Fiscal Policy May Be Harmful When It Is Effective

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Abstract

This paper develops a framework of the welfare analysis of fiscal policy. Murphy

(2009) presented a formula, where the necessity of fiscal stimulus can be judged by

some deep parameters. This paper aims to advance his approach by deriving his formula

from an umbrella model that is a reduced form model of some major macroeconomic

models. The Real Business Cycle model with distortionary taxation is then considered

to focus on the relationship between the multiplier and deep parameters of the structural

model. The empirically plausible size of the multiplier is obtained by setting a high

elasticity of labor supply, which contradicts the evidence from micro data. One the other

hand, a higher elasticity of labor supply also creates a larger welfare cost of labor

income tax. Although one tends to think that fiscal policy is desirable when the

multiplier is larger, it may not be the case, because the welfare cost of distorted labor

market is large, too. Under the empirically plausible value of other deep parameters, a

counterintuitive result is found. Fiscal stimulus is less likely to be rationalized when the

fiscal multiplier is large. The welfare cost due to the elastic labor supply plays a crucial

role in determining the necessity of fiscal stimulus.

This result implies that the welfare implication of fiscal policy should be a key

factor in calibrating a structural model or in selecting a structural model. The fiscal

multiplier in the Real Business Cycle model and the new Keynesian model reflects a

movement of the natural level of output, but the contribution of the change in output

gap to the multiplier is not significant. This property leads to the above puzzling welfare

implication.

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