



Singapore Healthcare Management 2016

Maximising Learning², SingHealth

Optimising Resources

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Aim

We aim to increase the number of project teams and learning opportunities for attending each Enhancing Performance Improving Care (EPIC) Quality Improvement (QI) review session.

1 Background

The EPIC QI Workshop is an Innovator level program on the EPIC Learning Pyramid (Fig.1) which provides QI teams with essential knowledge and skills in QI. EPIC QI Review sessions are part of the post workshop activities. It is a half day session where participants share their project progress and experience. QI Faculty provides guidance and advice on the projects and participants are able to learn from each other.

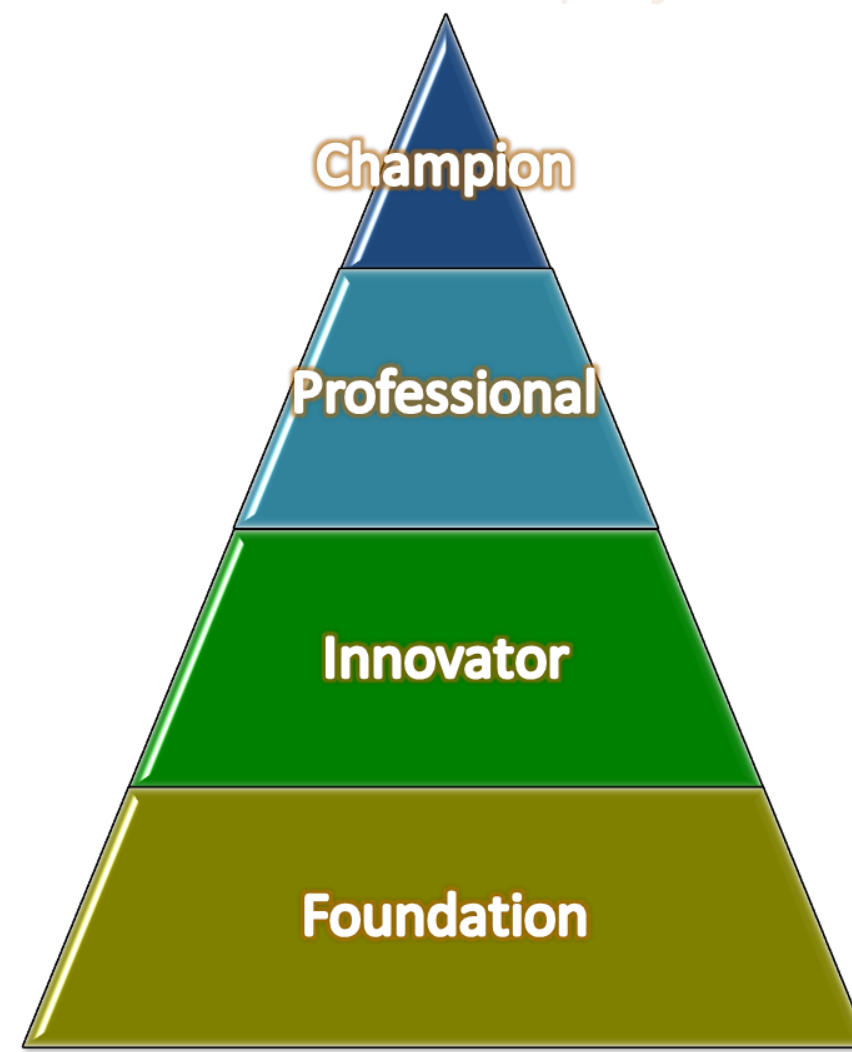


Fig.1 (EPIC Learning Pyramid)

2 Problem Worth Solving

The number of teams attending each review session was low (baseline median of 4 teams per session) as each review session was dedicated to participants of assigned wave. The low attendance resulted in potential learning opportunities loss for participants.

The number of learning opportunities per session could be represented using n^2 , where n refers to the number of teams that had attended each review session (Fig.2).

Furthermore, resources of the Faculty and IQM Training's Team were under utilised when sessions end much earlier than intended.

