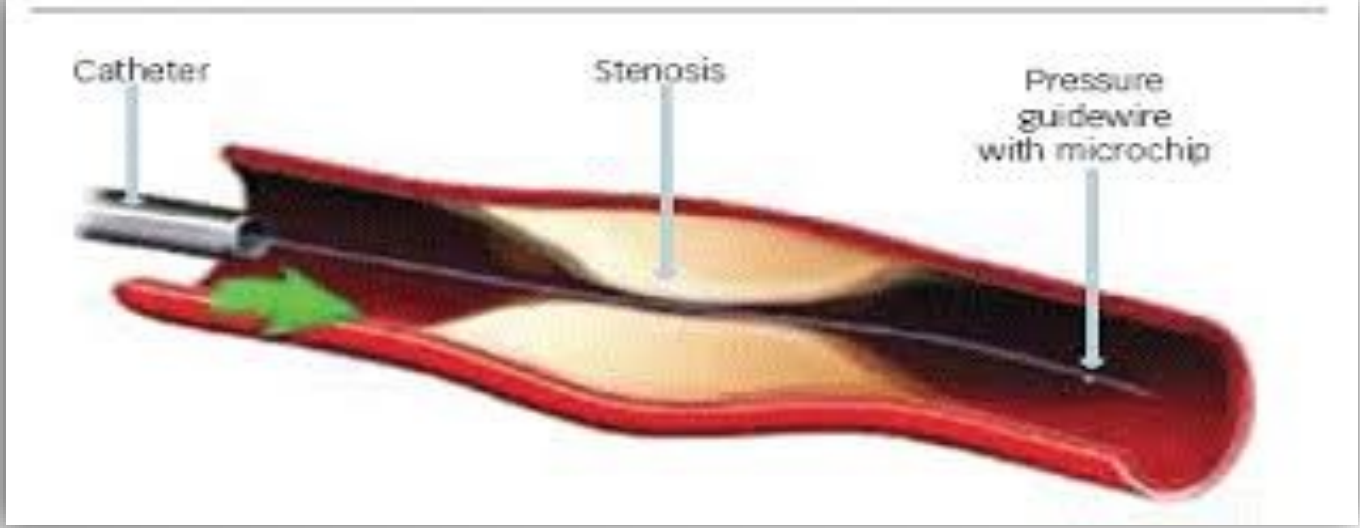




Clinical audit on Functional Flow Reserve in Wockhardt Heart

Introduction

Fractional flow reserve (FFR) is used to determine the functional significance of a coronary stenosis. A trans-lesional functional assessment is an important adjunct to coronary angiography for providing an objective evaluation of stenosis severity. Clinical audit is a quality improvement process that seeks to improve patient care and outcomes through systematic review of care against explicit criteria and the implementation of change.

