



Promoting Patient's Comfort and Cooperation During Fluoroscopy-guided Invasive Cardiac Procedures

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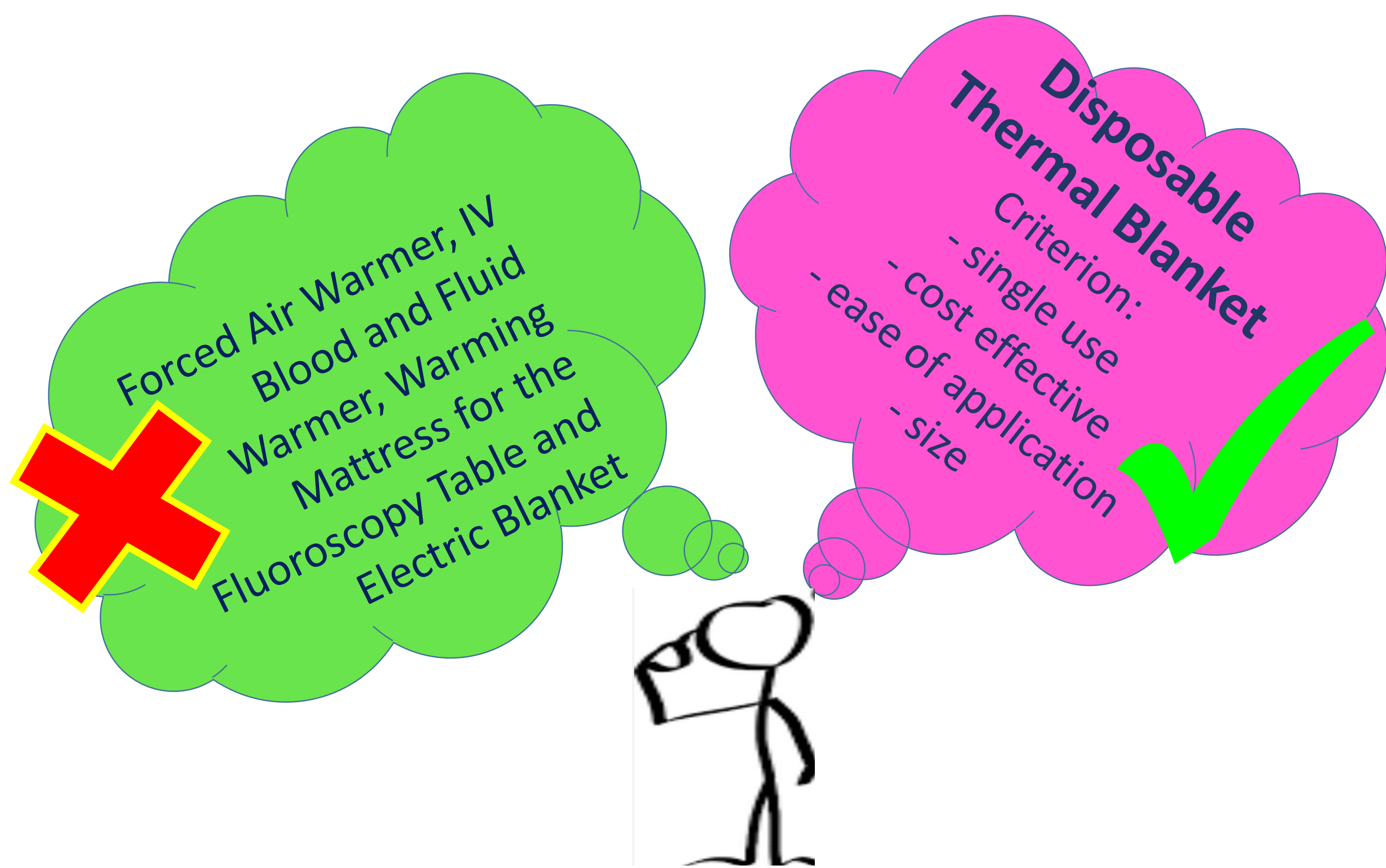
Introduction

Patients undergoing fluoroscopy-guided invasive cardiac procedures in Cardiac Catheterisation Laboratory (CCL) tend to experience shivering due to the cold environment despite being covered with warm towels. This may lead to uncooperativeness during fluoroscopy-guided invasive cardiac procedures. ECG artifacts will also occur when patients get restless and shiver. Increase in linen consumption taxes on hospital's resources.

