

INTRODUCTION

- We have identified a need to increase NBME subject examination scores to strengthen medical students' understanding of pediatric medicine and improve their readiness for the USMLE Step 2CK exam
- We aim to improve aggregate shelf scores measured by cohort by implementing evidence-based peer-teaching interventions into the pediatrics clerkship

MATERIALS & METHODS

- A booklet containing 50 topics was distributed to 3rd-year medical students (Class of 2023) at the Brody School of Medicine at East Carolina University during the pediatric clerkship orientation for cohorts 4-6.
- At the end of the 8-week clerkship, students completed an anonymous paper survey on their participation in presentations and preparedness for their shelf exam
- The Office of Data Analysis and Strategy (ODAS) provided the average NBME scores and corresponding percentile per cohort
- The average NBME scores from previous cohorts were also collected to establish a baseline shelf exam performance
- Standard statistical process control rules were used to determine special cause variation after implementation of project interventions.
- No individually identifiable data was collected

RESULTS

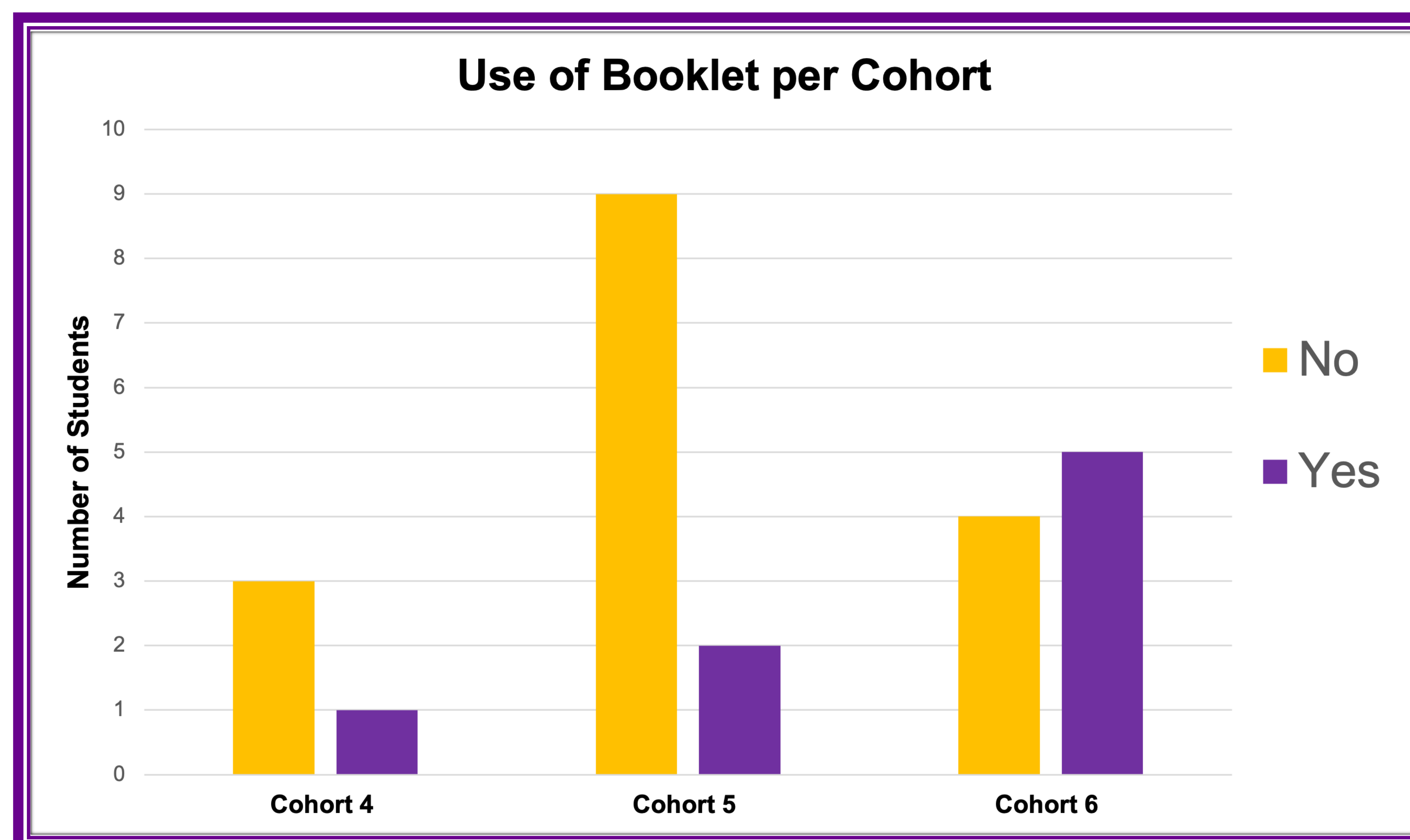


Figure 1 Graphical representation of survey participants who used the booklet per cohort.

