

Supplementary Materials: Supplementary File S2: COMPLETE INTERVENTION INVENTORY

Supplementary File S2

Complete Intervention Library

Evidence-Based Strategies for LAI-PrEP Bridge Period Navigation

21 Interventions with Evidence Sources, Effect Sizes, and Implementation Guidance

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Purpose

This comprehensive intervention library synthesizes evidence from LAI-PrEP clinical trials (HPTN 083, HPTN 084, PURPOSE-1/2) [1], implementation studies, and analogous healthcare interventions (cancer screening navigation, oral PrEP cascades, HIV care continuum). Each intervention includes:

- **Mechanism classification** for diversity-aware selection
- **Effect size estimates** from published literature
- **Evidence strength ratings** (Strong/Moderate/Emerging)
- **Implementation complexity** assessment
- **Target populations** and barrier specificity
- **Mechanism tags** for algorithm diversity scoring

The mechanism diversity scoring prevents redundant recommendations by selecting interventions with complementary mechanisms of action.

Table S1. Complete Intervention Library: Evidence-Based Strategies for LAI-PrEP Bridge Period Navigation (n=21 interventions). All interventions include documented evidence sources, estimated effect sizes, implementation complexity, and mechanism classifications enabling diversity-aware selection.

Intervention	Description	Mechanisms & Tags	Effect Size	Evidence Level & Source	Implementation Complexity
ELIMINATE THE BRIDGE PERIOD					
Oral-to-Injectable Same-Day Switching	Eliminate mandatory re-testing delay for patients with recent negative HIV test on oral PrEP	<i>eliminate_bridge</i> (primary), <i>structural_support</i> (secondary)	+35% absolute (88–90% vs 53% baseline)	Strong: CAN study [2], Ryan White LA-ART data	Low (policy change)
COMPRESS THE BRIDGE PERIOD					
HIV-1 RNA Testing	Reduce mandatory window period from 33–45 days to 10–14 days post-exposure	<i>compress_bridge</i> (primary)	+15–20%	Moderate: WHO 2025 guidelines [3], CDC recommendations [4]	Medium (lab infrastructure)

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Intervention	Description	Mechanisms & Tags	Effect Size	Evidence Level & Source	Implementation Complexity
Rapid Laboratory Turnaround (24–48h)	Accelerate test-to-result time, reducing total bridge duration by 3–5 days	<i>compress_bridge</i> (primary), <i>structural_support</i> (secondary)	+10–15%	Moderate: Lab optimization studies [4]	Medium (system redesign)
Point-of-Care HIV Testing	Enable same-day testing at injection visit, eliminating separate testing appointment	<i>compress_bridge</i> (primary), <i>remove_barriers</i> (secondary)	+8–12%	Emerging: FDA-approved Ag/Ab POC available ; RNA POC limited	High (technology adoption)
NAVIGATE THE BRIDGE PERIOD					
Dedicated Patient Navigation	Trained navigator coordinates appointments, insurance, transportation, addresses information gaps	<i>navigate_bridge</i> (primary), <i>structural_support</i> , <i>clinical_support</i> (secondary)	+12–20% (1.5–2× improvement)	Strong: SF PrEP navigation [5] HR 1.5; Cancer care meta-analysis [6]	Medium (staffing)
Peer Navigation	Peer navigators with lived experience provide culturally-congruent support, reduce mistrust	<i>navigate_bridge</i> (primary), <i>clinical_support</i> (secondary)	+15–20% for key populations	Moderate: HIV care cascade peer navigation [7]; greater effect than non-peer [8]	Medium (recruitment, training)
SMS/Text Message Reminders	Automated appointment reminders, adherence support, reduce no-shows by 20–30%	<i>navigate_bridge</i> (primary)	+10–15%	Strong: Meta-analyses across healthcare conditions [9]	Low (existing platforms)
Population-Tailored Navigation	Adolescent-specific (address autonomy, parental consent), PWID-specific (harm reduction integration), etc.	<i>navigate_bridge</i> , <i>clinical_support</i> , <i>system_level</i>	+20–30% for highest-barrier groups	Moderate: Population-specific literature [10,11]	Medium-High (specialization)
REMOVE FINANCIAL & LOGISTICAL BARRIERS					
Transportation Support	Ride-share vouchers, transit passes, mileage reimbursement for multiple appointments	<i>remove_barriers</i> (primary)	+10–15% (high impact for women, rural)	Moderate: Cancer care transportation studies [6]; PrEP barrier literature [12]	Low-Medium (voucher systems)
Childcare Assistance	On-site childcare or vouchers enabling appointment attendance for parents/caregivers	<i>remove_barriers</i> (primary)	+8–12% (concentrated among caregivers)	Emerging: Family planning service parallels [13]	Medium (facility/partnerships)
Mobile Delivery Services	Home or community-based injection services, eliminate clinic visit barriers	<i>remove_barriers</i> , <i>system_level</i>	+15–25%	Moderate: HIV treatment community delivery [14]; WHO 2025 guidance [3]	High (mobile units, staffing)
Bundled Payment Models	Single authorization covers all bridge period services, streamlines multi-visit approval	<i>structural_support</i> , <i>system_level</i>	+12–18%	Emerging: Episode-based payment theory [12]	High (payer negotiation)
Accelerated Insurance Authorization	Priority review pathway, reduce 7–14 day delays affecting 30–40% of patients	<i>structural_support</i> (primary)	+12–15%	Emerging: Health policy literature on prior authorization [12]	Medium (payer partnerships)
ADDRESS CLINICAL & INTERPERSONAL BARRIERS					

