

Health Sector Labour Market Dynamics & Multi-Employer Collective Agreements

James Hogan (Masters of Commerce Thesis)

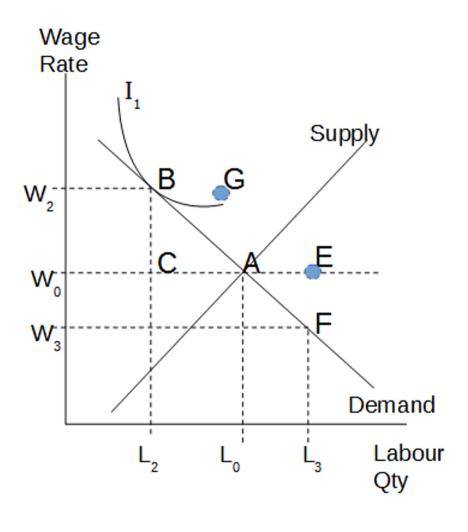


Multi-employer Collective Agreements

- Complex collective agreements between DHBs and workforce collectives
 - Negotiated centrally between unions and DHBs under the Govt's "Tripartite" process
 - Most of the DHB workforce is covered some MECA
 - Junior Doctors (RDA)
 - Senior Doctors (ASMS)
 - Technical workforces (physios / radiation technicians) (Apex)
 - Manditory terms and conditions
 - Fixed salary bands with automatic salary progression
 - Automatic training requirements, automatic leave entitlments



Little bit of labour market theory...



- Unions act as a labour cartel allowing their members to agree and fix their labour prices to an agreed non-competitive level (B).
- The size of the employed workforce falls.
- The high wage rate attracts entrants into market who can't all be employed at that price.
- The unemployed workforce only secure employment at a below competitive price
- Prices are distorted, and allocative inefficiency induced



Conditions for Union Power to Persist

- 2 Key Conditions needed for unions to maintain their power in long run
 - Uncompetitive Output Market
 - Must be market power for price increases to be passed through to some ultimate consumer
 - Uncompetitive Labour Market
 - Must be ablility for collective cartel behaviour to persist



Modelling Everything

 Approached the problem as a system of equations reflecting first order conditions for profit maximisation

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Health Sector Production: log(Y_{ti}) = log(A_{ti}) + \alpha log(L_{ti}) + \beta log(K_{ti})

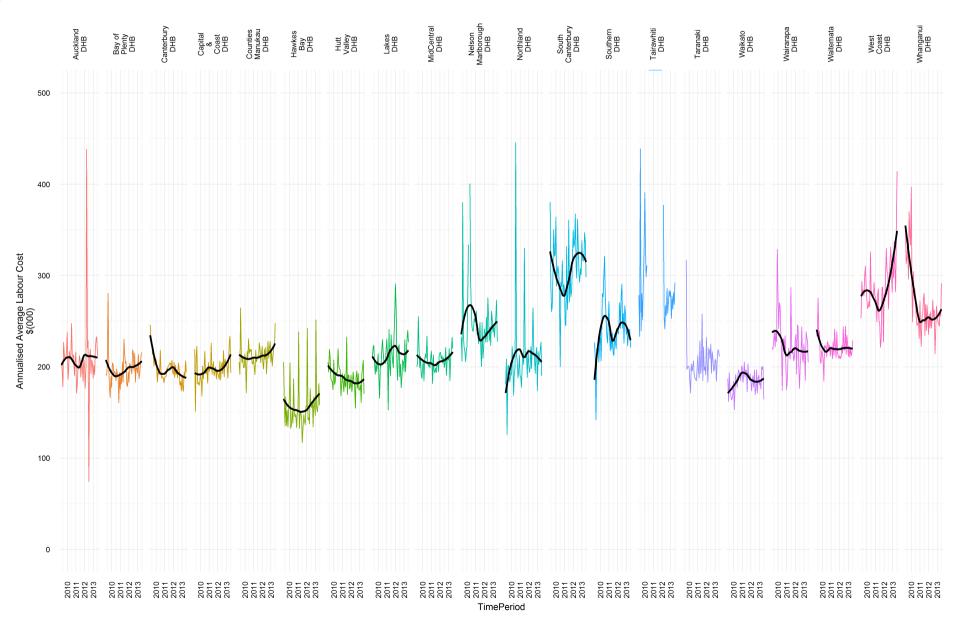
Labour Market: \frac{\partial Y}{\partial L} = log(w_{ti}) = log(A_{ti}\alpha) + (\alpha - 1)log(L_{ti}) + \beta log(K_{ti})

Capital Market: \frac{\partial Y}{\partial K} = log(r_{ti}) = log(A_{ti}\beta) + (\alpha)log(L_{ti}) + (\beta - 1)log(K_{ti})
(60)
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- 5 labour inputs (Medical / Nursing / Support / Allied Health / Management) plus a capital measure.
- 20 DHBs, monthly data spanning 2008 2012
- Comprehensive health service output measures
- The econometrics is a complex story in itself... read my thesis...:)