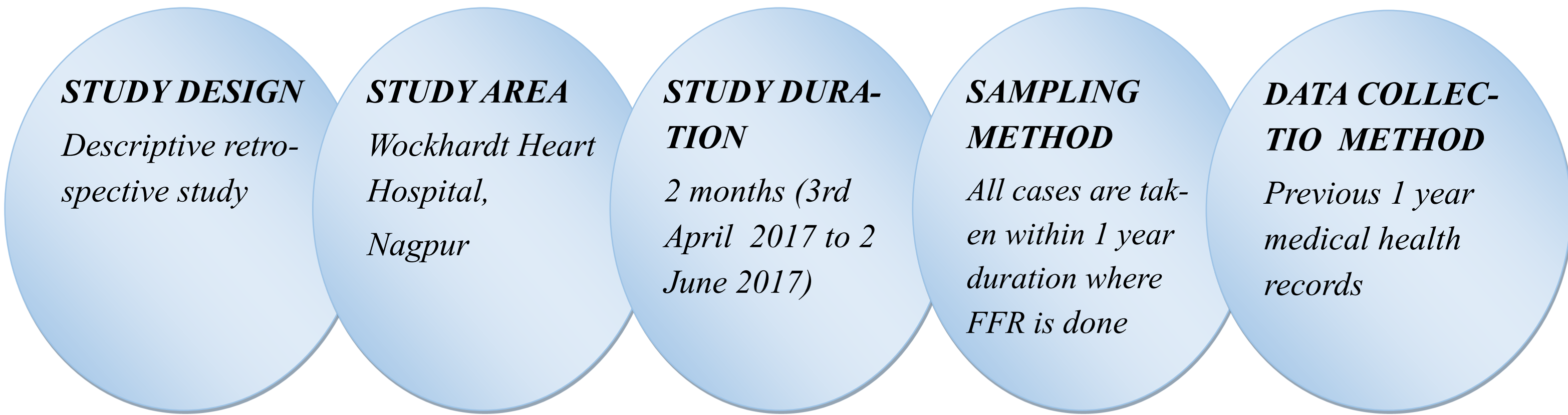
Aim

To assess whether the clinical implication of FFR in management of coronary artery disease is in line with evidence based practice

