

Discussion of "The Impact of Minimum Wages: International Evidence" by Arindrajit Dube

Workshop "Minimum Wages: International Experiences and Evaluation" - Minimum Wage Commission

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Recap of what we just heard ...

- Rising minimum wages: Not just in Germany ...
- Minimum wages and employment: Does not the law of demand hold?
 Small negative/zero/small positive employment effects
 - → monopsonistic low wage labor markets
- Eventually there is a turning point, where law of demand will hold?
 → Evidence from high minimum wages
- Local estimates of the own wage elasticities, well identified
- Novel empirical approaches: bunching approach, analyze series of minimum wage increases in local labor markets (series of event study estimates, diff-in-diff), address inherent heterogeneity of minimum wage effects, upper tail falsification
- Further outcomes: Reallocation to better jobs, wage inequality

Maybe, what we did not hear ... (I)

- Partial labor market analysis, short-run effects:
 Long-run effects stronger?
 How to extrapolate local estimates?
- Spill-over effects? High wages unaffected?
 - Minimum wage in roofing industry in East Germany: Bodo Aretz, Terry Gregory, and Melanie Arntz (2019). "The Minimum Wage Affects Them All: Evidence on Employment Spillovers in the Roofing Sector", German Economic Review.
- Further outcomes: Hours worked, productivity effects (reallocation), prices (pass-through?, real wages), education and training (Acemoglu/Pischke, 1998)

Maybe, what we did not hear ... (II)

- Deunionization and minimum wage: industry level wage bargaining/ industry level minimum wages
- Policy endogeneity, interaction with collective bargaining
- Broader outcomes: Poverty, social cohesion ('Respect'), tool to

counter

labor shortages, productivity driver, stress at work (health), informal (illegal) work

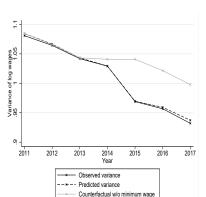
Is the minimum wage effective if there are no negative employment effects?

Address monopsonistic market power or guarantee a living income?

Welfare analysis.

More on Germany MW2015: Monthly Earnings Effects

Bossler/Schank (JOLE, online first 2022):



- Effects of MW2015 identified from DiD applied to RIF-regressions.
- During the 2010s the variance in monthly earnings would have decreased even in the absence of the minimum wage.
 - ightarrow Positive pre-trend in low-wage labor market since 2010
- Minimum wage affected inequality to decline by 6%.
 - Reduction of East-West wage differential.
 - No crowding out of social benefits.
- No significant regional-level employment effect.

More ...: Effects on Hourly wages and Hours worked

Biewen/Fitzenberger/Rümmele (IZA DP, 2022):

- Effects of MW2015 identified from DiD applied to distribution regressions (inspired by Dube, 2019)
- GSES (2014/2018) + IAB-DGUV (pre-trend analysis 2011-2014)
- DiD regression formulation for of wages/hours worked at threshold z

$$\begin{aligned} \mathbf{1}[y_{igt} \leq z] &= \alpha_z + \gamma_z \times D_g + \lambda_z \times D_t \\ &+ \beta_z (\textit{Bite}_g \times D_t) + \textit{X}_{igt} \delta_z + (\textit{X}_{igt} \times D_t) \eta_z + \varepsilon_{igt}, \end{aligned}$$

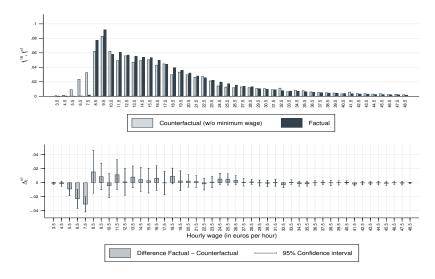
where $1[y_{iqt} \le z]$ is a binary indicator variable of being below z.

- Consider large set of thresholds, e.g. for hourly wages: {3.49, 4.49, ..., 49.49 €/hour }
 (similarly for hours bins)
- Regression used to construct counterfactual

Results: Effects on Hourly wages and Hours worked

- MW2015 almost eliminated hourly wages below it (very high compliance)
- Spill-over effects up to 20% above MW level
- Inequality of hourly wages decreased between 2014 and 2018 and MW2015 explains large part of decrease
- Pre-trend analysis: Low-wage growth already higher in most affected groups (strongest at €8.50 cutoff!!!), qualitative results robust
- No measureable impact on distribution of working hours

Results: Effects on Hourly wages (bite measure: region)



Minimum wages in Germany (I)

- Institutions: Collective agreements posit schedule of minimum wages, monopoly power of unions
- Decline in coverage by collective agreements: Industry specific minimum wages (starting in construction in 1997, region specific) [Doerr and Fitzenberger, 2016, JLMR]
- National minimum wage of €8.50 per hour introduced in 2015
- Between 2015 and 2021 the minimum wage was increased in small steps: Minimum wage fell behind general wage growth (collective wage agreements) until 2021 (Börschlein/Bossler/Gürtzgen, IAB-Forum, 15 Feb 2021)
- Successive increases of minimum wage up to 2020 did not seem to result in employment losses. Share of establishments affected fell from 16% in 2015 to 7% in 2020 (Börschlein/Bossler/Gürtzgen., IAB-Forum, 19 Sept 2022)

Minimum wages in Germany (II)

- 2022: Hourly minimum wage increases by 25 %
 - Jan 2022: €9.60 → €9.82 (Minimum Wage Commission)
 - Jul 2022: €9.82 → €10.45 (Minimum Wage Commission)
 - Jul 2022: €10.45 → €12.00 (National legislation)
- Potential employment effects of MW increase 2022:
 - Ex-post evaluations of MW 2015: optimistic concerning MW increases.
 - Recent ex-ante evaluations from structural models mostly as well.
 [Discussion papers: Ahlfeldt et al. (2022); Blömer et al. (2018); Drechsel-Grau (2022)]
 - But: Models have a turning point beyond which employment and welfare decrease.
 - IAB survey among heads of labor agencies in the summer 2022 optimistic (Hutter/Weber, IAB-Forum, 13 Sept 2022)

The bite increases ...

- In 2021 one out of five jobs was paid below MW2022. (Börschlein/Bossler/Gürtzgen, IAB-Kurzbericht 12/2022)
- Shares by types (2021, projected): full-time (8.8%), part-time (23.5%), minijobs (70.7%)
- The timing of the increase: high inflation which will mitigate its effects and makes increase timely.