause mortality.<sup>13</sup> Notably, the relative risk for NHL was 3.9 (95% CI 1.5-13).<sup>13</sup> In a large meta-analysis of human studies, Rana et al., reviewed 20 case-control and eight cohort studies that included 9587 patients with NHL.<sup>14</sup> They reported increases in the risk for a wide variety of lymphomas and specifically a doubling of the risk for diffuse large B-cell lymphoma.<sup>14</sup>

### **c. PCE**

Tetrachloroethylene (PCE) is a colorless, non-flammable liquid used for dry cleaning and as a metal degreasing solvent. It is regarded as a toxic substance, a human health hazard, and an environmental hazard. Numerous toxicology agencies regard it as a carcinogen.<sup>15</sup>

A study conducted in four Nordic countries found that high exposure to PCE was associated with an elevated hazard ratio for NHL of 1.23 (95% CI 1.00-1.52).<sup>16</sup> Furthermore, in a long-term mortality study of aircraft manufacturing workers, Boice et al. found an increased standardized

mortality rate of 1.70 (95% CI 0.73-3.34) for workers exposed to PCE.<sup>17</sup> In a long term follow up of the same study cohort, Lipworth et al. defined a standardized mortality ratio of 1.43 (1.00-1.98) related to PCE exposure and the risk for developing non-Hodgkin lymphoma.<sup>18</sup> Thus, the scientific literature supports an association between occupational PCE exposure and NHL.

## V. ATSDR

In light of the test results of the water at Camp Lejeune the Government conducted a number of studies of the water. The leading study is what is known as the ATSDR report (ATSDR).

The ATSDR Report, or more fully, the “ATSDR Assessment of the Evidence for the Drinking Water Contaminants at Camp Lejeune and Specific Cancers and Other Diseases”<sup>19</sup> published January 13, 2017, reviewed epidemiological studies involving TCE and PCE exposure conducted by the EPA,<sup>20</sup> IARC,<sup>21</sup> and NTP<sup>22</sup>; meta-analyses conducted by NCI researchers,<sup>9</sup> EPA,<sup>10</sup> and an IARC workgroup<sup>16</sup> for TCE and hematopoietic cancers. ATSDR utilized these reviews and meta-analyses to identify epidemiological studies for TCE and PCE. Meta-analyses of benzene and hematopoietic cancers<sup>23,24,25</sup> were used to identify epidemiological studies for benzene. In addition, literature searches using PubMed were conducted to identify epidemiological studies conducted after the meta-analyses and reviews were completed.

The ATSDR classified the evidence between exposure to the chemical agent and the development of cancer as “sufficient evidence for causation,” “equipoise and above evidence for causation,” “below equipoise evidence for causation,” and “evidence against a causal relationship.”<sup>19</sup> “Sufficient evidence” was further defined as sufficient evidence from human studies in which chance and biases (including confounding) can be ruled out with reasonable confidence, **or** there is less than sufficient evidence from human studies but sufficient evidence in animal studies and strong evidence that the agent acts through a relevant mechanism in humans.<sup>19</sup> Sufficient evidence from human studies could be provided by a meta-analysis and/or by several studies considered to have high utility.<sup>19</sup> Considerations with respect to the quality of the evidence included temporal relationship, consistent positive associations (e.g., risk ratio or odds ratio greater than 1.1), magnitude of the effect estimate, exposure-response relationship, and biological plausibility.<sup>19</sup>

“Equipoise and above” evidence implied that the evidence was sufficient to conclude that a causal relationship was at least as likely as not, but not sufficient to conclude that a causal relationship existed.<sup>19</sup> For example, if the degree of evidence from human studies was less than sufficient but there was supplementary evidence from animal studies and/or mechanistic studies that supported causality, **or** a meta-analysis did not provide convincing evidence (e.g., the summary risk estimate was close to the null value of 1.0, i.e.,  $\leq 1.1$ ), or if the meta-analysis observed a non-monotonic exposure-response relationship but there was at least one epidemiological study considered to be of high utility occurring after the meta-analysis had been conducted, in which an association between the exposure and increased risk of the disease of interest had been found and in which chance and biases could be ruled out with reasonable confidence, **or** a meta-analysis has not been conducted, but there was at least one epidemiological study considered to be of high utility in which an association between the

exposure and increased risk of the disease of interest had been found and in which chance and biases could be ruled out with reasonable confidence.<sup>19</sup>

The 2017 ATSDR report concluded, based upon its review, that there was sufficient evidence for causation between TCE exposure and the development of NHL, equipoise and above evidence for causation between PCE and the development of NHL and sufficient evidence for causation between benzene exposure and the development of NHL.<sup>19</sup> The data from the ATSDR Reports combined with the meta-analyses related to TCE exposure<sup>9,10</sup> provide compelling evidence that TCE exposure increases the risk for developing NHL. The ATSDR reports combined with the cohort study of Linet et al (2015)<sup>13</sup> provide a similar degree of evidence for the relationship between benzene exposure and NHL.

Based upon my years of experience, I agree with the ASTDR's definition of "at least as likely as not" or "equipoise and above." I also agree that TCE, PCE, and benzene all cause NHL, at least as likely as not.

## **VI. General Causation Reports of Drs. Felsher, Hu, Gilbert, Mallon, and Bird**

I have reviewed and considered the general causation reports of Drs. Felsher, Hu, Gilbert, and Bird. Based on my background, education, and experience, the reports of these experts are robust and reliable. All have concluded, as do I, that the contaminants in the Camp Lejeune water supply were sufficient to cause NHL. See, for instance, Felsher Report, p. 37-40; Gilbert Report, p.31-35.

## **VII. Concentrations of Contaminants at Camp Lejeune**

I have reviewed the expert report of Morris Maslia, dated October 24, 2024. Based on this report, Appendix H1 in particular, the concentrations of TCE were well in excess of 100 micrograms per liter of water during most of Mr. Howard's stay at Camp Lejeune, peaking at 546 micrograms per liter in December 1978. The MCL for TCE is 5 micrograms per liter. For PCE, levels were well above the MCL of 5 micrograms per liter for the vast majority of Mr. Howard's time on base. It peaked at 24 micrograms per liter – months in November and December of 1978.

I also have reviewed the expert report of Dr. Kelly Reynolds regarding the likely cumulative amounts of TCE, PCE and benzene that Mr. Howard ingested during his time at Camp Lejeune. Considering his days on base and cumulative contaminant exposure concentrations, and based upon his deposition-based informed activities, his cumulative consumption (total  $\mu\text{g}=\text{days} \times$  concentration per deposition exposure assumptions) for TCE ranged between 660,782 ppb ingested to 1,019,982 ppb ingested (depending on assumptions of ingestion), for PCE it was 27,780 ppb ingested to 42,882 ppb ingested (depending on assumptions of ingestion), and for benzene it was 7,859 ppb ingested to 12,132 ppb ingested (depending on assumptions of ingestion).

### **VIII. Plaintiff Allan Wayne Howard**

Allan Howard was 49 years old when he developed renal cell carcinoma. In September 2008, he was noted to have abnormal liver function studies on a pre-employment physical. In October, he underwent an abdominal ultrasound that showed a right kidney mass. A subsequent CT of the chest/abdomen/pelvis with contrast (10/31/2008) showed a large right renal mass with some calcification and some cystic and solid components. It was consistent with a renal cell carcinoma. The chest CT showed multiple bilateral pulmonary parenchymal and pleural-based nodules thought to represent either metastatic disease, granulomas or some benign process. An MRI of the head and a bone scan were negative for metastatic disease. He was asymptomatic, running 10 miles a day and working out six days a week.

