

Optimizing Teamwork to Reduce STEMI Door to Balloon Time

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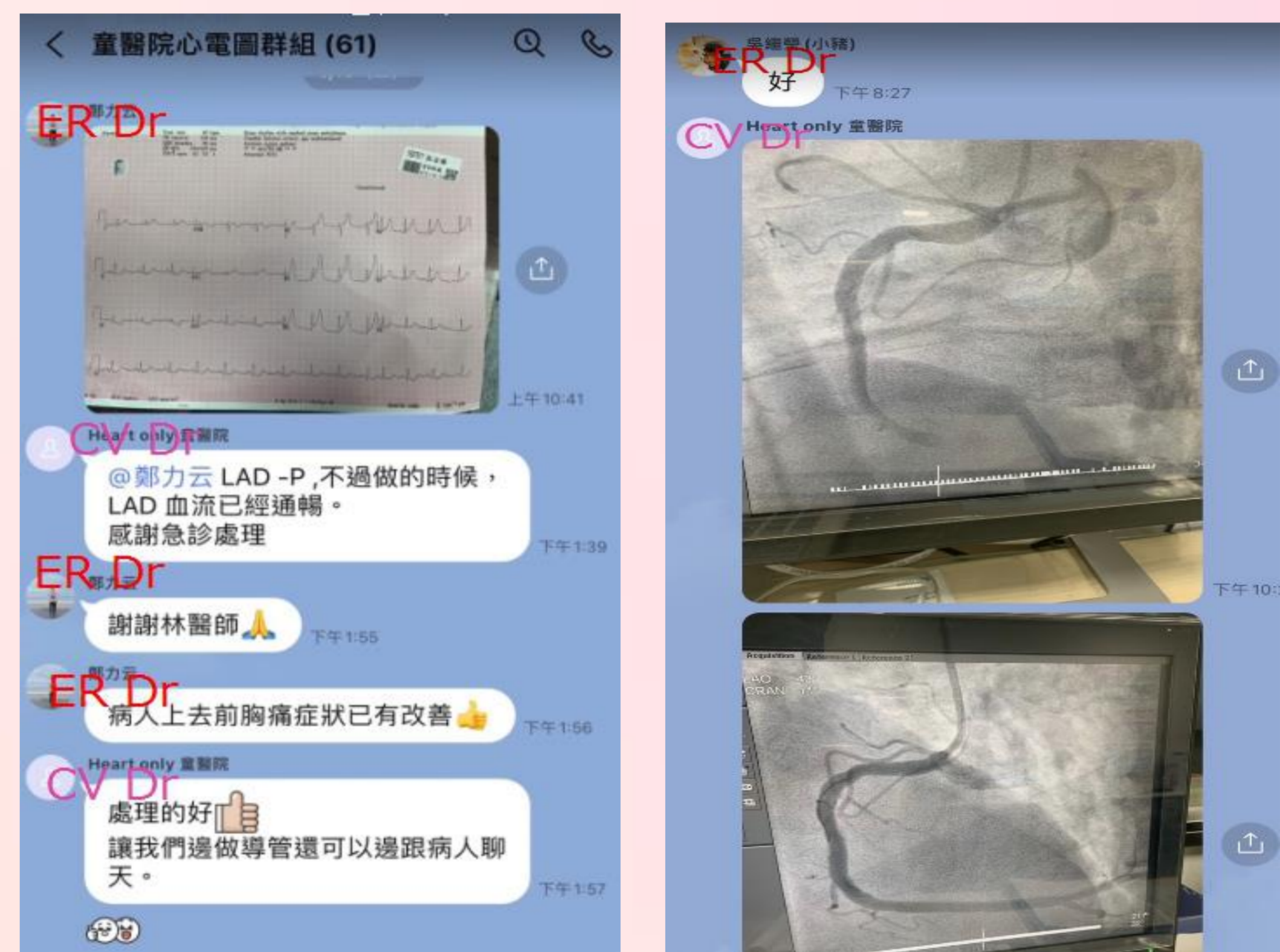
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Background

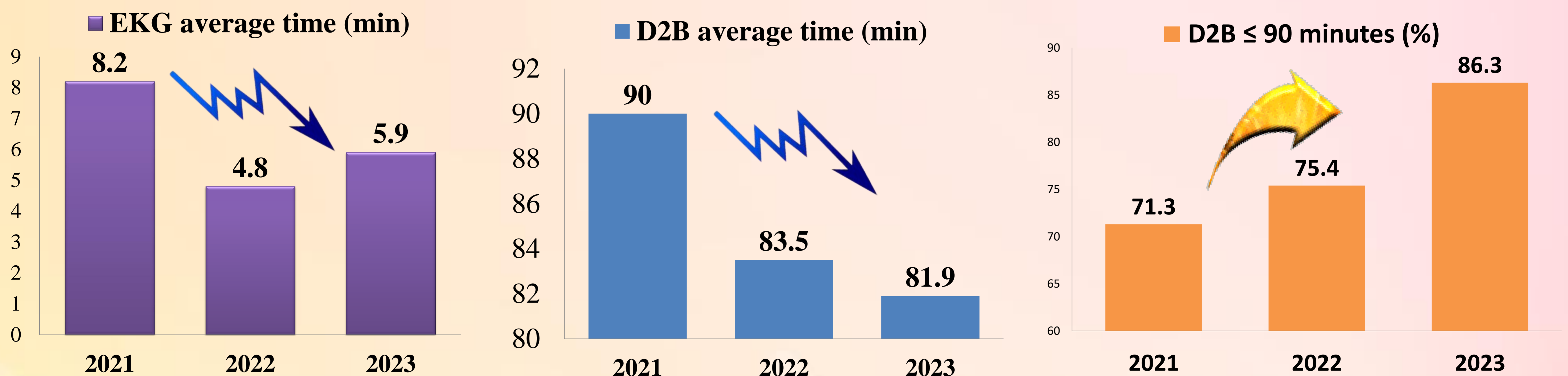
The guideline suggests that a Door to Balloon Time (D2B) < 90 minutes for STEMI patients can reduce myocardial ischemia and mortality rates. Our hospital's achievement rates in 2021 Q1 (66.7%) and Q2 (73.1%) both fell below the benchmark of 75%. Analysis indicates delayed notification from the emergency department to the cardiology team as the primary cause, with completion and interpretation time of EKG being critical. Therefore, the team's objective is to optimize communication between the emergency department and cardiology teams to enhance D2B effectiveness.

Methods

Through benchmark learning and interdisciplinary team discussions, we established an Emergency Department and Cardiology LINE group on July 27, 2021, to facilitate real-time EKG interpretation and communication. The Cardiology Case Manager utilizes digitization to objectively analyze the D2B time at various stages. In the case of abnormal instances, information meetings are conducted to verify reasons, and the involved personnel fill out details. Additionally, proposals for review are presented at the monthly quality meetings.



Results



Conclusions

"Time is muscle" affects the degree of heart injury every second. Through team LINE group communication, not only real-time EKG interpretation improves D2B effectiveness, but also serves as a platform for teaching and feedback between doctors from different specialties, allowing patients to gain Safer, more timely and more accurate medical care also enhances the emotional and tacit understanding among the team.

Keywords ST elevation myocardial infarction(STEMI), Door to balloon time(D2B), Teamwork, LINE

Poster Session P3.2: "Promoting healthy behaviour and empowerment"