

**Title:** Risk Management of Personal Protective Equipment (PPE)  
Supply Chain Under The New Crown Pneumonia Epidemic  
Situation: Taking WK Company as an Example

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### **ABSTRACT**

The outbreak of new coronavirus pneumonia in December 2019 was listed as a major public health emergency by the World Health Organization. Personal protective equipment (PPE) played an important role in the protection of medical staff, health system personnel and the isolation of infected persons in this epidemic. After a major outbreak of the epidemic, the global demand for personal protective equipment (PPE) products surged, which led to the interruption of the supply chain of the personal protective equipment industry and brought risks to the supply chain of personal protective equipment. The emergence of these risks is partly due to the lack of knowledge of supply chain risk and the lack of risk management knowledge in the face of sudden infectious diseases.

Taking WK company as an example, this paper studies the supply chain risk status of PPE industry under the background of epidemic situation. The report makes an in-depth analysis of supply chain risk research in the PPE industry, and describes the main risk categories and uncertainties of supply chain disruption in different stages of the epidemic. This paper uses the questionnaire of 8 companies to analyze the

supply chain risk of PPE. This study is different from the previous studies on supply chain risk management in the following three aspects. Firstly, the supply chain risk studied in this paper is caused by the global public health crisis. Secondly, this paper applies supply chain risk management to PPE industry. Finally, through a case study, a practical framework of applying supply chain risk management to personal protective equipment industry during the epidemic period is proposed. Multi channel procurement strategy, supplier integration, distribution planning and forecasting, improving communication of PPE supply chain and close cooperation with freight forwarders have a positive impact on preventing and reducing the risk of supply chain in PPE industry. This study provides a reference point for managers and decision makers of the personal protective equipment industry, so as to better and more quickly respond to emergencies like the outbreak of the new coronavirus pneumonia in the future, reduce the supply chain risk of the personal protective equipment industry, and reduce the impact of similar large-scale supply chain disruption in the future.

**keyword:** supply chain, risk management, personal safety protective equipment