On December 3, 2008, Mr. Howard underwent a right radical nephrectomy. Pathology revealed a clear cell cancer, Grade 2/4, 4.2 cm in greatest dimension. The tumor had a multilocular cystic component. There was focal lymphatic/vascular invasion. Surgical margins were clear. Treatment with high dose interleukin-2 (IL-2) was considered but never instituted. The presumed pulmonary metastases were ultimately considered to be benign nodules. He continued surveillance imaging through December 2016. On November 30, 2016, an MRI at OSU Wexner Medical Center noted that "*There are small to prominent multiple noticeable mesenteric lymph nodes in the central abdomen which are nonspecific. Confluent mesenteric node in the left abdomen ... measures 1.3 x 2.5 cm in size. No definite retroperitoneal lymphadenopathy...no discrete enlarged pelvic or inguinal nodes...essentially stable since the prior comparison CT dated 2014.*" On April 18, 2019, a computed tomographic scan of the thorax revealed "*No mediastinal or axillary lymphadenopathy.*" On July 26, 2020, he underwent a CT of the chest, and on May 23, 2019 he underwent a renal sonogram. The chest CT showed no evidence of adenopathy or masses. The renal sonogram demonstrated no retroperitoneal mass or lymphadenopathy.

In August 2020, Mr. Howard was in a bicycle accident and suffered two fractured ribs, a punctured lung, and a fractured pelvis. Imaging was performed at that time, including a CT of the chest, abdomen, and pelvis. No lymphadenopathy was reported. Several days later, on August 16, he had agonal respirations while at home and while being transferred to the hospital suffered a cardiac arrest for ~10 minutes during which time CPR was performed. He was diagnosed with a saddle pulmonary embolism. Another CT of the chest, abdomen, and pelvis was performed, and no lymphadenopathy was noted.

On June 7, 2023, at age 63, Mr. Howard was brought to the ER for elevated potassium levels. He was also complaining of intermittent right chest pressure/soreness brought on by certain movements. He complained of swelling in the lymph nodes in his armpits. Those nodes were mobile and nontender. A CT of the abdomen and pelvis was performed and showed bilateral inguinal lymphadenopathy, greater on the right (1.6-1.8 cm short axis dimension) than the left (1.2 cm short axis). Repeat potassium was 4.1 and there was mild hypercalcemia at 10.3 (nl. 8.5-10.2). He biked 30-40 miles a day but was complaining of some fatigue and body aches.

Mr. Howard was seen by his PCP, Dr. Qureshi, who first treated his enlarged nodes with antibiotics. When this was unsuccessful, he was seen by Dr. Kelly Miller, a hematologist-

oncologist. A flow cytometry evaluation of the blood was non-contributory (No Immunophenotypic evidence of monotypic B-cell, aberrant T-cell, or immature population). A CT of the neck and chest (8/14/2023) showed enlarged lymph nodes in the left posterior cervical chain and the left supraclavicular region. There was no adenopathy in his chest although possible new right upper lobe nodules were noted. By late July, he noted swollen lymph nodes on the left side of his neck. On August 30, 2023, he underwent a left neck lymph node biopsy that showed a B-cell lymphoma. A PET scan on September 25, showed lymphadenopathy above and below the diaphragm, meaning that he was stage III. He underwent additional percutaneous core inguinal lymph node biopsies (10/9/2023) for flow cytometry and microscopic evaluation. The diagnosis was confirmed as diffuse large B-cell lymphoma (DLBCL), germinal center type, bcl2/6 and c-myc negative. His lactate dehydrogenase (LDH) was normal. His revised International Prognostic Index (R-IPI) was 2 (2 adverse factors: stage III and age >60), which put him in a low-intermediate risk group (predicted progression-free and overall survival ~80%). He had no weight loss, but he did note night sweats.

On October 16, 2023, Mr. Howard started chemotherapy with polatuzumab-vedotin, rituximab, cyclophosphamide, doxorubicin, and prednisone (Pola-R-CHP). This was an appropriate choice of systemic therapy, as he had two adverse risk factors in the R-IPI [NCCN Guidelines].

Treatment was essential for this aggressive lymphoma. Following two cycles of therapy (November 22), a PET scan was repeated and showed interval resolution of the neck and pelvic lymphadenopathy. This was consistent with a complete metabolic response (Deauville 1). No clear evidence for residual or recurrent disease was seen. Another PET scan, performed after the fifth cycle of chemotherapy showed continued response. He received his final dose of chemotherapy (cycle 6) on February 19, 2024. Mr. Howard tolerated the chemotherapy well. He had the expected fatigue and an episode of cough/congestion. At his three-month follow up visit (May 10), he noted mild peripheral neuropathy and an improved energy level.

Mr. Howard's prognosis prior to starting therapy was for an ~80% likelihood of five-year progression free and overall survival. Although he has completed treatment successfully, his likelihood of disease relapse is ~10%. If his disease does relapse, he would be treated with significantly more intensive and potentially toxic therapy. In addition, there are potential late effects from the treatment he has already received. Doxorubicin chemotherapy is associated with late cardiac effects, especially acute heart failure, ischemic heart disease and atrial fibrillation. The cumulative incidence of cardiovascular events at 5 years among patients treated with standard chemotherapy for diffuse large B-cell lymphoma is 11.4%.<sup>26</sup> Rituximab is a known immunosuppressive therapy. It may result in long-term impaired immune health. In a large analysis of rituximab-treated patients by Shree et al., they found elevated incident rate ratios for many immune-related conditions, including viral and fungal pneumonias, meningitis, humoral deficiency, and autoimmune cytopenias.<sup>27</sup> These risks remained high even after 5-10 years of survivorship.<sup>27</sup> Should Mr. Howard experience a relapse of his disease or encounter any of these late effects of treatment it will compromise his life expectancy.

Prior to his diagnosis of lymphoma, Mr. Howard's past medical history included the renal cell cancer (noted above), multiple skin cancers (basal cell carcinomas), gynecomastia, prostatitis, hypothyroidism, prostatic hypertrophy, cataracts, diverticulosis, tubular adenoma of the colon and multiple musculo-skeletal injuries. He had a remote 2-pack year history of smoking. He

was stationed at Camp Lejeune during his military service. His father died of pancreatic cancer or cirrhosis at age 56. Mr. Howard worked as a police officer for 26 years, retiring in 2008.

## **IX. Camp Lejeune Connection to NHL in Mr. Howard**

At issue is the causal relationship between Allan Howard's exposure to trichloroethylene (TCE), tetrachloroethylene (PCE), and benzene at Camp Lejeune and his subsequent development of non-Hodgkin lymphoma (NHL).