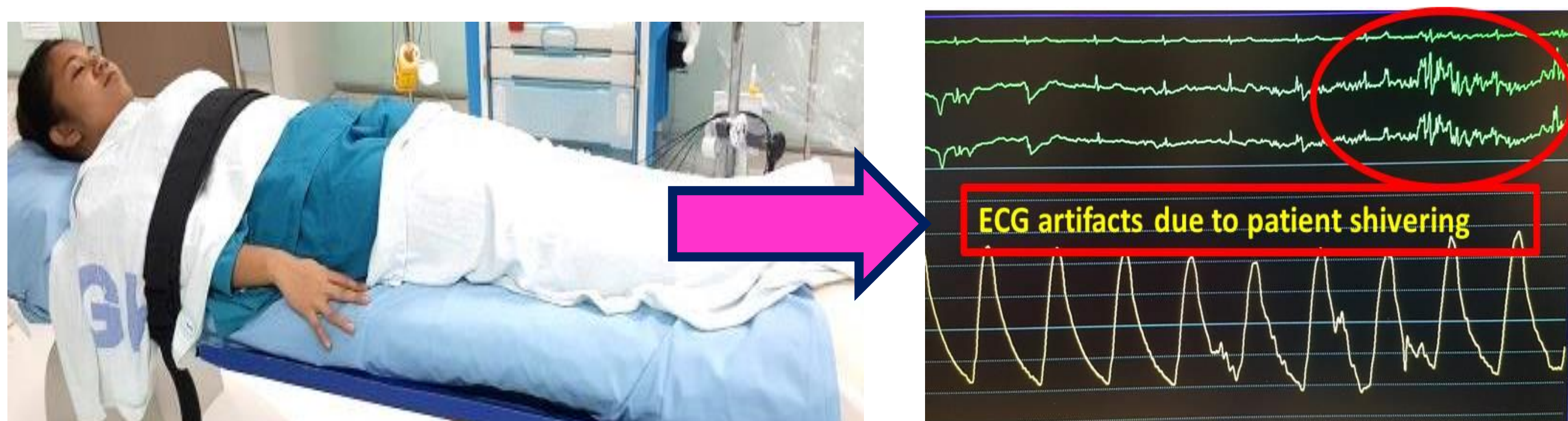
Aim

The project aim is to ensure that patient undergoing fluoroscopy-guided invasive cardiac procedures in CCL will maintain optimal body temperature, thus reducing ECG artifacts and increasing cooperation from patients.

