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No. 83287-5-1

Case #: 1031351

**IN THE COURT OF APPEALS
OF THE STATE OF WASHINGTON,
DIVISION ONE**

KERRY L. ERICKSON; MICHELLE M. LEAHY; RICHARD A. LEAHY;
and JOYCE E. MARQUARDT,
Plaintiffs-Petitioners,

v.

PHARMACIA LLC, Delaware limited liability company, f/k/a
Pharmacia Corporation,
Defendant-Respondent.

PETITION FOR REVIEW

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INTRODUCTION

This petition presents three important, recurring, and unsettled questions of law that will immediately affect dozens of parallel pending cases, comprising the claims of more than two hundred victims of toxic chemical exposure and over \$1 billion in verdicts already handed down across eight trials. The legal issues presented—the constitutionality of a harsh statute of repose that extinguishes people’s claims before they even arise, the proper choice-of-law analysis for cross-border torts, and the framework for judicial gatekeeping of scientific testimony—are fundamental and cry out for review.

Division One reversed a landmark jury verdict awarding \$185 million in damages for injuries caused by exposure at a public school to toxic chemicals known as PCBs, which were made and sold by Monsanto for decades until they were banned worldwide. The plaintiffs proved at trial that Monsanto, from its Missouri headquarters, orchestrated a decades-long scheme to conceal the dangers of PCBs, elevating corporate profits above public health.

The threshold issue on appeal was Monsanto’s plea that this egregious Missouri-based conduct is completely immunized under

Washington’s twelve-year statute of repose for products-liability cases because the effects of the company’s scheme were not felt in Washington until many years later. Division One held that because the Washington Products Liability Act is an “integrated” statute, its repose provision automatically applies—without conducting *any* conflicts-of-law analysis.

If the harsh logic of the Division One’s decision is allowed to stand, the claims of injured Washington residents can be extinguished long before they ever arise, long before anyone could conceivably have discovered their cause, and in the case of every child plaintiff involved, long before the victim was even born.

This decision triggers two separate conflicts. First, it is contrary to this Court’s decision in *Bennett v. United States*, 2 Wn.3d 430, 539 P.3d 361 (2023)—which struck down an indistinguishable statute of repose under the Washington Constitution’s privileges and immunities clause—as well as the decisions of other state supreme courts that have struck down similar products-liability statutes of repose. Second, the decision below conflicts with this Court’s decision in *Johnson v. Spider Staging Corp.*, 87 Wn.2d 577, 580, 555 P.2d 997 (1976)—which requires, as a matter of Washington

common law, that choice of law be analyzed on an issue-by-issue basis---as well as the decisions of courts across the country that apply the law of the place of the manufacturer's conduct to the issue of repose. These include cases arising under state products-liability statutes just like this one---cases that Division One failed to acknowledge despite citing no authority for its unprecedented approach.

Over a dissent, the majority also held that the trial court erred by allowing an expert to testify about the PCB levels at the school. In the majority's view, the expert's case-specific deduction based on established techniques and use of simple arithmetic transformed his techniques into "novel" methodologies inadmissible under the *Frye* "general acceptance" standard. That decision implicates all seven other jury verdicts from seven other trials, and it parts ways with the views of six experienced Washington judges—including five trial judges who were specifically selected for their expertise in complex civil litigation. Because this decision is manifestly at odds with the governing framework for scientific evidence in civil cases and usurps the jury's primary role under the Washington Constitution, this Court's guidance is urgently required.

IDENTITY OF PETITIONERS AND COURT OF APPEALS DECISION

Kerry Erickson, Michelle Leahy, Richard Leahy, and Joyce Marquardt petition for review of Division One’s published decision issued on May 1, 2024.

ISSUES PRESENTED FOR REVIEW

1. Does a twelve-year statute of repose for products-liability actions, RCW 7.72.060, violate the Washington Constitution?
2. Under what circumstances may a court refuse to conduct the common-law choice-of-law analysis mandated by *Johnson v. Spider Staging Corp.*, 87 Wn.2d 577, 555 P.2d 997 (1976)?
3. When an expert applies established science to the facts, does the expert’s use of basic arithmetic or assumptions about data inputs justify precluding the jury from hearing that expert’s testimony?

STATEMENT

A. Factual background. In 2011, Sky Valley Education Center, a public school in Monroe, moved locations to what had once been the local middle school building. Tr. 3087-88. At the time, the plaintiff teachers—all beloved as “hard-working” and

“dedicated”—had been full of energy and in good health. Tr. 2531, 2971; CP16654.

That quickly changed. After the move, they experienced an “explosion of symptoms”: headaches, brain fog, memory problems, and fatigue—all indicative of neurological injury. Tr. 3131; Op. at 7. They weren’t alone. “[O]ver 100 parents, teachers and children ... reported illness that they associate[d] with the building.” P-2124 at 1.

Eventually, the likely cause became clear: PCBs. The school building was constructed in the 1960s, at a time when 95 percent of fluorescent-light ballasts contained PCBs. Tr. 1716-17, 1726-27. PCBs were also in the caulk. Tr. 1727-28. Although they didn’t understand the danger at the time, the teachers had seen brown liquid “leaking out of light fixtures.” Tr. 1762-63. And unbeknownst to them, PCBs escaped the lights and caulk in vaporized form, too. Tr. 1755-56.

The danger was real. As far back as the 1930s, Monsanto knew that PCBs caused “systemic toxic effects” and even death. Tr. 1318; D-20081. But with profits on the line, Monsanto repeatedly assured regulators and customers that PCBs were “singularly free of

difficulties.” P-212. For example, even though the Navy’s testing of PCBs killed all 150 rabbits exposed, P-162, Monsanto told another customer, one month later, that PCBs caused “no serious effects” in rabbits, P-163 at 1.

In 1966, around the time the Sky Valley building was being built, scientists exposed the true threat of PCBs: they escaped into the environment, were found in “children’s hair,” P-350 at 3, and were “as poisonous as DDT,” P-266 at 4. Over the next decade, Monsanto went on the defensive: Its lawyers directed reports to be “burn[ed],” P-653 at 59, while the company tried to “sell the hell out of [PCBs] for as long as we can,” CP18889. Even after PCBs were banned, Monsanto refused to acknowledge the problem, telling the public that PCBs were no more toxic than “common table salt.” P-956. It did this with full knowledge of the danger to the public in general and to schools in particular. Internally, Monsanto’s public relations team repeatedly flagged PCBs in schools as the company’s “sleeper issue.” P-3561.

B. Procedural background. After discovering that PCBs caused their injuries, over 250 Sky Valley teachers, students, and

family members sued to hold Monsanto accountable. The plaintiffs here were the first to have their day in court.

Trial began in June 2021 on claims for design defect, construction defect, failure to warn at the time of sale, and failure to warn post-sale after Monsanto obtained additional evidence of PCBs' dangers. The jury heard hundreds of hours of testimony from 46 witnesses, including more than a dozen experts, and saw thousands of pages of exhibits. After the seven-week trial, the jury returned a verdict for the plaintiffs on all claims.

Division One reversed. It held that the trial court should have applied Washington's twelve-year statute of repose, should not have permitted the plaintiffs to seek punitive damages on their post-sale failure to warn claim, and—over Judge Dwyer's dissent—should have excluded conclusions of the plaintiffs' PCB-exposure expert.

Following the decision, Monsanto's successor entity, Pharmacia, sought to compel the plaintiffs—public schoolteachers suffering from severe cognitive injuries—to pay nearly \$2 million in costs out of their own pockets. The plaintiffs have moved to defer a ruling on costs pending the resolution of this petition.

ARGUMENT

I. Division One's ruling on the constitutionality of the twelve-year repose period warrants review.

A. Division One's decision on the constitutionality of the twelve-year statute of repose in the WPLA, RCW 7.72.060, warrants this Court's review because it raises an important question of Washington constitutional law and conflicts with this Court's decision in *Bennett* and the decisions of other state supreme courts in analogous cases.

In *Bennett*, this Court held that a statute of repose conferring special immunity from tort liability violates the Washington Constitution's privileges and immunities clause if it lacks a sufficient "nexus" to "the legislature's stated purpose" that does not "rest solely on hypothesized facts." 2 Wn. 3d at 449.

The "nexus" here is far weaker than in *Bennett*. Division One identified a single legislative purpose in support of the statute of repose: "that retail businesses located primarily in the state of Washington be protected from the substantially increasing product liability insurance costs." Laws of 1981, ch. 27, § 1. But the legislature failed to identify any real-world basis for the notion that claims older than twelve years had any impact on liability insurance

rates. To the contrary, the Senate itself acknowledged that the evidence showed “that the concern about older products may be exaggerated,” refuting “the need and effectiveness of a statute of repose.” 1981 Senate J., Vol. 1 at 621, 625-26. In fact, only three percent of “product-related incidents occurred” more than six years after a product was purchased. *Id.* at 632.

Worse, because the WPLA’s twelve-year cutoff can be rebutted and is subject to exceptions, it has the potential to affect only a small fraction of those three percent of claims. That connection is far “too attenuated” to liability insurance rates to survive under *Bennett*. See *DeYoung v. Providence Med. Ctr.*, 136 Wn.2d 136, 149, 960 P.2d 919 (1998) (statute of repose covering “less than one percent” of claims was “too attenuated to survive” even rational basis scrutiny).

Other supreme courts have struck down products-liability statutes of repose enacted around the same time because the available evidence showed that these “individual state tort reforms” were unlikely to “stabilize product liability insurance rates,” *Lankford v. Sullivan, Long & Hagerty*, 416 So. 2d 996, 1002 (Ala. 1982), and were thus “incapable of achieving the avowed purpose,”

Berry By & Through Berry v. Beech Aircraft Corp., 717 P.2d 670, 681 (Utah 1985); *see also Dickie v. Farmers Union Oil Co. of LaMoure*, 611 N.W.2d 168 (N.D. 2000); *Kennedy v. Cumberland Eng'g Co.*, 471 A.2d 195, 201 (R.I. 1984); *Heath v. Sears, Roebuck & Co.*, 464 A.2d 288, 293 (N.H. 1983); *Bolick v. Am. Barmag Corp.*, 284 S.E.2d 188, 191-92 (N.C. Ct. App. 1981), *modified*, 293 S.E.2d 415 (N.C. 1982). Although the plaintiffs cited these decisions below, Division One ignored them.

B. Division One didn't dispute the evidence that older claims have no effect on insurance rates. Instead, it relied on a single sentence from a committee report (not the statute) hypothesizing that "an insurer's *perception* of potential claims ... very likely is reflected in rates"—regardless of whether that perception is "substantiated or not." Op. 26 (emphasis added) (quoting S. Select Comm. on Tort & Product Liability Reform, Final Report at 19 (Wash. Jan. 1981)).

Bennett's "exacting" standard demands more. *Bennett* held that a legislative finding that a statute "will tend" to reduce premiums wasn't enough to survive scrutiny. 2 Wn. 3d at 448. The WPLA doesn't even go that far. At best, it merely postulates the problem

(high insurance rates) the legislature sought to address. But it doesn't show what *Bennett* requires: that the statute of repose "in fact serves the legislature's stated goal" by reducing those premiums. *Id.* In fact, the evidence shows the opposite. The federal task force report on which the committee relied found that state-by-state solutions would be unlikely to affect premiums, which are set on a nationwide basis. *See* 44 Fed. Reg. 62,714 (Oct. 31, 1979). That alone shows that the statute of repose would not "in fact" serve its goal.

Nor does the statute even address what insurers claimed was their real concern: the need for "certainty." 1981 Senate J., Vol. 1 at 625 (insurers sought a clear line and "profess[ed] less concern regarding the actual time period selected"). The statute of repose—with its rebuttable twelve-year cutoff and many exceptions—could hardly be less certain. *See Olsen v. J.A. Freeman Co.*, 791 P.2d 1285, 1295 (Idaho 1990). It's no wonder that senators debating this statute concluded that repose would need to be resolved by a jury. 1981 Senate J., Vol. 1 at 614-15. That is precisely the opposite of what insurers claimed was needed to reduce insurance premiums.

* * *

Until now, no Washington case has applied the statute of repose to extinguish a victim's claim before she was born. No one should face this extreme rule before this Court addresses the serious constitutional objections that have carried the day in other courts.

II. Division One's unprecedented choice-of-law analysis warrants review.

Division One's decision also warrants review because its refusal to conduct a separate common-law choice-of-law analysis conflicts with the framework set forth by this Court and with the decisions of every other court to reach the question. Indeed, the court cited no precedent to support its novel approach.

1. In *Johnson v. Spider Staging*, this Court adopted, as a matter of Washington common law, the choice-of-law test from the Restatement (Second) of Conflict of Laws, which applies the law of the state with the "most significant relationship" to an "issue in tort." 87 Wn.2d at 580. "Each issue"—not each claim—under this test "receive[s] separate consideration." Restatement (Second) of Conflict of Laws § 145 cmt. d. Thus, under Washington's common law, "different issues ... may be decided according to the

substantive law of different states”—a rule referred to as *depeçage*.
Op. 10.

Under this common-law issue-by-issue test, courts choose the law governing “defenses to the plaintiff’s claim” by determining which state has the “most significant relationship” to *that issue*. *Id.* § 161. A statute of repose, “which exempts the actor from liability for harmful conduct,” is a separate issue “entitled to the same consideration in the choice-of-law process as is a rule which imposes liability.” *Id.* § 145 cmt. c. This Court in *Rice v. Dow Chemical*, 124 Wn.2d 205, 210, 213, 875 P.2d 1213 (1994), thus held that the WPLA’s statute of repose is “subject to conflict of laws methodology” and applied *Spider Staging* to “determine which state’s law applies” to repose.

In conflict with both *Spider Staging* and *Rice*, Division One held that applying the Second Restatement’s issue-by-issue analysis to the issue of repose was not “appropriate.” Op. 12. The court reasoned that, because “the legislature integrated the statute of repose’s limitation on liability into WPLA,” the limitation is “mandatory to the existence of a WPLA claim.” *Id.* at 18.

That was wrong. Repose is *not* an element of a WPLA claim but an *affirmative defense* on which the defendant bears the burden of proof. RCW 7.72.060(1)(a). The plaintiff can establish liability without even mentioning the date a product was first sold.

Contrary to Division One’s novel approach, ordinary choice-of-law principles control. Choice of law is “part of the common law” and thus “as definitely a part of the law as any other branch of the state’s law.” Restatement (Second) of Conflict of Laws § 5 cmt. a, c. For a statute to abrogate such common-law rules, “there must be *clear evidence* of the legislature’s intent.” *Dearinger v. Eli Lilly & Co.*, 199 Wn.2d 569, 575, 510 P.3d 326 (2022) (emphasis added). As this Court recently noted, the “WPLA itself recognizes this principle, stating, ‘The previous existing applicable law of this state on product liability is modified only to the extent set forth in this chapter.’” *Id.* (quoting RCW 7.72.020(1)). That “previous existing applicable law” includes *Spider Staging’s* adoption of depeçage. The court’s holding that an “integrated” statute is immune from choice-of-law analysis wrecks that common-law test. The decision allows not just the WPLA, but any statute to impliedly abrogate the common law.

The legislature could have directed choice of law on repose, but it didn't. The WPLA's language doesn't speak to the relevant question: whether the statute is "directed to choice of law"—that is, whether it "provide[s] for the application of the local law of one state, rather than the local law of another." Restatement (Second) of Conflict of Laws § 6 cmt. a. Such laws are rare. "Legislatures usually legislate . . . only with the local situation in mind" and "rarely give thought" to whether laws "should apply to out-of-state facts." Restatement (Second) of Conflict of Laws § 6 cmt. c.

If anything, the WPLA's statute of repose, far from requiring application to Missouri conduct, says the opposite. Its preamble says that the "intent of the legislature [was] that retail businesses located primarily *in the state of Washington* be protected from the substantially increasing product liability insurance costs." RCW 7.72.010 (emphasis added). The legislature's "intention to protect local businesses and manufacturers is not furthered by applying [Washington] law to immunize" Monsanto. *Martin v. Goodyear Tire & Rubber Co.*, 114 Wn. App. 823, 834-35, 61 P.3d 1196 (2003).

2. Division One's decision conflicts with every other court that has addressed whether to conduct a separate choice-of-law analysis for statutes of repose in products-liability statutes.

The New Jersey Supreme Court in *Gantes v. Kason Corp.*, for example, held that the plaintiffs' claims under Georgia's comprehensive products-liability statute were not subject to the statute's repose period and instead applied the law of the site of the tortious conduct to the issue of repose. 679 A.2d 106, 109 (N.J. 1996). Similarly, in *Marchesani v. Pellerin-Milnor Corp.*, the claims were governed by "the comprehensive Tennessee Products Liability Act," "of which the ten-year statute of repose is a component." 269 F.3d 481, 489 (5th Cir. 2001). Like Monsanto, the defendant claimed Tennessee's repose period was an "inseparable part of its substantive product liability law" and that depeçage "would destroy a deliberate and completely integrated statutory scheme." 2000 WL 33982512, at *28-33. The Fifth Circuit disagreed, applying the law of the manufacturer's home state because that state's interests "would be more adversely affected, if its law were not applied." *Marchesani*, 269 F.3d at 489.

Every other court to decide the issue has reached the same conclusion. *See, e.g., Bruce v. Haworth*, 2014 WL 834184, at *3 n.2 (W.D. Mich. 2014) (Michigan products-liability act doesn't bar Georgia law on repose); *Ehrenfeld v. Janssen Pharms., Inc.*, 2016 WL 7335922, at *7 (W.D. Tenn. 2016) (Tennessee products-liability act doesn't bar Kansas repose statute); *Sico v. Willis*, 2009 WL 3365856 (Tex. App. 2009) (declining to apply Texas repose statute); *Mitchell v. Lone Star Ammunition, Inc.*, 913 F.2d 242 (5th Cir. 1990) (similar for North Carolina statute); *Mahme v. Ford*, 900 F.2d 83 (6th Cir. 1990) (similar for Florida statute).

Division One didn't address any of these on-point decisions, which were cited below. Nor did it cite a single decision—by any court—adopting its contrary approach. Its only authority was a tentative draft of the in-progress Third Restatement, which it read to require that the same state's law govern both liability and repose. But the first page of the relevant chapter says the opposite: “Like the Restatement of the Law Second, Conflict of Laws, this Restatement analyzes and resolves choice-of-law problems in terms of individual issues.” Restatement (Third) of Conflict of Laws, Tentative Draft 4, Ch. 6, Introductory Note (2023). This means that

“different issues in a single case or claim”—including repose—may “be governed by different states’ laws.” *Id.*; see also *id.* § 6.11 cmt. h (recognizing repose as a separate issue for issue-by-issue analysis). Regardless, neither this nor any other court has adopted the Third Restatement, which is still in draft form. *Spider Staging* remains the law of this State until this Court holds otherwise.

This Court should grant review to bring this case back in line with Washington law and the national consensus.

3. Unlike the issue of repose, Division One recognized that punitive damages in this case are governed by the law of Missouri, the “state of most significant relationship with respect to the issue of damages.” Restatement (Second) of Conflict of Laws § 171 cmt. b. As this Court has explained, “a Washington court can award punitive damages under the law” of a state with a stronger interest in the issue. *Kammerer v. W. Gear Corp.*, 96 Wn.2d 416, 423, 635 P.2d 708 (1981).

The court of appeals, however, declined to apply Missouri law to allow punitive damages on one of the plaintiffs’ claims—that Monsanto violated a post-sale duty to warn of the danger posed by PCBs. Without citing any Missouri statutory or judicial authority,

the court asserted, without analysis or explanation, that Missouri “cannot be said to have an interest” in the issue because it “lacks a cause of action for post-sale failure to warn.” Op. 35.