Mr. Howard had been stationed at Camp Lejeune as a member of the Armed Forces from September 4, 1977 to February 8, 1979 (>15 months exposure) with annual leave taken as well. During that time, he lived and worked at Hadnot Point. According to the ATSDR 2013 Report (Hadnot Point: Chapter A Factsheet),<sup>28</sup> within the Hadnot Point service area, at times the drinking water concentrations exceeded the maximum contaminant level (MCL) for TCE from August 1953-January 1985. Reconstructed TCE concentrations in Hadnot Point drinking water reached a maximum level of 546 µg/L during December 1978.<sup>28</sup> The MCL for TCE is 5 µg/L. It was set in 1989. Within the Hadnot Point service area, drinking water concentrations regularly exceeded the MCL for PCE from September 1977-February 1979. The MCL for PCE is 5 µg/L. It was set in 1992. Reconstructed PCE concentrations in Hadnot Point drinking water reached a maximum level of 24 µg/L in November and December of 1978.<sup>28</sup> The MCL for benzene is 5 µg/L. It became effective in 1989. Within the Hadnot Point service area, drinking water concentrations exceeded the MCL for benzene in January 1979.<sup>28</sup> Reconstructed benzene concentrations in Hadnot Point drinking water reached a maximum level of 6 µg/L that month.<sup>28</sup>

During Mr. Howard's 449 days of exposure at Camp Lejeune, he would have likely been exposed to 5,937 ppb/l-M of TCE, 251 ppb/l-M of PCE, 343 ppb/l-M of vinyl chloride, and 70 ppb/l-M of benzene.

A water contamination study conducted in New Jersey in the 1990s examined 75 communities with TCE and PCE in drinking water.<sup>29</sup> The study found positive associations between TCE and PCE exposure levels—similar to or lower than those at Camp Lejeune—and NHL incidence. “The highest assigned TCE level was 67 ppb, the highest assigned PCE level was 14 ppb, the highest assigned total non-THM VOC level was 92.9 ppb.”<sup>29</sup>

NHL incidence among women was also associated with the highest TCE (>5 ppb) (RR = 1.36; 95% CI 1.08-1.70).<sup>29</sup> For diffuse large cell NHL and non-Burkitt's high-grade NHL among females, the RRs were 1.66 (95% CI 1.07-2.59) and 3.17 (95% CI 1.23-8.18), respectively, and 1.59 (95% CI 1.04-2.43) and 1.92 (95% CI 0.54-6.81), respectively, among males.<sup>29</sup> Perchloroethylene (PCE) was associated with incidence of non-Burkitt's high-grade NHL among females, but collinearity with TCE made it difficult to assess relative influences. The results suggest a link between TCE/PCE and leukemia/ NHL incidence.

## **X. Mr. Howard's Time and Exposure at Camp Lejeune**

Based on data provided, it appears that Mr. Howard spent almost 450 days living and working on Camp Lejeune in the Hadnot Point area. The military records reveal the following:

<b>Exposure Dates</b>	<b>Total Days</b>	<b>Exposure Location (Work and Residential)</b>
9/4/1977-9/30/1977	27	Hadnot Point
10/1/1977-10/31/1977	31	Hadnot Point
11/1/1977-11/18/1977, 11/29/1977-11/30/1977	20	Hadnot Point
12/1/1977-12/31/1977	31	Hadnot Point
1/1/1978-1/31/1978	31	Hadnot Point
3/7/1978-3/31/1978	25	Hadnot Point
4/1/1978-4/30/1978	30	Hadnot Point
5/1/1978-5/31/1978	31	Hadnot Point
6/1/1978-6/30/1978	30	Hadnot Point
7/1/1978-7/13/1978, 7/29/1978-7/31/1978	16	Hadnot Point
8/1/1978-8/31/1978	31	Hadnot Point
9/1/1978-9/30/1978	30	Hadnot Point
10/1/1978-10/31/1978	31	Hadnot Point
11/1/1978-11/30/1978	30	Hadnot Point
12/1/1978-12/28/1978	28	Hadnot Point
1/13/1979-1/31/1979	19	Hadnot Point
2/1/1979-2/8/1979	8	Hadnot Point
	449	

During his time at Camp Lejeune, Mr. Howard would do normal day to day activities—eating, drinking, showering, and cleaning with the contaminated water provided by the water system. According to testimony, Mr. Howard:

1. Drank a glass of water and a glass of “bug juice” (likely prepared with water) at breakfast each morning. With lunch he drank two glasses of water and with dinner another two glasses. (Howard p. 29-31)
2. In the field, he carried as many as four canteens filled with water, which he might refill on particularly hot days, consuming as many as six or seven canteens. The water came in “water buffaloes” which were tanks that held 400-500 gallons of water (Howard p. 32-34)
3. Most of the time he showered twice per day (5-10 minutes each). (Howard p. 24, 27)
4. In addition, he showered once per week for 30-45 minutes while cleaning his weapons (Howard p. 25-26)
5. He washed his T-shirts, boxers and socks weekly (Howard p. 44-45)
6. He trained in a swimming pool for a couple of days once a year for more than an hour (Howard 45-47)
7. He mopped the floors of the barracks daily for ~45 minutes with a deeper clean once a week that took almost a day (Howard p. 47)

Based upon these activities, Dr. Kelly Reynolds (cited above) estimated that his cumulative consumption for TCE ranged between 660,782 ppb ingested to 1,019,982 ppb ingested (depending on assumptions of ingestion), for PCE it was 27,780 ppb ingested to 42,882 ppb ingested (depending on assumptions of ingestion), and for benzene it was 7,859 ppb ingested to 12,132 ppb ingested (depending on assumptions of ingestion).

In my opinion, the level of exposure to TCE, PCE and benzene that Mr. Howard experienced during his 449 days living and working on Camp Lejeune was more than sufficient to cause his NHL and was substantial.

## **XI. Differential Diagnosis Methodology to Determine the Etiology of the NHL**

Based on the days of exposure and the levels of TCE, PCE, and benzene in the water during Mr. Howard's time at Camp Lejeune, it is my opinion that the contaminated water was more likely than not, the cause of Mr. Howard's NHL. This opinion is based on a differential diagnosis methodology.

The basis of a differential diagnosis methodology is to start with listing the potential causes of the condition, in this case, NHL, and then evaluating the likelihood of any given cause based on the evidence. Those potential causes for which there is no evidence can be discounted and those for which there is strong evidence, like the known exposure to the contaminated water, can be credited.

In this case, I have considered the known or potential causes of NHL. The only known or potential cause of the NHL here was the exposure to the water at Camp Lejeune.

For instance, when exposed to burning phosphorous on a single occasion while employed as a police officer, he was wearing a mask. (Howard p. 57-58). When maintaining his motorcycle he used only citrus-based degreasers, not petroleum based, and he wore protective gear including gloves, an N-95 mask and eye protection (Howard p. 58-60) There is also no evidence of any family history that is relevant (Howard p. 123-124), no evidence of other exposures to chemicals (Howard p. 60), and no medical history of any NHL precursors such as immunosuppression, autoimmune disease, infection with immunodeficiency virus or organ transplantation prior to his lymphoma diagnosis.

Considering the potential causes of the NHL in this case and the weak, or absent, evidence for all but the water at Camp Lejeune, I am left with the conclusion that the contaminated water was more likely than not the cause of Mr. Howard's NHL.

In a Bove et al. study in 2024, "Cancer Incidence among Marines and Navy Personnel and Civilian Workers Exposed to Industrial Solvents in Drinking Water at US Marine Corps Base Camp Lejeune: A Cohort Study" the authors compared the cancer incidence for marine and navy personnel stationed at Camp Lejeune vs. Camp Pendleton (where the drinking water was allegedly/purportedly not contaminated).<sup>30</sup> Bove et al. found that the hazard ratio for developing NHL for the comparison of Camp Lejeune vs. Camp Pendleton civilian workers was 1.19 (95%

confidence interval 0.83, 1.71) and for diffuse large B-cell lymphoma the hazard ratio was 1.48 (95% confidence interval 0.81, 2.70) (Table 5).<sup>30</sup>

Given the lack of any other risk factors for the development of NHL (e.g., immunosuppression, autoimmune disorders, HIV infection, EBV infection, hepatitis C virus infection, organ transplantation, familial history, or exposure to herbicides) and the increased risk for lymphoma among individuals exposed to TCE, PCE, and benzene, I conclude that it is more likely than not that in Mr. Howard's case the additive exposure to TCE, PCE and benzene increased the risk of and was likely a significant contributing cause of his diffuse large B-cell lymphoma.

