

Tobacco vs. Agent Orange: Differentiating Causes of Veteran Illnesses

Introduction



***A defoliated area in Vietnam after Agent Orange spraying. Many U.S. veterans were exposed to this toxic herbicide, even as smoking was commonplace during service.*

Veterans of the Vietnam War today face a tragic legacy of health problems. Many of these illnesses – from deadly cancers to heart disease – could stem from their wartime exposure to Agent Orange, a dioxin-laden herbicide, or from heavy tobacco use during and after service. Sorting out the culprit behind each illness has been contentious. For years, some officials seemed to blame veterans’ own smoking habits while downplaying Agent Orange’s role – an attitude critics liken to a “tobacco cover-up.” This persuasive analysis will examine several key illnesses that overlap as presumptive Agent Orange conditions and known smoking-related diseases. By presenting supported evidence for each illness, we can differentiate between the impacts of cigarettes and chemical exposure – and show why veterans deserve the benefit of the doubt.

Big Tobacco’s Cover-Up and Its Impact on Veterans

It is now a well-established historical fact that the tobacco industry deliberately misled the public about the dangers of smoking for decades. A federal court in 2006 found that Big Tobacco had “lied, misrepresented and deceived the American public” about smoking’s effects for over 50 years (Perrone, 2017). Under court order, cigarette companies were finally forced in 2017 to run “corrective” ads admitting the deadly, addictive effects of smoking (Perrone, 2017). As one analyst noted, the industry’s strategy all those years was to “obstruct, delay, create confusion and buy more time” – classic hallmarks of a cover-up (Perrone, 2017).

For Vietnam veterans, this decades-long cover-up had real consequences. The war occurred in the 1960s, when nearly half of American adults smoked and health risks were not fully acknowledged (Associated Press, 2014; Perrone, 2017). In fact, the U.S. military itself supplied cigarettes in rations to troops, rationalizing that tobacco would “improve morale” – a practice that continued through the Vietnam era (Smith, Blackman, & Malone, 2007). Surveys show that over half of Vietnam War veterans were smokers during that time, a higher rate than among those who did not serve (McKinney et al., 1997). Many young soldiers became addicted in service before the Surgeon General’s warnings and anti-smoking campaigns took hold. Thus, by the time veterans started developing illnesses later in life, they had been exposed to a double whammy of carcinogens and toxins: years of cigarette smoke and, for those who served in Vietnam, the dioxin in Agent Orange.

The widespread smoking culture among veterans made it easy for skeptics to blame almost any illness on tobacco. Lung cancer? “He was a heavy smoker.” Heart disease? “Smoking and aging cause that.” Whether in good faith or as a convenient excuse, this reasoning often cast doubt on veterans’ claims that Agent Orange was responsible. However, we now know exactly what tobacco’s chemicals do to the human body, thanks to decades of research that Big Tobacco could not hide. Smoking is the leading preventable cause of death in the nation, killing about 480,000 Americans each year (Perrone, 2017). It causes numerous cancers, as well as cardiovascular and respiratory diseases (Perrone, 2017). Meanwhile, independent science has also confirmed that Agent Orange’s dioxin (TCDD) is a *powerful* human carcinogen linked to many of the same diseases (American Cancer Society, 2018). The challenge—for scientists and policymakers—has been to untangle these intertwined risks for Vietnam veterans. In the sections below, we examine major illnesses that both smoking and Agent Orange exposure can cause, presenting evidence and the odds of being affected by each one.

Lung and Respiratory Cancers: Smoking Gun vs. Chemical Exposure

Lung cancer is one of the most prominent diseases in this discussion because it is both presumed to be linked to Agent Orange and unquestionably caused by smoking. Cigarette smoking is by far the leading risk factor for lung cancer. According to the CDC, roughly 80% of lung cancer cases are attributed to smoking, while about 20% occur in people who have never smoked (Rudy, 2025; American Cancer Society, 2022). Practically speaking, a heavy smoker’s risk of developing lung cancer is roughly 20 times higher than that of a non-smoker (Freedman et al., 2011). Smoking also causes cancers of the larynx, trachea, and bronchus, which, along with lung

cancer, are classified as “respiratory cancers.” These are precisely the types of cancers that many Vietnam veterans developed later in life after both smoking and herbicide exposure.