In doing so, the court failed to engage in the careful “consideration of the interests and public policies” of each state required by *Spider Staging*. 87 Wn.2d at 582. As the plaintiffs explained below, Missouri recognizes a broad duty to warn users when a product is dangerous. See *Orr v. Shell Oil Co.*, 177 S.W.2d 608, 610 (Mo. 1943). And it has never limited that duty to the time of sale. Rather, the duty arises when “the fact is . . . established” that an “apparently harmless” product “contains concealed dangers.” *Johnston v. Uppjohn Co.*, 442 S.W.2d 93, 97 (Mo. App. 1969); see, e.g., *Lopez v. Three Rivers Elec. Co-op.*, 26 S.W.3d 151, 156 (Mo. 2000) (recognizing continuing duty to warn under Missouri law); *Stanger v. Smith & Nephew, Inc.*, 401 F. Supp. 2d 974, 982 (E.D. Mo. 2005) (recognizing a claim under Missouri law for post-sale duty to warn).

By holding that Missouri lacks an interest without actually analyzing Missouri law, interests, or policies, Division One functionally skipped the balancing of interests mandated by *Spider*

Staging. This Court should grant review and require application of the proper test.

III. The majority's decision to exclude opinions of the plaintiffs' exposure expert warrants review.

Finally, the majority's conclusion that the trial court erred in admitting opinions of Kevin Coghlan, an industrial hygienist with 30 years of experience, presents issues of substantial public interest and conflicts with this Court's test for evaluating experts' methodology. By the time Coghlan began work on this case, Sky Valley had remediated PCB levels in the school, and enough time had passed that PCBs in the plaintiffs' blood had dissipated. Tr. 1339-41, 1704-05, 1781-85, 2481. Coghlan therefore offered three independent estimates designed to "reconstruct the historical levels of PCBs in the air." Dissent 5. Although Monsanto conceded that Coghlan's opinions were based on generally accepted peer-reviewed studies, the majority held that two of the estimates failed *Frye* because he used simple arithmetic and made basic assumptions about data inputs.

That holding starkly conflicts with this Court's precedents on when and how *Frye* applies. And it brings about exactly what this Court has warned against: "Requiring general acceptance of each

discrete and ever more specific part of an expert opinion would place virtually all opinions based upon scientific data into some part of the scientific twilight zone.” *L.M. by & through Dussault v. Hamilton*, 193 Wn.2d 113, 130, 436 P.3d 803 (2019). That error itself warrants this Court’s review. But this Court’s oversight is especially important here, where the decision implicates verdicts in the eight cases in which Coghlan has testified, impacts scores of other plaintiffs, and parts ways with the views of six experienced judges.

A. *Frye* “requires experts to base their conclusions on generally accepted science.” *Id.* at 128. This precludes opinions based on “novel” theories or methodologies not yet approved by the scientific community. *Id.* The premise is that “judges do not have the expertise required to decide whether a challenged scientific theory is correct” and so “defer this judgment to scientists.” *State v. Copeland*, 130 Wn.2d 244, 255, 922 P.2d 1304 (1996).

But that is the extent of *Frye*’s reach. *Frye* itself explained that “courts will go a long way in admitting expert testimony deduced from a well-recognized scientific principle or discovery.” *Frye v. United States*, 293 F. 1013, 1014 (D.C. Cir. 1923). Consistent with that design, this Court has ensured that courts do “not require every

deduction drawn from generally accepted theories to be generally accepted.” *Anderson v. Alexo Nobel Coatings, Inc.*, 172 Wn. 2d 593, 611, 260 P.3d 857 (2011). “Other evidentiary requirements”—and the central role of the jury in weighing evidence—prevent “deductions that are mere speculation.” *Id.*; Dissent 4. By the same token, “concerns about [the] implementation” of a generally accepted methodology do not implicate *Frye*. *State v. Russell*, 125 Wn.2d 24, 55, 882 P.2d 747 (1994). Claims of “laboratory error,” “cross contamination,” “lack of controls,” and even outright data manipulation—all of which a jury, aided by cross-examination, is well equipped to assess—go to “weight, not admissibility.” *Copeland*, 130 Wn.2d at 275-76.

B. The majority’s first error was to hold that Coghlan’s two now-excluded opinions failed *Frye* because they relied on deductions supported by the application of math that, though rudimentary, had not been blessed by the scientific community.

1. Coghlan’s first estimate used a methodology taken from a peer-reviewed EPA study (the “Guo study”). Op. 47. Guo exposed various materials, including carpets, to PCBs in a controlled environment. He then took several measurements of PCBs over

time and calculated a “partition coefficient”— “a ratio of how much [of a toxin] is in the air versus” in a given material. Tr. 1791-92. In other words, Guo took two knowns (PCBs in the air and PCBs in carpet over time) and, with measurements and application of a formula, calculated an unknown. Monsanto has not disputed that Guo’s methods and findings are generally accepted.

Coghlan simply rearranged Guo’s formula to solve for a different unknown. Whereas Guo took (a) levels of PCBs in the air and (b) levels of PCBs in the tested carpet to solve for (c) the partition coefficient, Coghlan used (b) the levels of PCBs in carpet that a Sky Valley teacher had preserved before remediation and (c) the partition coefficient to solve for (a)—the PCB-levels in the air at Sky Valley.

Division One faulted Coghlan for “develop[ing] a novel equation to ‘work backward.’” Op. 53. But Coghlan only made a deduction through the application of basic algebra: that equations work in reverse. That is not a *Frye* issue.

The court of appeals relied on a single case in concluding otherwise: *Lake Chelan Shores Homeowners Ass’n v. St. Paul Fire & Marine Ins. Co.*, 176 Wn. App. 168, 313 P.3d 408 (2013). But despite

superficial similarity (both cases involved a “back calculation” and a “formula”), *Lake Chelan* is nothing like this case. The expert in *Lake Chelan* used a brand-new formula and admitted he “d[id]n’t know” of anything done to verify it—not, as here, an accepted formula that was merely reversed. *Id.* at 177.

2. The majority made the same mistake in excluding a second of Coghlan’s opinions. Coghlan based this independent opinion on another EPA-published study—whose general acceptance Monsanto again did not question—concerning PCB levels in New York schools. Coghlan used division to determine how PCB levels decreased in the schools after remediation (the “remediation factor”). So, a drop from 1,000 ng/m³ to 100 ng/m³ yielded a “remediation factor” of 10. Op. 56 n. 28. Relying on “remarkable” similarities between the New York schools and Sky Valley—both in remediation and in design and construction—Coghlan then multiplied post-remediation air samples taken from Sky Valley by the remediation factor to estimate pre-remediation levels. CP7456; Tr. 1785-90.

The majority held that this presented a *Frye* issue because the study “did not purport to make any similar calculations.” Op. 56.

But, again, Coghlan made only a simple deduction—similar remediation techniques will have similar effects in similar schools—using simple math. *Cf. Acord v. Pettit*, 174 Wn. App. 95, 111, 302 P.3d 1265 (2013) (expert’s “method of comparing tree stumps on the disputed area with a comparable region” to back-calculate when logging began didn’t implicate *Frye*). That the original study didn’t apply the same calculations is irrelevant under *Frye*. Here again, Division One’s rule departs from other courts. *See In re Marriage of Alexander*, 368 Ill. App. 3d 192, 201 (2006) (“basic math” doesn’t trigger *Frye*); *S. Energy Homes, Inc. v. Washington*, 774 So.2d 505, 518 (Ala. 2000) (same for “elementary mathematics”).

C. The majority made a second category error squarely in conflict with this Court’s precedent: It confused alleged errors in application of a methodology with a new methodology. For the “back calculation,” the majority criticized Coghlan for employing a controlled experiment (where Guo knew that all PCBs came from the air) in a real-world setting where Coghlan allegedly couldn’t guarantee that all PCBs came from the air and instead “assumed” it to be true, Op. 50-53. For the “remediation factor” analysis, the majority accepted the critique of Monsanto’s expert that Coghlan

wrongly “assume[d]” that remediation in different schools “was exactly the same” and that Coghlan selectively chose air samples from Sky Valley. Op. 57

But these complaints are precisely what this Court has said present a jury issue, not a new methodology. Indeed, *State v. Copeland* rejected a similar argument against “transfer of DNA technology from medical diagnostic use to forensic use.” 130 Wn.2d at 273-74. The types of problems about which Monsanto now complains (“lack of controls,” “degradation,” “cross contamination, etc.”) go to weight, “not admissibility under *Frye*.” *Id.* The majority, by failing to recognize that, supplanted the jury’s role in evaluating expert testimony.

D. *Frye* is designed to protect juries from genuinely novel science that a trial judge isn’t equipped to evaluate. Here, however, the court misapplied it to deprive juries of expert opinions grounded in EPA-published, peer-reviewed studies because an expert employed basic arithmetic and made basic assumptions about data inputs. If that is enough to trigger *Frye*, courts will get bogged down in litigation over each discrete step in an expert’s work, and juries will be stripped of their primacy in trials. This

Court should step in to correct the majority's flawed approach and restore the jury's central role under the state constitution.

CONCLUSION

This Court should grant the petition.

I certify under RAP 18.17 that this petition contains 4,996 words, excluding the parts of the document exempted from the word count by RAP 18.17(c).

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that on the date stated below, I caused the foregoing brief to be served via Filing Portal and email to the last known address of all counsel of record.

I certify under penalty of perjury under the laws of the state of Washington and the United States that the foregoing is true and correct.

May 31, 2024

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IN THE COURT OF APPEALS OF THE STATE OF WASHINGTON

KERRY L. ERICKSON; MICHELLE M.
LEAHY; RICHARD A. LEAHY; and
JOYCE E. MARQUARDT;

Respondents,

v.

PHARMACIA LLC, a Delaware limited
liability company, f/k/a Pharmacia
Corporation,

Appellant.

No. 83287-5-1

DIVISION ONE

PUBLISHED OPINION

CHUNG, J. — Three former teachers in Monroe School District filed this lawsuit under the Washington product liability act (WPLA) against Pharmacia, the successor to Monsanto, the manufacturer of chemicals known as polychlorinated biphenyls (PCBs).¹ They claimed their exposure to PCBs in fluorescent light ballast capacitors (FLBs) at the Sky Valley Education Center (SVEC) caused them serious health impacts. After a seven-week trial, a jury found Pharmacia liable and awarded plaintiffs over \$185 million in compensatory and punitive damages. The trial court denied Pharmacia’s post-trial motion for judgment as a

¹ Along with Monsanto, the complaint also named as defendants Pharmacia LLC, which is successor to the part of Monsanto that manufactured PCBs, and Solutia, Inc., to which Monsanto’s chemical business was “spun-off.” By the time of trial, Pharmacia was the only remaining defendant. We refer to Monsanto when discussing the original entity that manufactured the PCBs, but refer to the defendants in this action collectively as Pharmacia.

matter of law or, alternatively, for a new trial and for remittitur of the damage awards.

Pharmacia's appeal alleges numerous errors by the trial court, including improper application of Missouri law on the statute of repose and punitive damages; failure to instruct the jury on two defenses; erroneous admission of expert opinions on exposure, injury, and causation; and erroneous admission of injury to non-parties. Pharmacia also challenges the trial court's determination that substantial evidence supported the liability verdicts and the denial of remittitur of the punitive damages awards.

We hold that when WPLA provides the applicable law on liability, WPLA's statute of repose is not subject to a separate choice-of-law analysis because it is a claim-defining limitation on liability. We further hold that WPLA's statute of repose does not violate the Washington Constitution's privileges and immunities clause. Based on our conclusion that WPLA's statute of repose applies and that it is constitutional, we remand to the trial court for further proceedings, including assessing whether Erickson's claims are subject to WPLA's statute of repose.

We also address additional issues that are likely to recur in a new trial. As to choice of law on punitive damages, applying the "most significant relationship" test, we conclude that Missouri has the greater interest regarding allowing punitive damages for liability claims that are cognizable under its own products liability law. Thus, while the court properly may allow the jury to consider punitive

damages, such damages cannot be awarded for claims not allowed under Missouri law, including, as relevant here, post-sale failure to warn.

As to Pharmacia's requested jury instruction related to whether the PCB-containing capacitor or the FLB that incorporated the capacitor was the relevant product, rather than PCBs, we hold that the court properly declined to give this instruction. A WPLA claim does not require proof of product failure. And because the Washington Supreme Court has rejected the "sophisticated purchaser" defense to product liability, the trial court properly denied that instruction as well.

Regarding Pharmacia's challenges to admission of expert testimony, we conclude that industrial hygienist Kevin Coghlan's expert testimony that calculated the historical levels of PCBs at SVEC by using methodologies he developed based on data from two other studies was novel and should have been excluded under Frye.² However, the trial court properly allowed Coghlan to testify about direct comparisons with data from the study of New York schools. The trial court also properly allowed the testimony of neuropsychologist Dr. Perrillo regarding causation of plaintiffs' injuries, as he was qualified as an expert and his testimony met the standards of ER 702. The court also properly allowed toxicologist Dr. James Dahlgren to testify as an expert on causation, except to the extent his testimony relied on any inadmissible testimony by Coghlan about historical PCB levels.

² Frye v. United States, 54 App. D.C. 46, 293 F. 1013 (1923).

Further, the admission of evidence of nonparty harms through Dr. Perrillo and Dr. Mahoney's expert testimony was not an abuse of discretion. Information about other people's illnesses was not admitted as substantive evidence, but as the basis for their opinions, and it was of the type reasonably relied upon by such experts. Lay witness testimony was limited to personal observations of others at the school being ill, not causation. This lay testimony was also properly admitted.

Because we conclude that WPLA's statute of repose applies to claims brought under WPLA, rather than Missouri law, which has no statute of repose, we must reverse the jury verdict and remand for further proceedings.

FACTS

I. Polychlorinated Biphenyls

In 1929, the Swann Chemical Company invented a family of chemicals called polychlorinated biphenyls (PCBs). PCBs are formed by adding chlorine atoms to benzene rings. Adding different numbers of chlorine atoms to various locations on the benzene rings creates individual types of PCBs, called congeners. Scientists have made 209 individual PCB congeners. Congeners with more added chlorine, considered "heavier," were used as plasticizers to keep certain materials, such as caulk and paint, from becoming brittle. The lighter chlorinated PCBs were used as dielectric fluid in transformers and capacitors.

Capacitors are used in small electrical devices, such as fluorescent lights. Capacitors in a fluorescent light ballast help start the light and smooth out the voltage cycling to reduce flickering. Prior to PCBs, electrical equipment relied on

mineral oil that had a potential risk of explosion and fire. PCBs are chemically very stable and do not burn. As a result, electrical companies such as General Electric (GE) quickly adopted the use of these non-flammable PCBs as the electric fluid in transformers and capacitors, in place of mineral oil. PCB use in capacitors and transformers led to a considerable reduction in the potential for fires. GE obtained a patent for these uses in 1933. The World Almanac designated the discovery of PCBs, and its application in electrical equipment, as one of the world's greatest inventions and scientific discoveries.

II. Monsanto's PCB Business

In 1935, Monsanto Company, with its principal place of business in St. Louis, Missouri, purchased Swann and began selling PCBs under the name Aroclor. Monsanto commissioned toxicity studies of PCB from the 1930's to the 1960's and shared the results with its customers and potential customers. By 1943, Monsanto had entered into an agreement with the U.S. Public Health Service to include on its bills of sales for PCBs that any products including PCBs must include a warning to "avoid repeated contact with the skin and inhalation of the fumes and dusts." However, by 1952, Monsanto bills of sales did not include this language, because their customers, manufacturers of products that included PCBs, would not like being told they had to put such a warning label on their products.

In late 1966, scientists warned that heavier chlorinated PCBs were remaining in the environment rather than biodegrading or metabolizing.

Monsanto provided PCB samples for research and notified its major customers. By 1969, Monsanto had developed a plan to address the environmental concerns, which included warning its customers, ceasing production of these heavier chlorinated congeners, and buying back millions of pounds of PCBs for safe incineration. Monsanto also provided its distributors with suggested warnings to provide their customers in order to distribute the information down the supply chain, including electrical customers such as GE and Westinghouse.

By 1970, Monsanto decided to begin phasing out production of higher chlorinated congeners. GE became concerned the company would also cease production of the lower chlorinated PCBs used in electrical applications, and in early 1970, GE met with Monsanto to advocate for continued manufacture of these PCBs because they had no comparable replacement in this application. In 1973, Monsanto informed the government that it would sell PCBs to the electrical industry only for use in closed systems as dielectric fluid in transformers and capacitors. In 1975, Monsanto announced it would voluntarily cease all PCB production and sales and exited the PCB business in 1977. The Environmental Protection Agency (EPA) banned the manufacture of PCBs in 1979. After that time, newly manufactured electrical products could not contain PCBs. PCBs have since been banned in every country. However, PCB-containing light ballasts and transformers remained in operation for decades.

III. Sky Valley Educational Center (SVEC)

The old Middle School buildings in the Monroe School District (MSD) were built in 1967-68, at a time when PCBs were used extensively in caulking and FLBs. As a result, 95 percent of the FLBs contained PCBs. During the 1990s and early 2000s, the EPA and other public health entities sent information to school districts about FLBs containing PCBs. As early as 2000, MSD was aware of PCB-containing FLBs in the old Middle School buildings. At that time, MSD learned it needed to be checking FLBs to determine which contained PCBs. MSD knew to remove and dispose of leaking FLBs as hazardous waste. MSD also knew that PCBs could pose a potential hazard to people in the buildings, and special care was required to remove leaking FLBs in order to prevent exposure.

In 2007, an assessment of the old Middle School buildings reported that the deterioration of the buildings was the most severe of any school within MSD and they were in critical need of upgrades and improvements. Despite these findings, MSD moved the K-12 Sky Valley Educational Center (SVEC) into the old Middle School buildings in 2011.

IV. Reports of Illnesses at SVEC

After moving to the old Middle School buildings, teachers, including Kerri Erickson, Michelle Leahy, and Joyce Marquardt, began experiencing declining health. Among their symptoms, these teachers reported headaches, fatigue, difficulty with memory, blurred vision, sinus symptoms, and respiratory issues. The symptoms improved when the teachers spent time outside of SVEC but

returned when they went back to the buildings. They eventually became concerned that the SVEC buildings were making them sick. All three teachers left their positions at SVEC due to their health concerns.

V. Product Liability Lawsuit

In May 2018, several SVEC teachers and families filed a lawsuit against Monsanto Company and its successor corporations for PCB contamination in SVEC.³ They alleged that children and adults were exposed to PCBs at SVEC and have “been coping with adverse medical effects, including neurological damage, autoimmune and endocrine diseases, and cancers.” The complaint alleged both strict product liability and negligence claims that PCBs were not reasonably safe as designed and that Monsanto failed to provide warnings when PCBs were manufactured and after manufacturing. Since the filing of the original lawsuit, 200 other SVEC teachers, students, and family members have filed similar claims. A total of 17 lawsuits were filed over 13 months. This is the first of the many SVEC PCB lawsuits to reach this court on appeal after trial.

The plaintiffs in this lawsuit are teachers Erickson, Leahy, and Marquardt.⁴ As pleaded by plaintiffs, the trial court applied the Washington product liability act (WPLA) for liability, but on plaintiffs’ motion, applied Missouri law to control the statute of repose and punitive damages. After an extensive trial, the jury found

³ The lawsuit also named MSD, Union High School District, and Snohomish Health District as defendants.

⁴ The lawsuit also includes Leahy’s husband. For the purposes of this opinion, we refer to the plaintiffs together as Erickson or the plaintiffs.

that Monsanto supplied a product that was not reasonably safe in construction or as designed, was not reasonably safe because adequate warnings or instructions were not provided with the product or after manufacturing, and was the proximate cause of the plaintiffs' injuries. Erickson received \$15 million in compensatory damages; Leahy received \$18 million in compensatory damages; and Marquardt received \$17 million in compensatory damages.⁵ Under Missouri law, the jury awarded each of the three teachers \$45 million in punitive damages. The total judgment against Pharmacia amounted to over \$185 million.