Furthermore, I conclude to a reasonable degree of scientific and medical certainty that Mr. Howard's exposure to TCE, PCE and benzene while stationed at Lejeune was an independent cause of his lymphoma.

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## ATTACHMENTS:

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Rahimy E, ... **Hoppe RT**. Technical report: 3D-printed custom scalp shield for hair preservation in total skin electron beam therapy. *Tech Innov and Patient Support in Radiat Oncol* 2021 June; 18: 12-15.

Dworkin ML, ...**Hoppe RT**. Outcomes of adults with lymphoma treated with nonmyeloablative TLI-ATG and radiation boost to high risk or residual disease before allogeneic hematopoietic cell transplant. *Bone Marrow Transplant.* 2022 Jan;57(1):106-112. doi: 10.1038/s41409-021-01495-4. PMID: 34671121

Kovalchuk N, ...**Hoppe RT**, Hiniker SM. The Stanford Volumetric Modulated Arc Therapy Total Body Irradiation Technique. *Pract Radiat Oncol.* 2022 May-Jun;12(3):245-258. doi: 10.1016/j.prro.2021.12.007. PMID: 35182803

Horwitz SM, ... **Hoppe RT**, et al. T-Cell Lymphomas, Version 2.2022, NCCN Clinical Practice Guidelines in Oncology. *J Natl Compr Canc Netw.* 2022 Mar;20(3):285-308. doi: 10.6004/jnccn.2022.0015.PMID: 35276674

Marquez C, ... **Hoppe RT**, et al. Volumetric modulated arc therapy total body irradiation in pediatric and adolescent/young adult patients undergoing stem cell transplantation: Early outcomes and toxicities. *Pediatr Blood Cancer.* 2022 Jun;69(6):e29689. doi: 10.1002/pbc.29689. PMID: 35373904

**Hoppe RT**, et al. NCCN Guidelines® Insights: Hodgkin Lymphoma, Version 2.2022. *J Natl Compr Canc Netw.* 2022 Apr;20(4):322-334. doi:10.6004/jnccn.2022.0021.PMID: 35390768

Olsen EA, ...**Hoppe R**, et al. Primary cutaneous lymphoma: recommendations for clinical trial design and staging update from the ISCL, USCLC, and EORTC. *Blood.* 2022 Aug 4;140(5):419-437. doi: 10.1182/blood.2021012057.PMID: 34758074

Spinner MA, ... **Hoppe RT**, et al. Improved outcomes for relapsed/refractory Hodgkin lymphoma after autologous transplantation in the era of novel agents. *Blood.* 2023 Jun 1;141(22):2727-2737. doi: 10.1182/blood.2022018827.PMID: 36857637

Obeid J-P, ... **Hoppe RT**, Binkley MS. Investigating and modeling positron emission tomography factors associated with large cell transformation from low-grade lymphomas. eJHaem Volume 4, Issue 1. First published: 25 November 2022

Ngo N, ...**Hoppe RT**, et al. Improved organ sparing using auto-planned Stanford volumetric modulated art therapy for total body irradiation technique. Pediatr Blood Cancer. 2023 Oct;70(10):e30589. doi: 10.1002/pbc.30589. PMID: 37486149

Quaglino P, ...Hoppe R, Pro B, Swerdlow SH, Barosi G. Identifying and addressing unmet clinical needs in primary cutaneous B-cell lymphoma: A consensus-based paper from an ad-hoc international panel. Hematol Oncol. 2024 Jan;42(1):e3215. doi: 10.1002/hon.3215. PMID: 37649350

Alig SK, ...**Hoppe R**, et al. Distinct Hodgkin lymphoma subtypes defined by noninvasive genomic profiling. Nature. 2024 Jan;625(7996):778-787. doi: 10.1038/s41586-023-06903-x. PMID: 38081297

Shree T, ... **Hoppe RT**, et al. A clinical trial of therapeutic vaccination in lymphoma with serial tumor sampling and single-cell analysis. Blood Adv. 2024 Jan 9;8(1):130-142. doi:10.1182/bloodadvances.2023011589. PMID: 37939259

Binkley MS, ...**Hoppe RT** on behalf of the GLOW Consortium. International Prognostic Score for Nodular Lymphocyte–Predominant Hodgkin Lymphoma. Journal of Clinical Oncology *in press*

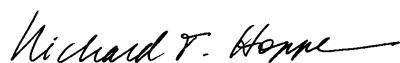
### **My testimony** in the past 4 years

Deposition and trial. October 2021. James Dato v. Shawn Devin Evans MD et al.  
San Diego County Superior Court  
Cynthia Chihak. Chihak & Martel, 12555 High Bluff Dr., Suite 150, San Diego CA 92130  
Represented plaintiff.

### **General Compensation**

\$400/hour for record review  
\$500/hour for preparation of reports  
\$1000/hour for depositions  
\$1500/hour for trial testimony  
Travel expenses including first class/business class airfare

# **RICHARD HOPPE'S CV**



## CURRICULUM VITAE

### RICHARD T. HOPPE, M.D., F.A.C.R.

Henry S. Kaplan-Harry Lebeson Professor in Cancer Biology  
Professor, Department of Radiation Oncology  
Stanford University School of Medicine

### EDUCATION AND DEGREES:

- |           |   |
|-----------|---|
| 1963-1967 | Cornell University, Ithaca, New York. BA, 1967<br>Major: Biological Sciences  |
| 1967-1971 | Cornell University Medical College, New York, New York. MD, 1971<br>Gustave J. Nobak Prize for Research in Anatomy (1969) |

### SCHOLARSHIPS AND HONORS:

- New York State Regents' Scholarship for the Study of Medicine (1967-1971)  
Phi Eta Sigma Honor Society (1964)

### POST-DOCTORAL TRAINING:

- July 1971-June 1972, Medical Intern, Cornell Cooperating Hospitals-North Shore Hospital, Manhasset, New York, and Memorial Hospital, New York, New York  
July 1972-September 1975, Post-Doctoral Fellow, Division of Radiation Therapy, Stanford University, Stanford, California  
1974-Chief Resident, Division of Radiation Therapy, Stanford University, Stanford, California  
October 1975-June 1976, Post-Doctoral Fellow, Cancer Biology Research Laboratory, Stanford University, Stanford, California

### ACADEMIC HISTORY:

- July 1976-September 1977 - Acting Assistant Professor, Department of Radiology, Division of Radiation Therapy, Stanford University School of Medicine, Stanford, California  
July 1976- present - Consultant, Palo Alto Veterans Administration Hospital, Palo Alto, California  
October 1977-August 1983 - Assistant Professor, Department of Radiology, Division of Radiation Therapy, Stanford University School of Medicine, Stanford, California  
September 1983-April 1989 - Associate Professor, Department of Radiation Oncology, (Department of Radiology, Division of Radiation Therapy, 1983-1986; Department of Therapeutic Radiology 1986-1987), Stanford University School of Medicine, Stanford, California  
May 1989 - Present - Professor, Department of Radiation Oncology, Stanford University School of Medicine, Stanford, California  
July 1994 – Present –The Henry S. Kaplan-Harry Lebeson Professor in Cancer Biology

