

To Improve the Management of Controlled Drugs and Supplementary Drugs by Using PDCA Methods

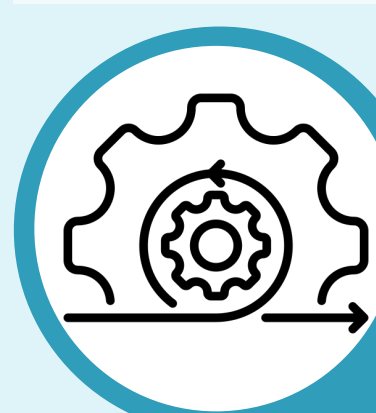
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Introduction

In order to further implement the "Regulations on the Administration of Controlled Drugs" formulated by the Ministry of Health and Welfare: Those who have a controlled drug registration certificate shall set up a book in the business premises to record the daily income and expenditure, destruction, loss and balance of controlled drugs. We use the PDCA method to optimize the “point-to-point” sign-in mechanism for drug management in drug trucks, thereby reducing the registration time and reducing the incidents the replenishment of missing drugs .



Methods

According to the PDCA method (Figure 1 and Figure 2), two quality improvement measures were adopted:

(1) During the period of 2020/01/01~2022/09/31, analyzed the reasons for the supplementary drug data of controlled drugs, and applied Information improvement needs. We also formulated a “point-to-point” sign-in mechanism for drug management in drug trucks, then confirmed the effectiveness. (2) Counted the time spent on manual registration in the book, and confirmed the results after requesting information reports.