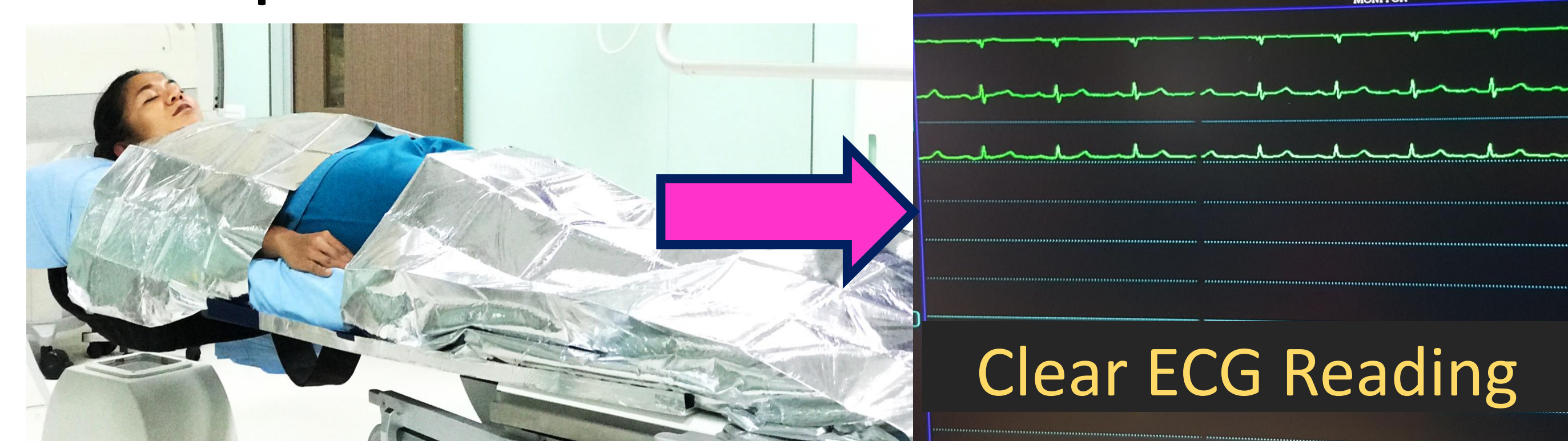
METHODOLOGY



Team sought help from SCM to bring in samples with specific stipulations for trial. Four companies responded to the invitation.