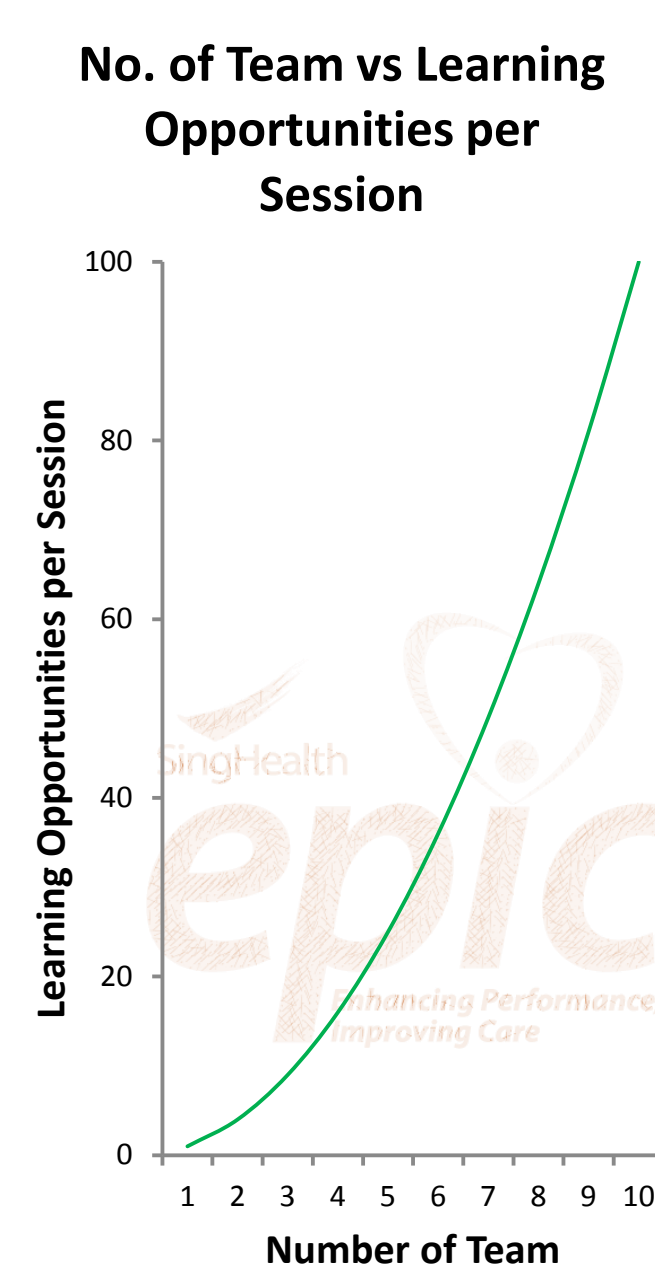


Fig.2 (Learning Opportunities)

3 Methodology

The Team applied the "Plan", "Do", "Study", "Act" PDSA improvement methodology to test the changes, review the effectiveness of the changes made as well as problems encountered and continually seek improvement through a series of rapid PDSA testing.

PDSA 1 - The objective was to have as many teams presenting as possible, maximising the learning. Details are shown in Fig.3.