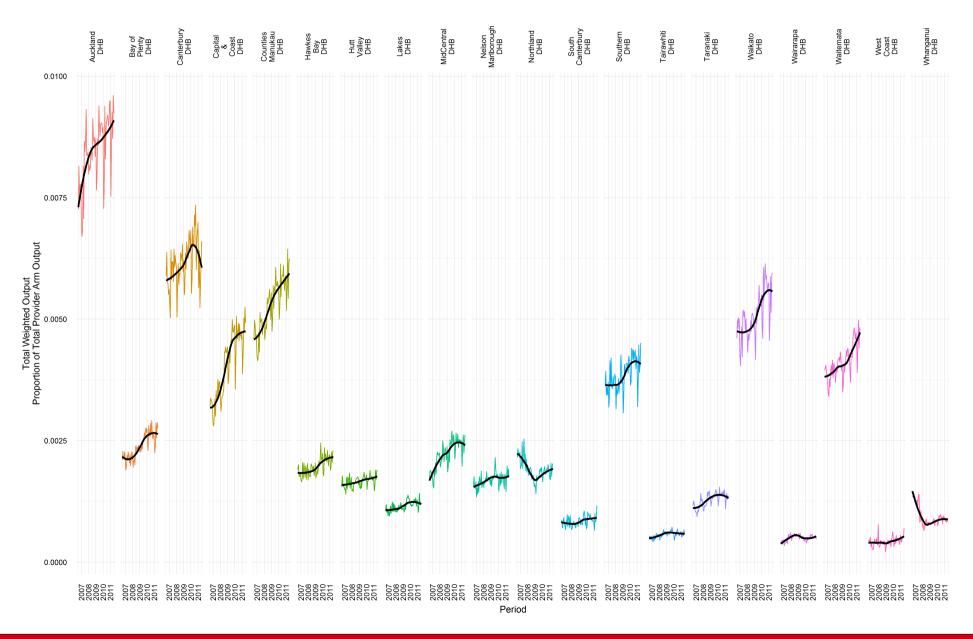


Data Example: Medical Labour Prices





Data Example: Output Measures





Key Results

- Thesis Table 1
- Turned it into a publicly available interactive website for scenarios and testing implications of model (www.wiltshirehogan.co.nz)
- Input quantities are determining labour Prices
 - HORRAH! Economic theory ACTUALLY works!
- Descending scale of own input labour price elasticities
 - Clear signs of ACTUALLY allocative inefficiency and MECA-induced production distortions

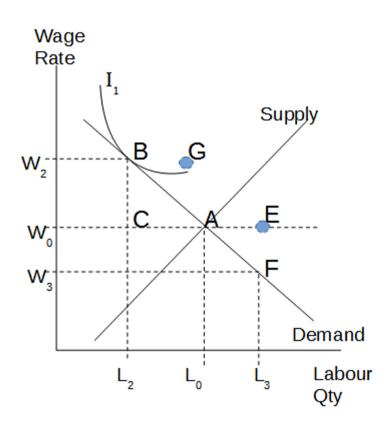


Policy Implications

- Overseas trained workforce attracted by high MECA wages excluded by uncompetitive labour market.
- High labour costs passed through to New Zealand taxpayer through uncompetitive output market.
- DHB Providers are induced to become inefficient
- Nursing graduates unable to find employment through smaller affordable workforce
- High medical wage rates attracting talent which might earn the same wage within a competitive market (best and brightest responding to artificial market signal)



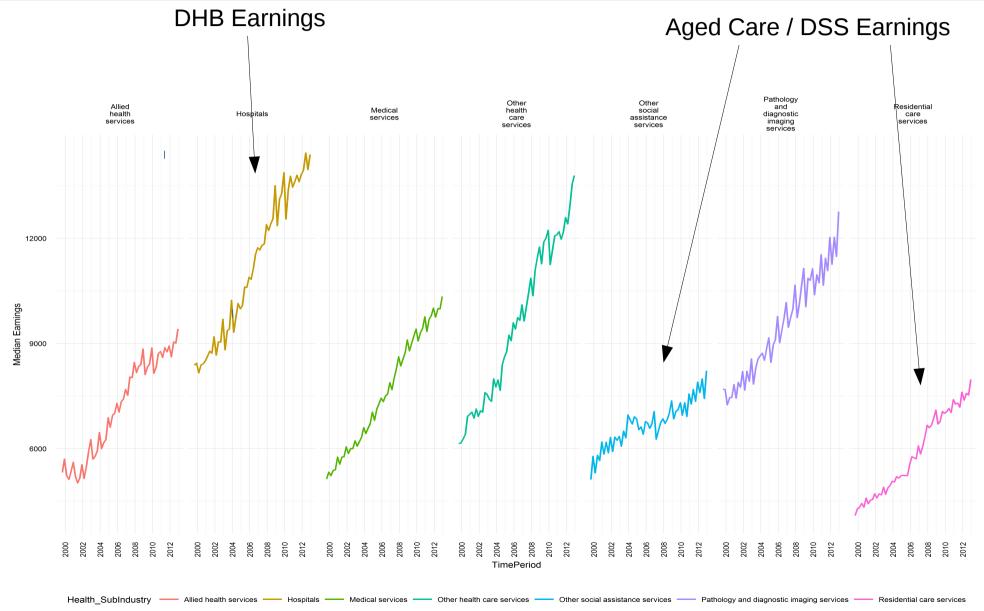
Final Passing Thoughts



- Where does the excess workforce go who are attracted into the labour by the high wages, but can't get a MECA job?
- Aged Care and Disability Sector are only private industries experiencing employment growth.



Final Passing Thoughts





Final Thoughts