Pervious practice: Patients are covered with warm towels only

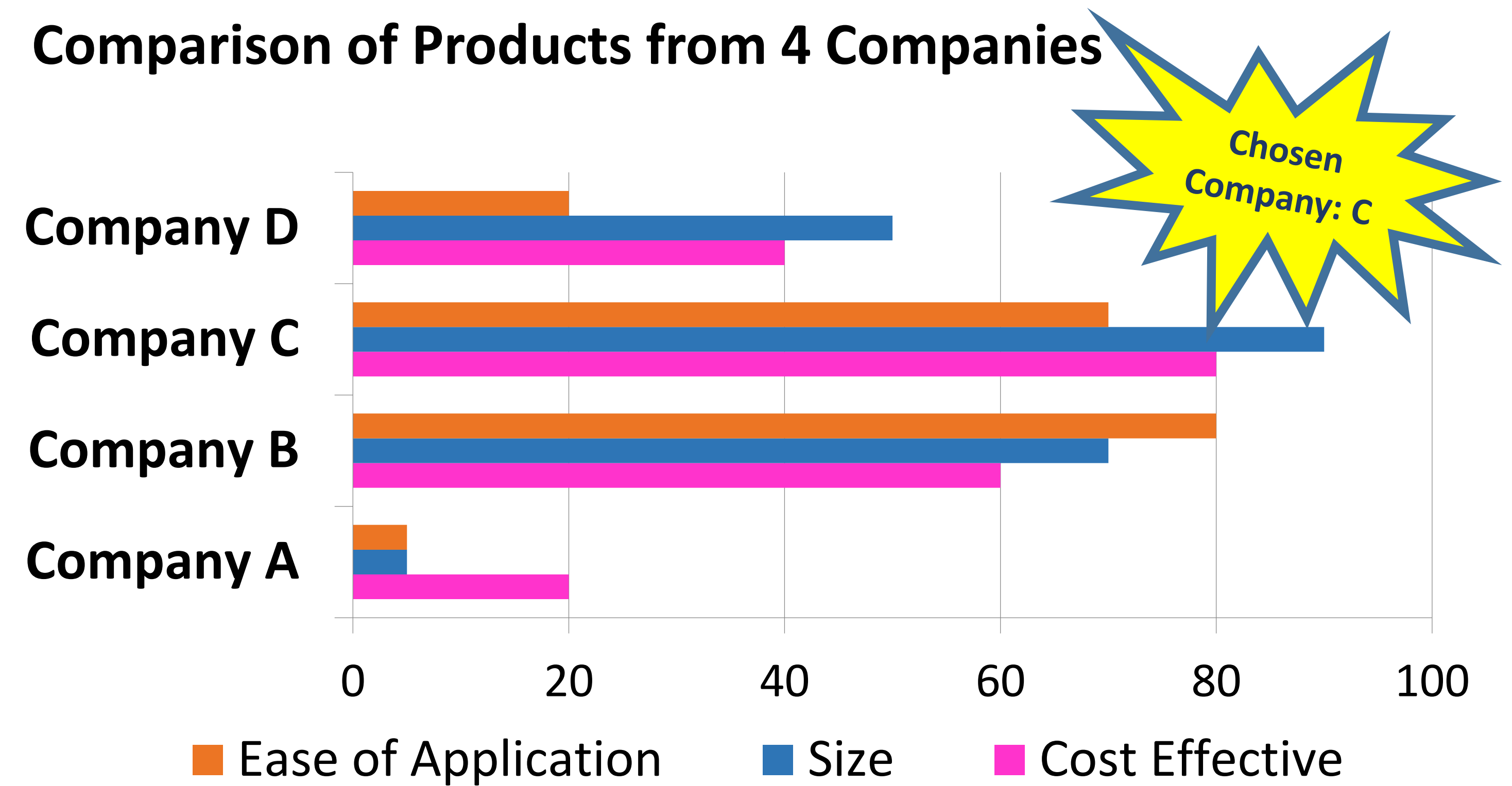


Improved practice: Patients are covered with single use heat-reflecting blanket.

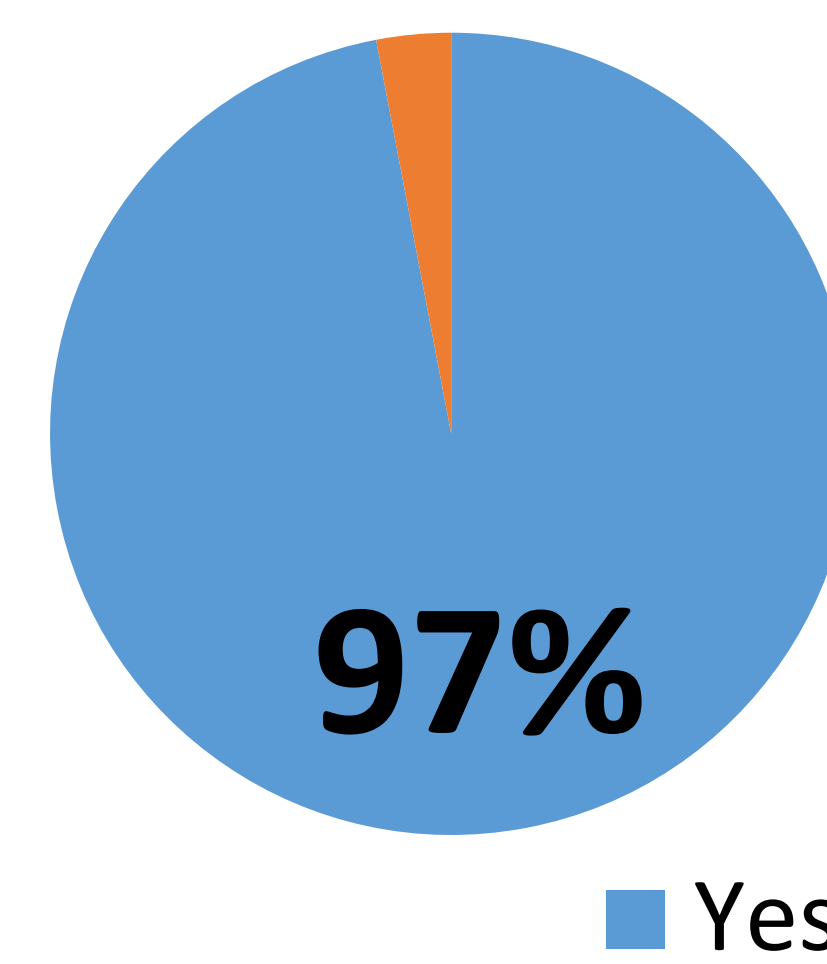
Results

The single use heat-reflecting blanket was introduced in CCL in June 2016. Samples that were forwarded by the four companies were analysed and used on patients during procedures. Feedbacks on satisfaction levels were gathered from both patients and staffs. Selection of the most optimal heat-reflecting blanket was done in accordance to the criterion set.