After trial, Pharmacia brought unsuccessful motions for judgment as a matter of law or, in the alternative, for a new trial, and for remittitur of the damage awards. Pharmacia appeals.

ANALYSIS

I. Choice of Law

A threshold and outcome-determinative question is what state provides the applicable law for plaintiffs' claims. Thus, we address these choice-of-law issues first.

After filing claims under WPLA, Erickson moved for the application of Missouri law on the issues of the statute of repose and punitive damages. The trial court agreed with the plaintiffs, and Pharmacia appeals these choice-of-law decisions. Choice of law is a question of law reviewed de novo. Erwin v. Cotter Health Ctrs., 161 Wn.2d 676, 691, 167 P.3d 1112 (2007).

⁵ Leahy's husband received \$150,000 for loss of consortium.

Choice of law applies on an issue-by-issue basis. FutureSelect Portfolio Mgmt., Inc. v. Tremont Grp. Holdings, Inc., 175 Wn. App. 840, 856 n.15, 309 P.3d 555 (2013). Under this principle, known as dépeçage, “different issues in a single case arising out of a common nucleus of facts may be decided according to the substantive law of different states.” Id.

Before engaging in a choice-of-law analysis, the court must first consider whether an actual conflict exists between the laws or interests of Washington and another state. Rice v. Dow Chem. Co., 124 Wn.2d 205, 210, 875 P.2d 1213 (1994). An actual conflict arises when the outcome of an issue differs depending on which state’s law applies. Pope Res. LP v. Certain Underwriters at Lloyd’s, London, 19 Wn. App. 2d 113, 124, 494 P.3d 1076 (2021). Without an actual conflict, the presumptive local law applies. Rice, 124 Wn.2d at 210.

If there is a conflict, Restatement (Second) of Conflict of Laws § 6 (Am. Law Inst. 1971) identifies factors relevant to the choice of the applicable rule of law:

- (a) the needs of the interstate and international systems,
- (b) the relevant policies of the forum,
- (c) the relevant policies of other interested states and the relative interests of those states in the determination of the particular issue,
- (d) the protection of justified expectations,
- (e) the basic policies underlying the particular field of law,
- (f) certainty, predictability and uniformity of result, and
- (g) ease in the determination and application of the law to be applied.

For tort claims, Washington has adopted the “most significant relationship rule.” Johnson v. Spider Staging Corp., 87 Wn.2d 577, 580, 555 P.2d 997 (1976).

Restatement (Second) of Conflict of Laws § 145 establishes the general

principles⁶ for resolving conflicts of law in tort cases using this approach:

(1) The rights and liabilities of the parties with respect to an issue in tort are determined by the local law of the state which, with respect to that issue, has the most significant relationship to the occurrence and the parties under the principles stated in § 6.

(2) Contacts to be taken into account in applying the principles of § 6 to determine the law applicable to an issue include:

- (a) the place where the injury occurred,
- (b) the place where the conduct causing the injury occurred,
- (c) the domicile, residence, nationality, place of incorporation and place of business of the parties, and
- (d) the place where the relationship, if any, between the parties is centered.

These contacts are to be evaluated according to their relative importance with respect to the particular issue.

In applying this test, courts evaluate the contacts quantitatively and qualitatively to determine the most significant contacts as they relate to the issue at hand.

Martin v. Goodyear Tire & Rubber Co., 114 Wn. App. 823, 830, 61 P.3d 1196

(2003). If the contacts are evenly balanced between the two states, the court evaluates the interests and public policies of the concerned states to determine which has a greater interest in determination of the particular issue. Zenaida-

Garcia v. Recovery Sys. Tech., Inc., 128 Wn. App. 256, 260-61, 115 P.3d 1017

(2005).

⁶ Comment a to § 145 notes that there are other subsections that deal with particular torts, §§ 146-155, and particular issues in tort cases, §§ 156-174. RESTATEMENT (SECOND) § 145. For instance, § 146 addresses personal injuries, and issues addressed include defenses (§ 161) and damages (§ 171). See RESTATEMENT (SECOND).

A. Choice of Law as to Statute of Repose

Because Erickson filed her claims under WPLA, she voluntarily selected WPLA as the substantive law for her claim.⁷ Pharmacia did not challenge this choice. Thus, there is no issue regarding which state’s law applies to determine liability. However, Erickson sought to apply Missouri law to the issue of the statute of repose.

The parties do not dispute that Washington and Missouri have an actual conflict of law with respect to product liability statutes of repose. Missouri does not have a statute of repose in cases of liability for defective products. See Lay v. P&G Health Care, Inc., 37 S.W.3d 310, 321-22 (2000). In contrast, one of the salient features of WPLA is its statute of repose. Before conducting an analysis of which state has the most significant relationship, however, we must first determine whether it is appropriate to treat the statute of repose separately from the portions of WPLA imposing liability—in other words, whether dépeçage is appropriate here.

“Statutes of repose provide time limits for bringing an action, but they ‘are of a different nature than statutes of limitation.’ ” Bennett v. United States, 2 Wn.3d 430, 440, 539 P.3d 361 (2023) (quoting 1000 Va. Ltd. P’ship v. Vertecs Corp., 158 Wn.2d 566, 574, 146 P.3d 423 (2006) (quoting Rice, 124 Wn.2d at 211)). A statute of repose “terminates a right of action after a specific time, even

⁷ One of the product liability claims brought by plaintiffs, for post-sale failure to warn, is available in Washington but not in Missouri. See RCW 7.72.030(1)(c).

if the injury has not yet occurred.” Rice, 124 Wn.2d at 212. While a statute of limitation bars a plaintiff from bringing an already accrued claim after a specified period, a statute of repose bars a claim from ever arising. See id. at 211-12.

Erickson points to several Washington cases that have applied the choice-of-law analysis to the WPLA statute of repose as support for the premise that the law of another state can govern the individual issue of the statute of repose. See Rice, 124 Wn.2d at 212, Martin, 114 Wn. App. at 829, Zenaida-Garcia, 128 Wn. App. at 266. Indeed, the Washington Supreme Court has acknowledged that a statute of repose is a substantive issue that may raise a conflict of law.⁸ 124 Wn.2d at 212.

However, the courts in Rice, Martin, and Zenaida-Garcia were not asked to consider the specific question we are faced with here: whether the court should apply a separate choice-of-law analysis to the statute of repose in WPLA from the choice of law governing the substantive product liability claim. Instead, all three cases identified the conflicting laws as the statutes of repose, and began with the premise that the significant relationship test should be applied to the conflicting laws. Thus, to that end, the courts in those cases performed the “most significant relationship” analysis as set out in Restatement (Second) § 145.

⁸ The treatment of statutes of repose differs from that of statutes of limitations. Rice, 124 Wn.2d at 211. Under Washington’s “borrowing statute,” RCW 4.18.020, limitation periods are governed by the law of the state whose substantive law applies to the claim as determined by choice-of-law analysis. Rice, 124 Wn.2d at 210.

In Rice, a forest service employee had extensive and routine exposure to herbicides while working in Oregon. 124 Wn.2d at 207. He subsequently moved to Washington, where he had only minimal contact with the chemical. Id. The plaintiff developed leukemia and brought product liability claims against Dow Chemical Company in a Washington court. Id. The court noted that there was some question whether WPLA applied, but the parties had not briefed the issue, so it did not need to decide that issue to reach the conclusion that there was a conflict because of the differing statutes of repose. Id. at 212. Then, the court weighed the significant relationships and determined that Oregon law applied to the claims and affirmed dismissal of the action due to the running of Oregon's statute of repose. Id. at 216-17.

In another case involving Washington and Oregon statutes of repose, Oregon residents were involved in a fatal car accident in Washington after a metal ring flew off the wheel assembly of a commercial truck. Martin, 114 Wn. App. at 826. The truck belonged to an Oregon company hauling rock from an Oregon quarry to a destination in Washington. Id. at 827. Plaintiff filed claims including negligence and product liability claims under Washington law in Washington. The tire manufacturer, an Ohio company, claimed the trial court should have applied Oregon's statute of repose, which would have resulted in dismissal of the claims. Id. at 828. Instead, the court applied Washington's statute of repose, and the case went to trial, resulting in a verdict for the plaintiff. On appeal, this court reviewed the significant relationships and determined that

the number of contacts with Washington was “not overwhelming,” but the fact that the injury occurred in Washington was “qualitatively significant.” Id. at 831. Moreover, even though the plaintiffs were Oregon residents and an Oregon company owned the commercial truck that lost the metal ring, Oregon’s contacts did not exceed Washington’s. Id. at 832. After considering the policy interests behind the states’ statutes of repose, the court concluded that Washington had the greater interest: “Washington’s interest in protecting persons from injuries from defective products within its borders outweighs Oregon’s interest in protecting a manufacturer whose product arrives in Oregon through the stream of commerce and subsequently causes injury to a third party in another state.” Id. at 835. Thus, the court held that Washington’s statute of repose applied and affirmed the judgment for the plaintiff. Id. at 836.

In Zenaida-Garcia, Washington’s interests again resulted in application of the Washington statute of repose. There, an Oregon resident died in an industrial accident at his workplace in Oregon, and his estate brought product liability claims against the manufacturer of the machinery involved. 128 Wn. App. at 258. The manufacturer was a Washington corporation whose principal place of business was in Washington and that originally sold the equipment to a Washington company. Id. at 261. This court determined that Oregon and Washington’s contacts were evenly balanced, but Washington had a greater policy interest in application of its law. Id. at 263-66. As a result, this court

reversed summary judgment, finding that Washington’s longer statute of repose applied and the claim was not barred. Id. at 266.

Thus, even though these cases involved a “most significant relationship” analysis based on a conflict between the statutes of repose, they fail to convince us that when there is no dispute as to which substantive product liability law applies, any other state’s statute of repose could supplant the claim-defining statute of repose in WPLA.⁹

We turn to WPLA itself to ascertain “the range of application intended by the legislature.” RESTATEMENT (SECOND) § 6 cmt. b.¹⁰ “Statutes of repose eliminate an avenue of redress for injured litigants based on policy considerations.” Bennett, 2 Wn.3d at 454. WPLA includes a specific “length of time product sellers are subject to liability.” RCW 7.72.060. WPLA’s statute of repose establishes that “a product seller shall not be subject to liability to a claimant for harm under this chapter if the product seller proves by a preponderance of the evidence that the harm was caused after the product’s

⁹ It is not apparent from the appellate opinions in Martin or Zenaida-Garcia whether the respective trial courts applied WPLA for liability—in Martin, at trial, or in Zenaida-Garcia, on remand. In Rice, because the court held that Oregon’s statute of repose applied and barred the claim, 124 Wn.2d at 217, no court needed to address what state’s law applied to determine liability.

¹⁰ Regarding the intended range of application of a statute, comment b to § 6 notes that “[a] court will rarely find that a question of choice of law is explicitly covered by statute. That is to say, a court will rarely be directed by statute to apply the local law of one state, rather than the local law of another state, in the decision of a particular issue.” RESTATEMENT (SECOND) § 6 cmt. b. Thus, in deciding whether an issue falls within the intended range of application of a particular statute, “[t]he court should give a local statute the range of application intended by the legislature when these intentions can be ascertained and can constitutionally be given effect.” Id. Further, “[p]rovided it is constitutional to do so, the court will apply a local statute in the manner intended by the legislature even when the local law of another state would be applicable under usual choice-of-law principles.” Id.

‘useful safe life’ had expired.” RCW 7.72.060(1). The statute of repose includes a rebuttable presumption that if the harm was caused more than 12 years after delivery, the useful safe life has expired. RCW 7.72.060(2). Under WPLA’s statute of repose, a manufacturer is not liable for harm that occurs after the useful safe life expires. Martin, 114 Wn. App. at 828.

The legislature purposefully crafted WPLA, including the statute of repose, to address two opposing concerns:

When Washington’s tort reform act was enacted in 1981, the legislature announced its desire to balance two interests: protecting Washington industries from excessive litigation, and preserving the right of consumers to seek redress for injuries caused by unsafe products. The legislature enacted a 12-year statute of repose, which at the time was the nation’s longest for product liability

Zenaida-Garcia, 128 Wn. App. at 264. The lengthy statute of repose protects consumers but also curtails businesses’ insurance costs for “product sellers and manufacturers,” as those costs disincentivize innovation and raise costs for consumers. LAWS OF 1981, ch. 27, § 1. Specifically, the legislature intended that “retail businesses located primarily in the state of Washington be protected from the substantially increasing product liability insurance costs and unwarranted exposure to product liability litigation.” Id. The statute of repose “provide[s] some certainty in the area of manufacturers’ and sellers’ long term exposure for product-related claims.” Morse v. City of Toppenish, 46 Wn. App. 60, 64-65, 729 P.2d 638 (1986).

To this end, the legislature integrated the statute of repose's limitation on liability into WPLA such that it is fundamental to the existence of a claim.¹¹ A plaintiff who cannot satisfy the WPLA statute of repose does not have a WPLA claim. Due to its claim-defining nature, WPLA's statute of repose is inextricably linked to the cause of action. Where, as here, the legislature made the statute of repose mandatory to the existence of a WPLA claim, we apply it as intended to limit liability by extinguishing certain claims.¹²

Considering the statute of repose as part and parcel of the liability claim for the purpose of a conflicts-of-law analysis is consistent with the approach in the more recent Restatement (Third) of Conflict of Laws § 6.12 (Am. L. Inst., Tentative Draft No. 4, 2023).¹³ The Restatement (Third) notes that “[t]he Restatement Second indicated that the[] connecting factors [set out in § 145] would have more weight for some issues than others, providing that they were ‘to be evaluated according to their relative importance with respect to the particular

¹¹ As our Supreme Court has recently stated,

[W]e reaffirm the legislature's broad authority to set time limits for commencing an action. We also recognize that when exercising this authority, the legislature must weigh competing interests and make difficult choices as a matter of policy. We do not seek to constrain the legislature's authority or to second-guess its policy decisions.

Bennett, 2 Wn.3d at 435.

¹² This same conclusion does not necessarily extend to *all* defenses. Our opinion here is limited to the issue before us, the statute of repose. We reject as overly broad Pharmacia's statement that “choice of law principles do not authorize the selection of a state's causes of action without the accompanying affirmative defenses.” Br. of Resp'ts at 35.

¹³ Once a Tentative Draft is approved by the American Law Institute Council and membership, it “represents the most current statement of the Institute's position on the subject and may be cited in opinions or briefs . . . until the official text is published.” RESTATEMENT (THIRD) OF CONFLICT OF LAWS at ix (AM. L. INST., Tentative Draft No. 4, 2023).

issue.’ ” RESTATEMENT (THIRD) § 6.01 (quoting RESTATEMENT (SECOND) § 145(2)).¹⁴

The Restatement (Third) adds separate sections on particular torts and issues that require more specific rules “because they involve situations in which contacts other than those used in the general rules are relevant, or in which the contacts carry different weight.” Id., ch. 6, Topic 2, Introductory Note, at 37. Of particular relevance here, “for products liability claims, the place in which the product was delivered to the first end user is an additional relevant contact.” Id. Thus, the Restatement (Third) added a separate section on choice-of-law analysis for product liability claims. RESTATEMENT (THIRD) § 6.11. And a comment to § 6.11 entitled “Scope of Section limited to liability” it states, “A statute of repose relates to liability, and choice of law with respect to such statutes is performed under this Section [on products liability claims].” RESTATEMENT (THIRD) § 6.11 cmt. h. Also noteworthy is that neither the Restatement (Second) nor the

¹⁴ Noting the “tentative and incomplete way” its predecessor “distinguished issues for which . . . [territorial versus personal] connecting factors are more important and suggested rules based on certain distributions of connecting factors,” Restatement (Third) described its aim as follows:

This Restatement draws on the experience of courts applying the Restatement Second . . . to extend the insights of the Restatement Second and articulate them in the form of rules rather than an open-ended balancing of factors.

This Restatement describes the distinction between the issues for which territorial connecting factors are more important and those for which personal connecting factors are more important as the distinction between issues relating to conduct and issues relating to persons. Most courts and scholars describe the distinction as between conduct-regulation issues and loss-allocation issues.

RESTATEMENT (THIRD) § 6.01 cmt.

Restatement (Third) identifies statutes of repose as issues requiring separate sections or additional analysis.¹⁵

For a WPLA claim to exist, the plaintiff must satisfy the statute's integrated statute of repose. The trial court's conclusion that Missouri law applied to this issue was an error of law.

B. Constitutionality of WPLA Statute of Repose

Having determined under choice-of-law principles that WPLA's statute of repose applies, we next consider whether the statute of repose is constitutional under the Washington Constitution's privileges and immunities clause, article I, section 12.¹⁶ We hold that the WPLA statute of repose is supported by reasonable grounds and survives constitutional scrutiny under article I, section 12.

Under the privileges and immunities clause, "No law shall be passed granting to any citizen, class of citizens, or corporation other than municipal, privileges or immunities which upon the same terms shall not equally belong to all citizens, or corporations." WASH. CONST. art. I, § 12. We apply a two-part test to assess constitutional claims under article I, section 12. Schroeder v. Weighall,

¹⁵ By contrast, as previously noted, the Restatement (Third) has added sections on distinct issues relating to tort claims, including product liability and punitive damages, and the Restatement (Second) likewise includes other subsections addressing particular torts, §§ 146-155, and particular issues in tort, §§ 156-174.

¹⁶ After oral argument in this case, the Washington Supreme Court held the state's medical malpractice statute of repose was unconstitutional under the privileges and immunities clause. Bennett, 2 Wn.3d at 435. Erickson submitted a statement of additional authority calling attention to Bennett and its possible impact on this case. Generally, an appellate court will decide a case only on the basis of the issues set forth by the parties' briefing. RAP 12.1(a). Given the centrality of the statute of repose to the disposition of this case, we requested supplemental briefing and now consider the issue pursuant to RAP 12.1(b).

179 Wn.2d 566, 572-73, 316 P.3d 482 (2014). First, we determine whether the law grants a “privilege” or “immunity” that implicates a fundamental right of state citizenship. Id. at 573. If the answer is “yes,” then we consider whether there is a “reasonable ground” for granting the privilege or immunity. Id.

Washington courts have long recognized “privileges and immunities” to include the right to pursue common law causes of action in court. Id.; see also Bennett, 2 Wn.3d at 444. Where a cause of action derives from the common law, the ability to pursue it is a privilege of state citizenship. Schroeder, 179 Wn.2d at 573. “A law limiting the pursuit of common law claims against certain defendants therefore grants those defendants an article I, section 12 ‘immunity.’ ” Id. That only certain defendants are entitled to such immunity, as occurs with a statute of repose, triggers the reasonable grounds analysis. Bennett, 2 Wn.3d at 446.

Here, while the product liability claims are defined by statute, they are nonetheless “rooted in the common law tradition,” as prior to WPLA’s enactment, what are now WPLA claims were common law causes of action. As Erickson notes, RCW 7.72.010(4) defines “[p]roduct liability claims” to include “any claim or action previously based on” common law causes of action. Pharmacia concedes that WPLA’s statute of repose triggers the reasonable ground test for the same reason as in Bennett.

As WPLA’s statute of repose confers an article I, section 12 immunity consisting of a fundamental right of state citizenship, next, we consider whether there is a “reasonable ground” for granting the privilege or immunity. See

Schroeder, 179 Wn.2d at 573. The reasonable ground test “requires careful consideration of the legislative purposes underlying the challenged statute.”

Bennett, 2 Wn.3d at 447. The court must “scrutinize the legislative distinction to determine whether it *in fact* serves the legislature’s stated goal.” Schroeder, 179 Wn.2d at 574. “[T]here must be a nexus between the legislature’s stated purpose and the challenged statute, which cannot rest solely on hypothesized facts.”