So, did Agent Orange cause any of those cancers, or was it just tobacco? Research suggests it was likely *both*. Dioxin (the toxic contaminant in Agent Orange) is a confirmed human carcinogen (American Cancer Society, 2018). Animal studies in the 1980s showed that laboratory rats exposed to TCDD developed increased lung tumors (Institute of Medicine, 2014). Epidemiological studies on veterans have been more complicated due to the confounding effect of smoking, but there is evidence hinting at an Agent Orange role. The U.S. National Academies of Science have classified lung, bronchial, laryngeal, and tracheal cancers as having “limited or suggestive evidence” of an association with Agent Orange (American Cancer Society, 2018). “Limited/suggestive” means some studies found a positive link, though not conclusively due to possible confounders. In fact, in the initial years after Vietnam, government analysts questioned whether higher lung cancer rates in exposed soldiers were simply because “Vietnam veterans... smoke more heavily” on average (Kang et al., 2006; McKinney et al., 1997). Smoking was acknowledged as a “major confounding factor” when assessing Agent Orange’s impact on respiratory diseases (Institute of Medicine, 2014). However, some veteran studies managed to control for smoking and still observed elevated cancer rates. For example, one analysis of Air Force Operation Ranch Hand personnel noted a slight increase in lung cancer mortality that was unlikely to be fully explained by smoking differences.

Crucially, the Department of Veterans Affairs (VA) has long resolved this uncertainty in favor of veterans. As early as 1994, VA **presumed** all respiratory cancers to be connected to service for exposed Vietnam veterans. This means that if a Vietnam veteran developed lung cancer, they automatically qualify for disability benefits regardless of smoking history. Lawmakers intentionally set a low evidentiary threshold – the 1991 Agent Orange Act requires granting a presumption “if the credible evidence for the association is equal to or outweighs the credible evidence against” (U.S. Congress, 1991). In other words, if Agent Orange **possibly** contributed, the veteran receives the benefit of the doubt. This policy recognizes that while smoking caused most lung cancers, we cannot exclude the possibility that Agent Orange exposure played a significant role in many cases. In fact, many Vietnam vets had both risk factors: heavy smoking and exposure to toxic herbicide. Scientists warn that combined exposures could act synergistically – the carcinogens in tobacco smoke and the dioxin in Agent Orange both damage DNA and cell regulation, potentially speeding up cancer development.

In summary, smoking was the main cause of lung and respiratory cancers among most veterans, but Agent Orange likely added an extra risk for those exposed. Epidemiologists estimate that a non-smoking Vietnam veteran who was exposed to Agent Orange still faced a higher lung cancer risk than a non-smoker who was not exposed, though not nearly as high as a smoker’s risk. Meanwhile, a veteran who smoked and was exposed faced both major causes stacked against him. For the thousands of Vietnam veterans who have died of lung cancer, it is fair to say tobacco ignited the spark, but Agent Orange poured fuel on the fire. Given the difficulty of determining precise causes in individual cases, the policy presumption is morally justified. Veterans shouldn’t be denied benefits simply because they also smoked—especially since, as noted, the military and tobacco industry encouraged that habit during their service.

Bladder Cancer: A Deadly Convergence of Risks

Another cancer at the intersection of tobacco and Agent Orange exposure is bladder cancer. Bladder cancer illustrates how a disease can have two distinct causes – one civilian (smoking) and one military (herbicide) – each deadly on its own, and even worse in combination.

Medical research has long established that cigarette smoking is the leading cause of bladder cancer. Carcinogens inhaled in smoke enter the bloodstream and filter into urine, directly contacting the bladder lining. Smokers are at least three times more likely to develop bladder cancer than non-smokers, and smoking is estimated to cause about half of all bladder cancer cases (Freedman et al., 2011; American Cancer Society, 2022). In men (who make up the majority of Vietnam vets), studies indicate roughly 50–65% of bladder cancers are attributable to tobacco use (Freedman et al., 2011). Overall, smoking remains a major contributor to this disease.