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Table S1 – *Continued from previous page*

Intervention	Description	Mechanisms & Tags	Effect Size	Evidence Level & Source	Implementation Complexity
Medical Mistrust Intervention	Community health worker support, cultural concordance, address historical trauma	<i>clinical_support</i> (primary)	+8–12%	Moderate: Patient navigation for marginalized populations [15,16]	Medium (CHW training)
Anti-Discrimination Protocols	LGBTQ+-affirming care, staff training, visible inclusivity signals	<i>clinical_support</i> (primary)	+10–15% for SGM populations	Moderate: Sexual and gender minority healthcare literature [17]	Low-Medium (training)
Confidentiality Protections	Youth-friendly services, anonymous scheduling, privacy-preserving systems	<i>clinical_support</i> (primary)	+8–12% for adolescents	Moderate: Adolescent PrEP literature [18]	Medium (system redesign)
Language-Concordant Services	Professional interpretation, translated materials, multilingual staff	<i>clinical_support, remove_barriers</i>	+10–12% for LEP populations	Moderate: Healthcare language access studies [19]	Medium (interpreter services)
SYSTEM-LEVEL REDESIGN					
Telemedicine Integration	Virtual visits for counseling/follow-up, reduce in-person visits from 3 to 2	<i>navigate_bridge, remove_barriers, system_level</i>	+10–15%	Moderate: COVID-era telehealth expansion demonstrated feasibility [20]	Medium (technology platform)
Pharmacist-Led Prescribing	Expand prescriber pool 5–10×, reduce provider appointment barriers	<i>system_level, structural_support</i>	+15–20%	Moderate: Pharmacist PrEP prescribing studies [21]; requires scope-of-practice expansion	High (regulatory change)
Harm Reduction Integration (PWID)	Co-locate LAI-PrEP with syringe services, reduce stigma/criminalization fears	<i>system_level, clinical_support</i>	+25–35% for PWID (10% baseline → 35–45%)	Moderate: SSP-integrated HIV services [17]	Medium-High (service integration)
Community-Based Delivery	Deliver services in community settings vs. clinical facilities, address medical mistrust	<i>system_level, clinical_support, remove_barriers</i>	+15–25% in under-resourced settings	Moderate: HIV treatment community models [22]; WHO 2025 guidance [3]	High (community partnerships)

Methodological Notes

Effect Size Estimation and Evidence Quality

All effect sizes in this library are derived from:

1. **Direct LAI-PrEP implementation data** (when available): CAN Community Health Network study
2. **Oral PrEP RWE implementation metadata for extrapolation** (with caution): Effect sizes from oral PrEP navigation interventions, adjusted for LAI-specific barriers
3. **Analogous healthcare interventions:** Cancer screening navigation, HIV treatment cascade, maternal health navigation programs with similar structural barriers

Evidence strength ratings:

- **Strong:** Multiple studies, meta-analyses, or large implementation cohorts with consistent findings
- **Moderate:** Limited studies, single large cohort, or extrapolation from closely analogous settings
- **Emerging:** Theoretical rationale, pilot data, or extrapolation from less directly comparable interventions

Intervention Effect Calculation: Two-Stage Model

The algorithm uses two distinct parameters for combined intervention effects:

Stage 1: Diminishing Returns Factor ($\alpha = 0.70$)

Individual intervention effects (after mechanism overlap penalties) are summed, then multiplied by diminishing returns factor:

$$\Delta\text{Success}_{\text{intermediate}} = 0.70 \times \sum_{i=1}^n e_i \quad (1)$$

where e_i is the adjusted effect of intervention i .

Rationale: Multi-component healthcare interventions typically yield 60–80% of their theoretical additive effect due to:

- Overlapping mechanisms (e.g., both navigation and transportation help with appointment attendance)
 - Patient saturation effects (limited capacity to participate in multiple simultaneous interventions)
 - Irreducible failure modes (e.g., patients who move out of state during bridge period)
- Example:** Three interventions with adjusted effects +8%, +10%, +12%:
Naive additive prediction: $8 + 10 + 12 = 30\%$ improvement
Realistic combined effect: $0.70 \times 30 = 21\%$ improvement

Stage 2: Absolute Success Rate Ceiling (max = 0.95)

The final success rate (baseline + Stage 1 improvement) is capped at maximum absolute success rate of 95%:

$$\text{Success}_{\text{final}} = \min(\text{Success}_{\text{baseline}} + \Delta\text{Success}_{\text{intermediate}}, 0.95) \quad (2)$$

Important Note: This ceiling represents maximum *absolute* success rate, not maximum improvement. The maximum possible improvement therefore varies by baseline:

Baseline Success	Max Final Success	Max Improvement
10%	95%	85 percentage points
25%	95%	70 percentage points
50%	95%	45 percentage points
75%	95%	20 percentage points
90%	95%	5 percentage points

Rationale: Even with optimal intervention bundles, some attrition is unavoidable due to:

- Patient relocation outside service area
- Insurance changes or loss of coverage
- Personal decisions to discontinue PrEP
- Unforeseeable life events (hospitalization, family emergencies)

The 95% ceiling reflects clinical reality that some small proportion of patients will not successfully complete bridge period regardless of interventions.

Validation data: In 21.2 million patient validation, average success with interventions was 43.5%, well below the 95% ceiling, confirming the ceiling is appropriate and not artificially constraining predictions.

Configuration note: Both parameters are externally configurable in the JSON file (configuration v3.1.0):

- intervention_diminishing_returns_factor: 0.70 73
 - max_success_rate_with_interventions: 0.95 74
- Sensitivity analysis shows results are robust to variations in α from 0.60 to 0.80 (± 2.5 percentage points). 75
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Mechanism Classification System 77

The mechanism diversity scoring uses six categories to prevent redundant recommendations: 78
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1. **eliminate_bridge:** Interventions that completely remove the bridge period (e.g., same-day switching for oral PrEP patients with recent HIV test) 80
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2. **compress_bridge:** Interventions that shorten bridge duration without eliminating it (e.g., RNA testing reducing window period, rapid lab turnaround) 82
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3. **navigate_bridge:** Interventions that guide patients through existing bridge period (e.g., patient navigation, peer navigation, text reminders) 84
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4. **remove_barriers:** Interventions that eliminate specific structural obstacles (e.g., transportation support, childcare, mobile delivery) 86
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5. **clinical_support:** Interventions addressing interpersonal and clinical barriers (e.g., medical mistrust interventions, cultural concordance, confidentiality protections) 88
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6. **structural_support:** Interventions targeting systemic/administrative barriers (e.g., insurance authorization, bundled payments, rapid lab processing) 90
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7. **system_level:** Interventions requiring fundamental healthcare delivery redesign (e.g., pharmacist prescribing, harm reduction integration, community-based delivery) 92
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Mechanism Overlap Penalty 94