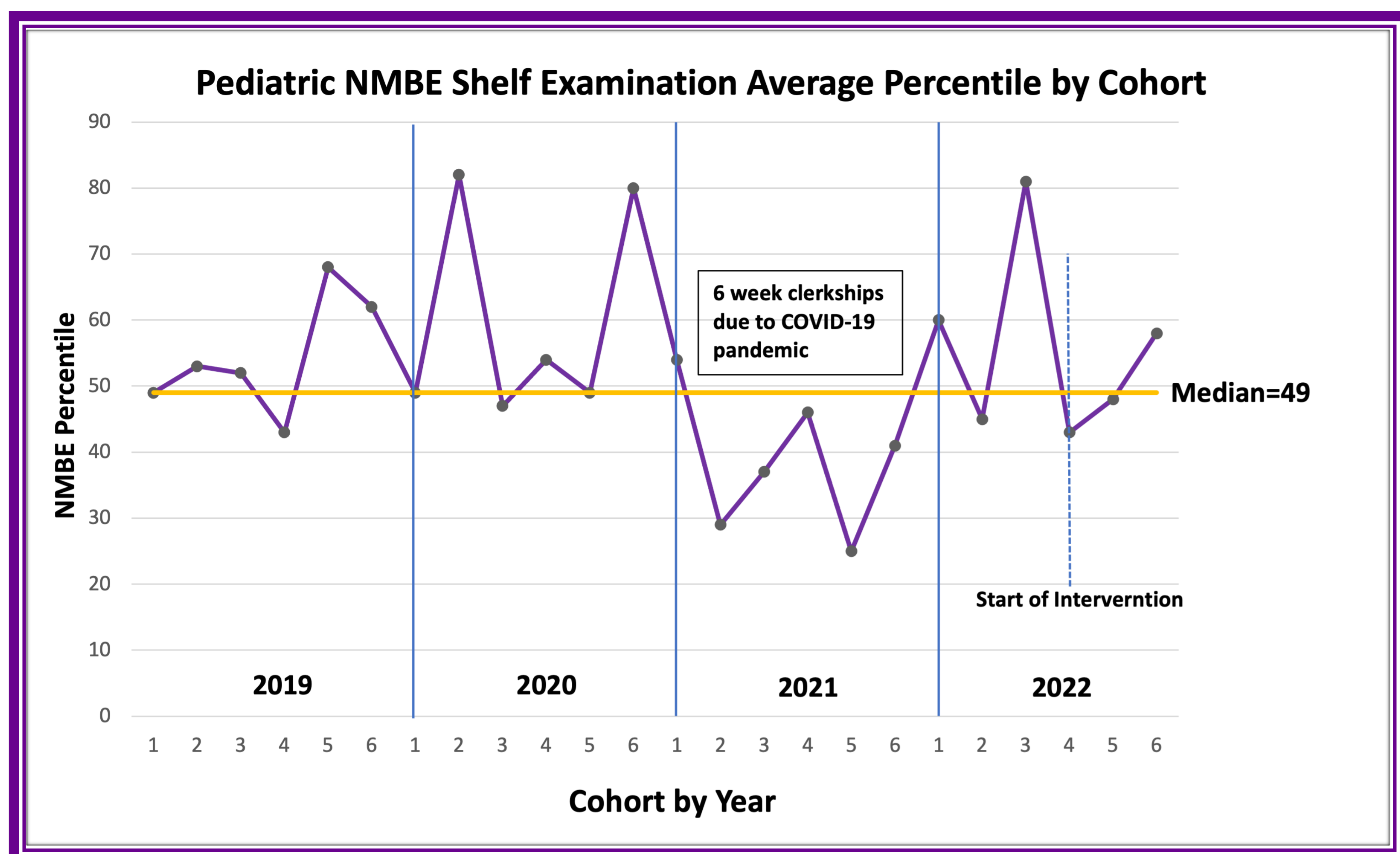


Figure 2 Run chart showing the median prior to the intervention with the process/outcome measurements over time. Intervention was started in Cohort 4 of 2022.

	Pre-Intervention	Post-Intervention
Number of Scores	309	37

DISCUSSION

- There is not enough data yet to analyze the effectiveness of the intervention
- Based on the limited number of responses, one additional finding was increased facilitation of communication with the residents
- Reasons for low participation since the booklet's introduction could be due to its elective use or unfamiliarity
- Between the 4th and 5th cohort, efforts were made to increase participation such as better informing teaching residents of the booklet, recruiting a third-year medical student to be a liaison, and sending a reminder midway through the cohort
- Future efforts to improve participation include making booklet-use and peer-teaching mandatory and incorporating built-in time during the clerkship for peer-teaching.

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