For years, the VA did not list bladder cancer as a presumption for Agent Orange exposure, partly because earlier scientific reviews found the evidence too uncertain. Many veterans with bladder cancer were initially denied automatic benefits, often told that “smoking causes bladder cancer, not Agent Orange.” However, newer research and a re-examination of old data have changed that outlook. In 2016, the National Academy of Medicine (formerly IOM) upgraded bladder cancer to “limited or suggestive evidence” of a link to herbicide exposure (National Academies of Sciences, Engineering, and Medicine, 2016). One important VA study of Army Chemical Corps veterans (who sprayed herbicides) found a higher incidence of bladder cancer and other health issues in the exposed group, even after accounting for age and other factors (Veterans Health Administration, 2016). Scientists believe dioxin could contribute to bladder cancer through its systemic toxic effects—such as altering how the body metabolizes certain chemicals or causing chronic inflammation in organs. Following the shift in scientific consensus, VA recently added bladder cancer to the presumptive list (as of 2021). This was a hard-fought victory; internal documents show that by 2017, VA leaders wanted to add it, but White House budget officials initially objected, citing cost and “lacking” evidence (Chiaramonte, 2019). Ultimately, veterans’ advocates prevailed, arguing that even limited evidence should suffice when veterans’ lives are at stake. About 83,000 Vietnam veterans were estimated to suffer from bladder cancer or related conditions that would now be covered (Chiaramonte, 2019).

From a causation perspective, how do we differentiate tobacco from Agent Orange regarding bladder cancer? Statistically, smoking still causes most bladder tumors in veterans, similar to civilians. However, Agent Orange likely increased the risk for those exposed. For example, a veteran who never smoked but developed bladder cancer at 60 might have no obvious explanation until considering herbicide exposure. Conversely, a veteran who smoked two packs daily and also handled Agent Orange faced two significant risk factors. Studies revealed that veterans exposed to Agent Orange had a higher risk of bladder cancer even after accounting for smoking history (Veterans Health Administration, 2016). This indicates that dioxin added additional risk beyond smoking alone. Practically speaking, both smoking and Agent Orange exposure increased the likelihood of bladder cancer.

By recognizing bladder cancer as service-connected, the VA no longer requires veterans to prove the complex question of “which exposure did it.” Instead, the policy properly assumes that if you served in Vietnam and have bladder cancer, it’s considered related to service – even though we understand that smoking probably contributed in many cases. This duality doesn’t lessen the risk from smoking; it highlights that veterans faced carcinogens from multiple sources. Notably, tobacco companies never had to compensate veterans for smoking-related harm (they settled with states, not individuals), and the government once supplied the cigarettes. Therefore, providing VA benefits for these cancers helps to at least partly compensate veterans for all the toxic exposures they faced, whether from a pack of Marlboros or a military airship’s defoliant spray.

Heart Disease and Hypertension: Double Trouble for the Heart

Beyond cancer, Vietnam veterans have faced epidemic levels of cardiovascular disease as they aged. Ischemic heart disease (IHD) – which includes heart attacks, coronary artery disease, and other problems caused by clogged arteries – is the leading cause of death in the United States. It is also strongly linked to smoking. Decades of research show that smoking promotes atherosclerosis (plaque buildup in arteries), raises blood pressure, lowers good cholesterol, and increases the risk of blood clots. According to the American Heart Association, a smoker’s risk of coronary heart disease is 2–4 times that of a non-smoker (World Health Organization, 2018). In fact, smoking is so harmful to the heart that even secondhand smoke exposure significantly boosts heart attack risk (World Health Organization, 2018). By the numbers, smoking accounts for an estimated 1 in 4 of all cardiovascular deaths in the U.S. (Centers for Disease Control and Prevention, 2024) and was a major reason heart disease became a leading killer of Vietnam veterans after the war.

