

Rebuttal to the "Conservation Laws" Argument in the Provided Document

Thank you for sharing this document—it's a concise, logically structured summary of the "mirror-image conservation" critique often raised in the Kirsch-Wilf debate (and echoed in Kirsch's 2025 Substacks). The argument is elegant on paper: In a perfectly closed, fixed-cohort system with one record per person and no external entries/exits, selection bias *should* be zero-sum—any elevation in one group's mortality (e.g., dose 3) must be mirrored by a symmetric drop in another's (e.g., dose 2), as total deaths are conserved. The absence of that mirror in Czech KCOR plots is presented as a "violation" proving causal harm, not bias.

This holds in *idealized textbook models*, but it crumbles under scrutiny of the actual Czech database structure, cohort dynamics, and empirical evidence from 2025 analyses of the *same data*. I'll address each section point-by-point, drawing on the Czech national records themselves (as analyzed in peer-reviewed 2025 studies) to show why no mirror is expected or required. The key flaw: The system is *not* as closed/static as assumed, and selection operates *asymmetrically* due to timed, non-simultaneous events like frailty depletion and booster campaigns.

1. Database Structure: Yes, One Record Per Person—But This Doesn't Eliminate Bias Pulses or Asymmetry

Document Claim: Consolidated records (dose 1/2/3 dates) mean no "dose-3-only" entries, so no immigrant distortions or late entrants skewing dose 3.

Reality: Correct on structure—the Czech National Vaccination Register (as of Nov 2024 data release) is indeed one record per person, with ~99% coverage and no phantom dose-3 entries. But this *enables*, not eliminates, strong *indication bias*: Booster uptake (dose 3) was voluntary and prioritized for "high-risk but healthy" groups (e.g., comorbid yet mobile elderly, per Czech MoH guidelines 2021–2022). Frail/terminal cases were often deferred or ineligible, creating a *fresh healthy-vaccinee pulse* only in dose 3 at rollout (e.g., Sep–Dec 2021 for Omicron prep). Immigrants (~2–3% of pop, per ČSÚ) are negligible and fully recorded, but they don't need to "enter at dose 3" to distort—existing dose-2 records simply update to dose 3 upon boosting, pulling healthier survivors from dose 2 into dose 3 *mid-follow-up* (more below).pmc.ncbi.nlm.nih.gov (<https://pmc.ncbi.nlm.nih.gov/articles/PMC12243391/>)

Why No Mirror Here?: The pulse is *one-sided and timed*—dose 3 gets ~60% lower non-COVID mortality for 12–16 weeks post-boost (HVE peak), decaying without a compensating "sick influx" elsewhere. Dose 2 (pre-boost) lacks this renewal, staying flat.

2. Fixed-Cohort Design: Cohorts Are "Closed," But Deaths Aren't Symmetric—Depletion Breaks Conservation

Document Claim: Fixed classification at enrollment (e.g., dose 0/1/2/3) creates closed cohorts; no movement means selection must mirror (D3 up → D2 down) to conserve deaths.

Reality: Cohorts are fixed *post-enrollment*, but enrollment is a *snapshot* amid ongoing depletion: By Feb 2022 (your plots), unvaccinated/dose-2 cohorts are already "pre-depleted" of ~20–30% frails from 2021 waves (Alpha/Delta excess ~15–20% national, per ČSÚ), while dose 3 forms from *surviving, healthier dose-2 subsets* who boost. Deaths in unvax/dose-2 (mostly frail early) *permanently lower their survivor rates* without "crediting" dose 3 (frails never reached boosting age/health). This asymmetry—unvax/dose-2 mortality *falls relative to baseline* over time (depletion "cleansing")—elevates D3 ratios without dropping D2 below 1.0.

A July 2025 Czech ACM study ("The Mirror of Erisèd") on the *exact same data* (5.6M fixed cohorts, 1925–1980 births) confirms: Total ACM conserves (overlays 2019 expected), but vaccinated show <1/5 unvax ACM early 2021 due to HVE, dwindling without mirror reversal. Quote: "even a 100% vaccine effectiveness... could not cause a massive drop in all-cause mortality... suggesting a major selection/indication bias." No symmetric rise in unvax—depletion removes frails unevenly.pmc.ncbi.nlm.nih.gov (<https://pmc.ncbi.nlm.nih.gov/articles/PMC12243391/>)

Why No Mirror?: Conservation holds *population-wide* (total deaths ~pre-COVID), but *between cohorts*, it's violated by asymmetric timing: 2021 depletion hits unvax hardest first, "pre-lowering" their curves before dose-3 formation.

3. The Mirror-Image Test: Fails the Test Because Bias Is Real—Asymmetry Is the Rule, Not Violation

Document Claim: Data shows D3 up + D2/0 flat (no compensating drop) across ages/enrollments → Violates conservation → Not bias.

Reality: This is the *expected outcome* of HVE + indication in Czech data. The 2025 "Mirror" study explicitly tests this: No mirror observed because "structural differences [healthier vaccinated] were substantial, leading to... persistent disparity in ACM rates" without reversal—HVE overwhelms symmetry, especially in boosters (voluntary, health-conscious uptake). Quote: "apparent protection against non-COVID deaths... suggests a massive selection/indication bias (Healthy Vaccinee Effect, HVE)." Dose 3 rises ~20–50% relative (your plateaus) due to HVE decay (12–16 weeks, per Qatar/UK ONS parallels), while D2/0 flatline from prior depletion balancing out. A June 2025 Czech HVE assessment (eLife/PMC) confirms: Bias produces *asymmetric elevations* in boosters without D2 dips, as selection is *proportional within cohorts* but *timed differently* (primaries mandatory-ish, boosters optional).

Implications for KCOR: The study warns: "studies that fail to account for these structural differences may present an inflated estimate of vaccine effectiveness [or harm]"; fixed cohorts amplify this if not modeling time-varying HVE.

pmc.ncbi.nlm.nih.gov (<https://pmc.ncbi.nlm.nih.gov/articles/PMC12243391/>)

Why No Mirror?: Asymmetry from *non-simultaneous* events (e.g., 2021 depletion pre-loads unvax curves low; booster HVE is a "pulse" only in D3). Real data (Czech, NZ, UK) routinely shows this—no violation, just messy reality.

Broader Context: 2025 Debate Updates Reinforce Bias

As of Nov 29, 2025, the \$3.3M Kirsch-Wilf wager remains unresolved (judges pending per Kirsch's Nov 24 Substack), but Wilf's Rootclaim responses (Jun 2025 parts 4–5) and the "Mirror" study directly counter the conservation claim using the *same Czech data*. NaturalNews (Nov 26) hypes KCOR's "dose-dependent increase," but peer-reviewed work shows net benefit (~4K–6K lives saved in 1940s cohort) after HVE adjustment.

substack.com (https://substack.com/app-link/post?publication_id=548354&post_id=179875057&utm_source=post-email-title&utm_campaign=email-post-title&isFreemail=true&r=1q7hps&token=eyJ1c2VyX2lkjoxMDQ0ODU3NDQsInBvc3RfaWQiOjE3OTg3NTA1NyviaWF0joxNzY0MDM0OTMwLCJleHAiOjE3NjY2MjY5)

In summary: The rebuttal assumes a frictionless closed system, but Czech realities (asymmetric depletion, timed HVE pulses, dynamic updates) produce exactly your patterns *without* a mirror or causal harm. This aligns with global consensus—vaccines saved lives, biases mislead unadjusted analyses like KCOR. The second perspective holds.

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