Bennett, 2 Wn.3d at 449.

In Bennett, the court explained the legislature’s three stated reasons for the medical malpractice statute of repose—reduction of medical malpractice insurance, protection from stale claims, and balancing the interests of injured plaintiffs and the health care industry—and considered whether they were “reasonable grounds” for granting the immunity. 2 Wn.3d at 448-49. On the issue of malpractice insurance, the legislature asserted that “ ‘to the extent that the eight-year statute of repose has an effect on medical malpractice insurance, that effect will tend to reduce rather than increase the cost of malpractice insurance.’ ” Id. at 449 (quoting LAWS OF 2006, ch. 8, § 301). According to the court, this statement of purpose was insufficient because “the legislature did not assert that the statute of repose *would, in fact*, decrease the cost of medical malpractice,” and the court cannot hypothesize that it would have this effect. Id. (emphasis added).

With regard to the medical malpractice statute, the legislature also reasoned the statute of repose “ ‘will provide protection against claims, however

few, that are stale, based on untrustworthy evidence, or that place undue burdens on defendants.’ ” Id. at 449-50 (quoting LAWS OF 2006, ch. 8, § 301). The court noted that “the eight-year statute of repose in RCW 4.16.350(3) is not addressed to stale claims generally, in light of the explicit exemptions and tolling provisions” in the statute and concluded that “the statute of repose does not in fact serve the legislature’s stated rationale of preventing stale claims generally.” Bennett, 2 Wn.3d at 450.

Finally, the legislature asserted, “ ‘an eight-year statute of repose is a reasonable time period in light of the need to balance the interests of injured plaintiffs and the health care industry.’ ” Id. at 451 (quoting LAWS OF 2006, ch. 8, § 301). The court disagreed that such a legislative compromise, by itself, was sufficient to provide reasonable grounds for the statute of repose. Id. at 451-52. The Bennett court’s analysis recognized “the legislature’s authority to set time limits for commencement of civil actions” and the “competing policy interests at stake,” but concluded that the medical malpractice statute of repose was unconstitutional because none of the legislature’s stated reasons satisfied the reasonable ground test. Id. at 452.

To apply the reasonable ground test in this case, we look to the legislative purposes underlying the WPLA statute of repose. WPLA’s preamble identifies the legislature’s intent to protect product sellers and manufacturers from the high cost of product liability insurance:

Of particular concern is the area of tort law known as product liability law. Sharply rising premiums for product liability insurance

have increased the cost of consumer and industrial goods. These increases in premiums have resulted in disincentives to industrial innovation and the development of new products. High product liability premiums may encourage product sellers and manufacturers to go without liability insurance or pass the high cost of insurance on to the consuming public in general.

It is the intent of the legislature to treat the consuming public, the product seller, the product manufacturer, and the product liability insurer in a balanced fashion in order to deal with these problems.

It is the intent of the legislature that the right of the consumer to recover for injuries sustained as a result of an unsafe product not be unduly impaired. It is further the intent of the legislature that retail businesses located primarily in the state of Washington be protected from the substantially increasing product liability insurance costs and unwarranted exposure to product liability litigation.

LAWS OF 1981, ch. 27, § 1.

Erickson argues that, like in Bennett, the legislature failed to include any finding that the statute of repose would achieve the goal of reducing premiums. However, the WPLA statute of repose was crafted after the Washington State Senate Select Committee on Tort and Product Liability Reform (Select Committee) conducted hearings and research to identify the key issues and solutions for the needs of the various actors involved in product liability cases.

The Select Committee began its work by gathering information to determine the parameters of the product liability insurance issue. S. SELECT COMM. ON TORT & PRODUCT LIABILITY REFORM, FINAL REPORT at 4 (Wash. Jan. 1981) [<https://perma.cc/R3XP-CRC8>]. Statistics from the Insurance Services Office, an independent insurance industry statistical and rate making organization, showed that over 97 percent of product-related incidents occurred

within six years of purchase and 83.5 percent of bodily injuries occurred within 10 years of manufacturing. Id. at 19. For the Select Committee, this relatively short time frame “raise[d] questions regarding the need and effectiveness of a statute of repose.” Id. at 9.

Erickson points to this finding to suggest a parallel between the statute of repose at issue in Bennett and WPLA’s statute of repose, noting that unlike the legislature’s general conclusion that the medical malpractice statute of repose would “tend” to reduce premiums, the Select Committee made no finding that the WPLA statute of repose will achieve a reduction in insurance costs. But Erickson ignores the substance of the Select Committee’s findings as to the impact on rates due to insurance industry concerns. The findings illustrate a specific link, whereas in the medical malpractice statute, a similar link between the legislature’s stated concern about insurance costs and the statute of repose is absent, as discussed in Bennett. Regarding product liability, the Select Committee found that “there did not appear to be a severe problem regarding the availability of product liability insurance in Washington.” Id. at 14. “Rather, the problem was one of affordability.” Id. According to the report, “[o]f greatest concern to product insurers is the length of time a product seller is subject to liability for harm resulting from a product defect, and they contend that the potential ‘long tail’ of exposure is the primary factor influencing rate-setting.” Id. at 19.

While acknowledging the data, the Select Committee noted “an insurer’s perception of potential claims, whether substantiated or not, very likely is reflected in rates.” Id. Litigation expenses “add appreciably to the cost of product liability insurance,” with defense costs amounting to 35 percent of bodily injury payments and 48 percent of property damage payments. Id. at 9. Moreover, product manufacturers “have often expressed concern over the possibility of the imposition of liability based upon an injury caused by an old product” due to both the difficulty in defending such claims and the high cost of insurance for claims-made policies. Id. at 42. “[T]his open-ended situation also affects insurance rates since most product liability insurance is written on a claims-made basis which means that the liability insurer at the time a claim is made is liable regardless of the date of manufacture of the product. Id. Product liability premiums, therefore, must take into account the possibility of claims on products manufactured many years ago.” Id. The Select Committee’s findings indicate that, whether founded or not, insurers had serious concerns about open-ended liability that leads to high insurance rates.

To bring a measure of certainty to the length of exposure but “reflecting its concern in preserving those claims based upon product use which is reasonable in light of its unique characteristics,” the Select Committee recommended following the UPLA concept of the “useful safe life,” rather than “a complete bar after an arbitrary time period.” Id. at 19. The Select Committee acknowledged that establishing an absolute cutoff date would provide certainty for

manufacturers, but “the length of the statute of repose may not bear any relation to the useful life of the product.” Id. at 42. The Select Committee’s solution was to tie the statute of repose to the useful safe life of the product. The statute of repose includes a presumption of 12 years as the useful safe life, which the claimant can overcome with a preponderance of the evidence. In order to “mitigate the harshness” the 12-year presumption imposes on claimants, the Select Committee recommended the “preponderance of the evidence” standard, rather than the higher “clear and convincing” standard in UPLA. Id. at 19-20. “The use of a rebuttable twelve-year presumption of usefulness should create a degree of certainty in the law without depriving the claimant of the ability to demonstrate that, in fact, the product was still in a useful condition at the time of the injury.” Id. at 43.

Erickson contends that the legislature’s desire to balance the interests of different stakeholders was not considered an adequate justification for immunizing certain defendants in Bennett and should not provide reasonable grounds for the WPLA statute of repose. However, unlike the general statements of legislative compromise discussed in Bennett, the Select Committee provided specific explanations for the ways in which its research drove the recommendations that balance the competing interests. The comprehensive research and reporting by the Select Committee established that product liability insurers’ concern about “long-tail” claims—whether substantiated or not—contributed to insurance costs. The insurers wanted a degree of certainty for the

length of their liability, and the Select Committee recommended a statute of repose to provide a measure of this desired certainty. The Select Committee also acknowledged the impact of the statute of repose on claimants and made the presumptive timeline long enough for most claims and with a lower “preponderance” evidentiary standard to rebut the presumption.

Finally, Erickson argues that WPLA’s statute of repose contains exceptions that, as in Bennett, run counter to the purpose of the statute of repose. The exceptions in RCW 7.72.060 allow for claims beyond a product’s useful safe life if (1) the seller warranted a longer period of time, (2) the seller intentionally misrepresents facts or conceals information about the product and the conduct was the proximate cause of claimant’s harm, and (3) the harm was caused by exposure to a defective product occurred within the safe useful life of the product even though the harm did not manifest until later. RCW 7.72.060(1)(b). Therefore, these “exceptions” preserve a claimant’s ability to pursue a product liability claim in certain circumstances, expanding WPLA’s coverage beyond a products useful safe life, generally where the defendant’s behavior has warranted such liability.

Moreover, for the purposes of the privileges and immunities clause, “the question is not whether the statute’s *exceptions* are reasonable. Instead, the question is whether barring those remaining claims, which *are* subject to the statute of repose, in fact serves the legislature’s stated rationale.” Bennett, 2 Wn.3d at 451. As the Select Committee’s research and recommendations show,

precluding lawsuits relating to products that are beyond their safe useful life furthers the research-supported goal of reducing the insurance industry's concerns about "long-tail" claims. By contrast, in Bennett, due to the exceptions, the medical malpractice statute of repose "does not in fact serve the legislature's stated rationale of preventing stale claims generally." 2 Wn.3d at 451.

Unlike the cursory legislative reasoning for the medical malpractice statute of repose described in Bennett, the Select Committee supplied data and analysis that establish reasonable grounds for the WPLA statute of repose. Therefore, the WPLA statute of repose does not violate the privileges and immunities clause of the Washington Constitution.

We hold that WPLA's statute of repose, not Missouri law, applies to Erickson's claims in this case. Because there may be factual issues relating to the application of WPLA's statute of repose that have not been fully litigated, we reverse and remand to the trial court for proceedings.

C. Choice of Law as to Punitive Damages

Pharmacia also contends the trial court erred by allowing the jury to consider and award punitive damages under Missouri law. Before we engage in a choice-of-law analysis, we first consider whether an actual conflict exists. Rice, 124 Wn.2d at 210. Here, a conflict does exist, as Washington law does not provide for punitive damages, but Missouri law does. See Barr v. Interbay Citizens Bank of Tampa, Fla., 96 Wn.2d 692, 699, 635 P.2d 441 (1981) ("punitive damages are not allowed unless expressly authorized by the legislature"); Poage

v. Crane Co., 523 S.W.3d 496, 515 (Mo. App. 2017) (discussing requirements for allowing punitive damages).

Next, as with the statute of repose, we must determine whether to conduct a separate choice-of-law analysis on this issue, distinct from the choice of substantive law on product liability. Restatement (Second) § 171 addresses the separate issue of damages in tort actions, stating, “The law selected by application of the rule of § 145 determines the measure of damages.” Then, § 171, comment b elaborates:

The determination of the state of the applicable law should be made in the light of the choice-of-law principles stated in § 6. In general, this should be the state which has the dominant interest in the determination of the particular issue. The state of conduct and injury will not, by reason of these contacts alone, be the state that is primarily concerned with the measure of damages in a tort action. The local law of this state will, however, be applied unless some other state has a greater interest in this issue.

Comment d specifies that “[t]he law selected by application of the rule of § 145 determines the right to exemplary damages.”¹⁷ Therefore, the issue of punitive

¹⁷ The more recent Restatement (Third) contains a separate section on punitive damages, which is consistent with Restatement (Second) § 171 that the law governing the availability of punitive damages for torts is the law selected under the other choice-of-law rules for the tort. RESTATEMENT (THIRD) OF CONFLICT OF LAWS, § 6.12 (AM. L. INST., Tentative Draft No. 4, 2023). The comment to this new § 6.12 explains why this separate section was added:

A Section specific to punitive damages is necessary . . . because the significance of certain connecting factors differs from the ordinary tort case. Because punitive damages are designed to punish the tortfeasor rather than to compensate the victim, the tortfeasor’s domicile is a more significant contact, and the victim’s domicile less significant.

Id. § 6.12 cmt. By contrast, the Restatement (Second) identifies exemplary damages simply as a subset of other damages and states, “The law selected by application of the rule of § 145 determines *the measure of damages*.” RESTATEMENT (SECOND) § 171 (emphasis added). Using the terminology from the Restatement (Third), “measure of damages” is a “loss-allocation” issue—i.e., an “issue relating to persons,” Restatement

damages would generally follow the choice-of-law analysis for the substantive law on liability—in this case, WPLA.¹⁸ WPLA has no explicit provision on punitive damages.¹⁹ Because WPLA has not expressly authorized punitive damages, they are not authorized for WPLA claims under Washington law. See Barr, 96 Wn.2d at 697 (express legislative authorization required for punitive damages).

However, notwithstanding these statements in Restatement (Second) § 171, Washington courts have applied a separate choice-of-law analysis to the issue of punitive damages for tort claims, analyzing the factors identified in Restatement (Second) § 145 to determine which state has the most significant interest. Singh v. Edwards Lifesciences Corp., 151 Wn. App. 137, 144, 210 P.3d 337 (2009); Barr v. Interbay Citizens Bank of Tampa, Fla., 96 Wn.2d 692, 697-98, 635 P.2d 441 (1981); Kammerer v. W. Gear Corp., 96 Wn.2d 416, 421-22, 635 P.2d 708 (1981). In doing so, courts have sometimes engaged in dépeçage and, after analyzing the issue of punitive damages, have determined that a different state’s law applies to punitive damages than to the underlying tort liability claim. In other words, depending on the issue, some contacts may be more important in determining which state’s interest is greater.

(Third) § 6.05, whereas punitive damages relate to “conduct-regulation.” Id. § 6.04. Thus, under the Restatement (Third) approach, different factors may be more or less important depending on the specific issue, even if related to the same tort claim.

¹⁸ As discussed above, here, there was no need for a choice-of-law analysis analyzing the Restatement (Second) § 145 contacts as to the substantive law regarding liability because Erickson opted to file a WPLA claim, and Pharmacia did not challenge this choice as to liability.

¹⁹ WPLA evinces an intent not to disturb previous existing law, but this statement is limited to the law on product liability, not other aspects of existing law such as punitive damages. RCW 7.72.020(1) (“The previous existing applicable law of this state on product liability is modified only to the extent set forth in this chapter.”).

In Barr, a lender in Florida hired agents in Nevada to travel to Washington to repossess the plaintiff's automobile. 96 Wn.2d at 694-95. The plaintiff filed suit for conversion, intentional infliction of emotional distress, and outrageous conduct by the defendant bank. Id. at 695. Washington was the state of the injury and plaintiff's domicile. Florida was the bank's domicile and where the conduct at issue occurred. Id. at 698. While Florida had an interest in deterring the conduct, its interest would not be furthered when the immediate conduct causing the injury was in Nevada and Washington; thus, the court found Florida's interest subordinate to Washington's. Id. at 699.

Kammerer, decided the same day as Barr, involved a lawsuit for breach of a patent licensing agreement and fraud after a Washington corporation failed to pay royalties for manufacturing products based on patents owned by California residents. 96 Wn.2d at 418. The defendant had gone to California to negotiate the agreement, and the parties had agreed California law would apply. Id. at 423. In determining whether to apply California law allowing punitive damages, the court concluded, "[w]here the most significant relationships were in California and where the conduct and acts as to the fraud and misrepresentation were accomplished in California that state has a specific interest to be furthered." Id. California had an obvious interest in protecting its residents from fraud, whereas Washington had no interest in protecting a company that committed fraud. Id. at 422. Washington's interests were not superior to or inconsistent with California's

interests. Therefore, the application of California law to allow punitive damages would further California's specific interest. Id. at 422-23.

The court in Singh likewise held that California law on punitive damages could apply. 151 Wn. App. at 148. There, a California company manufactured a medical device that malfunctioned during surgery, resulting in irreparable damage to plaintiff's heart and leading to a heart transplant and subsequent cancer diagnosis from the anti-rejection medication. Id. at 140-41. As a Washington resident, plaintiff filed a product liability claim under WPLA, and the Washington hospital filed cross-claims against the manufacturer for fraud, violation of the Consumer Protection Act, and breach of contract. Id. at 141. Both the patient and the hospital sought punitive damages under California law. Id. Evidence presented at trial demonstrated that the manufacturers knew of the flaw and the resulting malfunction but decided against recalling the product or warning users. Id. The jury found defendant's conduct to be malicious and awarded punitive damages under California law to both the patient and the hospital. Id. at 142. This court affirmed the award of punitive damages under California law. "Even though Washington has a strong policy against punitive damages, it has no interest in protecting companies that commit fraud. Where, as here, an entity headquartered in California, committed the conduct in California that resulted in the plaintiff's damages, California had the greater interest in deterring such fraudulent activities." Id. at 140.

As Singh and Kammerer demonstrate, Washington courts will allow punitive damages under the law of another state when that state has an interest in punishing or deterring egregious conduct that is greater than any interest Washington has in not allowing punitive damages. A key consideration in these cases appears to be the location of the conduct that caused the injury and that state's interest in deterring the conduct at issue by the tortfeasor.²⁰

Using the “most significant relationship” factors in Restatement (Second) § 145, we consider the place of injury, the conduct that caused the injury, the parties' domiciles, and the place where the parties' relationship, if any, is centered.²¹ Here, the contacts are evenly split: the place of injury is Washington; the conduct that caused the injury is in Missouri; and the parties are domiciled in Washington and Missouri, respectively. As in Kammerer and Singh, the state where the conduct at issue occurred—here, Missouri—has an interest in deterring the unlawful conduct that caused the injury, particularly when the

²⁰ This weighting of factors accords with Restatement (Third) § 6.12 on punitive damages. Like Restatement (Second) § 171 on damages generally, Restatement (Third) suggests that the same state's law selected under the choice-of-law rules applicable to the tort should govern the availability of punitive damages. It adds that punitive damages “may not be awarded if they are disallowed under the law of two of the following three states: (1) the defendant's domicile; (2) the place of the conduct; (3) the place of injury.” RESTATEMENT (THIRD) § 6.12. This guidance is consistent with the results in Singh (defendant in California, conduct in California, injury in Washington, California law on punitive damages applied), Kammerer (defendant in California, conduct in California, injury in Washington, California law on punitive damages applied), and Barr (defendant in Florida, conduct in Washington and Nevada, injury in Washington, Washington law on punitive damages applied).

²¹ Restatement (Third) § 6.11 adds the place in which the product was delivered to the first end user as an additional relevant contact for product liability claims. Here, that state is Washington.

alleged tortfeasor has its place of business there. Washington does not have an interest in protecting Missouri companies that engage in injury-causing conduct.

In this case, Missouri has the greater interest in deterring or punishing any egregious conduct found in this case. Missouri product liability law permits punitive damages where clear and convincing evidence proves “ ‘that the defendant showed a complete indifference or conscious disregard for the safety of others.’ ” Peters v. Gen. Motors Corp., 200 S.W.3d 1, 24 (Mo. Ct. App. 2006) (quoting Letz v. Turbomeca Engine Corp., 975 S.W.2d 155, 165 (Mo. Ct. App. 1997)). In Missouri, punitive damages may be submitted to the jury if some element of outrageous conduct is demonstrated that shows the defendant acted with a “ ‘willful, wanton or malicious culpable state.’ ” Ingham v. Johnson & Johnson, 608 S.W.3d 663, 714 (Mo. Ct. App. 2020) (quoting Poage, 523 S.W.3d at 515).

Thus, to the extent Missouri’s product liability law prohibits the same conduct as prohibited by WPLA, plaintiffs may seek punitive damages because Missouri has a more significant interest pursuant to an analysis of relevant contacts. However, Missouri lacks a cause of action for post-sale failure to warn. Therefore, Missouri cannot be said to have an interest in deterring conduct that it does not deem unlawful, and punitive damages would not be available for Erickson’s post-sale failure to warn claim.