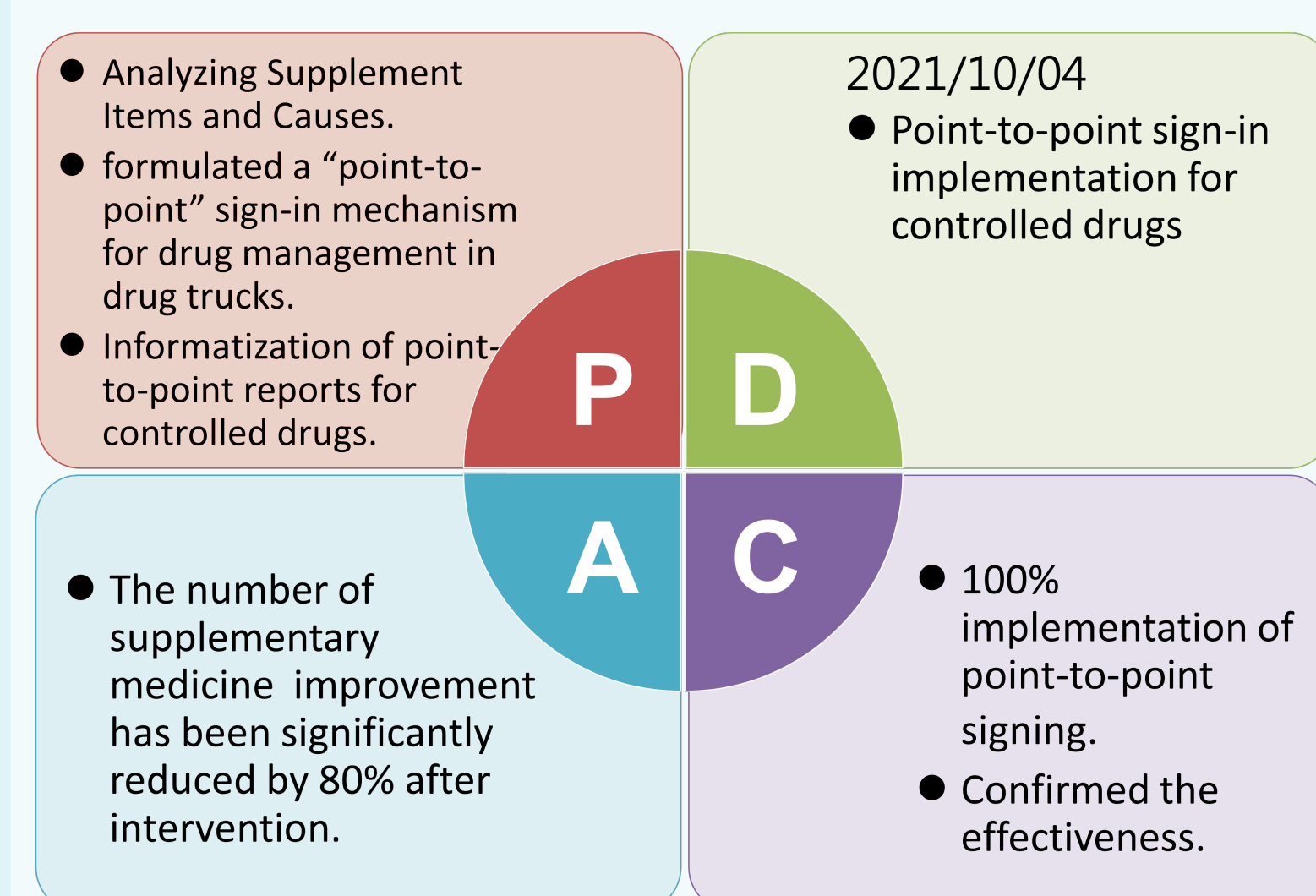


Fig.1 PDCA of The number of supplementary medicine improvement

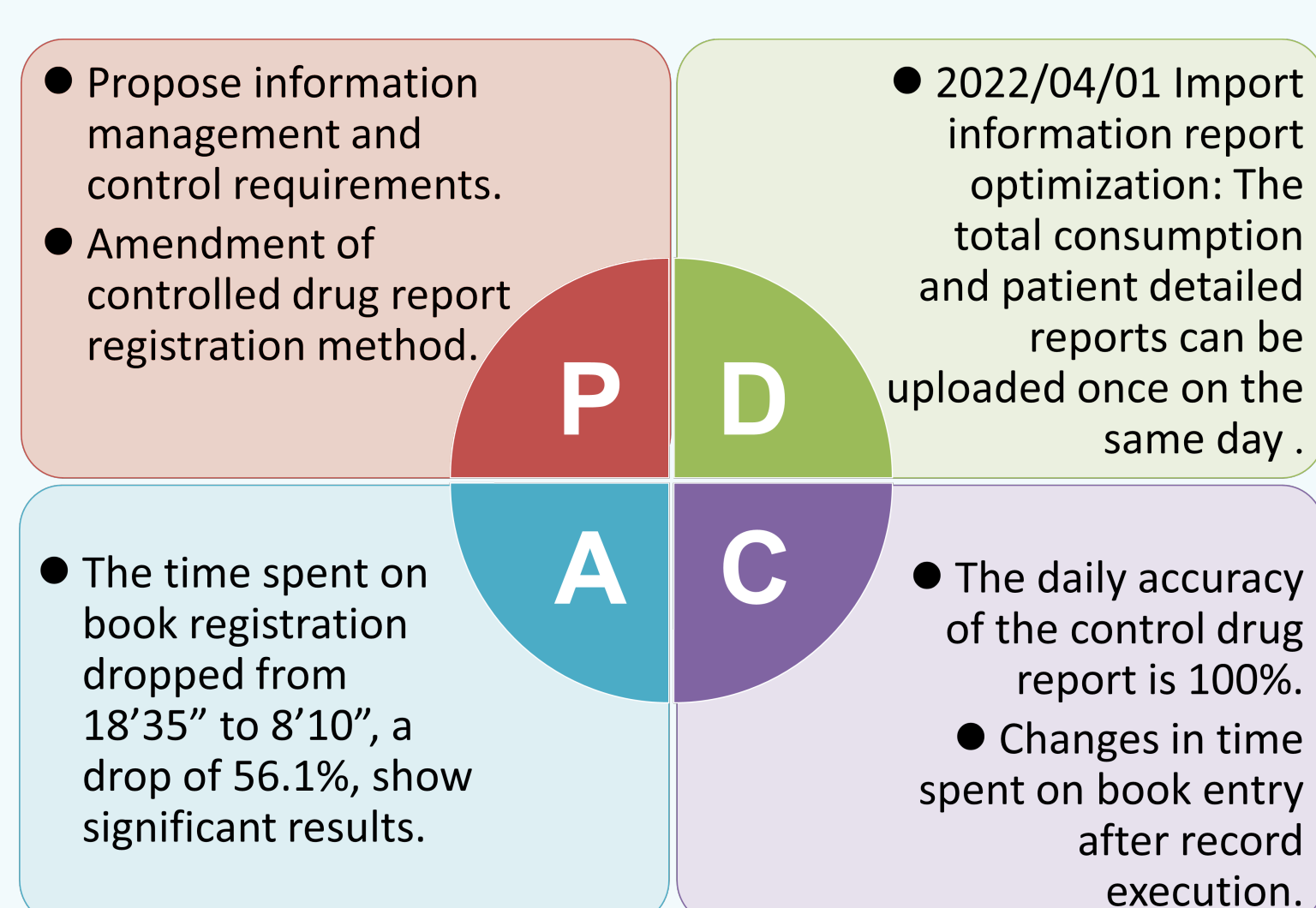


Fig.2 PDCA of Changes in time spent on book entry



Results

(1) Analyzed the reasons for supplementing the shortage of controlled drugs, mainly including the non-receipt of drugs and the shortage of drugs. Tracked the effectiveness of the “point-to-point” sign-in mechanism for drug management in drug trucks from 2021/10/01 to 2022/09/10, it was found the number of supplementary medicine improvement has been significantly reduced by 80% after intervention(Figure 3).

(2) After introducing the information report optimization measures, the time spent on book registra-tion dropped from 18 minutes and 35 seconds to 8 minutes and 10 seconds, a drop of 56.1%(Figure 4).