### APPOINTMENTS:

- Director, Radiation Oncology Resident Training Program 1985-2000  
Acting Chairman, Department of Radiation Oncology, Stanford University School of Medicine, September 1992-July 1994  
Chairman, Department of Radiation Oncology, Stanford University School of Medicine, July 1994-2011  
Vice-Chairman, Department of Radiation Oncology, Santa Clara Valley Medical Center,

1994-2000  
Acting Chief of Radiation Oncology, Stanford University Hospital, 1992-1994  
Service Chief, Department of Radiation Oncology, (Stanford University Hospital) (Stanford Hospital and Clinics), 1994-2011  
Stanford-Emanuel Radiation Oncology Center (SERO) Board of Governors, 2005-2011  
Co-Director, Stanford Multidisciplinary Cutaneous Lymphoma Clinic, 1992-

## SERVICE:

### Editorial Boards

*Current Problems in Cancer*, Associate Editor, 1986-1991  
*Journal of Clinical Oncology*, Editorial Board, 1987-1989; 2008-2010; 2011-2013  
*International Journal of Radiation Oncology, Biology and Physics*,  
Associate Editor, 1988-1995; Editor 1995-2011  
Site Editor, Hodgkin's disease and malignant lymphomas, 1990-1994  
Editorial Board -2011  
*Oncology Times*, Editorial Board, 1990-  
*Advanced Medical Publishing*, Editorial Board, 1992-  
*The Cancer Journal from Scientific American*, Editorial Board, 1994-2000  
*Cancer Journal*, Editorial Board, 2000-2006  
*ACR Journal Advisor* (previously, *Internet Radiation Oncology Journal Club, Cogent Medicine*) Editor, Lymphoma Section, 1995-2018  
PDQ Extramural Board of Associate Editors, International Cancer Information Center,  
National Cancer Institute, National Institutes of Health, 1988-?  
*Clinical Lymphoma & Myeloma (Clinical Lymphoma)*, Editorial Board, 1999-2008  
*MDVista.com*, Editorial Board, 1999-2001  
NexCura.com, Medical Editorial Board 2000-2012  
*NCCN Journal*, 2002-

### Committees and Professional Activities

#### Stanford University:

Committee on Libraries of the Academic Council, 1980 - 1983  
Undergraduate advisor, 1980 – 1990  
Malcolm A. Bagshaw Memorial Resolution Committee, 2012

#### Stanford University School of Medicine:

Residency Review Committee, 1983 - 1984  
Task Force on Transplantation Medicine, 1985  
Department Senator, Stanford Medical School Faculty Senate, 1987 - 1990  
Cancer Center Program Steering Committee, 1991-1997  
Executive Committee, 1992 - 2011  
Quality Committee (Chair) 1995  
Search Committee, Director of Clinical Cancer Center 1995-6  
Task Force on Faculty Compensation 1996-1997  
Search Committee, Department of Medicine Chair, 1996  
Performance Bonus Work Group, 1997  
Chair, Clinical Chairs Group, 1997 -1999  
Finance Committee, 1999-2001  
Internal Governing Council 2000-2002  
Clinical Cancer Steering Committee, Chair, 2001-2004  
Search Committee, Cancer Center Clinical Director, 2003  
Advanced Residency Training at Stanford (ARTS) Review Committee, 2007-  
?Search Committee, Cancer Center Clinical Director, 2009  
Search Committee, Department of Medicine Chair, 2011

Stanford University Faculty Practice Program (integrated into Stanford Health Services in 1995):

Board of Directors 1992-1995  
Clinic Operations Committee 1992-1995  
Strategic Planning Committee 1992-1995  
Combined Modality Cancer Clinic Task Force 1992-1995  
Stanford Medical Review, Faculty Advisor, 1999-2000  
Stanford Molecular Imaging Scholars Program (SMIS) – Advisory Board, -2012

**Stanford University Hospital:**

Bone Marrow Transplantation Review Committee, 1987-2000  
Medical Board 1992-2000  
Service Chief, Department of Radiation Oncology, Sept. 1992-2011  
Quality and Organizational Performance Committee of the Hospital Board, 1996-1997

**Stanford University Medical Center:**

Graduate Medical Education Review Committee, 1989-1997  
Cancer Center Executive Planning Committee, 1993-1997  
Work Group on External Affiliations for the Medical Center, 1992-1994  
Clinical Cancer Center Steering Committee, 1997-2004; Chair 2001-2004

**Stanford University - Department of Radiology:**

Faculty Advisory Committee for The Faculty Practice Plan. 1979-1981  
Promotions Advisory Committee, 1983-1986 Chairman 1985-1986

**Stanford University - Department of Radiation Oncology:**

Director, Radiation Oncology Training Program, 1985-1998  
Clinical Sciences Planning Committee, 1987-1990  
Steering Committee, Patient Resource Center, 1989-1990  
Promotion Advisory Committee, 1989-1992  
Appointments and Promotions (A&P) Committee, Chair, 2012-  
Search Committee, GU Radiation Oncologist, 2011-2012  
Search Committee, Tenure-line Radiation Physicist, 2011-2012  
Search Committee, CNS Radiation Oncologist, 2012-2013  
Incentive Plan Subcommittee, 2012-  
Kaplan Fellowship Committee, 2015

**Stanford University – Department of Medicine:**

Search Committee, Director Division of Oncology, 2011-2012  
Search Committee, Division of Oncology, Faculty member for the lymphoma program, 2010-2015; 2021-2023

**Stanford Health Services (SHS)** (integrated into UCSF/Stanford Health Care in 1997):

Stanford Faculty Practice Group (SFGP) Governance Board 1995-1997  
Practice Operations Committee (Chair) 1995-1997  
Clinical Operations Steering Committee 1996  
Kaiser/Stanford Pathology Work Group 1996  
Medical Direction Task Force 1996-1997

**UCSF/Stanford Health Care** (Dissolved in 1999-2000)

Physician Board 1998-1999  
Contracts Committee 1998-1999, Co-Chair 1998-1999  
Clinical Policy Subcommittee 1997-1999  
International Advisory Committee 1998-1999

**Stanford Hospital and Clinics (SHC)**

Medical Board 2000-2008  
Medical Executive Committee, 2008-2011  
Board of Trustees 2000-2009  
Credentials and Policies/Procedures Committee 2000-2009  
Quality Committee 2000-2009  
Internal Governing Council 2000-2002

Contracts Committee 1999-2006  
Strategic Planning Group 2000-2002  
Adult Market Development Strategic Work Group Committee 2000-2001  
Payor and Pricing Strategic Work Group Committee 2000-2001  
Turnaround Committee 2001-2002  
Council of Clinical Chairs 2002-2011

**University of California, San Francisco**

Search Committee, Chair of Department of Radiation Oncology, 1998

**State/Regional:**

**California Radiological Society (CRS)**

Executive Committee 1993-2004

**Northern California Radiation Oncology Society (NCROS/NorCROS)  
(A Component Society of the California Radiological Society [District 12])**

Nominating Committee, 1985  
Secretary-Treasurer 1987-1989  
Vice President - 1989-1991  
President - 1991-1993  
Executive Committee, 1987-2004

**California Radiation Oncology Society (CROS)**

Secretary-Treasurer 1988-1989  
Vice President 1990-1991  
President 1992-1993

**California Medical Association (CMA)**

Scientific Advisory Panel on Radiology 1992-1993

**Los Altos Golf and Country Club**

Finance Committee, 2009-2012

**Northern California Cancer Center (NCCC)**

Clinical Research Steering Committee 1990-1991  
Board of Trustees, Alternate Member 1990-1991