The jury awarded substantial punitive damages, but due to the general nature of the verdict form, we cannot determine which cause of action resulted in

the award of punitive damages.²² Compare Blanks v. Fluor Corp., 450 S.W.3d 308, 364 (Mo. Ct. App. 2014) (reversing punitive damage award against one defendant as jury instructions required jury to consider undifferentiated conduct). In future proceedings, special interrogatories are required to establish the particular theory of liability supporting punitive damages, limited to claims that exist under Missouri law.

II. Proposed Jury Instructions

Although we reverse and remand to the trial court based on our conclusion that Washington law, including WPLA's statute of repose, applies to determine liability for plaintiffs' product liability claims, because additional issues raised by Pharmacia are likely to recur in future proceedings in this case, we address them in this opinion. Thus, we turn next to Pharmacia's claims that the trial court erred by refusing to give jury instructions related to two defenses.

"Where substantial evidence supports a party's theory of the case, trial courts are required to instruct the jury on the theory." Taylor v. Intuitive Surgical, Inc., 187 Wn.2d 743, 767, 389 P.3d 517 (2017). Jury instructions are sufficient if they are supported by the evidence, allow each party to argue their theory of the case, and, when taken as a whole, properly inform the trier of fact of the applicable law. Fergen v. Sestero, 182 Wn.2d 794, 803, 346 P.3d 708 (2015). Whether to give a jury instruction is within the court's discretion and, therefore,

²² Given this ruling on punitive damages, we need not address Pharmacia's arguments challenging the amount of punitive damages awarded.

reviewed for abuse of that discretion. Id. at 802. “A trial court abuses its discretion if its decision is manifestly unreasonable or based on untenable grounds or untenable reasons.” In re Marriage of Littlefield, 133 Wn.2d 39, 46-47, 940 P.2d 1362 (1997).

A. Relevant Product

Pharmacia sought an instruction that would have allowed the jury to find that the PCB-containing capacitor or the FLB that incorporated the capacitor, rather than PCBs, was the “relevant product” that caused harm by failing to contain the PCBs. The trial court denied the requested instruction, ruling, “There is no question that PCBs are the relevant product as a matter of law and there is no factual issue to submit to the jury.” Erickson argues the trial court correctly held, as a matter of law, that PCBs are the relevant product. We agree with Erickson.

To determine what is the relevant product, we look to how WPLA defines and uses the term. First, WPLA defines when a manufacturer is liable:

[a] product manufacturer is subject to liability to a claimant if the claimant’s harm was proximately caused by the negligence of the manufacturer in that the product was not reasonably safe as designed or not reasonably safe because adequate warnings or instructions were not provided.

RCW 7.72.030(1).

The term “relevant product” also appears in several other definitions that limit *who* may be held liable under WPLA. “ ‘Manufacturer’ includes a product seller who designs, produces, makes, fabricates, constructs, or remanufactures

the relevant product or component part of a product before its sale to a user or consumer.” RCW 7.72.010(2) (emphasis added). “ ‘Product seller’ means any person or entity that is engaged in the business of selling products, whether the sale is for resale, or for use or consumption. The term includes a manufacturer, wholesaler, distributor, or retailer of *the relevant product*.” RCW 7.72.010(1) (emphasis added).

The statute then defines “relevant product” as “that product or its component part or parts, which gave rise to the product liability claim.” RCW 7.72.010(3). Further, WPLA specifies the kinds of actions that can cause harm for which a claim can be brought, *i.e.*, the actions that trigger liability: A “ ‘product liability claim’ includes any claim or action brought for harm caused by the manufacture, production, making, construction, fabrication, design, formula, preparation, assembly, installation, testing, warnings, instructions, marketing, packaging, storage or labeling of *the relevant product*.” RCW 7.72.010(4) (emphasis added).

Thus, the “relevant product” is a limiting factor as to whether a particular defendant may be held liable for the alleged harm as the manufacturer or product seller. Here, plaintiffs’ product liability claims are for harms suffered as a result of the toxic nature of PCBs, which they claim were “not reasonably safe” in construction or design and did not have proper warnings.

Pharmacia mischaracterizes the cases discussing “relevant product.” First, it suggests that a product must fail in order to be a relevant product, citing

Sepulveda-Esquivel v. Cent. Machine Works, Inc., 120 Wn. App. 12, 84 P.3d 895 (2004). There, the plaintiff suffered injuries when a large piece of equipment fell on him. Id. at 15. The crane that moved the equipment had a hook, and the equipment was secured in the hook by a device called a “mouse.” Id. at 16-17. One of the defendants had forged the hook and the other had supplied it, but neither had a connection to the mouse. Id. Pharmacia points to the court’s statement that “since the hook did not fail, the hook is not a ‘relevant product’ which would give rise to the product liability claim.” Id. at 13. But the key holding was not that a product must fail to be a “relevant product”; rather, the case turned on whether the defendants had a qualifying relationship to the product that is alleged to have caused the harm. As the court explained,

[N]either Central nor Ulven made, supplied, or sold the finished, completed hook assembly with the mouse. Neither Central nor Ulven was asked to design, forge, make, or sell an interior, locking device on its hook. Because there was no defect in the hook itself, Ulven is without fault; Central is without fault because it did not design the hook and merely provided the hook according to the purchaser’s specifications, including the lack of a closing device.

Id. at 19. The company that manufactured the mouse was not named as a party to the lawsuit. Id. at 15. The hook was not the relevant product, so the defendants were not manufacturers or sellers of the relevant product. Therefore, the defendants were not liable for the injuries. Id. at 19. Sepulveda-Esquivel does not alter the statutory language to require that a “relevant product” must “fail.”

Pharmacia also cites O’Connell v. MacNeil Wash Sys. Ltd., 2 Wn. App. 2d 238, 246, 409 P.3d 1107 (2017), as support for the proposition that to prevail, a

WPLA plaintiff must show that the “relevant product” failed. But neither O’Connell nor WPLA supports this proposition. Rather, in accord with RCW 7.72.030(1), O’Connell states, “a plaintiff must show that (1) a manufacturer’s product (2) was not reasonably safe because of its design or because of lack of adequate warnings or instructions, which (3) caused harm to the plaintiff.” O’Connell, 2 Wn. App. 2d at 246 (citing Ayers v. Johnson & Johnson Baby Prods. Co., 117 Wn.2d 747, 752, 818 P.2d 1337 (1991); Thongchoom v. Graco Children’s Prods., Inc., 117 Wn. App. 299, 304, 71 P.3d 214 (2003)). “Failure” of a product is not an element of a WPLA claim.

Rather, as Erickson notes, a defendant may be liable even when “the relevant product [is] functioning as intended, yet the overall design of said product can be defective due to its lack of incorporated safety components or warnings about dangers related to its design.” O’Connell, 2 Wn. App. 2d at 248 n.3. But this does not change the elements of a WPLA claim to require “failure.”

Pharmacia additionally argues that a plaintiff’s complaint “does not dictate the ‘relevant product,’ ” and “the plaintiff must actually prove what the ‘relevant product’ is.” It is certainly a correct statement that the plaintiff must prove the elements of its WPLA claim, and that a product manufacturer cannot be liable unless the plaintiff establishes “the claimant’s harm was proximately caused by the negligence of the manufacturer in that the product was not reasonably safe as designed or not reasonably safe because adequate warnings or instructions were not provided.” RCW 7.72.030(1). But contrary to Pharmacia’s assertion, it *is*

the plaintiff who determines what is alleged to be the relevant product that caused harm, as well as whom it seeks to hold liable under WPLA. Indeed, as Sepulveda-Esquivel demonstrates, this control over the claim may be at the plaintiff's peril, if it has not sued the correct party. Thus, a defendant in a WPLA case may defend by establishing that the product it manufactured was not the cause of the harm. Whether other additional entities not named by the plaintiffs as defendants in their complaint could also be liable for the products *they* manufactured is not at issue here, similar to Sepulveda-Esquivel.

WPLA does not require that the plaintiff prove that the "relevant product" failed. Even without the requested "relevant product" instruction, Pharmacia was able to argue this theory of the case. See Fergen, 182 Wn.2d at 803 (jury instructions must allow each party to argue their theory of the case). Pharmacia could, and did, argue that blame was attributable to the FLBs and capacitors rather than PCBs themselves. Because the trial court's refusal was not made on untenable grounds, we conclude that it did not abuse its discretion in declining to issue Pharmacia's requested "relevant product" instruction.

B. Raw Materials Supplier for Sophisticated Purchasers

Pharmacia contends the trial court erroneously refused to instruct the jury on its theory that it was a "supplier of raw materials to a sophisticated purchaser."

Erickson argues that Washington has declined to adopt this rule outside of the pharmaceutical context. Erickson is correct.

Pharmacia argues that a supplier has no duty to warn an ultimate user where the supplier insures the buyer was knowledgeable about the dangers and could warn the ultimate users, or the buyer was already aware of the dangers. In support, Pharmacia cites Zamora v. Mobil Corp., 104 Wn.2d 199, 204-05, 704 P.2d 584 (1985), in which a house fire killed several children due to a propane leak that went undetected because the gas was not properly odorized. Id. at 201. The appellants brought a wrongful death suit against several defendants, including Mobil, who marketed the propane but did not physically handle, modify, alter, transport, or refine it. Id. at 202. Relying on a Kansas propane case, Zamora stated that a propane seller can delegate to the retailer its duty to warn the ultimate consumer. Id. at 205. “[T]he distributor had only a duty to insure that the *retailer* was knowledgeable regarding the dangers and was able to warn the ultimate buyers.” Id. Additionally, “the bulk seller has no duty to warn the retailer of the dangers of a product if that retailer is already aware ‘through common knowledge or learning’ of a specific hazard.” Id. at 205 (quoting Lancaster Silo & Block Co. v. N. Propane Gas Co., 75 A.D.2d 55, 427 N.Y.S.2d 1009 (1980)). As a result, Mobil had no duty to warn the propane retailer of the obvious danger posed by the gas, and could rely on the retailer to warn the ultimate customers. Zamora, 104 Wn.2d at 205.

At first blush, the facts of Zamora appear similar to this case, as Monsanto did not sell PCBs directly to Erickson, but instead was a manufacturer and bulk seller of PCBs to large sophisticated industrial entities like GE, who then used the PCBs to manufacture FLBs. These electrical equipment manufacturers knew the hazards of PCBs.

However, in a case subsequent to Zamora, the Washington Supreme Court explicitly “reject[ed] this ‘sophisticated purchaser’ approach to apparent manufacturer liability as inconsistent with Washington law.” Ruble v. Carrier Corp., 192 Wn.2d 190, 207-08, 428 P.3d 1207 (2018). The court explained that Washington does not differentiate between types of users or consumers in product liability cases, using the sophisticated purchaser defense as an example of this uniform approach to product liability. Id. at 208. “Washington courts have uniformly rejected a sophisticated user defense, under which product distributors are not required to instruct or warn sophisticated users about certain risks because such users are presumably already aware of the risks due to their expertise or sophistication.” Id. The only exceptions arise in the context of consumers of pharmaceuticals or medical devices, where the “learned intermediary” doctrine applies, and manufacturers of medical products obtainable only through physicians fulfill their duty to warn by giving adequate warning to the physicians who prescribe the product. Id. at 208-09.

When Pharmacia requested a sophisticated purchaser jury instruction, the trial court declined because, “there isn’t a sophisticated purchaser thing in

Washington law other than the learned intermediary when we're talking about pharmaceuticals." The court's denial of the requested instruction reflects the law as stated in Ruble. A sophisticated purchaser instruction would have misinformed the jury by providing the law on a theory that does not exist in Washington. The trial court did not abuse its discretion by denying the instruction because it correctly applied the law and, thus, was not on untenable grounds.

III. Expert Testimony

Both Pharmacia and Erickson proffered testimony from multiple experts. Pharmacia challenges the admission of testimony from three experts under Frye and/or ER 702: Kevin Coghlan, Dr. Richard Perrillo, and Dr. James Dahlgren.

To admit expert testimony under ER 702, the trial court must determine that the witness qualifies as an expert and the testimony will assist the trier of fact. Lahey v. Puget Sound Energy, Inc., 176 Wn.2d 909, 918, 296 P.3d 860 (2013). "The courts serve the gatekeeping function of keeping out 'unreliable, untested, or junk science.'" L.M. v. Hamilton, 193 Wn.2d 113, 127, 436 P.3d 803 (2019) (quoting Anderson v. Akzo Nobel Coatings, Inc., 172 Wn.2d 593, 606, 260 P.3d 857 (2011)).

To that end, to be admissible, expert testimony based on novel scientific evidence must satisfy both the Frye test and ER 702. Lahey, 176 Wn.2d at 918. "Frye and ER 702 work together to regulate expert testimony: Frye excludes testimony based on novel scientific methodology until a scientific consensus

decides the methodology is reliable; ER 702 excludes testimony where the expert fails to adhere to that reliable methodology.” Id. at 918-19.

“Only after novel scientific evidence is found admissible under Frye does the court turn to whether it is admissible under ER 702.” Anderson, 172 Wn.2d at 603. ER 702 allows expert testimony that is helpful to the jury. Unreliable testimony fails the helpfulness requirement of ER 702. Lakey, 176 Wn.2d at 920.

We review de novo a trial court’s decision on whether to exclude evidence under Frye. Anderson, 172 Wn.2d at 600. We review a trial court’s decision on the admissibility of expert testimony under ER 702 for abuse of discretion. L.M., 193 Wn.2d at 134. A trial court abuses its discretion by “issuing manifestly unreasonable rulings or rulings based on untenable grounds.” Lakey, 176 Wn.2d at 919. In order to conclude a trial court abused its discretion, a reviewing court must be convinced that no reasonable person would take the view adopted by the trial court. L.M., 193 Wn.2d at 134. We will not disturb a trial court’s ruling if the basis for admission is fairly debatable. Id. Moreover, a reviewing court will not hold a trial court abused its discretion simply because it would have decided the issue differently. Id.

A. Kevin Coghlan

Erickson offered testimony from industrial hygienist Kevin Coghlan, M.S., C.I.H., to prove plaintiffs’ exposure to harmful levels of PCBs and furans during

their tenure at SVEC.²³ Coghlan provided a conservative estimate of PCB air levels “several hundred to several thousand nanograms per cubic meter,” ranging from approximately 100 or 200 ng/m³ to over 2,500 ng/m³. While the range was broad, Coghlan opined that the plaintiffs had exposures that exceeded the NIOSH²⁴-recommended workplace exposure level of 1,000 ng/m³.

Coghlan conceded that no testing for PCBs occurred during the time frame that the plaintiffs worked at SVEC. As a result, Coghlan estimated historical PCB levels to show that plaintiffs had been exposed while at SVEC. He testified, “without actual air data, we had to rely on some other techniques to reconstruct those exposures.” Coghlan used three approaches to arrive at an estimated exposure range, each of which Pharmacia challenges: back-calculation from carpet samples, reliance on remediation calculations in six New York schools, and a direct comparison to the New York schools in the study. We discuss each approach in turn.

1. Back-Calculation from Carpet Samples

One of Coghlan’s challenged methods involved extrapolating historical air levels based on carpet samples obtained from SVEC by teachers in December 2015. The teachers double-bagged the samples in Ziploc bags and stored them

²³ Pharmacia moved to exclude Coghlan’s estimates of historical air levels under Frye and ER 702. The trial court initially granted the motion, noting, “it’s not generally accepted in the scientific community yet. It’s never been tested. It’s never been peer reviewed.” Plaintiffs moved for reconsideration, which the trial court granted. According to the court, Coghlan’s testimony did not use a novel scientific theory and “[t]he Frye objection appears to go to the *manner* in which Coghlan applied the theory.”

²⁴ National Institute for Occupational Safety and Health.

in a paper bag in the basement of a teacher's house. In 2019, Coghlan had the carpet samples tested for PCBs and used those results to estimate the historical level of PCBs in the air at SVEC.

Coghlan based his carpet back-calculation on an EPA study of "PCB transport from primary sources to building materials." Building materials, furniture, and other indoor features passively "pick up" PCBs from the contaminated air through processes known as advection and diffusion. The "source-sink dynamics" approach investigates the mechanisms by which PCBs transfer or migrate from a primary source to other secondary materials, or "sinks."

In the study on which Coghlan based his methodology, the "Guo Study,"²⁵ the EPA conducted a controlled chamber experiment to determine the rate at which certain building materials and furniture adsorbed²⁶ airborne PCBs. The specific objectives of the study were:

- (1) conduct laboratory experiments to study the transport of PCBs through material/air partitioning (i.e., from the air to interior surfaces and settled dust) and through material/source partitioning (i.e., from primary sources to settled dust);
- (2) to identify mathematical tools that can be used to rank the strengths of PCB sinks and to predict their behavior;
- and (3) to estimate the key parameters required as inputs to the mathematical tools, such as sorption capacity, partition coefficients, and diffusion coefficients.

²⁵ Zhishi Guo, et al., EPA, *Laboratory Study of Polychlorinated Biphenyl (PCB) Contamination and Mitigation in Buildings, Part 2. Transport from Primary Sources to Building Materials and Settled Dust*, Jan. 2012.

²⁶ Coghlan's report describes adsorption as "the adhesion of atoms, ions or molecules from a gas, liquid or dissolved solid to a surface of the material."

The methodology of the Guo Study involved placing samples of different materials in a chamber and exposing them to a single source of PCBs in the form of a field caulk sample. The tested materials included two types of carpet. The PCB concentrations in the test chamber air were monitored, and the material samples were removed at different times to test their PCB content. These samples were used to calculate the concentration of adsorbed PCBs for the various materials and to estimate the partition and diffusion coefficients.

Coghlan used the Guo Study's calculated rate of accumulation of PCBs in carpet from the chamber testing to extrapolate the historical PCB levels in the air based on the carpet samples from SVEC. To do so, Coghlan first measured the PCB levels in the SVEC carpet samples, then applied the "multiplication property of equality," to rearrange the Guo Study's mathematical equation for the rate of adsorption of airborne PCBs to carpet. Using this new equation, Coghlan calculated the historical air levels of PCBs from the known value in the SVEC carpet samples. Through this "back-calculation," Coghlan estimated air values at a range of 340 to 9,500 ng/m³ for SVEC during the time the teachers worked at the school.

The parties dispute whether these results are admissible under Frye and ER 702. When faced with expert testimony based on novel science, the court applies the Frye test, considering (1) whether the underlying theory is generally accepted in the scientific community, and (2) whether there are techniques, experiments, or studies using the theory that are capable of producing reliable

results and are generally accepted in the scientific community. Anderson, 172 Wn.2d at 603. “To determine whether a consensus of scientific opinion has been achieved, the reviewing court examines expert testimony, scientific writings that have been subject to peer review and publication, secondary legal sources, and legal authority from other jurisdictions.” Eakins v. Huber, 154 Wn. App. 592, 599, 225 P.3d 1041 (2010). The scientific community need not be unanimous; the court should exclude the expert opinion only if there is a significant dispute among qualified scientists. L.M., 193 Wn.2d at 128.

Erickson contends that Coghlan’s estimated levels reflect generally accepted science of source-sink dynamics as set out in a published and peer-reviewed EPA study. Coghlan claimed he “simply re-arranged the equation using an uncontroversial and widely-accepted algebra technique to solve for the levels of PCBs in the air that were required to produce the levels of PCBs measured in the carpet samples, relying on the empirically-derived relationship between PCBs in the air and carpet measured by the EPA.”

According to Erickson, Pharmacia’s complaint is that Coghlan *misapplied* source-sink dynamics by reversing the EPA study’s model. It is true that the application of accepted techniques to reach novel conclusions does not implicate Frye. Lakey, 176 Wn.2d at 919. But Erickson mischaracterizes Pharmacia’s concern. Pharmacia does not contest the general acceptance of the science of source-sink dynamics. Instead, it alleges that the novel science is Coghlan’s

method of calculating PCB levels in the air from a known adsorbent source material.