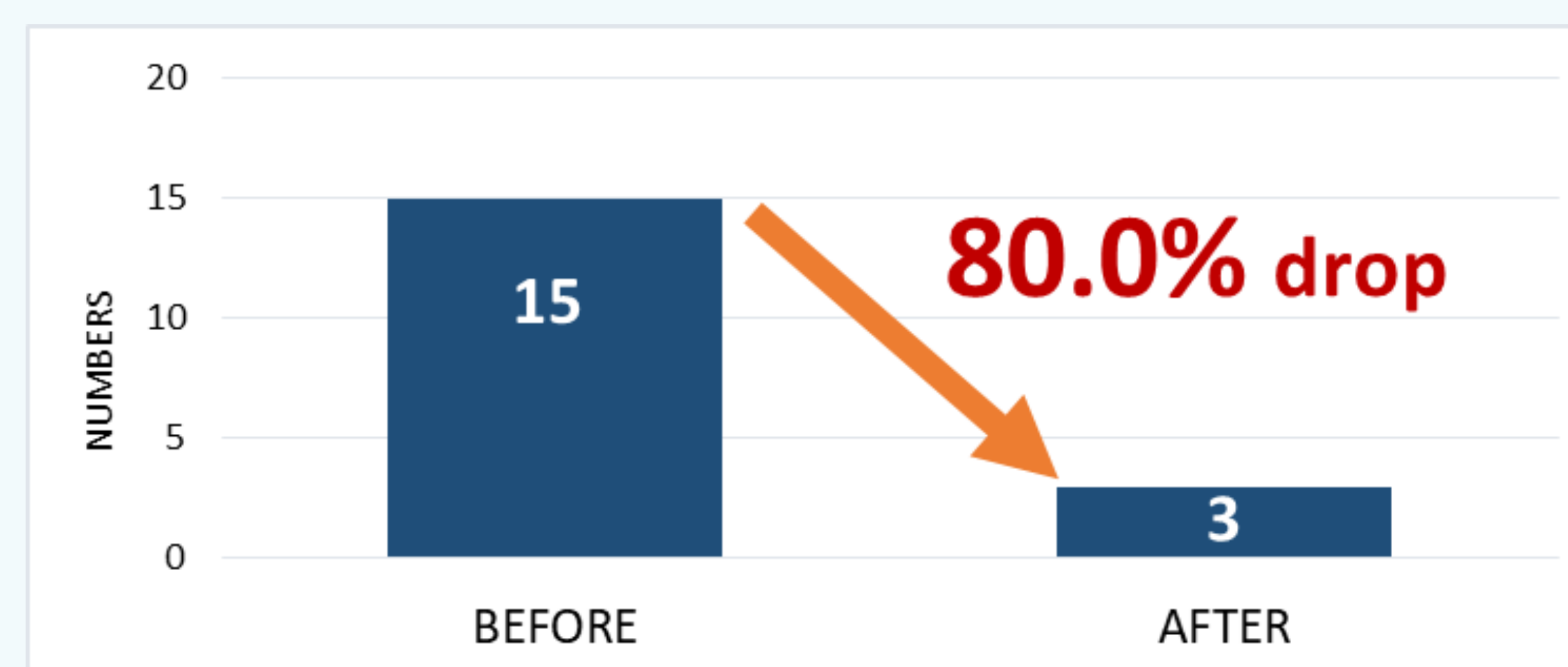


Fig.3 Number of supplementary medicine improvement

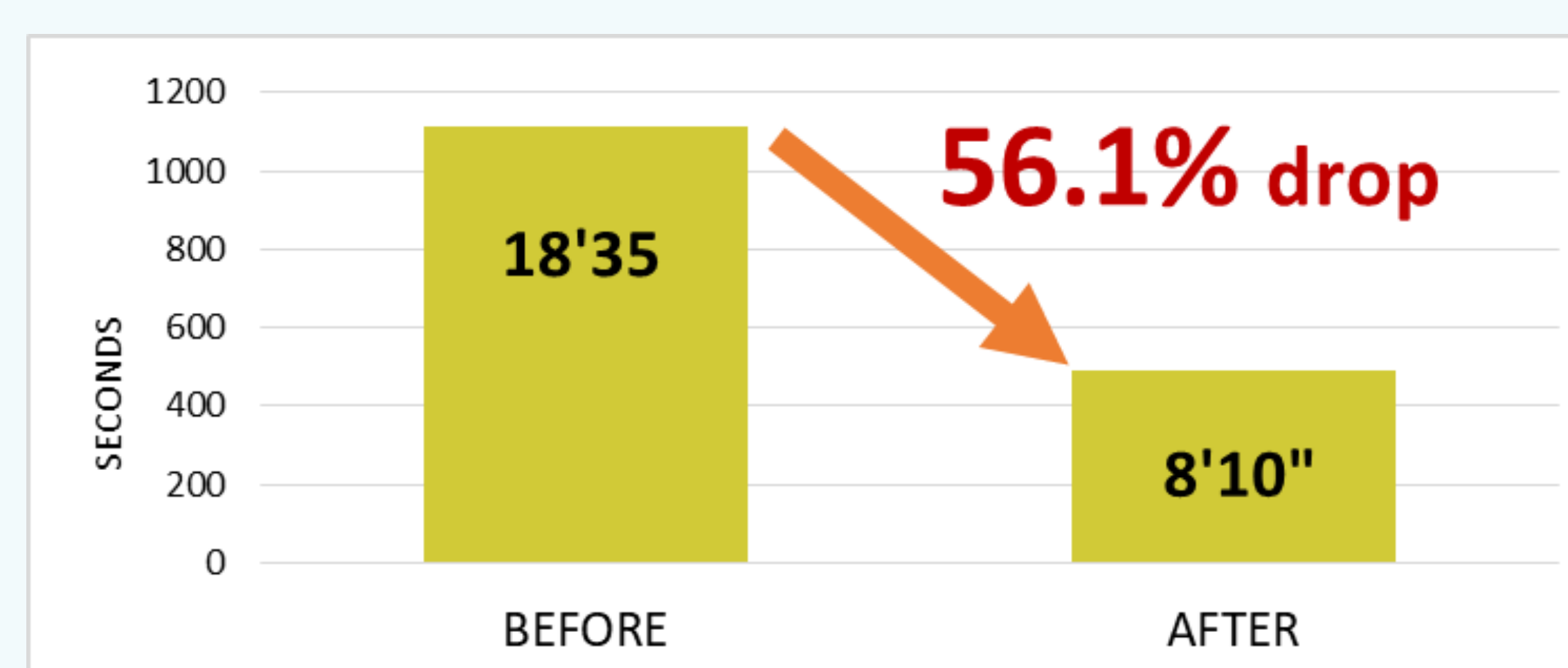


Fig.4 The time spent on book registration



Conclusion

Using the PDCA method to improve the registration process of controlled drug information reports can indeed significantly reduce the time spent on manual work. After the implementation of the “point-to-point” sign-in mechanism for drug management in drug trucks, controlled drugs can be clearly assigned by nursing units, both quality interventions showed significant improvements.