Yet again, Agent Orange appears as a hidden accomplice. Initial studies after Vietnam did not definitively link herbicide exposure to heart disease—partly because many ailing vets were lifelong smokers, complicating the picture. But over time, evidence of Agent Orange’s effects on the heart emerged. The landmark Air Force Ranch Hand study, which tracked those who sprayed Agent Orange, reported in 2000 that veterans with the highest dioxin levels showed concerning trends in heart health. Specifically, Ranch Hand vets experienced about a 26% increase in heart disease incidence compared to unexposed Air Force vets (Rhem, 2000). Although the absolute risk was difficult to determine—and notably, the 26% increase was not strictly dose-dependent at the highest dioxin levels—other indicators suggested a link: higher rates of hypertension (high blood pressure) and more previous heart attacks (seen on EKGs) were found in those with greater dioxin exposure (Rhem, 2000). The VA’s own scientists later conducted focused research on Army Chemical Corps personnel, finding that herbicide exposure was “significantly associated” with increased prevalence of hypertension in those veterans (Veterans Health Administration, 2016). High blood pressure, of course, is a key factor in strokes and heart failure. By 2016, the National Academy of Medicine concluded there was “suggestive” evidence linking Agent Orange to both hypertension and ischemic heart disease (National Academies of Sciences, Engineering, and Medicine, 2016).

These findings prompted a significant policy change. In 2010, the VA added Ischemic Heart Disease (IHD) to the Agent Orange presumptive list. Suddenly, tens of thousands of Vietnam veterans suffering from heart conditions became eligible for disability benefits – a move estimated to cost billions in the coming years (Associated Press, 2010). Some observers were shocked that such a common ailment (heart disease affects many older Americans regardless of service) would be considered service-connected. Indeed, internal debate was intense: a panel of scientists in 2008 called the decision “quite extreme,” noting only limited evidence and pointing to smoking, diet, and age as more obvious causes (Associated Press, 2010). But the VA leadership defended it, citing the legal standard of giving veterans the benefit of the doubt (Associated Press, 2010). The rationale was that if dioxin exposure even modestly increases heart disease risk, a Vietnam veteran’s heart attack might well be linked to service – especially since many were in their 50s or 60s (younger than typical civilian heart patients) when heart trouble began. As then-VA Secretary Dr. David Shulkin said, the law “requires the VA to act” once credible evidence meets the threshold, “without consideration of cost” (Chiaramonte, 2019). It was more important to avoid “losing” a deserving veteran in red tape than to worry over a few potential “false positives.”

Recently, VA also agreed to include hypertension on the presumptive list, which was authorized in 2022. This decision came after years of advocacy and mounting evidence, such as the VA study above that provided “strong evidence” linking herbicides to high blood pressure (Veterans Health Administration, 2016). Hypertension is very common among older men, so skeptics again asked: how can we tell if a Vietnam vet’s high blood pressure resulted from Agent Orange or from a lifetime of smoking, salty rations, and stress? The reality is likely a combination of both. Smoking definitely causes an immediate rise in blood pressure and, over time, stiffens arteries, contributing to chronic hypertension. Many Vietnam vets who smoked became hypertensive partly because of that. However, herbicide exposure probably added an extra 10–20% risk, according to epidemiologists. One theory suggests that dioxin disrupts endocrine and metabolic systems, leading to conditions like diabetes and hypertension, which then increase the risk of heart disease. Data from the Ranch Hand study showed an overall increase in heart disease risk among exposed individuals, but the highest-exposure group didn’t show a linear increase – possibly because extreme dioxin levels might have different physiological effects or simply due to statistical noise. Still, multiple indicators (blood pressure, ECG findings, cholesterol changes) all worsened with greater exposure. Altogether, these findings suggest that Agent Orange survivors face a higher risk of cardiovascular problems than their non-exposed peers, even if they never smoked or had other risk factors.

