

Who Gets Screened Out?

The Opioid Crisis and Employer Skill Requirements

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The paper

Question

How does the opioid crisis affect employers' job skill requirements for new hires?

Design

Dynamic DID, 2007 + 2010–2019. **Treatment:** Firm-level exposure to the 2010 OxyContin reformulation (2006–09).

Data

Lightcast online job postings × Compustat publicly traded firms (2,202 firms).

Main result

1 SD ↑ exposure \Rightarrow -5.1% firm employment, $+7.9\%$ cognitive skills, $+5.4\%$ computer skills required per posting. *Interpretation:* statistical discrimination — employers screen against drug-use risk via skill requirements.

What the paper does well

A genuinely new angle

The opioid–labor literature is extensive but has focused mainly on worker-side labor-supply and employment effects. This paper examines the *employer-side* response.

Uniquely linked dataset

Fuzzy-matching Lightcast to Compustat at the firm level.

Firm-level decomposition advantage

The firm-level approach separates *within-firm* adjustments from *cross-firm compositional* change, which is exactly the margin needed to interpret aggregate skill shifts.

1. The upskilling pattern: three candidate interpretations

All three are observationally equivalent in the paper's reduced-form regressions.

- ▶ **A. Statistical discrimination (paper's preferred).** Raise observable bar to screen out higher-risk applicants.
- ▶ **B. Productivity-substitution (p. 14).** Lower applicant productivity \Rightarrow higher skill demand. Same signature, different mechanism. *Kim, Kim & Park (2024)*: inflow is “entirely driven by less-skilled workers,” and average local skill falls.
- ▶ **C. Capital-labor / task restructuring.** Footnote 8 rules out a capital-stock increase, not task restructuring or capital per worker.

Suggestion #1: granular skill disaggregation

“Computer skills” combines two mechanisms

- ▶ **Excel, Word, PowerPoint** ⇒ raising basic-competency floor (screening).
- ▶ **Python, SQL, TensorFlow** ⇒ technology adoption (not screening).

Within “cognitive”

- ▶ Attention, accuracy, reliability ⇒ screening.
- ▶ Advanced statistics, modeling ⇒ technology adoption.

Disaggregating the keyword-level outcome would discriminate between screening (A) and productivity-substitution (B) more cleanly than the current six-category aggregation.

2. Identification

(a) Exposure measure validity

CDC Schedule II is broader than OxyContin misuse; Figure A3 helps validate it, but Figure 14 is only state-level Alpert robustness. Report side-by-side average post coefficients and p-values?

(b) Thin pre-period: missing 2008–2009

Lightcast does not cover 2008–09, leaving a single pre-year (2007) for skill outcomes. Compustat employment outcomes have 2005–08 as a separate pre-window.

(c) Recession control not visualized

The paper controls for Hershbein–Kahn unemployment \times year. Overlay the event-study with vs. without these controls?

(d) Labor-supply controls may be bad controls

Appendix Tables 3/A3 condition on state-year LFP and wages. These are *post-treatment*, so treat them as a partial check, not proof that screening is isolated.

3. Aggregate reconciliation implies a reallocation

The decomposition

$$\beta_{\text{total}} \approx s \cdot \beta_{\text{public}} + (1 - s) \cdot \beta_{\text{private}}$$

- ▶ $\beta_{\text{public}} = -5.1\%$ (this paper)
- ▶ $\beta_{\text{total}} \approx -1.2\%$ (Park & Powell 2021, 5-yr)
- ▶ $s \approx 1/3$ (Davis et al. 2006)

Solving: $\beta_{\text{private}} \approx +0.75\%$

Implications

Caveat: back-of-envelope mapping; β_{total} is per-capita and β_{public} is firm-level.

- ▶ Reallocation is the implied missing margin.
- ▶ Does public-firm employment share fall in high-exposure counties?
- ▶ If less-skilled workers move from publicly traded firms to private firms, the wage–benefit gap is the relevant welfare margin.

4. The central distributional claim is asserted, not tested

From the abstract

“less-skilled workers may experience a disproportionate impact from the increased skill requirements, even among workers without a history of opioid use disorders.”

Three components, none directly tested:

1. **Less-skilled workers disproportionately affected.** Heterogeneity is by firm, not by worker. Figure 11 shows low-baseline-education *firms* upskill more — but low-education-firm \neq less-skilled workers within firms. Without worker-level data, we cannot infer worker harm from firm characteristics.
2. **Mechanism is the increased skill requirement.** The 5% employment decline is not tied to raised requirements rather than reduced hiring, separations, or direct labor-supply effects.
3. **Non-user spillover is model-derived.** The paper does not observe drug-use status, so the non-user channel is inferred from Section 3.3 (Policy Implication 2) rather than tested in worker data.

Suggestion #2: beyond skill requirements

Additional firm-level analyses?

Outcome	What it tells us
Revenue / worker	MPL: productive vs. defensive screening
Compensation / worker	Did remaining workers earn more?
Capital / worker	Capital deepening?

Potential extensions?

- ▶ TFP via Olley–Pakes
 - ▶ TFP \uparrow : productive screening; TFP \downarrow : defensive screening; TFP flat with composition shift: restructuring.
- ▶ Combine with Kim, Kim & Park (2024)
 - ▶ Worker-side companion paper (Lightcast Job Profile data) documents skilled-worker outflow, low-skill in-migration, and falling local skill levels.

Thank you

Looking forward to the discussion.

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