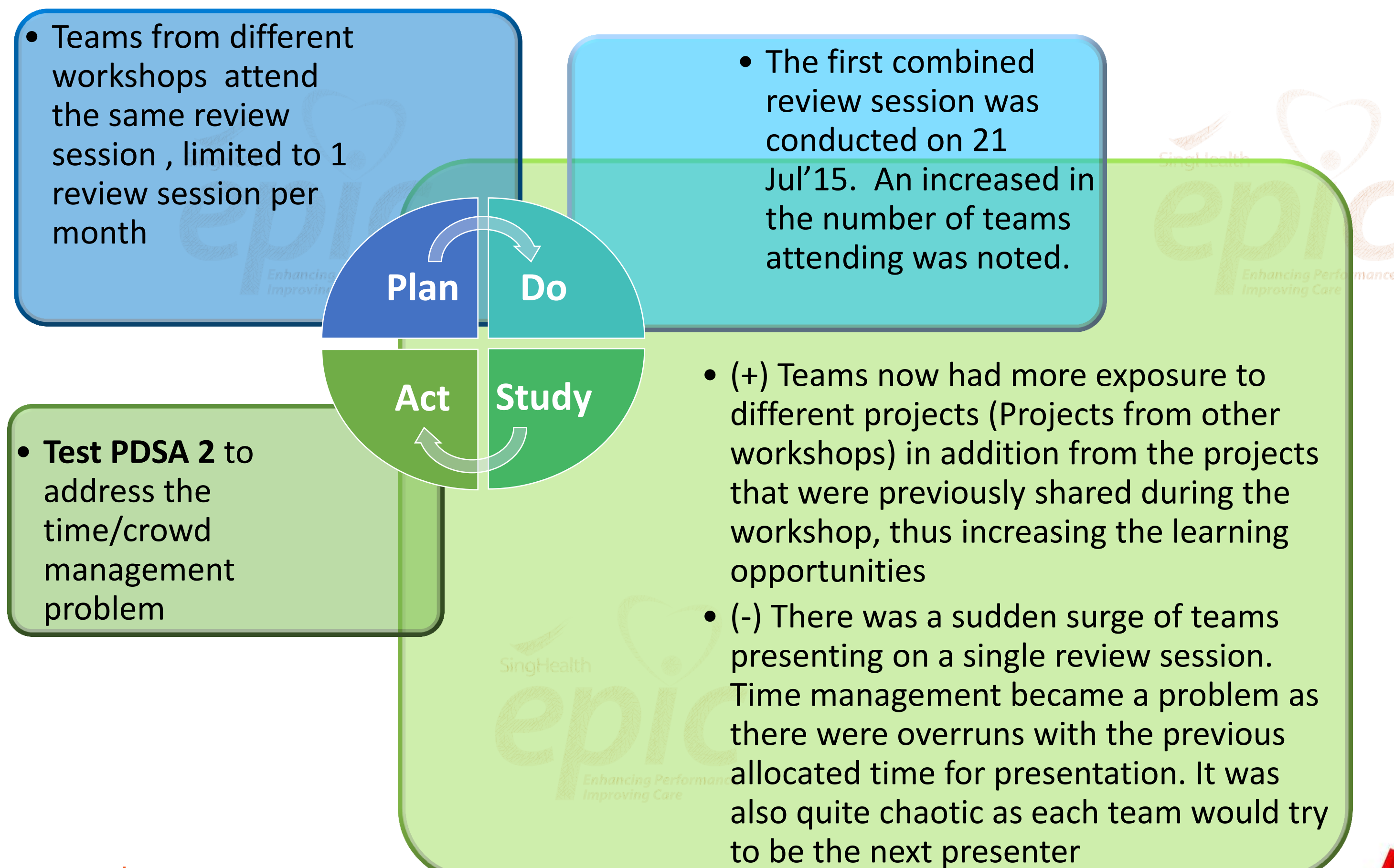


Fig.3 (PDSA 1)

PDSA 2 - Learning from PDSA 1, the next objective was to improve time management at the review session and projection on attendance. This was to ensure that the quality of learning was not compromised. Details are shown in Fig. 4.