In summary, heart disease and hypertension in Vietnam veterans have dual causes. Cigarettes significantly damaged their cardiovascular health – a fact nobody disputes. However, Agent Orange was probably an independent factor contributing to many cases of heart problems among vets. Differentiating between the two is complicated; you can’t trace a specific heart attack and assign a percentage of blame to cigarettes versus dioxin. What we can do is analyze populations: Vietnam vets, particularly those with heavy exposure, experienced more heart issues than expected even after considering smoking. Therefore, society (through the VA) now recognizes that both factors contributed and provides compensation accordingly. This is another case where the earlier “tobacco cover-up” might have delayed awareness – after all, if for years the narrative was “smoking causes heart disease (and nothing else),” researchers might have been less likely

to detect an Agent Orange impact. Only by the 2000s, once the tobacco industry's cover had been lifted, could the more subtle effects of Agent Orange on cardiovascular health be identified.

Differentiating the Causes: Weighing the Odds and Statistics

Having explored the major illnesses (cancers, heart disease, hypertension) that are presumed Agent Orange conditions and definitively linked to smoking, what have we learned about differentiating between the two causes? Several key points emerge:

- **Tobacco's impact is enormous and measurable.** Thanks to decades of public health research, we have clear numbers: smoking causes about 80–90% of lung cancers, around 50% of bladder cancers, and perhaps 25–30% of heart disease deaths, among others (American Cancer Society, 2022; Centers for Disease Control and Prevention, 2024; World Health Organization, 2018). For any individual veteran who smoked heavily, it's safe to say their baseline risk for these diseases was already significantly raised by tobacco. Agent Orange's impact, on the other hand, is harder to measure because it affected a specific group and the data on it was often hidden or mixed with other factors. However, where good studies exist (like the Ranch Hand and Chemical Corps cohorts), we see relative increases in disease rates of about 20–50% for certain conditions among those exposed. These are notable increases, even if they are smaller than the risks caused by smoking.
- **Many veterans experienced both exposures**, making it scientifically challenging but not impossible to determine each one's contribution. Epidemiologists use multivariate analysis to control for smoking when examining the effects of Agent Orange. Even then, they find associations—such as for bladder cancer and hypertension—that probably wouldn't be observed if smoking were the only cause (Veterans Health Administration, 2016). This indicates that Agent Orange *did* cause some cases—perhaps a minority, but a real one. To illustrate with statistics: imagine 100 Vietnam vets with lung cancer; maybe around 80 of them can mainly attribute it to smoking, about 5 to Agent Orange exposure (if they never smoked), and the remaining 15 to a combination of both. For 100 vets with bladder cancer, perhaps around 50 are from smoking alone, fewer from Agent Orange alone, and a significant portion from both. These patterns vary by disease, but the main point is that the causes are not mutually exclusive—they often work together to increase risk.
- **The VA presumptive policy does not require distinction of individual cases.** A veteran doesn't need to prove that “Agent Orange caused my cancer instead of smoking.” If they have the disease and served in an exposure zone, it is presumed to be service-related. This approach is practical, as it recognizes uncertainty. It was introduced because holding each veteran to an impossible proof standard would be unjust. However, VA's policy has evolved over time in line with scientific evidence: diseases like lung cancer and non-Hodgkin's lymphoma were acknowledged early on, while others like bladder cancer and hypertension were added later after new studies indicated a likely connection (National Academies of Sciences, Engineering, and Medicine, 2016; Veterans Health Administration, 2016). The list's evolution shows that once the odds leaned toward an Agent Orange contribution, those illnesses were included. For instance, VA acted on diabetes in 2001 after research indicated even a slight increase in relative risk

with dioxin (Associated Press, 2010). Critics argued that obesity and genetics explained it better. But, as Dr. David Tollerud, who led an Institute of Medicine panel, explained, “Whatever the relationship...it’s a very small piece of the puzzle”—yet VA still granted the presumption to ensure no veteran was excluded (Associated Press, 2010). Essentially, if the evidence suggests Agent Orange even marginally raises the chances of a disease, that is enough to tip the legal balance.