Indeed, several experts testified that the method Coghlan used to arrive at his estimates was not generally accepted or valid. John Woodyard, PhD, an environmental engineer with an expertise in investigating the presence of PCBs and furans, stated that Coghlan's methods were "unprecedented." According to Woodyard, Coghlan took the PCB results from the carpet "and basically assumed that all of the PCBs in that carpet sample came from the air, and then theorized, based on some calculations, what the previous air levels had been that would have allowed the PCBs to reach that level in the carpet." Woodyard testified that using the carpet to back-calculate air levels was not scientifically valid and had never been done before. He said, "you always would rely on real data. You can't back-calculate like that."

Environmental scientist Russell Keenan, PhD, who specialized in toxicology and risk assessment, provided similar testimony critiquing Coghlan's methodology. He emphasized that "[t]he cardinal rule in risk assessment is to use real data." He further explained, "[y]ou cannot use data from unverified models. A model would . . . have to be vetted and peer reviewed before it could be used, and even then . . . it is not as high up on the hierarchy as real data are." But in this case, Coghlan used estimated data based on unverified models. Keenan testified that Coghlan's "methodology was a theoretical approach, which has never been subjected to peer review, never been subjected to validation, and just

doesn't make sense, when one has real data." In Keenan's experience, the EPA would not accept an unvalidated model such as the carpet back-calculations. Environmental health scientist Shannon Gaffney, PhD, agreed, stating in a report, "Mr. Coghlan chooses to use the chamber study calculation in a way that is unprecedented, and to our knowledge, a method that has never been proven to be valid for real-world scenarios."

Coghlan admitted that he did not know of any peer-reviewed literature where a scientist took concentrations of PCBs in carpet and from those, then estimated levels of PCB in the air, nor was he aware of any scientists who had used his method. He also agreed that nobody, including the EPA, had conducted the reverse experiment—*i.e.*, used a piece of PCB-contaminated carpet in a chamber and then measured the resulting PCB concentrations in the air—in a manner that would support his calculations.

Moreover, the Guo Study underpinning Coghlan's methodology provided a warning on the use of its source-sink data. The study notes that it was limited only to laboratory testing. It explicitly states,

Because of time constraints, this study tested only a small number of sink materials (20 building and furniture materials and two types of dust). The number of tests conducted was also rather small. There are many types of building and furniture materials, and there are many brands and varieties of each type, all of which have different physical and chemical properties. Thus, care should be taken when applying the test results to seemingly similar materials in real-world situations.

Coghlan's methodology ignored these stated limitations and purported to calculate results in a "real-world situation" without the "stable source of PCBs" as

in the study. Coghlan acknowledged that the “rough estimate” values from the Guo Study had not been validated in real world situations outside of the experimental chamber. In a section entitled “Method Limitations,” the Guo Study stated “the results should be treated as rough estimates. To solve the fundamental problem, the partition and diffusion coefficients should be determined independently.” Coghlan admitted he did not independently determine the partition and diffusion coefficients with respect to the carpet. He also conceded that in performing these calculations, he assumed what he was trying to prove, that the PCBs in the carpet came from the air.

Lake Chelan Shores Homeowners Ass’n v. St. Paul Fire & Marine Insurance Co. is instructive. 176 Wn. App. 168, 313 P.3d 408 (2013). There, in order to determine whether an insurance policy applied, a condominium association relied on expert testimony to identify the first date that hidden decay reached a collapse condition. Id. at 177. The expert used a mathematical formula to back-date and trace the progression of wood rot. Id. The condominium association argued that Frye did not apply because the science of wood decay was not new or novel, “but instead is well known and well established and, further, that the mathematical equation used by its experts relies on that accepted science to draw conclusions about when the rot caused certain buildings to reach a state of collapse.” Id. at 180. The court noted the issue was not “the science of wood decay,” or the conclusions reached; rather, the question was whether the methodology of the formula backdating the decay process was

generally accepted. Id. at 180-81. Both the theory and the methodology used to implement the theory must be generally accepted in the scientific community. Id. at 175. But there, the equation “did not come from any scientific literature”; the expert described his calculations as “ ‘educated guesses’ and was unable to identify any other person or literature stating his formula is a proper equation for estimating rot progression.” Id. at 177. Nor did any witness testify that the scientific community generally accepted the equation the expert used to “work[] backward from present rot conditions.” Id. at 178.

In this case, as in Lake Chelan, there is no dispute that the underlying theory—there, wood decay, and here, “source-sink dynamics”—is generally accepted in the scientific community. However, the *methodology* used by the experts in both cases is not. The Guo Study was an effort to “fill some of the data gaps associated with the *characterization of PCB sinks* in contaminated buildings,” not to apply or develop a replicable methodology based on the theory of source-sink dynamics to determine the amount of PCBs in the air at the outset. Thus, based on the other experts’ opinions as well as his own admissions, Coghlan’s *methodology* of using data from the Guo Study to determine historical PCB levels in the air, particularly when it is unknown if the PCB source was stable, does not enjoy the same general acceptance as the *theory* of source-sink dynamics. Coghlan did not merely apply a generally accepted methodology; rather, like the expert in Lake Chelan, he developed a novel equation to “work

backward” from present condition of carpet samples that were obtained from the “real-world” and not maintained or controlled in a laboratory setting.

The opinions from multiple experts²⁷ consistently state that Coghlan’s methodology of back-calculating historical PCB air levels from SVEC carpet samples was novel and not generally accepted in the scientific community. Coghlan himself acknowledged he did not know of any scientists who had used his method of using concentrations of PCBs in carpet to estimate levels of PCBs in the air, much less any peer-reviewed literature validating this method. It is precisely in such a situation as this that the trial court must “serve the gatekeeping function of keeping out ‘unreliable, untested, or junk science.’ ” L.M., 193 Wn.2d at 127 (quoting Anderson, 172 Wn.2d at 606). Therefore, under Frye, the trial court should have excluded Coghlan’s testimony as to specific historical PCB levels that he calculated using this novel method of back-calculation derived from the Guo Study data.

2. Calculations Based on EPA Study of New York Schools

Coghlan also relied on an EPA study of PCB air levels in six New York schools (New York schools study). This study measured air levels of PCBs in the schools before and after PCB remediation. The purpose of the study was to help improve the understanding of PCBs in school buildings and approaches for

²⁷ We note that in assessing admissibility under Frye, we are not limited to reviewing the evidence from the parties. Ruff v. Dep’t of Labor & Indus., 107 Wn. App. 289, 300, 28 P.3d 1 (2001), overruled on other grounds by Anderson, 172 Wn.2d 593. Here, there is no information in the record or otherwise supporting the conclusion that Coghlan’s back-calculation methodology for determining historical levels of PCBs in the air enjoys general acceptance.

mitigating exposures. The study's research objectives included characterizing levels of PCBs in various aspects of the school environment and investigating relationships between PCB sources and environmental levels, applying an exposure model for estimating children's exposure to PCBs in schools, and providing information to assist in developing risk management practices for reducing exposure in schools. To accomplish this,

[a] limited set of measurement data and information collected using a systematic approach at six schools was used to characterize primary sources of PCBs, to evaluate whether secondary sources were present and their relative importance, to describe PCB concentrations in school environmental media, and to prepare modeled estimates of exposure and characterize the relative importance of different routes of exposure.

The New York schools study itself acknowledged, "[i]t is not known if these results are representative of older schools nationwide, both in terms of the presence of PCB-containing materials and components and the environmental concentrations measured in and around the school buildings." Moreover, "considerable variability" existed both between and within schools.

Despite the variability within the New York schools and the unknown differences between remediation performed in those schools and SVEC, Coghlan employed data from the New York schools study to "back-extrapolate" the PCB concentration in the air at SVEC pre-remediation, circa 2011. According to Coghlan's report, the New York schools study "shows the relative impact of remediation (as was done at SVEC in 2014-2016) in reducing levels of PCBs in the indoor air. Any data collected during or after the remediation work at SVEC

would likely be some fraction of the pre-remediation levels in the School.” To adjust for the impact of remediation and to estimate pre-remediation levels at SVEC, Coghlan used the New York schools data to calculate “a simple ratio” of effectiveness of remediation. He determined the median post-remediation levels of indoor air for the five New York schools was approximately 28 percent of pre-remediation levels, with a range of 10 percent to 72 percent. He calculated that the median pre-remediation levels were about 3.5 times higher compared to post-remediation levels with a range of effectiveness of 1.4 to 10.

Coghlan used the lowest and highest factors (1.4 and 10) and applied them to adjust the February and May 2016 air levels from the SVEC pod building to obtain a pre-remediation estimate. Out of the hundreds of measurements of PCB levels taken throughout SVEC in February and May 2016, Coghlan selected the highest and lowest readings. He applied the 1.4 effectiveness factor to the lowest reading of PCBs detected at SVEC and the factor of 10 to the highest measured value.²⁸ These two data points became the outer limits of the pre-remediation exposure band Coghlan calculated for SVEC. This process of estimating pre-remediation PCB levels at SVEC was not based on a known method applied to the facts of this case, but a method Coghlan derived from an unrelated dataset from a single study that did not purport to make any similar calculations.

²⁸ As an example, Coghlan explained a pre-remediation PCB reading of 1,000 ng/m³ after remediation with an effectiveness factor of 10 would yield a post-remediation reading of 100 ng/m³.

Pharmacia's experts strongly disagreed with Coghlan's reliance on the method he developed based on the New York schools study. Dr. Woodyard testified "the two datasets, the schools, if you will, have nothing in common. [Coghlan] could not demonstrate that they were identical in terms of remediation or other conditions." To derive the pre-remediation numbers at SVEC using the high/low remediation factors he had calculated based on the New York study, Coghlan had to assume "that what had been done in these schools in New York was exactly the same as what was done at Sky Valley, which was not." According to Dr. Woodyard, this method "provides a gross exaggeration of historical PCB levels, which is what he was trying to show." Woodyard further opined that Coghlan's method of calculating pre-remediation PCB levels in the air is "totally inappropriate" and not accepted within the scientific community.

Coghlan used the data from the New York schools to calculate a "remediation coefficient" and estimate the adjusted SVEC air levels in a completely different setting.²⁹ In so doing, Coghlan employed a novel method that is not generally accepted in the scientific community. The trial court should have excluded Coghlan's testimony premised on this method, as it fails the Frye test.

²⁹ Coghlan said that "schools are remarkably similar in many ways," and schools built in the same era typically have the same style of ventilation. However, there is no evidence of other studies using similar methodology to develop a "remediation factor" from other school samples.

3. New York Schools Direct Comparison

Coghlan's final approach to estimating historical PCB levels at SVEC was a direct comparison, rather than application of any methodology to the SVEC data. We evaluate this evidence under ER 702, not under the Frye test. We review a trial court's admission of expert testimony under ER 702 for abuse of discretion. L.M., 193 Wn.2d at 134.

Coghlan explained how he determined SVEC PCB levels through comparison with the New York schools:

[T]he study provides a range of values for different school environments. And so I took -- to be conservative, I took the lowest value they reported and the highest value to say that this is the possible range or likely possible range of values that could have existed at Sky Valley.

Coghlan suggested that the New York schools were similar enough to SVEC for comparison:

[S]chools are remarkably similar in many ways. If you go in and see a school system -- a school has been built, say, pre-1975 or something, the architect and the style of the ventilation typically uses heat ventilators with exhaust systems or some kind of combination thereof, or window AC units, and will use larger ventilation systems for things like gyms and locker rooms, and things of that nature.

In response, Pharmacia pointed to the warning in the New York schools study itself that it "is not known if these results are representative of older schools nationwide." The study noted that "PCB emissions from materials and light ballasts were not directly measured at the six schools. Modeled emission estimates and the resulting predictions of indoor air concentrations have

considerable uncertainties.” The study also explained, “[e]missions from light ballasts are likely to vary depending on the lighting fixture design and the condition of the ballast and capacitor.” Dr. Keenan noted that the study’s authors warned against extrapolating the results to other school systems and testified “that every building is different, every room is different, so it behooves you to use real data, which is location specific.”

But these concerns go to the weight of Coghlan’s testimony that the New York schools were directly comparable to SVEC rather than its admissibility. To the extent Coghlan did not apply any novel calculations derived from the New York schools data, but rather, opined that the New York schools were sufficiently similar to SVEC to make a fruitful comparison, this testimony would assist the jury in determining pre-remediation PCB levels. Allowing the jury to hear this testimony and weigh it against the testimony from Pharmacia’s experts was not an abuse of discretion.³⁰

B. Richard Perrillo

Neuropsychology expert Richard Perrillo, PhD, opined that all three plaintiffs had “abnormal brain[s]” caused by “caused by chronic toxic exposure.” Dr. Perrillo reached these conclusions after conducting various neuropsychological tests on each plaintiff, as well as other teachers and

³⁰ We likewise reject Pharmacia’s challenges to Coghlan’s testimony as inadmissible under ER 702 because he did not defer to the 2016 testing results and because he relied on unreliable carpet samples. These concerns about his testing procedures relate to weight, not admissibility.

students. The trial court admitted the evidence, stating that Pharmacia could call their experts to dispute the testimony “by saying this isn’t good science, this isn’t the way you do it, these things are not, you know, sufficient incidents, we don’t know what the cause is, you know, whatever else they want to argue about it.”

On appeal, Pharmacia argues that in so ruling, the trial court “effectively held” that all Frye challenges should be resolved through cross-examination, when it should have excluded the evidence. Specifically, Pharmacia claims (1) Dr. Perrillo is unqualified to give a causation opinion and (2) because he invented and employed novel and unreliable testing methodologies to show cognitive impairment from PCB exposure, his causation testimony is inadmissible under Frye,³¹ as well as unhelpful to the trier of fact under ER 702.

1. Qualifications

Pharmacia argues Dr. Perrillo was not qualified to opine that plaintiffs suffered from cognitive deficits caused by chronic PCB exposure because he is not a medical doctor and has no training in medicine or toxicology that would allow him to diagnose the case of cognitive symptoms. We agree with Erickson

³¹ Erickson claims Pharmacia failed to raise Frye in its trial court briefing challenging admission of Dr. Perrillo’s opinion evidence. While its briefing does not discuss Frye, Pharmacia raised Frye issues during oral argument on motions in limine. Pharmacia argued that Dr. Perrillo created novel composite testing scores that had not been peer-reviewed, validated through testing or adopted by any organization. Pharmacia also asserted Dr. Perrillo employed a methodology, which relates directly to the Frye analysis. The record shows that Pharmacia challenged Dr. Perrillo’s testimony as novel under the Frye test and, therefore, did not waive the issue.

that despite lacking those specific credentials, Dr. Perrillo was qualified to testify about neuropsychological effects of PCB exposure.

Under ER 702, a witness may qualify as an expert “by knowledge, skill, experience, training, or education.” “When determining whether a witness is an expert, courts should look beyond academic credentials.” L.M., 193 Wn.2d at 135. As an example, a nonphysician may qualify as an expert to testify in a medical malpractice case. Id. In assessing an expert’s qualifications, the court must consider whether the expert has sufficient expertise in the relevant specialty. Id. “[T]rial courts are afforded wide discretion, and trial court expert opinion decisions will not be disturbed on appeal absent an abuse of such discretion.” Johnston-Forbes v. Matsunaga, 181 Wn.2d 346, 355, 333 P.3d 388 (2014).

Here, Dr. Perrillo has significant experience with neuropsychological assessments of both abnormal and normal populations, having evaluated thousands of patients in the last 34 years. Dr. Perrillo testified that he had worked extensively with patients experiencing toxic acquired brain injury, including people exposed to toxic solvents, toxic treatment for hepatitis, and silicone breast implant ruptures. His current area of expertise involves the clinical and neuropsychological effects of toxic exposure on the brain. During the last 20 years, he has been involved in “beta testing” and standardization of well-known neuropsychological tests, and he is currently on the standardization committee for upcoming versions of several commonly used tests. The trial court did not err

in determining that Dr. Perrillo was qualified to conduct neuropsychological testing and testify as to whether plaintiffs' injuries arose from toxic PCB exposure.³²

2. Neurological Testing

Pharmacia claims that Dr. Perrillo failed to apply the generally accepted methodologies for neuropsychological testing and relied instead on his own unpublished, unreliable "novel composite score methodologies" that are not generally accepted. Pharmacia argues Dr. Perrillo's testimony fails to satisfy Frye in two respects: he departed from generally accepted methodologies in applying the Test of Premorbid Function (TOPF) that estimates pre-exposure cognitive function, and he used novel methodologies to create composite scores of plaintiffs' capabilities. Erickson contends Dr. Perrillo used methods long-accepted by the scientific community that do not implicate Frye.

Dr. Perrillo used the TOPF to determine the pre-exposure function of the plaintiffs, conducted a battery of tests to measure current functionality, and compared individual scores and composite scores. Pharmacia acknowledges the standard TOPF method for identifying neuropsychological deficits requires "comparing premorbid level of function to current with lower scores interpreted as

³² Pharmacia points out that other courts have excluded Dr. Perrillo from testifying in similar cases. E.g., Sanderson v. Int'l Flavors and Fragrances, Inc., 950 F. Supp. 981, 1001 (C.D. Cal. 1996) (court determined that Perrillo, as a neuropsychologist, was not qualified to give expert testimony on toxic causation). However, the broad abuse of discretion standard means that courts can reasonably reach different conclusions about whether an expert is qualified. L.M., 193 Wn.2d at 136.

deficits.” Indeed, Pharmacia’s own expert conducted similar TOPF testing and analyzed data for comparison.

The difference of opinion between Pharmacia’s expert Dr. Schoenberg and Dr. Perrillo lies in the interpretation and manipulation of the data and the resulting conclusions—not the administration of the tests. Pharmacia characterizes Dr. Perrillo’s methodology as novel and not generally accepted because he used only plaintiffs’ TOPF actual reading scores as their premorbid baseline and then compared the results of unrelated neuropsychological tests for 30 different cognitive functions, even though they were not correlated to the TOPF actual reading score. Pharmacia argues that under the generally accepted TOPF methodology, to determine changes in pre- and postmorbid capabilities, the examiner must combine the TOPF actual and predicted reading scores with demographic variables to estimate five index scores that are psychometrically correlated to the Wechsler set of tests, and then compare each of those five against the person’s actual Wechsler test scores.

“The application of accepted techniques to reach novel conclusions does not raise Frye concerns.” Lakey, 176 Wn.2d at 919. Rather, Frye “applies where either the theory and technique or the method of arriving at the data relied upon is so novel that it is not generally accepted by the relevant scientific community.” Anderson, 172 Wn.2d at 611. Because Pharmacia’s critique involves Dr. Perrillo’s novel interpretation of the data, rather than a novel method of “arriving”

at the data, Frye does not preclude Dr. Perrillo's use of TOPF and his diagnostic opinion testimony.

Similarly, Pharmacia challenges Dr. Perrillo's use of composite scores as "wholly novel . . . methodologies that he invented." Perrillo compared the plaintiffs' TOPF actual reading scores against scores on other cognitive functions that were not psychometrically correlated to the reading score, then used the baseline comparisons to create composite scores for each plaintiff. According to Pharmacia, the use of composite scores is a generally accepted neuropsychological methodology only when the methodology has been published, peer reviewed, and researched to confirm validity and reliability. Erickson counters that the use of composite scores is common in neuropsychology, as even Pharmacia's expert acknowledged, and also points to studies involving composite scores for executive function.³³ Additionally, Dr. Perrillo testified that composite scores have better predictive validity than single scores.

Moreover, the type of testing that generated the components of the composite scores is undisputedly generally accepted. As our Supreme Court has stated, "Frye does not require every deduction drawn from generally accepted theories to be generally accepted." Anderson, 172 Wn.2d at 611. "Other

³³ See, e.g., Br. of Resp'ts at 115 (citing Yana Suchy, Executive Functioning: A Comprehensive Guide for Clinical Practice (Oxford Univ. Press 2016)).

evidentiary rules—not Frye . . . —bar deductions that are too speculative.” L.M., 193 Wn.2d at 131.