**Northern California Oncology Group (NCOG) (Dissolved in 1990)**

Lymphoma Committee - Chairman 1984-1990  
Executive Committee 1984-1990  
Radiation Therapy Committee 1984-1990  
Protocol Committee, 1987-1990  
Publications Committee, 1988-1990

**National/International:**

**American College of Radiology (ACR)**

Fellowship, 1990  
Alternate Councilor, State of California 1993-1996  
Councilor, State of California, 1996-2004

Committee on Radiotherapeutic Equipment, 1981-1986  
Cancer Committee on Strategic Plan for Radiological Sciences, 1982-1983  
Item Writing Committee, Radiation Therapy In-Training Examination, 1983, 1985  
Committee on Patterns in Radiation Therapy, 1985-1987  
Commission on Radiation Oncology, 1996-1999; 2005-2013  
Joint ACR/ASTRO Committee on Economics, 1999-2001

Task Force on Weekly Treatment Management, 1997-1999  
Committee on Appropriateness Criteria - Expert Panel on Radiation Oncology –  
Hodgkin's Disease Work Group, 1997-2007, Chair 2004-2007  
Board of Chancellors 2005-2011  
Awards Committee, 2007-2009  
Governance Committee, 2009  
Commission on Human Resources, 2008-2012  
Bylaws Committee, 2011-2013

**American College of Radiology Imaging Network (ACRIN)**  
Advisory Panel 1999-2002

**American College of Radiology Patterns of Care Study (PCS)**

Site Surveyor, 1975  
Member, Advisory Committee, 1988-2006  
Chairman, Consensus Committee on Hodgkin's Disease, 1988-1994

**ECOG-American College of Radiology Imaging Network (ECOG-ACRIN)**  
Radiation Oncology Co-Chair E2410 - Phase II Trial of Response-Adapted  
Therapy Based on Positron Emission Tomography (PET) for Bulky Stage I and II  
Classical Hodgkin Lymphoma (HL) 2011-2012

**American College of Radiology Quality Research in Radiation Oncology (QRRO)**  
Executive Committee, 2008-2009

**American College of Radiology Association (ACRA),**  
Board of Trustees, 2005-2011  
Human Resources Commission, 2008

**Accreditation Council for Graduate Medical Education (ACGME)**  
Specialist Site Visitor in Radiation Oncology 1986, 1990  
Residency Review Committee for Radiation Oncology, 2003-2006  
Appeal Panel Member for Radiation Oncology, 2009-2022

**American Board of Radiology (ABR)**  
Trustee 1999-2007  
Secretary-Treasurer 2004-2006  
Executive Committee 2004-2006  
Examination Committee 1999-2007 (Chair 2002-2004)  
Relief Examiner for Oral Board Examination in Radiation Oncology, 1987;  
Guest Examiner for Oral Board Examination in Radiation Oncology, 1988, 1992,  
1995, 1998  
Task Force for Written Examination, 1990-1992  
Radiation Oncology Written Examination Committee 1992-2007  
Strategic Planning Committee, 2002-2007  
CME Program Planner, Radiation Oncology Written Exam, 2004  
Nominating Committee, 2006-2007  
Lifetime Service Award, 2010  
Committee on Lymphoma/Leukemia, 2011-2012

**American Cancer Society, California Division**  
Psychosocial Committee - Ad hoc member for grant review, 1984

**American College of Surgeons (ACoS)**  
Commission on Cancer

National Cancer Data Committee, Subcommittee on Non-Hodgkin's Lymphoma, 1996

**American Joint Committee on Cancer (AJCC)**

Lymphoma Task Force (for the 6<sup>th</sup> Edition), 1999~2000

Lymphoma Task Force (for the 7<sup>th</sup> Edition), 2005=

Hematological Malignancies Expert Panel for AJCC Cancer Staging System, 8<sup>th</sup> Edition 2014-

**American Medical Association (AMA)**

Graduate Medical Education Committee,

Specialist Site Visitor in Radiation Oncology 1986, 1990

Residency Review Committee for Radiation Oncology, 2003-2007

**American Radium Society (ARS)**

Resident Essay Committee, 1986 - 1989, Chairman 1987-1989

Janeway Lecture Committee, 2004-2007

Scientific Program Committee, 2005-2006

Representative to the ACR Board of Chancellors, 2005-2011

Executive Council, 2009-2011

**American Society of Clinical Oncology (ASCO)**

Cancer Education and Training Committee, 1981-1984

Program Committee 1982-1983, 1988-1991, 1998-1999

Public Relations Committee, 1984-1989

Nominating Committee, 1985-1986, 1987-1988, 1992-1993

Ad Hoc Committee to Review Federal Funding, 1985

Constitution and Bylaws Committee, 1987-1990

Oncology Training Programs Committee, 1996-1997

People Living with Cancer, Advisory Panel (Hodgkin's Disease and Non-Hodgkin's Lymphoma) 2005-

**American Society for Radiation Oncology (formerly, American Society for Therapeutic Radiology; American Society for Therapeutic Radiology and Oncology) (ASTRO)**

Board of Directors, 1993-1999

Member-at-Large, 1993-1995

President-Elect, 1995-1996

President, 1996-1997

Chairman, 1997-1998

Abstract Reviewer, 1995-1996, 2009, 2010

ASTRO International Relations Committee, 1995-2005

Chairman, 2000

ASTRO Awards Committee, 1996-2000

Chairman, 1998

ASTRO Program Committee, 1980-1981, 1985-1987

ASTRO Education Committee, 1983-1986, 1995-1997

ASTRO Radiation Research Committee (ex officio) 1996-1997

ASTRO Annual Meeting and Program Committee, 1989-1992, 1995-1997

Vice Chair, 1996

Chair, 1997

ASTRO Annual Meeting Site Selection Committee, 1996-1999

ASTRO Education and Development Fund, Board of Directors, 1993-1998

President, 1997-1998

ASTRO Government Relations Committee, 1997-1998

ASTRO Nominating Committee, 1997-1998

ASTRO Radiation Research Committee, 1995-1996

Ex-Officio Member, 1996-1997

ASTRO Practice Standards and Guidelines Committee, 1994-1995

ASTRO Finance Committee, 1994-1995  
ASTRO SCOPE of Radiation Oncology Working Group Steering Committee, 2000  
ASTRO Task Force on the Role of Rad. Oncology Endovascular Brachytherapy, 2000  
ASTRO Strategic Planning Committee, 1997-1999; 2002-  
ASTRO Public Relations Committee, 1995-1996  
ASTRO Economics Steering Subcommittee, 1999  
ASTRO Annual Meeting - Local Arrangements Sub-Committee 2000-2001  
SCOPE of Radiation Oncology Working Group Steering Committee – 200-2001  
ASTRO Fellows Task Force 2005  
ASTRO Fellows Selection Committee, Vice Chair 2005-2008; Chair 2008-  
Foundation Task Force 2005-2007  
Radiation Oncology Institute –  
Steering Committee, 2007  
Campaign Cabinet, Academic Co-Chair, 2007-2010  
Nominating Committee, 2011~2012  
ASTRO-ARRO Journal Club Faculty, 2010-2011  
ASTRO History Committee 2022-