- **Historical bias and cover-ups may have delayed recognizing overlaps.** It’s worth reiterating how the tobacco industry’s misinformation could have influenced this issue. In the mid-20th century, smoking was so normalized—and its health effects so publicly disputed—that the idea a chemical like Agent Orange could be causing cancers might have met extra skepticism—“Why blame Agent Orange when we know the guy smoked?” This mentality may have been convenient for authorities wary of costly compensation. Documents from veteran advocacy archives suggest that, in the 1980s, some government experts did indeed attribute veterans’ lung cancers and heart disease almost entirely to lifestyle factors. Only later, after Big Tobacco’s deception was exposed and smoking rates declined, did researchers revisit Agent Orange with fresh eyes. By the late 1990s and 2000s, the science of dioxin toxicology had advanced, and epidemiologists could no longer ignore the patterns in veteran health data. The tobacco cover-up ultimately failed, and ironically it underscored a lesson: corporate or government interests can obscure truth for a time, but facts and justice tend to prevail in the end. In 2025, we can firmly say that smoking and Agent Orange were both deadly, and both responsible for veterans’ suffering—and we have the evidence to back it up.

Conclusion

In a sense, Vietnam veterans who became ill later in life were battling two invisible enemies inside their bodies: one from their own cigarettes, and another from a chemical defoliant used during the war. The specific illnesses discussed – lung cancer and other respiratory cancers, bladder cancer, ischemic heart disease, hypertension, and more – have been scientifically linked to tobacco without any doubt, and also strongly linked to Agent Orange. Thanks to brave whistleblowers and thorough research, we know that Big Tobacco concealed the harms of smoking, addicting a generation of soldiers and civilians alike (Perrone, 2017). Those same veterans were also exposed to Agent Orange, a toxin now recognized to cause cancer and many other diseases (American Cancer Society, 2018). Differentiating between these two causes is not just an academic task – it determines whether a veteran’s illness is considered service-related. Because of the overlap, it is often impossible to assign blame clearly. But, as we have demonstrated, the odds and statistics show that both factors played significant roles.

For the illnesses discussed, one can get a general idea: Smoking alone could have caused many cases; Agent Orange alone probably caused some (especially in non-smokers); and the combination greatly increased the risk, meaning many cases were a result of both exposures working together. The U.S. government’s current stance, shaped by years of evidence and veteran advocacy, shows a compassionate understanding that veterans shouldn’t have to prove these scientifically complex issues. Instead, by assuming a service connection for these conditions, society recognizes that “yes, your illness may very well be because of your service –

whether it was the chemicals you inhaled in the jungle or the cigarettes you were almost issued as part of your rations.”

It took too long to reach this point. Bureaucratic doubts and budget worries delayed some assumptions for years. But shining a light on the truth – much like those court-ordered tobacco ads – helped turn the tide. Fox News analysts and reports have highlighted the historical cover-ups and the struggles of veterans waiting for relief. For example, investigative pieces have brought attention to how veterans were “still fighting an uphill battle” for Agent Orange benefits decades later (Chiaramonte, 2019), and how scientific findings on herbicide risks were initially downplayed until persistence paid off (Associated Press, 2010). Such coverage raised public awareness about the issue, creating pressure that ultimately pushed for action.

Today, it's clear and compelling: veterans' illnesses linked to smoking are also strongly connected to Agent Orange. It doesn't have to be one or the other—in fact, for Vietnam vets, it was tragically both. The statistics and evidence shown here support this conclusion. We need to keep studying and understanding each factor's impact, but more importantly, we must care for those affected. As a matter of justice, when in doubt, our default should be to support the veteran who answered the nation's call, rather than scrutinize the cause of their cancer or heart disease. After all, neither the tobacco companies nor the makers of Agent Orange warned them of the risks back then—quite the opposite, there was a deliberate cover-up of the dangers. We owe it to these veterans to cut through any remaining smoke and mirrors. They deserve acknowledgment that their illnesses are a result of their service, whether caused by the cigarette in their hand, the Agent Orange in the air, or a deadly combination of both.

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