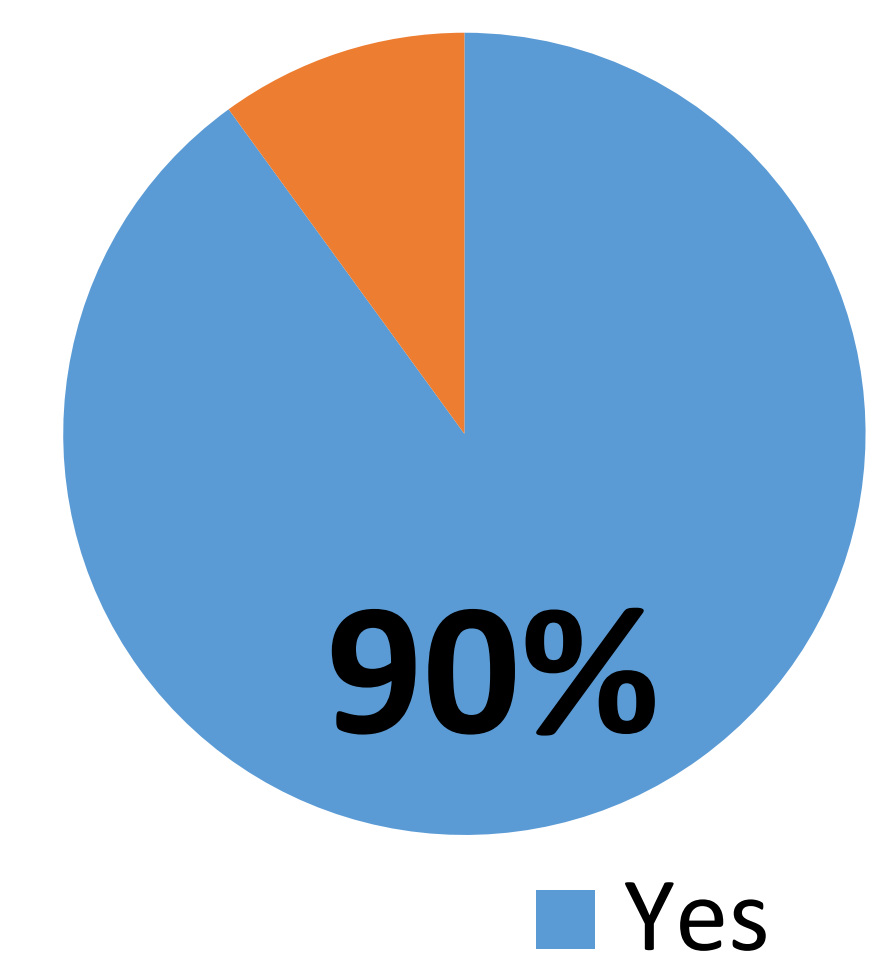
Comparison of Products from 4 Companies



Staffs' Satisfaction Level



Patients' Satisfaction Level



CONCLUSION

With the introduction and application of single use heat-reflecting blanket during fluoroscopy-guided invasive cardiac procedures, ECG artifacts during procedures have been significantly reduced. The utilization of this product has also heightened patient's comfort and cooperation. Cardiologists are pleased with the initiatives as they are able to view the precise patient's heart rhythms and render treatment orders promptly.

Looking at the favourable reception of this product, it can be used in other cold environments in the hospital to promote patient's comfort during their stay in Changi General Hospital. Other inpatient wards and departments have approached the lab for the heat-reflecting blankets to keep the hypothermia patients warm.