**Cutaneous Lymphoma Foundation**

Medical Advisory Council 2017-

**Eastern Cooperative Oncology Group (ECOG)**

Lymphoma Committee, Co-Chairman for Radiation Therapy, 1991-1992  
Radiation Therapy Committee, 1991-1992  
Radiation Therapy Chair E2496 – Randomized Phase III Trial Comparing  
ABVD + Radiotherapy and the Stanford V Regimen  
in Patients with Intermediate or Advanced Stage Hodgkin Lymphoma

**GLOBAL NPHL (GLOW)**

Executive Committee  
Retrospective Analyses Oversight Committee

**HoLISTIC**

Advisory Committee (2019-)

**Institut National du Cancer (France)**

Reviewer for grant proposals, 2019

**International Database for Hodgkin's Disease**

Steering Committee 1990-1995

**International Harmonization Project in Lymphoma**

Member 2004-2007

**International Lymphoma Radiation Oncology Group**

Steering Committee, 2010-

**International Society for Cutaneous Lymphoma (ISCL)**

Board of Directors, 2011-2019

**International Society for Radiation Oncology (ISRO)**

Board of Directors, 1997-2001

Scientific Committee for ICRO 2001, 2000-2001

9/1/2023

1999-2002

**International Union Against Cancer (UICC)**

UICC Panel of Experts, 2001-2004

UICC TNM Expert Advisory on Lymphoma, 2002-2007, 2008-2012, 2013-2018

**KWF Kanker Bestrijding (Dutch Cancer Society)**

Reviewer of research proposals - 2003

**National Cancer Center Network (NCCN)**

Board of Directors, 2001-2004

Panel on Guidelines, Lymphoma, 1996-2017

Panel on Guidelines, Primary Cutaneous Lymphoma, 2017-

Panel on Guidelines, T-Cell Lymphoma, 2017-,

Panel on Guidelines, Hodgkin's Disease (Hodgkin Lymphoma), 1997- ; Chair, 1997-

NCCN Hodgkin's Disease Panel (Editorial Board), 2002-; Chair, 2002-

**National Institutes of Health, National Cancer Institute (NCI)**

Board of Scientific Counselors, 2005-2010

Lymphoma Steering Committee (LYSC)

Hodgkin's Lymphoma Working Group, 2011-  
2014

Clinical Trials Planning Meeting, Lymphoma Committee, Hodgkin Lymphoma  
Subcommittee, 2014

**Radiological Society of North America (RSNA)**

News Editorial Board, 2003-2009

Maintenance of Certification Subcommittee 2005-2007

Public Information Advisors Network 2003~2010

**Society of Chairs of Academic Radiation Oncology Programs (SCAROP) 1992-**

Board of Directors, Member at Large, 1996-1998

Education Committee, 1994-1996

President-Elect 1998-2000

President 2000-2002

Executive Committee 1998-2004

**Union for International Cancer Control**

UICC TNM Project – TNM Literature Watch, Lymphoma 2011-2019

**United States Cutaneous Lymphoma Consortium (USCLC)**

Membership Committee, Chair Radiation Oncology Section

Consultant to the Dean, University of Alabama School of Medicine, 1985

Consultant to the Dean, University of Texas Health Sciences Center at San Antonio, 1987

Consultant to the Dean, Emory University School of Medicine, 2004

Consultant to the Dean, University of Cincinnati College of Medicine, Charles M. Barrett  
Cancer Center 15-16 May 2007

**POST-DEGREE HONORS AND AWARDS:**

Diplomate:

National Board of Medical Examiners 1972

Certified, American Board of Radiology (Radiation Therapy) 1976 (Lifetime Certificate)

Re-Certified, American Board of Radiology (Radiation Oncology) January 1, 2016

Fellowship, American College of Radiology (FACR) 1990

Fellowship, American Society for Therapeutic Radiology and Oncology (ASTRO)

Fellowship, American Radium Society (FARS)

Licensure:

New York (112671) 1972

California (G23743) 1972

Awards:

Robert Reid Newell Memorial Award, Stanford University, Department of Radiology,  
1976.

American Cancer Society, Junior Faculty Clinical Fellowship, (1977-1980).

Agnes Axtell Moule Faculty Scholar (1979-1983).

Fellow, American College of Radiology, 1990

The Henry S. Kaplan Memorial Prize for Teaching, Department of Radiation Oncology,  
Stanford University, June 1991

The Janeway Award, American Radium Society, 2002

The American Society for Radiation Oncology (ASTRO) Gold Medal, 2006

Honorary Professor, Shantou University Medical College, Shantou, China, 2011  
American College of Radiology (ACR) Gold Medal, 2013  
Association of Residents in Radiation Oncology (ARRO) 2012-2013 Educator of the Year Award  
The Henry S. Kaplan Memorial Prize for Teaching, Department of Radiation Oncology, Stanford University, June 2017  
The Karl Musshoff Prize, The German Hodgkin Lymphoma Study Group, October 2018  
The Rodger Winn Award, from the National Cancer Center Network (NCCN), March 2019  
The Inaugural Gold Medal of the American Radium Society (ARS), April 2019  
Lifetime Achievement Award, International Society of Cutaneous Lymphoma, March 2020  
The Albion Walter Hewlett Award from the Department of Medicine, Stanford School of Medicine 2022 (awarded 2023)

Named Lectureships/Keynote Addresses:

Third Annual E. Richard King Memorial Lecture, Medical College of Virginia, Virginia Commonwealth University, November 2, 1995  
The First Philip Rubin Lecture: The Contributions of Radiation Therapy to the Management of Advanced Hodgkin's Disease. ICRO, Beijing, China, June, 1997  
The Second Annual Richard G. Evans Memorial Lecture, University of Kansas, September 10, 1999  
The Jerry Vaeth Lecture, San Francisco, 2001  
The Annual Oration in Radiation Oncology (Honoring Simon Kramer), Radiological Society of North America, November 28, 2001  
The Janeway Lecture, American Radium Society, April 30, 2002  
The Vera Peters Lecture, The Princess Margaret Hospital, June 6, 2002  
The Martin Schneider Memorial Lectureship, University of Texas Medicine Branch, September 30, 2003  
The John Ultmann Lecture, at the Sixth International Symposium on Hodgkin's Lymphoma, Cologne, Germany, September 15, 2004  
The Franz Buschke Lecture, UCSF, May, 2008  
Ho Hung-Chiu Medical Foundation Lecture, Hong Kong, 2010  
Keynote Lecturer at DEGRO-25 (Deutsche Gesellschaft fur Radioonkologie E.V.), June 2019  
Keynote Lecture at The Pediatric Hodgkin Consortium, February 2023 Palo Alto CA.  
Keynote Lecture at the Children, Adolescent and Young Adults Hodgkin Lymphoma International Meeting, October 2023, Memphis TN

"Bests/Who's Whos"

The Best Cancer Specialists in the US. Good Housekeeping, 1992  
The Best Doctors in America (Woodward/White), 1992, 1993, 1998  
The Best Doctors in America. American Health, 1996  
  
The Best Doctors in America: Pacific Region, 1996-1997  
Top Doctors in the Bay Area San Francisco Focus, 1997  
Best Docs in Silicon Valley. San Jose Magazine, 2000  
America's Top Doctors (Castle Connolly Medical, Ltd.) 2004, 2007, 2008, 2009, 2011 (11<sup>th</sup> ed.), 2013 (12<sup>th</sup> ed.), 2015 (14<sup>th</sup> ed.), 2016, 2017, 2018, 2020; Top Doctor for 15 Years 2020; 2021  
Bay Area Consumers' Checkbook, "Best Doctors", 2005, 2007  
Best Doctors in America (Best Doctors, Inc.) 2005-2006, 2007-2008, 2009-2010, 2011-2012  
Empire Who's Who Among Executives and Professionals in Education, 2006-2007  
America's Top Doctors for Cancer (Castle Connolly Medical, Ltd.) 2007, 2008, 2009, 2010, 2011 (7<sup>th</sup> ed.), 2018  
Patients' Choice Award (American Registry) 2008, 2009  
America's Top Radiologists (Consumers' Research Council of America), 2008