When selecting multiple interventions, the algorithm applies a 10% penalty for each shared mechanism tag: 95
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$$\text{adjusted_effect} = \text{base_effect} \times (1 - 0.10 \times k) \quad (3) \quad 97$$

where k is the number of mechanism tags shared with already-selected interventions. 98

Example: 99

1. **First intervention** (Patient Navigation): *navigate_bridge, structural_support* $\rightarrow +12\%$ (no penalty, first selection) 100
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2. **Second intervention** (Peer Navigation): *navigate_bridge* $\rightarrow +10\% \times (1 - 0.10 \times 1) = +9\%$ (1 shared tag with #1) 102
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3. **Third intervention** (Transportation Support): *remove_barriers* $\rightarrow +8\%$ (no penalty, distinct mechanisms) 104
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4. **Fourth intervention** (Insurance Navigation): *structural_support* $\rightarrow +10\% \times (1 - 0.10 \times 1) = +9\%$ (1 shared tag with #1) 106
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5. **Fifth intervention** (Medical Mistrust): *clinical_support* $\rightarrow +12\%$ (no penalty, distinct mechanisms) 108
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Total: $12 + 9 + 8 + 9 + 12 = 50\%$ (sum of adjusted effects) 110

After Stage 1 ($\alpha=0.70$): $0.70 \times 50 = 35\%$ improvement 111

Final (Stage 2): If baseline = 24%, final = $\min(24+35, 95) = 59\%$ success rate 112

This penalty ensures diverse approaches addressing complementary failure modes rather than redundant strategies. 113
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Barrier Impact Calculation 115

Individual barrier impacts in this library reflect **marginal effects** assuming multiplicative combination (as specified in algorithm configuration). When multiple barriers are present: 116
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$$P_{\text{attrition}} = 1 - \prod_{j=1}^m (1 - b_j) \quad (4)$$
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where b_j is the impact of barrier j .

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This multiplicative approach reflects that barriers often interact synergistically (e.g., transportation barriers are more severe when combined with childcare needs), and prevents mathematical impossibilities that can occur with simple addition.

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Target Populations and Barrier Specificity

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Universal interventions (applicable to all populations):

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- Patient navigation
 - SMS/text reminders
 - Accelerated HIV testing
 - Same-day switching (for oral PrEP patients)
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Population-tailored interventions:

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- **PWID:** Harm reduction integration, peer navigation, mobile delivery
 - **Adolescents:** Youth-specific navigation, confidentiality protections, school-friendly scheduling
 - **Cisgender women:** Transportation support, childcare assistance, community-based delivery
 - **Transgender women:** Anti-discrimination protocols, peer navigation, affirming care training
 - **Rural populations:** Mobile delivery, telemedicine, transportation support
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Barrier-specific interventions:

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- Transportation barriers → Transportation support, mobile delivery, telemedicine
 - Childcare barriers → Childcare assistance, extended hours, home delivery
 - Insurance barriers → Expedited authorization, bundled payments
 - Medical mistrust → CHW interventions, peer navigation, cultural concordance
 - Scheduling conflicts → Extended hours, telemedicine, mobile delivery
 - Privacy concerns → Confidentiality protections, community-based delivery
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Evidence Gaps and Future Research

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Distinction: Computational vs Clinical Validation

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What has been validated computationally (at 21.2M patient scale):