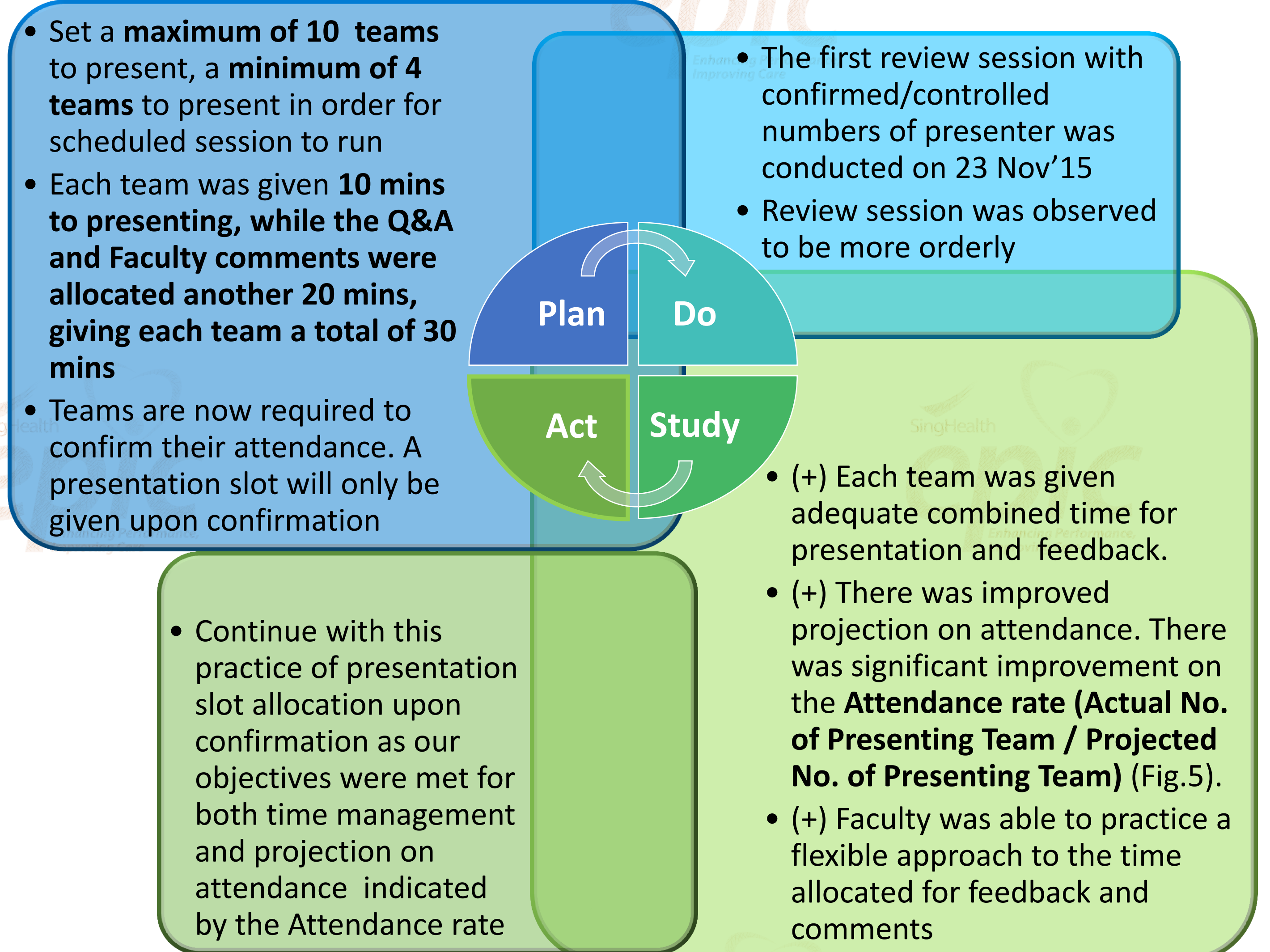


Fig.4 (PDSA 2)