Because Dr. Perrillo’s opinions were derived from generally accepted neuropsychological testing methods, his testimony satisfies Frye. The trial court did not err in determining Dr. Perrillo’s opinions using the TOPF and composite scores were not precluded by Frye.

3. ER 702

Pharmacia argues that even if they satisfy Frye, Dr. Perrillo’s cognitive impairment opinions are unreliable, lack foundation, and do not assist the trier of fact because they do not adhere to the generally accepted neuropsychological methodologies. The trial court disagreed, concluding that Pharmacia’s arguments related to weight rather than admissibility of the evidence. As previously noted, “an expert’s errors in applying proper procedures go to the weight, not the admissibility, of the evidence unless the error renders the evidence unreliable.” Lahey, 176 Wn.2d at 920.

To demonstrate the reliability of his testimony, Dr. Perrillo identified scientific literature on the effects of PCBs consistent with his findings from plaintiffs’ neuropsychological testing. In a declaration supporting Erickson’s opposition to Pharmacia’s motion in limine to exclude the non-party injury evidence, Dr. Perrillo noted that the pattern of brain injury “is similar to what the literature shows one would expect to see in people exposed to toxic substances capable of crossing the blood/brain barrier.”

To formulate his opinion that plaintiffs' brain injuries were caused by PCB and furan exposure, Dr. Perrillo ruled out other causes at SVEC. In addition, Dr. Perrillo considered studies that investigated the neurocognitive injuries that can be caused by PCBs. He then concluded PCBs caused the injuries: "[I]t would appear that it was, you know, a PCB exposure . . . I ruled out a number of things like mold and, you know, lead, other things that could have possibly been there, but there is just nothing compelling to say that the other elements were there other than that." He further articulated,

Well, it's a matter of elimination. In this particular case there was a mold study done, which said that the east pod that the teachers were in had no evidence of mold. There were -- there was no evidence I saw of lead, you know, there were no serum levels of lead, there was no hair analysis, no blood analysis, there was just nothing that showed that there was lead there, so that's out. The mold was out, because the lab that had done it, the certified lab, said that there was no mold . . . And so, you know, you just left them with a few possibilities, and one of the possible and probabilities -- one of the probabilities is PCB.

Dr. Perrillo also relied on his testing of 52 SVEC occupants to reach his conclusion that their brain injuries arose from toxic exposure to PCBs.³⁴ He testified that the group had significant impairments and all had the same environment, SVEC, in common.

Pharmacia's arguments regarding the reliability of this evidence go toward the weight it should be afforded, rather than its admission. Given the deferential

³⁴ We address separately below the arguments that Dr. Perrillo's testimony relying on evidence of brain injury from non-parties who were present at SVEC was inadmissible and prejudicial, along with the analysis of other arguments relating to evidence of non-party injuries.

abuse of discretion standard for reviewing admission of evidence under ER 702, the trial court did not err in admitting Dr. Perrillo's diagnostic opinions.

C. James Dahlgren

James Dahlgren, MD, is an internal medicine doctor with a subspecialty in toxicology. He provided testimony on causation for plaintiffs' injuries, stating that plaintiffs have brain damage and "have been poisoned by PCBs and the furans that were present at the Sky Valley school." Dr. Dahlgren reviewed the medical records and interviewed the plaintiff teachers and several other teachers, parents, and students who spent time in SVEC, noting they experienced headaches, dizziness, brain fog, weakness, and nausea. He explained "each day that they had some exposure . . . there would be some effect on the brain." The exposure builds up, causing more symptoms because brain cells damaged by PCBs do not recover.

Dr. Dahlgren also testified about the role furans played in the brain injuries: "[F]urans are toxic in a way that is additive or even synergistic with PCBs in the immune system and also in the brain." He concluded that the plaintiffs incurred brain damage due to both PCBs and furans. After reviewing reports prepared by Dr. Perrillo, Dr. Mahoney, and Coghlan, Dr. Dahlgren opined that the PCB levels estimated by Coghlan were sufficient to cause brain injury.

Pharmacia argues Dr. Dahlgren is not qualified to testify about cognitive impairment because he is not a neurologist or neuropsychologist and has never administered or interpreted neuropsychological testing. Pharmacia also

challenges the admission of Dr. Dahlgren's testimony due to his reliance on opinions from Dr. Perrillo and Coghlan.

Expert testimony is admissible if the expertise is supported by the evidence, the opinion is based on material reasonably relied on in the professional community, and the testimony is helpful to the trier of fact. Deep Water Brewing, LLC v. Fairway Res. Ltd., 152 Wn. App. 229, 271, 215 P.3d 990 (2009). "One expert may rely on the opinions of another expert when formulating opinions." Driggs v. Howlett, 193 Wn. App. 875, 900, 371 P.3d 61 (2016).

Pharmacia argues Dr. Dahlgren's testimony was inadmissible because he did not perform any of his own cognitive testing and based his finding of moderate brain dysfunction on Dr. Perrillo's cognitive impairment opinions. While Dr. Dahlgren interviewed the plaintiffs, he did not perform any of his own testing and did not make an independent diagnosis. He conceded that he relied on Dr. Perrillo's neuropsychological testing to diagnose "moderate brain dysfunction" in the three plaintiffs. As discussed above, Dr. Perrillo's expert scientific evidence was properly admitted. Therefore, Dr. Dahlgren could properly rely on Dr. Perrillo's admissible expert opinions as a basis for his opinions.

However, to the extent Dr. Dahlgren's exposure-based causation opinions rely on Coghlan's inadmissible opinions about PCB levels at SVEC, his opinions should have been excluded. When testifying, Dr. Dahlgren opined that the levels estimated by Coghlan were sufficient to cause brain injury. In Dr. Dahlgren's report, the sections pertaining to each plaintiff's exposure to PCBs and furans at

SVEC direct the reader to “refer to the report by Kevin Coghlan” or his company, EH&E. To the extent Dr. Dahlgren’s causation opinions relied on Coghlan’s PCB levels that were calculated using novel methodologies, they were not based on material reasonably relied on in the professional community, and, therefore, were inadmissible. On the other hand, Dr. Dahlgren’s opinions that did not rely on Coghlan’s estimates are admissible.³⁵

IV. Evidence of Nonparty Harms

The parties contested the introduction of evidence of nonparty injuries of SVEC occupants other than plaintiffs. This contested evidence falls into two categories: (1) testimony by plaintiffs’ experts Dr. Perrillo and Dr. Pamela Mahoney incorporating information from, respectively, neuropsychology testing and a “health assessment survey” involving individuals other than the three plaintiffs who were connected to SVEC and (2) testimony by nonparty witnesses about people connected with SVEC experiencing illness. According to Pharmacia, the trial court erred in allowing this type of nonparty evidence in plaintiffs’ case-in-chief as substantive evidence of exposure and causation. Erickson counters that the expert evidence was admissible, and to the extent evidence of nonparty harm was not relevant, it was duplicative of other evidence, and, thus, not prejudicial.

³⁵ Dr. Dahlgren also cited sources other than Coghlan in his causation testimony. For example, Dr. Dahlgren testified that the types of symptoms experienced by the plaintiffs would be experienced at exposure rates of 13,000 to 260,000 ng/m³ and that the plaintiffs would not have experienced any symptoms at rates of less than 1,000 ng/m³. Dr. Dahlgren also testified that an ecology study found that PCBs in the amount of one to five nanograms per cubic meter were enough to cause people to have serious illness.

A. Expert Opinions Relying on Evidence from Nonparties

Pharmacia sought to exclude, and Erickson sought to admit Dr. Mahoney's health assessment survey of 164 children and adults who spent time at SVEC who experienced similar symptoms and epidemiological analysis based on that survey. Pharmacia also sought to exclude Dr. Perrillo's testimony of neuropsychological testing of more than 50 SVEC occupants involved in various other lawsuits. The trial court admitted the evidence both pretrial and during additional arguments during trial, and post-trial, it denied reconsideration. At the time of trial, the court concluded,

[I]t's fine for the expert to offer an opinion based upon having surveyed a bunch of folks, and without talking about a specific person.

In other words, the expert can have an opinion, say, you know, I've collected information about what people have experienced at this locale, without, you know, going and saying that, you know, Suzy Jones got this specific problem and this is the kind of damages she had and so on, that that's different.

Based on this, the trial court allowed Drs. Perrillo and Mahoney to testify "about what they found . . . in doing their analysis and it's a classic battle of the experts stuff."

We review evidentiary decisions for abuse of discretion. Gerlach v. Cove Apts. LLC, 196 Wn.2d 111, 119, 471 P.3d 181 (2020). A trial court abuses its discretion if no reasonable person would take the view adopted by the trial court. State v. Jennings, 199 Wn.2d 53, 59, 502 P.3d 1255 (2022).

"Expert medical testimony is necessary to establish causation where the nature of the injury involves 'obscure medical factors which are beyond an

ordinary lay person's knowledge.' ” Fabrique v. Choice Hotels Int'l, Inc., 144 Wn. App. 675, 685, 183 P.3d 1118 (2008) (quoting Riggins v. Bechtel Power Corp., 44 Wn. App. 244, 254, 722 P.2d 819 (1986)). An expert witness may base an opinion on facts or data that are not admissible in evidence if the facts or data are “of a type reasonably relied upon by experts in the particular field in forming opinions or inferences upon the subject.” ER 703.

In forming their expert opinions, both Dr. Perrillo and Dr. Mahoney relied on the information about the experience of nonparties who were exposed to PCBs while at SVEC. Pharmacia argues that the nonparty evidence was not relevant as a matter of law, and therefore, was inadmissible. But an expert's testimony disclosing inadmissible facts or data to explain the expert's opinion “is not proof of them” as substantive evidence. State v. Caril, 23 Wn. App. 2d 416, 428, 515 P.3d 1036 (2022) (citing Grp. Health Coop. of Puget Sound, Inc. v. Dep't of Revenue, 106 Wn.2d 391, 399-400, 722 P.2d 787 (1986); State v. Wineberg, 74 Wn.2d 372, 381-82, 444 P.2d 787 (1968)).

“When a party seeks to introduce otherwise inadmissible facts or data through an expert witness who has relied on them, the trial court has discretion to determine the extent to which the expert may relate the inadmissible information to the trier of fact.” Caril, 23 Wn. App. 2d at 427 (citing ER 705). A trial court should weigh the probative and prejudicial value under ER 403 to determine whether to allow disclosure of inadmissible underlying facts. Id. at 428. This “prevent[s] an expert's opportunity to explain the basis for an opinion from

becoming merely ‘a mechanism for admitting otherwise inadmissible evidence’ or ‘to avoid the rules for admissibility of evidence.’ ” Id. at 427 (quoting State v. Anderson, 44 Wn. App. 644, 652, 723 P.2d 464 (1986)). Trial courts have wide discretion in balancing the prejudicial and probative values of evidence. Gerlach, 196 Wn.2d at 120.

Dr. Mahoney is an epidemiologist. She reviewed government publications and scientific literature to identify the signs and symptoms of exposure to PCBs and furans. She identified seven categories of illnesses or symptoms commonly reported with PCB and furan exposure. Dr. Mahoney then examined health assessment surveys that were completed by 164 adults and children who formerly spent time at SVEC for complaints related to these categories.³⁶ Dr. Mahoney conducted an epidemiological analysis based on these surveys to determine whether SVEC occupants reported a higher incidence of certain symptoms after spending time at the school. Dr. Mahoney testified that they “found statistical significance” of increased symptoms in adults and children after exposure to SVEC. Dr. Mahoney concluded, after exposure to SVEC, the proportion of people reporting symptoms increased in every health category known to be affected by PCB and furan exposure.

Dr. Mahoney testified as to her opinions gathered as a result of her epidemiological study of the symptoms experienced by 164 adults and children

³⁶ Dr. Mahoney acknowledged that not all visitors to SVEC had completed questionnaires and those who completed them were not a random selection.

who had spent time at SVEC. The information provided in the health assessments was of a type reasonably relied upon to study the health experiences of participants before and after exposure. Any testimony disclosing inadmissible facts or data to explain her opinion was not substantive evidence, but background on how she arrived at her opinions. Dr. Mahoney did not testify about the facts of the health assessments; she testified about her expert opinions derived from this information. This testimony is permissible under ER 703, and its admission was not an abuse of discretion by the trial court.

Pharmacia also requested that the trial court exclude Dr. Perrillo's testimony about information gathered about other adults and children who spent time at SVEC. Dr. Perrillo, as discussed above, is a neuropsychologist. He conducted neuropsychological testing of not only plaintiffs, but 52 people total who had been at SVEC. In analyzing the results, he grouped the 17 children into two groups, ages 7 to 15 and 16 to 19, and then adults 20 years or older. He testified that "you see the same pattern, you know, of acquired brain injury" in the adults tested and, overall, those examined showed an "unusual level of brain impairment." He explained, "The take-away is that, you know, you have a group of people with diminished cognition. You have a group of people that have significant impairments across the board." Dr. Perrillo then made the express link that the commonality among all the individuals was their environment, specifically SVEC. "[T]hey all shared a common experience. The kids did, the teachers did, and even though there may be individual variables or individual affects, you

know, as a group you could see where the trend is -- I mean, it's clear, it's very clear where the trend is here." Thus, Drs. Perrillo and Mahoney testified to their opinions about medical causation of plaintiffs' injuries, relying in part on information gathered from people exposed to the SVEC environment. The trial court did not abuse its discretion in allowing the experts to state the basis for their opinions, even to the extent it relied on information gleaned from individuals.³⁷ While that information may have been prejudicial to Pharmacia, it was not unfairly so when it was presented as part of the basis for the expert opinions rather than as substantive evidence.

B. Lay Witness Testimony

Erickson also sought to admit, and Pharmacia sought to exclude, direct lay witness testimony of nonparty injury. Pharmacia argues the evidence is not admissible under the constraints on such testimony prescribed in Intalco Aluminum v. Department of Labor and Industries, 66 Wn. App. 644, 833 P.2d 390 (1992).

In Intalco, the plaintiffs brought workers' compensation claims for occupational diseases sustained as a result of air pollution in an aluminum plant.

³⁷ By contrast, in Caril, while the evidence supporting an expert's opinion was relevant, the trial court excluded it because the prejudice from the evidence was substantially outweighed by the danger of unfair prejudice to both parties, it could mislead the jury, and it could confuse the issues. 23 Wn. App. 2d at 428. The trial court allowed the expert psychologist to testify that the defendant lacked the capacity to form criminal intent at the time of the murder for which he was charged. Id. at 420. However, the court prohibited the expert from testifying to hearsay statements from another psychologist's report that the expert had relied on, because the excluded statements concerned the collateral issues of the defendant's competency to stand trial and potential future need for civil commitment. Id. This court reasoned that hearing about that information "could confuse the jury or divert [it] from the issues it was charged with deciding." Id. at 429.

Id. at 647-48. The employer challenged the admission of testimony from two of the plaintiffs' coworkers who experienced and observed other workers with similar symptoms, arguing it was irrelevant and the prejudicial impact outweighed the probative value. Id. at 664. This court disagreed, concluding the testimony was properly admitted as rebuttal evidence to the employer's expert witness, medical director for a different aluminum manufacturing company, who testified that he had never observed similar neurologic symptoms among 3,000 employees performing similar work. Id. at 665. The coworkers' testimony was "directly relevant to rebut the inferences raised" by this expert testimony, *i.e.*, that he had never observed similar symptoms. Id. The trial court also gave a limiting instruction that the coworkers' testimony was not offered to prove that they had the same or similar conditions as the claimants, and should only be considered on the question of whether others in the aluminum industry had similar symptoms. Id.³⁸ Thus, the trial court limited any prejudice from the testimony. Id.

Here, the trial court admitted certain nonparty evidence of illness at SVEC, explaining as follows:³⁹

³⁸ A subsequent unpublished case emphasizes the role of this evidence in rebuttal. Shoemake v. Eli Lilly & Co., No. 72716-8-I, slip op. at 9 (Wash. Ct. App. June 13, 2016) (unpublished), <https://www.courts.wa.gov/opinions/pdf/727168.pdf>. While unpublished cases are not binding, we may cite and accord them such persuasive value as we deem appropriate. GR 14.1(a). In Shoemake, a workers' compensation case, an employee filed a claim alleging that fumes and odors from a building remodel injured her. Shoemake, slip op. at 1. The trial court excluded the testimony of two lay witnesses who stated they had suffered similar symptoms during the remodel because the evidence was not offered as rebuttal, and this court agreed. Shoemake, slip op. at 8-9.

³⁹ Pretrial, the court stated:

In this case, I think that it would be unfair and misleading to imply or allow inferences that these four plaintiffs were the only ones allegedly affected by

[A] lay person is perfectly capable of saying, “Gee, you know, 30 percent of the people aren’t at work this week,” you know, that’s just an observation any of us can make. They don’t know anything - - they don’t know what it is, they can’t testify as to causation or what they think it is or anything like that, but just that people are out, that they are ill is -- you know, they can testify to that.

At trial, the testimony from the lay witnesses was limited to precisely this type of observation. One teacher testified, “a few years into our time at the building, I noticed there were quite a few students and teachers who had become ill.”

Another testified that she noticed more and more teachers and students becoming ill: “maybe 2014 I heard a little bit, but 2015 I heard more. And then of course by 2016, there was a lot.” Other teachers agreed that they noticed a change in the rate of illness at the school. Another witness noted that more people were getting sick in the new building than in the old location. Another teacher stated that she had previous exposure to mold in other buildings, but the symptoms she experienced in SVEC were not similar to mold reactions. All of this testimony reflected personal observations, without any opinion about the possible reason people in the building were becoming ill.

Moreover, as Pharmacia acknowledges, the teachers’ testimony was not the only source of this information. Erickson admitted an Indoor Air Quality Assessment Report that stated carpet had been removed “[d]ue to reported health complaints teachers expressed concerns about potential contaminants in

PCBs. It also rebuts Monsanto’s claim that other workers did not get sick, although they were exposed to higher levels. That is a fairness issue as well.

the carpets. The teachers were concerned about PCB and pesticides contaminants.” The jury heard testimony that the company was hired to perform the assessment “prompted primarily by a number of indoor air quality complaints by teachers and others in the school right around that time frame.” The jury saw an example of one of these indoor air quality reports, filed by Marquardt with Monroe Public Schools, noting many symptoms arising during the school year.

The jury heard the same information through other testimony and evidence to which Pharmacia failed to object; thus, the evidence was not prejudicial. Additionally, the evidence was probative of the three teachers’ experiences at SVEC. The trial court did not abuse its discretion in allowing the lay witness nonparty observations limited to other people’s illness.

CONCLUSION

We conclude that the trial court erred in applying Missouri law, which lacks a statute of repose for product liability claims, rather than WPLA’s statute of repose, to plaintiffs’ WPLA claims and reverse on that basis. We also hold that WPLA’s statute of repose does not violate the Washington Constitution’s privileges and immunities clause, article I, section 12. We remand for further proceedings consistent with this opinion.⁴⁰

Reverse and remand.

⁴⁰ We do not reach Pharmacia’s claims regarding whether substantial evidence supported the judgment or for remittitur of the punitive damages award.

No. 83287-5-1/78

Chung, J.

WE CONCUR:

Cohen, J.

Erickson v. Pharmacia LLC, No. 83287-5-1

DWYER, J. (concurring and dissenting) — An experienced, proven trial judge assumed responsibility for the conduct of a sprawling, highly contentious civil lawsuit. During the pretrial, jury trial, and posttrial stages of the litigation, the judge made dozens, perhaps hundreds, of discretionary rulings and decided dozens of questions of law. The jury returned a massive verdict in favor of the plaintiffs. After this verdict was reduced to judgment, a highly litigated appeal commenced. The majority opinion, filed today, resolves the issues raised.