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- Algorithmic stability across scales (1K to 21.2M patients)
 - Mathematical consistency of probability calculations
 - Convergence of estimates with increasing sample size (95% CI: ± 0.018 percentage points at 21.2M)
 - Sensitivity to parameter variations (α from 0.60 to 0.80: ± 2.5 points)
 - Edge case handling (100% test pass rate on 18 edge cases)
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What requires clinical validation (prospective implementation research):

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1. **LAI-PrEP-specific effect sizes:** Most estimates extrapolate from oral PrEP or analogous interventions. Direct LAI-PrEP implementation trials needed.
 2. **Synergistic interactions:** Current model assumes additive effects (with diminishing returns). Some intervention combinations may have multiplicative benefits.
 3. **Optimal intervention bundle size:** At what point do additional interventions provide minimal incremental benefit?
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4. **Population heterogeneity:** Effect sizes may vary substantially within broad categories. 161
5. **Cost-effectiveness ratios:** Which interventions provide best value for investment? 162
6. **Implementation fidelity:** Real-world effectiveness depends on intervention quality 163 and protocol adherence. 164
7. **Sustainability:** Long-term maintenance of intervention programs beyond pilot funding. 165
8. **Regional adaptation:** How do effect sizes vary across healthcare systems and 166 cultural contexts? 167

Critical Note on Computational Precision: The tool achieves exceptional computational precision (± 0.018 percentage points at 21.2M scale), but this does NOT imply clinical certainty about parameters. Parameter uncertainty remains substantial pending prospective validation. 170
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Use in Clinical Decision Support Tool

This intervention library serves as the external configuration for the LAI-PrEP Bridge 174 Decision Support Tool. The tool: 175
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1. **Matches interventions to barriers:** Identifies patient-specific barriers and selects 177 interventions targeting those barriers 178
2. **Applies mechanism diversity scoring:** Prevents recommending multiple interventions 179 with redundant mechanisms (10% penalty per shared tag) 180
3. **Calculates combined effects:** Uses two-stage model (Stage 1: 70% diminishing 181 returns; Stage 2: 95% absolute success ceiling) 182
4. **Prioritizes by effect size and evidence:** Ranks recommendations by expected 183 impact and evidence strength 184
5. **Considers implementation complexity:** Flags high-complexity interventions requiring 185 substantial resources 186
6. **Enables local adaptation:** Sites can modify effect sizes, add interventions, or disable 187 unavailable strategies by editing the JSON configuration file 188

Continuous updates: As new evidence emerges from ongoing trials and real-world 189 implementation, this library should be updated to reflect improved effect size estimates and 190 evidence strength ratings. Version control and change logs maintained in GitHub repository. 191

Conclusion

This comprehensive intervention library represents the synthesis of best available 192 evidence for LAI-PrEP bridge period navigation. The 21 interventions span six mechanism 193 categories, three evidence strength levels, and three implementation complexity tiers, 194 enabling flexible, evidence-based decision support tailored to patient populations, local 195 resources, and specific barriers. 196

Implementation readiness: The tool is computationally validated at global scale 197 (21.2M synthetic patients matching UNAIDS 2025 global targets) with policy-grade precision 198 (± 0.018 percentage points). Open-source code, comprehensive documentation, and 199 externalized configuration enable rapid deployment. 200

Caveat: While computational validation demonstrates algorithmic precision, 201 prospective validation with real patients in diverse settings is essential to validate effect size 202 estimates, identify optimal intervention bundles, refine implementation strategies, and 203 establish clinical utility. 204

Correspondence to main manuscript: A.C Demidont, DO (2025). Computational Validation of a Clinical Decision Support Algorithm for Long-Acting Injectable PrEP Bridge Period Navigation at UNAIDS Global Target Scale. *Viruses*.

Software repository: <https://github.com/Nyx-Dynamics/LAI-PrEP-Bridge-Tool>

Zenodo DOI: <https://zenodo.org/record/17873201> (v3.1)

Configuration file: See Supplementary File S1 (JSON Configuration v3.1.0)

Code documentation: See Supplementary File S4 (Code & Data Repository)

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