America's Top Oncologists (Consumers' Research Council of America), 2008  
Cambridge Who's Who Registry Among Executives and Professionals in the Field of  
Education and Research, 2009  
Presidential Who's Who among Business and Professional Leaders, 2010  
Cambridge Who's Who Registry of Executives and Professionals, 2011  
Who's Who in Medicine and Healthcare, 2011-2012  
US News and World Report Best Doctors in America, 2011  
Leading Physicians of the World (International Association of Health Care  
Professionals), 2012  
Top Doctors: San Francisco, 2012 (Castle Connolly Medical Ltd)  
Who's Who in America, 2011; 2013 (67<sup>th</sup> Edition); 2014 (68<sup>th</sup> Edition)  
Best Doctors in America 2013 database ([www.bestdoctors.com](http://www.bestdoctors.com)), 2019-2020  
Newsweek Health: Top Cancer Doctors 2015  
Who's Who Top Doctors "Honors Edition", 2015-2016  
San Francisco Magazine, Top Doctors 2015, 2018, 2021  
Top Doctors for Cancer (Castle Connolly), 2016, 2017, 2018  
Who's Who in the World (Marquis). 2018, 2020  
California Magazine Top Doctors, Top Oncologist 2020  
America's Most Honored Doctors (The American Registry) 2020

Visiting Professor:

Hebrew University, Hadassah Medical Center, Jerusalem, Israel, November 20-29, 1979  
Medical College of Ohio, Department of Radiation Therapy, Toledo, Ohio, January 20-22, 1987.  
University of Pennsylvania and the Fox Chase Cancer Institute, Department of Radiation  
Oncology, March 23-24, 1988.  
Bodine Center for Cancer Treatment, Thomas Jefferson University Hospital, Department of  
Radiation Oncology and Nuclear Medicine, Philadelphia, PA, Sept. 22, 1989.  
Duke University, Division of Radiation Oncology, Durham, NC, Nov. 17, 1989.  
Loyola University, Department of Radiotherapy, Chicago, IL, March 14-15, 1991  
University of Florida, Department of Radiation Oncology, Gainesville, FL, March 20-22,  
1991  
University of Kansas Medical Center, Department of Radiation Oncology, Kansas City, KS,  
July 31, 1991  
University of Pennsylvania and the Fox Chase Cancer Institute, Department of Radiation  
Oncology, Philadelphia, PA, February 5-6, 1992  
Mayo Clinic, Department of Radiation Oncology, Rochester, MN, March 4-6, 1992  
University of Wisconsin Comprehensive Cancer Center, Department of Radiation Oncology  
Madison, WI, November 17-18, 1993  
M.D. Anderson Cancer Center, Radiotherapy Department, Houston, TX, January 10-11,  
1994  
Professeur Invite en Cancerologie, Universite de Montreal, Reseau interhospitalier de  
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McGill University, Department of Oncology, Montreal, Quebec, Canada, March 2, 1995.  
Medical College of Virginia, Virginia Commonwealth University, Department of Radiation  
Oncology, Richmond, VA, November 2-3, 1995  
The University of Kansas Medical Center, Department of Radiation Oncology, Kansas City,  
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University of California, San Francisco, Department of Radiation Oncology, San Francisco,  
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University of Kansas, Kansas City, KS, Department of Radiation Oncology, September 10,  
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The Princess Margaret Hospital, Department of Radiation Oncology, Toronto Canada, June 6-7, 2002  
University of Maryland, Department of Radiation Oncology, Baltimore, MD, January 2008  
Queen Elizabeth Hospital, Hong Kong, China, April, 2010  
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Fox Chase Cancer Center, Department of Radiation Oncology, January 28, 2015  
University of Texas Southwestern, Department of Radiation Oncology, March 27, 2015  
University of Miami, Sylvester Comprehensive Cancer Center, Department of Radiation Oncology, January 15, 2016  
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The Mayo Clinic, Scottsdale AZ, May 4, 2018  
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## MEMBERSHIPS:

American Society for Radiation Oncology  
American College of Radiology  
American Society of Clinical Oncology  
Northern California Radiation Oncology Society  
California Radiological Society  
California Radiation Oncology Society  
American Society of Clinical Oncology  
American Radium Society  
European Society for Therapeutic Radiology and Oncology  
American Association for Cancer Research  
International Lymphoma Radiation Oncology Group  
International Society for Cutaneous Lymphomas  
Pacific Northwest Radiological Society (Hon.)  
Radiation Research Society  
European Society of Medical Oncology, Corresponding Member  
California Academy of Medicine  
Society of Medical Friends of Wine

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4. Hoppe R. Managing Hodgkin Lymphoma. What are the key issues in the NCCN Guidelines related to imaging patients with HL? FAQ. MedicalEd.com. August 12, 2015.
5. Hoppe R. Managing Hodgkin Lymphoma. Do you believe the updated Lugano Classification System for Hodgkin and Non-Hodgkin Lymphomas will lead to substantial change in how clinicians practice today? FAQ. MedicalEd.com. August 12, 2015.
6. Hoppe R. ASCO Post Video. Advances in lymphoma at ASTRO 2016. 27 September 2016.<http://www.ascopost.com/videos/2016-astro-annual-meeting/richard-t-hoppe-md-on-hodgkin-lymphoma-improving-outcome>

9/1/2023

# **RICHARD HOPPE'S FEE SCHEDULE AND TESTIMONY HISTORY**

**Richard T. Hoppe, MD**

**Testimony in the past 4 years**

Deposition and trial. October 2021. James Dato v. Shawn Devin Evans MD et al.  
San Diego County Superior Court  
Cynthia Chihak. Chihak & Martel, 12555 High Bluff Dr., Suite 150, San Diego CA 92130  
Represented plaintiff.

**General Fees**

\$400/hour for record review

\$500/hour for preparation of reports

\$1000/hour for depositions

\$1500/hour for trial testimony

Travel expenses including first class/business class airfare

# **RICHARD HOPPE'S PUBLICATION LIST**

## **Richard T. Hoppe, MD**

### **Last 10 years Publications**

#### **PUBLICATIONS – JOURNALS**

225. Hoppe RT, Harrison C, Tavallaee M, Bashey S, Sundram U, Li S, Million L, Dabaja B, Gangar P, Duvic M, Kim YH. Low-dose total skin electron beam therapy as an effective modality to reduce disease burden in patients with mycosis fungoides: Results of a pooled analysis from 3 phase-II clinical trials. *J Am Acad Dermatol.* 2015 Feb;72(2):286-92. doi: 10.1016/j.jaad.2014.10.014. Epub 2014 Dec 2. PMID: 25476993
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240. Binkley MS, Hiniker SM, Wu S, Natkunam Y, Mittra ES, Advani RH, Hoppe RT. A single-institution retrospective analysis of outcomes for stage I-II primary mediastinal large B-cell lymphoma treated with immunochemotherapy with or without radiotherapy. *Leuk Lymphoma.* 2016; 57(3):604-608. doi:10.3109/10428194.2015.1067700. Epub 2015 Jul 1. PMID: 26159046
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