I agree with the majority on the two primary legal questions presented and on its decision as to several contested trial court evidentiary rulings. However, I part ways with the majority on other evidentiary questions. I think the trial court got these right. In the remainder of this separate opinion, I more fully explain my analysis.

I

As to a primary question on appeal—whether the statutory repose period in the Washington product liability act¹ (WPLA) applies to the Washington product liability act cause of action pleaded in this cause—I agree with the majority that it does. There are several reasons for this.

¹ Ch. 7.72 RCW.

1. The statutory repose provision was contained in the bill, passed by the legislature, that became codified as the WPLA. In short, the provision is an integral part of the act.

2. In this way, the WPLA statutory repose period differs from other statutes of repose—in particular the builder’s and contractor’s statute of repose set forth in RCW 4.16.310—in that it is not an “overlay” on to a variety of causes of action. Instead, the WPLA statutory repose period applies only to WPLA claims.

3. The WPLA repose provision differs greatly from most other such provisions in effect in 1981 when it was adopted. It provides for a *presumption* of a 12-year useful life period, which may be rebutted by a plaintiff who proves a longer useful life. Unlike RCW 4.16.310, which provides a 6-year period applicable to all cases, the WPLA provision was plainly the result of legislative give-and-take: a compromise.

4. The WPLA establishes that a WPLA cause of action cannot arise unless it arises within the repose period. Thus, the statutory repose provision is part of the very definition of whether a cause of action is extant. Compliance with its terms is part-and-parcel of establishing that the cause of action exists.

Courts have a duty to honor legislative public policy decisions and to give effect to legislative determinations. The majority does so by its resolution of this question.

II

As to another primary question, controlling appellate authority establishes that punitive damages can be awardable as part of a WPLA claim as the result of a choice of law analysis. However, Washington is not a punitive damages state. Accordingly, in this case, the punitive damages sought can be recoverable so long as they are limited to only those transgressions as to which the Missouri legislature has evidenced a public policy need for the availability of such damages.

However, where Missouri substantive law does not prohibit a certain action, the Missouri legislature has necessarily *not* evidenced such a public policy need.

Here the WPLA allowed for recovery on a greater number of tort theories than does Missouri law. Only those theories of recovery that offend *both* Washington and Missouri law can support a punitive damages award. But the jury was not so instructed and its verdict was not so restricted. I agree with the majority that, in this circumstance, reversal is required.

III

The majority resolves several challenged evidentiary rulings entered by the trial judge. As to those not addressed herein, I agree with the majority's decisions.

IV

The majority today reverses the trial court's decisions on two discretionary evidentiary rulings. For the reasons set forth in the remainder of this opinion, I dissent from these holdings.

The trial court performs an indispensable gatekeeping function in determining the admissibility or inadmissibility of evidence. See, e.g., Anderson v. Akzo Nobel Coatings, Inc., 172 Wn.2d 593, 600, 260 P.3d 857 (2011). By reviewing admissibility rulings for an abuse of discretion, we recognize that the trial court—not the appellate court—is particularly suited for making such determinations.² When, as here, the trial court has presided over exceptionally complex litigation involving innumerable evidentiary rulings, the case for our deference is especially salient. An appellate court will never have the full evidentiary picture possessed by the trial court, as we are seldom presented with the evidence that was excluded by that court to ensure fairness to the parties. Thus, when we do not afford proper deference to the trial court's evidentiary rulings, we risk upsetting the delicate balance sought by that court in resolving questions of admissibility.

Moreover, it is the role of neither the trial court, in determining the admissibility of evidence, nor the appellate court, in reviewing such discretionary rulings, to usurp the jury's critical fact-finding function. Accordingly, pursuant to Frye v. United States, 54 App. D.C. 46, 293 F. 1013 (1923), only when the

² We review de novo a trial court's exclusion of evidence pursuant to Frye v. United States, 54 App. D.C. 46, 293 F. 1013 (1923). Lahey v. Puget Sound Energy, Inc., 176 Wn.2d 909, 919, 296 P.3d 860 (2013). We review for an abuse of discretion a trial court's decision regarding the admissibility of expert evidence. Lahey, 176 Wn.2d at 919.

scientific theory or methodology underlying expert testimony is not generally accepted in the relevant scientific community is that evidence excluded. See, e.g., Anderson, 172 Wn.2d at 603. Otherwise, so long as the evidence is offered by a qualified witness and is helpful to the jury, the question is one of weight, not of admissibility. See ER 702. Such questions are properly presented to the jury for resolution.

Here, the majority reverses the trial court's rulings admitting into evidence the expert opinion of industrial hygienist Kevin Coghlan, M.S., C.I.H., who testified at trial that the plaintiffs were exposed to unsafe levels of polychlorinated biphenyls (PCBs) while teaching at the Sky Valley Education Center (Sky Valley). Coghlan's testimony was premised on his application of three methods used to assess the plaintiffs' PCB exposure levels. In admitting his testimony, the trial court determined that Monsanto's objections to the evidence "are not to the scientific theory but to how Mr. Coghlan applied that theory in this particular instance." Such objections, the court ruled, are pertinent to the credibility of the expert's opinion, not to the admissibility of the testimony. In my view, the trial court got this right.

Among the approaches employed by Coghlan to assess the plaintiffs' PCB exposure levels is the so-called "carpet-based methodology."³ In applying this approach, Coghlan measured the PCB levels in carpet samples obtained from Sky Valley in order to reconstruct the historical levels of PCBs in the air. To do so, he relied on a study conducted by the Environmental Protection Agency

³ See Br. of Appellant at 72.

(EPA) that modeled how PCBs in the air are deposited onto various building materials. Coghlan, however, was calculating estimated PCB air levels based on the PCB levels in the carpet samples, while the EPA study analyzed how PCBs transferred from the air onto various materials, including carpet. Accordingly, as Monsanto recognizes, Coghlan's approach relied on a mathematical principle that involved, "essentially, the rearrangement of a simple algebraic equation" obtained from the EPA study.⁴ However, according to Monsanto, this "back-calculation" is a novel scientific methodology that, pursuant to Frye, should have compelled the exclusion of Coghlan's testimony.

The trial court disagreed:

Mr. Coghlan's estimate of PCB air contamination based on a carpet sample containing PCBs was admissible. Mr. Coghlan explained at trial that these calculations were based on established EPA studies and scientific formulas. He testified that industrial hygienists recognize, based on source-sink dynamics, that it is possible to use adsorbent material containing PCBs to estimate ranges of probable PCB air concentrations in the environment [from which] the material was taken. In a controlled test, the EPA exposed multiple building materials, including two types of carpet, to concentrations of PCBs in the air and determined a partition coefficient, which is a ratio of how much PCBs are in the air versus how much are in the material—in this case, the carpet. Mr. Coghlan used that established formula to determine an estimated air concentration of PCBs from the known quantity of PCBs in the carpet. This approach is analogous to the method used to estimate PCB levels from air samples, which also involves measuring the levels of PCBs in an adsorbent material after exposing it to air. Thus, the scientific principles behind Mr. Coghlan's analysis were well-established, and his methodology satisfies Frye.

[Monsanto's] objections are not to the scientific theory but to how Mr. Coghlan applied that theory in this particular instance. However, "[a] Frye objection is not appropriate and should be overruled if the only objection is the manner in which the theory and

⁴ Br. of Appellant at 78.

method of analysis were applied in the present case.” Tegland, 5D Wash. Prac., § 702:11. “The issue is whether the expert’s methodology is generally accepted as being capable of producing an accurate result, not whether the expert employed the methodology correctly.” Tegland, 5B Wash. Prac., Evid. Law and Prac. § 702.19 (6th ed. 2020). “An objection that an expert employed the methodology in an improper or unscientific manner goes only to the credibility of the expert’s opinion, not the admissibility of the expert’s testimony.” *Id.* So it is here, and Mr. Coghlan’s testimony was properly admitted.

I agree.

Monsanto, assigning error to the trial court’s ruling, contends that “[t]here is no ‘established formula’ that works in reverse, thus rendering Coghlan’s calculation novel, not generally accepted, unreliable, and violative of Frye and ER 702.”⁵ For instance, Monsanto contends that Coghlan’s testimony was inadmissible because the EPA study on which he relied was conducted in a controlled environment, “which cannot be replicated in the real world.”⁶ Thus, Monsanto argues, the source of the PCBs in the carpet samples could have been due to “tracking” rather than unsafe levels in the air.⁷ Monsanto contends that, because Coghlan was not able to implement the same controls as those in the EPA study, his opinions were rendered “mere speculation.”⁸

However, each of these critiques, as the trial court concluded, are premised not on the underlying theory or methodology employed, but on Coghlan’s application of that methodology. The scientific theory underlying Coghlan’s testimony is that of “source-sink dynamics,” which investigates “the

⁵ Br. of Appellant at 76.

⁶ Br. of Appellant at 77.

⁷ Br. of Appellant at 81.

⁸ Br. of Appellant at 82.

mechanisms by which PCBs may transfer or migrate from primary sources to other building materials or ‘sinks.’” As Monsanto indicated, Coghlan’s methodology consisted of the “rearrangement of a simple algebraic equation” obtained from a peer-reviewed EPA study.⁹ Monsanto nowhere asserts that either the theory of “source-sink dynamics” or Coghlan’s use of the EPA study’s mathematical formula are novel. Rather, Monsanto argues that Coghlan incorrectly applied the generally accepted science. “While Frye governs the admissibility of novel scientific testimony, the application of accepted techniques to reach novel conclusions does not raise Frye concerns.” Lakey v. Puget Sound Energy, Inc., 176 Wn.2d 909, 919, 296 P.3d 860 (2013). So long as the evidence is reliable, and, thus, admissible pursuant to ER 702, “an expert’s errors in applying proper procedures go to the weight, not the admissibility, of the evidence.” Lakey, 176 Wn.2d at 920.

Monsanto also takes issue with Coghlan’s so-called “invent[ion of] two estimation methods” in employing a study of PCB levels in New York schools.¹⁰ According to Monsanto, Coghlan’s use of the New York schools study was “novel” because those schools might not be comparable to Sky Valley. Moreover, Monsanto asserts, Coghlan employed a “novel methodology” by using two data points to estimate PCB levels, rather than using an average of all of the available datasets.¹¹ Again, Monsanto’s assertions are not that the theory or methodology employed constitute novel science; rather, Monsanto’s critiques are

⁹ Br. of Appellant at 78.

¹⁰ Br. of Appellant at 87-88.

¹¹ Br. of Appellant at 92.

to Coghlan's application of that science. Again, this goes to the weight, rather than the admissibility, of the evidence. Lakey, 176 Wn.2d at 920. In my view, the trial court correctly concluded that Frye is not implicated. See Anderson, 172 Wn.2d at 611 ("The Frye test is implicated only where the opinion offered is based upon novel science.").

Nor, in my view, did the trial court abuse its considerable discretion by rejecting Monsanto's contention that Coghlan's testimony was unreliable and, thus, inadmissible pursuant to ER 702. See Lakey, 176 Wn.2d at 918-19 ("Frye excludes testimony based on novel scientific methodology until a scientific consensus decides the methodology is reliable; ER 702 excludes testimony where the expert fails to adhere to that reliable methodology."). Contrary to Monsanto's assertion, Coghlan's testimony was not rendered "mere speculation" because the source of the PCBs in the carpet samples could not be determined with complete certainty.¹² Nor was Coghlan's opinion unreliable because he was unable to implement the same controlled conditions implemented in an EPA laboratory experiment. If this were so, it is unlikely that *any* scientific expert testimony could be properly presented to a jury. However, pursuant to ER 702, expert testimony is generally admissible "if it will be helpful to the jury in understanding matters outside the competence of ordinary lay persons." Anderson, 172 Wn.2d at 600. Because the trial court did not act in a manifestly unreasonable manner in admitting Coghlan's testimony, I would not disturb this discretionary ruling on appeal.

¹² Br. of Appellant at 82.

Monsanto additionally asserts that the trial court erred by “invok[ing] a lack of evidence as a reason to permit unreliable evidence that is not generally accepted within the scientific community.”¹³ This the trial court did not do. Rather, as its ruling demonstrates, the court determined that Monsanto’s objections regarding imperfections in the proffered evidence go to the weight, not the admissibility, of that evidence. The court explained that

obviously determining [PCB] concentrations from carpet samples is not the ideal way to do it. The problem is, . . . of course, we don’t have any valid air samples, because although . . . there were air samples taken prior to remediation, there were all kinds of reasons to be doubtful about the validity of those air samples

So . . . we’re dealing with a situation [in] which we don’t have the ideal kind of evidence you’d like to have, and while I think that there’s certainly lots of things that the defense can point to as reasons to be concerned about the result that Mr. Coghlan arrived at, I do think it’s a valid test

It’s an application of a test that the EPA does. Yes, it’s done a bit differently because of the fact that he’s trying to sort of reconstruct events that he doesn’t have control over, but I think that goes to the weight that the jury should give to this rather than its admissibility.

Where, as here, proffered expert testimony has been properly admitted by the trial court, that evidence may be further “tested by the adversarial process within the crucible of cross-examination.” Anderson, 172 Wn.2d at 607. Such was the case here. The jury was properly presented with Coghlan’s testimony. Monsanto was then “permitted to present other challenging evidence.” Anderson, 172 Wn.2d at 607. By ruling in the plaintiffs’ favor, the jury demonstrated that it afforded weight to that testimony.

¹³ Br. of Appellant at 96.

Pertinent, too, to the questions presented herein, is the purpose of the Frye test and the functional difference between the courtroom and the laboratory.

As our Supreme Court has astutely recognized:

Frye envisioned an evolutionary process with novel scientific techniques passing through an “experimental” stage during which they would be scrutinized by the scientific community until they arrive at a “demonstrable” stage. Frye, 54 App. D.C. at 47. However, science never stops evolving and the process is unending. Each scientific inquiry becomes more detailed and nuanced. As one commentator has noted, there is a “difference between the quest for truth in the courtroom and in the laboratory. Law must resolve disputes finally and quickly, whereas science may consider a multitude of hypotheses indefinitely.” Loevinger, [*Science as Evidence*, 35 JURIMETRICS J.] 153, 177 [(1995)].

Anderson, 172 Wn.2d at 607.

In my view, no error occurred here. Accordingly, I dissent from the majority’s determination that the trial court erroneously admitted Coghlan’s testimony.¹⁴

V

While this case was pending, well after oral argument was held, our Supreme Court filed its decision in Bennett v. United States, 2 Wn.3d 430, 539 P.3d 361 (2023). Almost immediately, respondents requested an opportunity to brief the impact, if any, of that decision on the issues in this case. The panel correctly authorized the parties to submit supplemental briefing on the effect, if any, of the Bennett decision on this case.

¹⁴ The majority additionally concludes that “to the extent Dr. Dahlgren’s exposure-based causation opinions rely on Coghlan’s opinions about PCB levels at [Sky Valley] and selectively considered the results of PCB testing in determining causation, his opinions should have been excluded.” Majority at 57. Because I believe that Coghlan’s testimony was properly admitted, I additionally conclude that Dr. Dahlgren’s opinion should not be excluded on this basis.

I agree with the majority's conclusion that Bennett does not mandate invalidation of the WPLA statute of repose.

In the course of the supplemental briefing, the question of the severability of the WPLA repose provision was raised and discussed. Given the basis for the majority's decision, it was unnecessary for that opinion to weigh in on the matter.

I concede that it is similarly unnecessary for me to arrive at a definitive answer in this opinion. Indeed, given the lack of necessity, I have not endeavored to do all of the legislative history detective work necessary to reach a sound conclusion. Instead, I discuss this issue today so as to forewarn future litigants of a possible conclusion that may not seem immediately apparent.

The existence of a severability clause is not dispositive on the question of severability. Instead, a severability clause is best thought of as an indication of legislative intent that may be rebutted. See Mt. Hood Beverage Co. v. Constellation Brands, Inc., 149 Wn.2d 98, 118, 63 P.3d 779 (2003). As has been explained,

the various provisions of a legislative enactment are not severable if

the constitutional and unconstitutional provisions are so connected—that it could not be believed that the legislature would have passed one without the other; or where the part eliminated is so intimately connected with the balance of the act as to make it useless to accomplish the purposes of the legislature.

Leonard v. City of Spokane, 127 Wn.2d 194, 201, 897 P.2d 358 (1995) (quoting Hall v. Niemer, 97 Wn.2d 574, 582, 649 P.2d 98 (1982)).

Stated somewhat differently, a court may “not sever an unconstitutional clause . . . if to do so would broaden the statute’s application, because we cannot presume the legislature meant it to be applied to persons it specifically excluded.” Mt. Hood Beverage Co., 149 Wn.2d at 118. Thus, if “by striking out the proviso the remainder of the statute would have a broader scope either as to subject or territory, then the whole act is invalid.” Mt. Hood Beverage Co., 149 Wn.2d at 118 (quoting 16A AM.JUR.2d Constitutional Law § 218, at 109 (1998)).

The concern is always the legislature’s intent. Thus, we fairly recently explained why severability was not available therein: “striking only those discrete provisions challenged by Pasado’s would bring about a result that our legislature ‘never contemplated nor intended to accomplish.’” Pasado’s Safe Haven v. State, 162 Wn. App. 746, 755, 259 P.3d 280 (2011) (quoting Jensen v. Henneford, 185 Wash. 209, 223, 53 P.2d 607 (1936)).

Two simple truths lead to competing assumptions about whether resort to legislative history will prove fruitful in a case in which legislative intent is paramount in deciding this severability dispute. First, 1981 (the year of enactment) was a most unusual year in Washington legislative politics. Second, Washington’s legislature during that era had a notoriously incomplete and spotty approach to memorializing its legislative history. So it may be that even the most diligent legislative history detective will be able to unearth suitable memorialization of the relevant legislative history to prove a case.

Nationally, the November 1980 general election was historically significant. Democrat Jimmy Carter was defeated in his reelection bid by

Republican Ronald Reagan. Similarly, Republican election success resulted in the GOP gaining the majority in the United States Senate.

Similar results obtained in Washington. Democratic Governor Dixy Lee Ray failed in her reelection bid and was replaced by Republican John Spellman. The GOP won a majority in the State House of Representatives. Then, three weeks into the 1981 legislative session, Democratic Senator Peter von Reichbauer switched his party allegiance to the GOP. This gave the Republicans a 25-24 numerical majority in the Senate. For the first time in more than two decades the Republicans controlled both houses of the legislature. And for the first time in a generation, the GOP dominated both houses of the legislature and the governor's mansion.

It was in the midst of all of this that the 1981 legislature passed the WPLA.

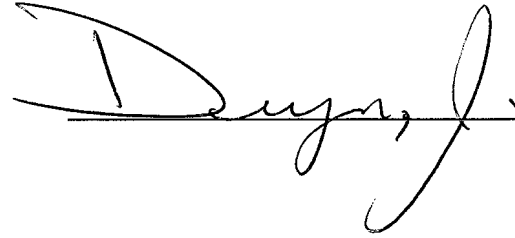
In section I of this opinion, I set forth the several iterations of how the WPLA was a product of legislative give-and-take. It is unique in several ways that manifest this. Of primary interest to the business community—in large part the base supporters of the new legislative Republican majority—was the repose provision. It defies belief to assume that the GOP would have allowed the WPLA to become law in the absence of such a provision.

Yet, I concede the spotty nature of the memorialization of Washington legislative history at this time. Thus, although I am confident of what the real answer is, I am uncertain if proof of that answer is presently ascertainable.

So, in the end, this portion of this separate opinion is more of an admonition or an alert. Beware to any litigant who seeks to make the answer to

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the question herein posed a dispositive question. Before striding down that dark alley of legislative history, take heed of that which may lurk around the corner.

A handwritten signature in black ink, appearing to read "D. S. J.", written over a horizontal line.