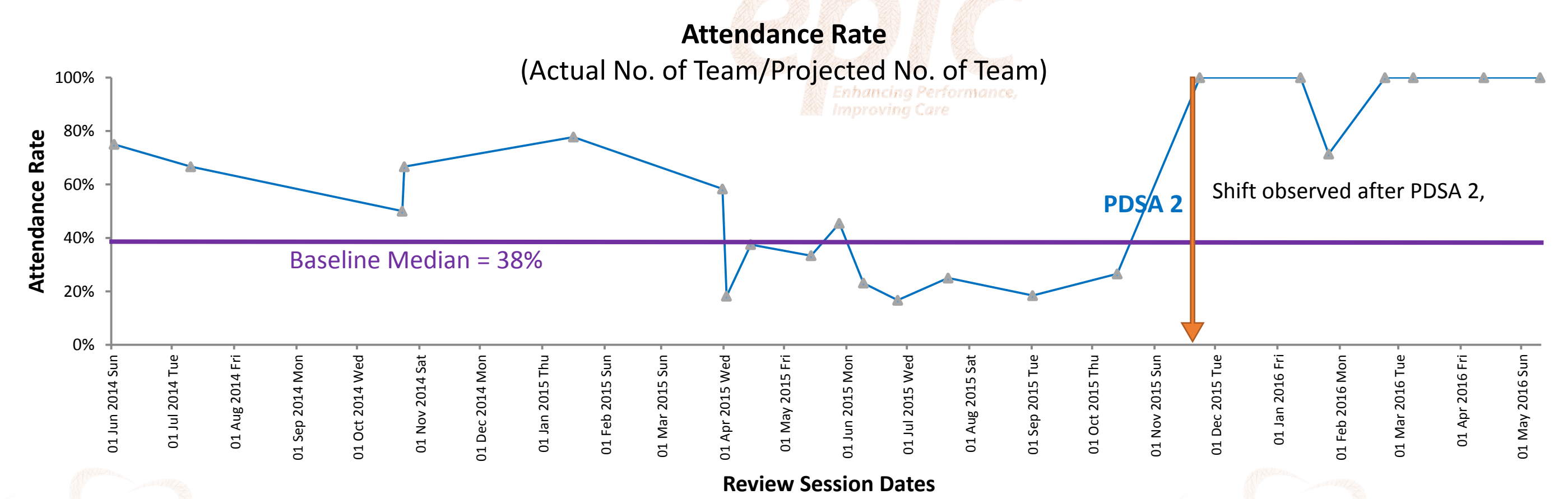


Fig.5 (Attendance Rate)

4 Results

The number of project teams attending the review sessions have increased following the introduction of 2 PDSAs. Fig.6 shows the number of attending teams for each review session. From the baseline median of 4, a shift was observed, the current median is 7. Mean Learning Opportunities per session have increased from 22 to 47.9. This is an increased of more than 100%.

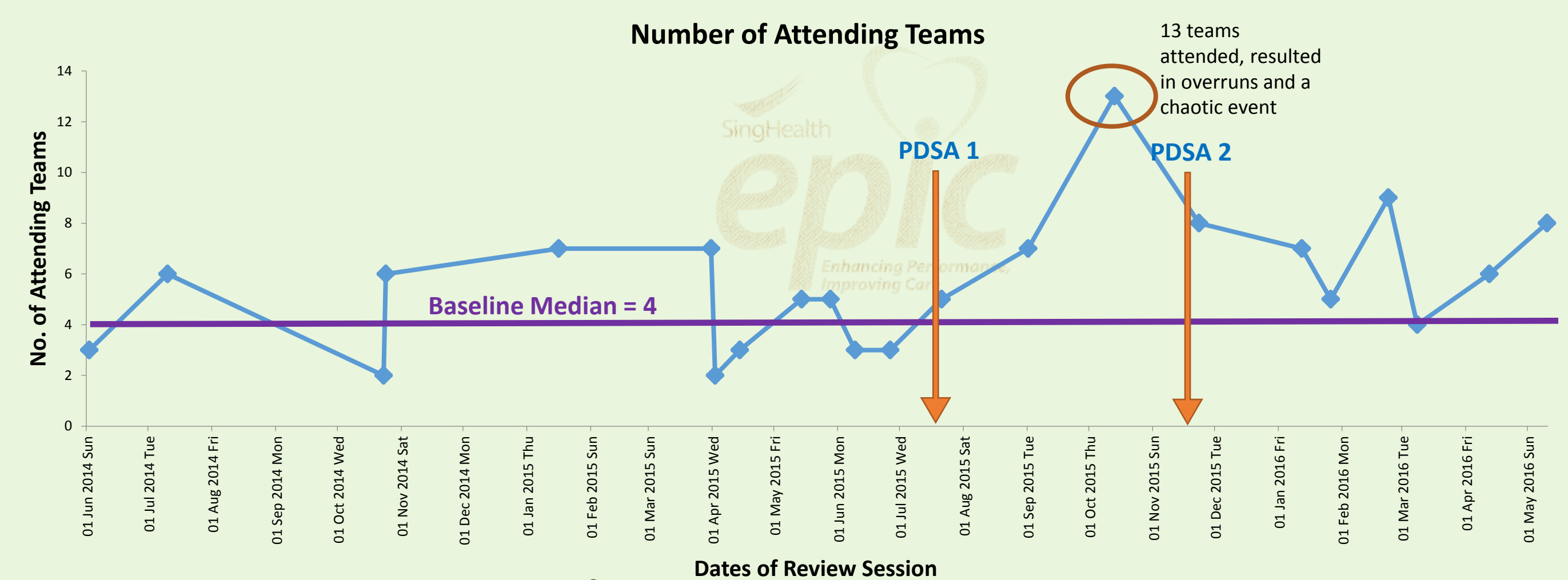


Fig.6 (No. of Attending Teams)

5 Conclusion

The team succeeded in increasing the number of teams attending the review sessions, exponentially increasing the learning opportunities. The quality of learning was not compromised, as adequate time was allocated. Operationally, the team halved the resources utilised such as Faculty time and support logistics, through the consolidation of review sessions. Overall there was productivity gained.

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