Objective

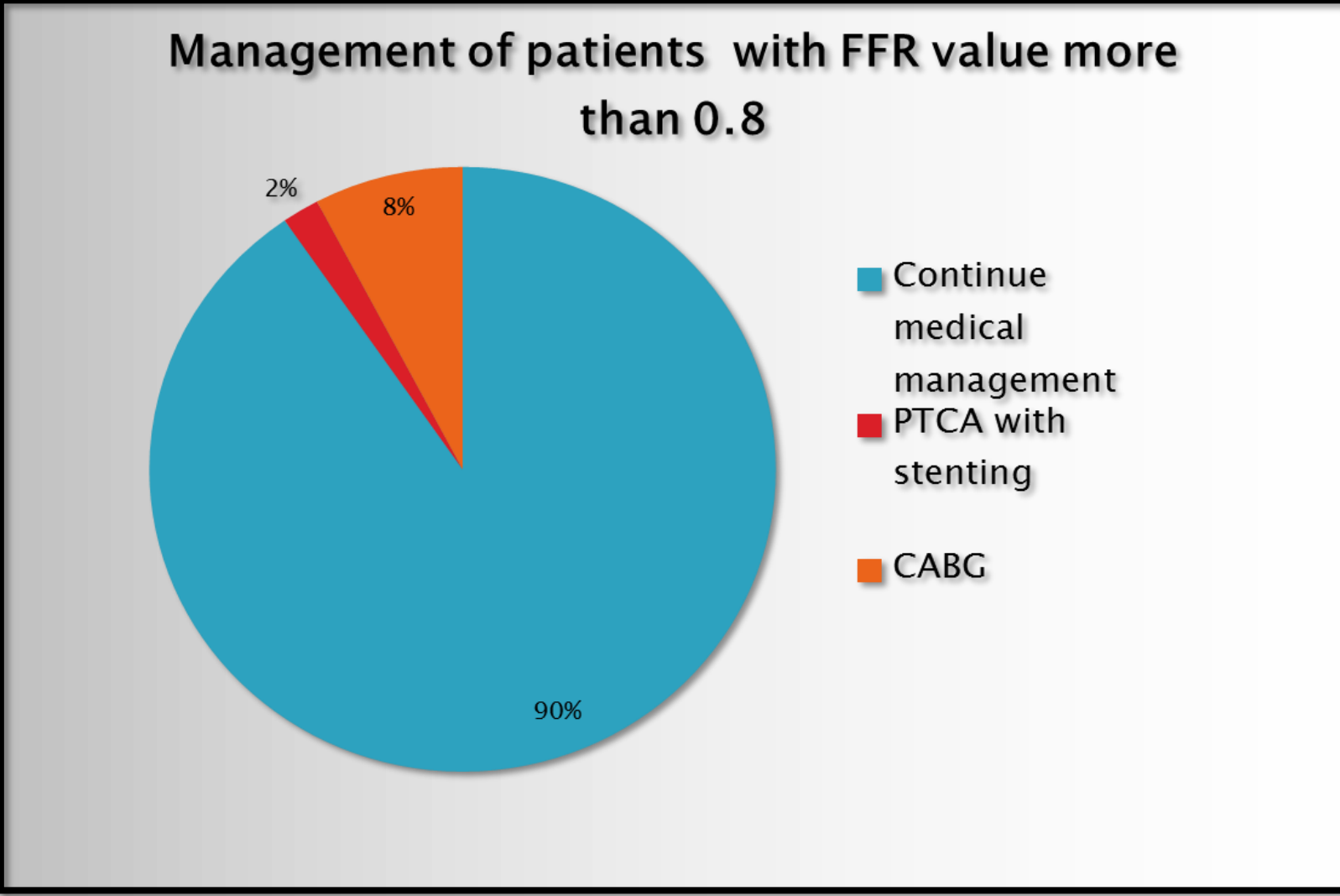
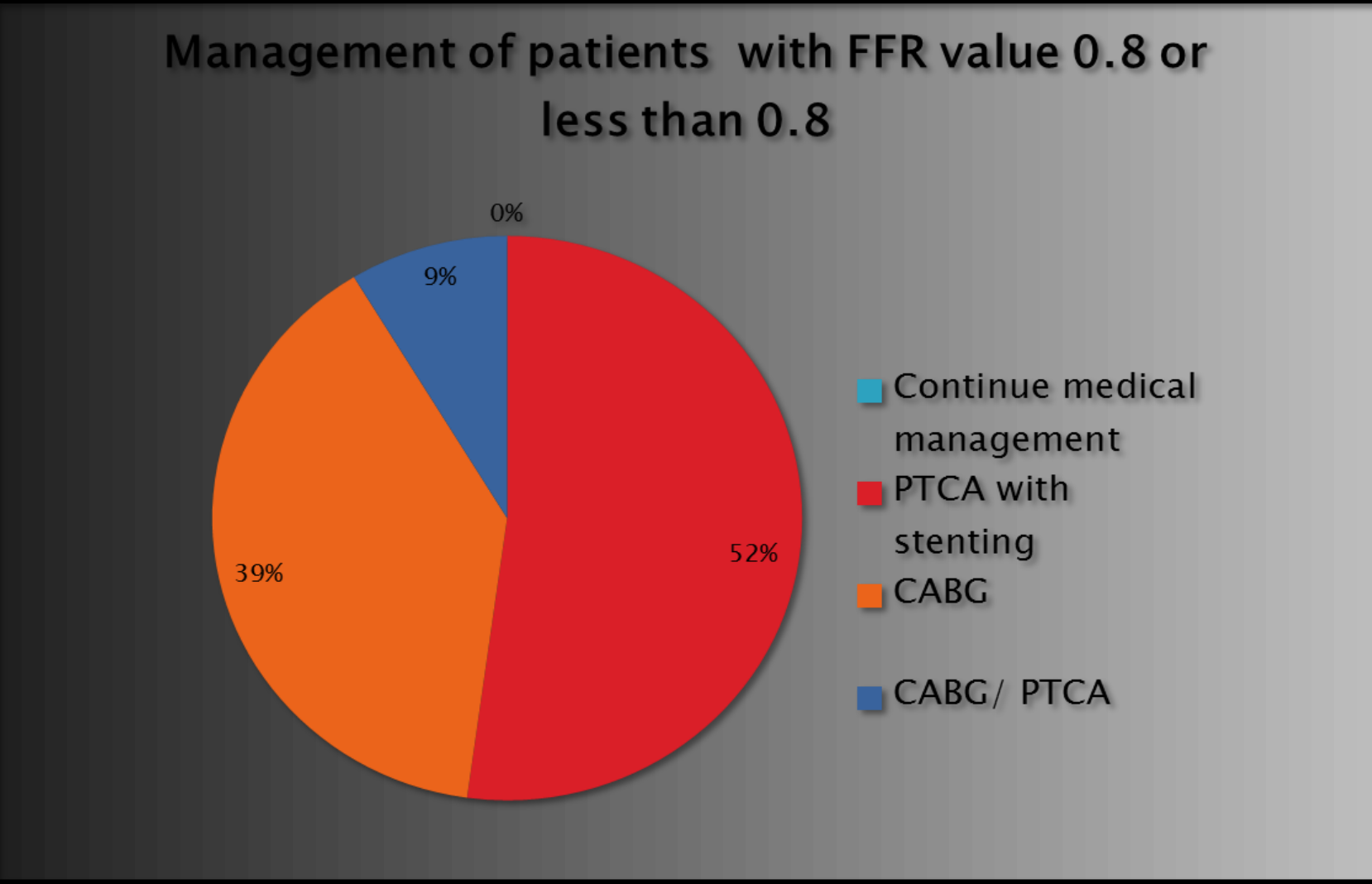
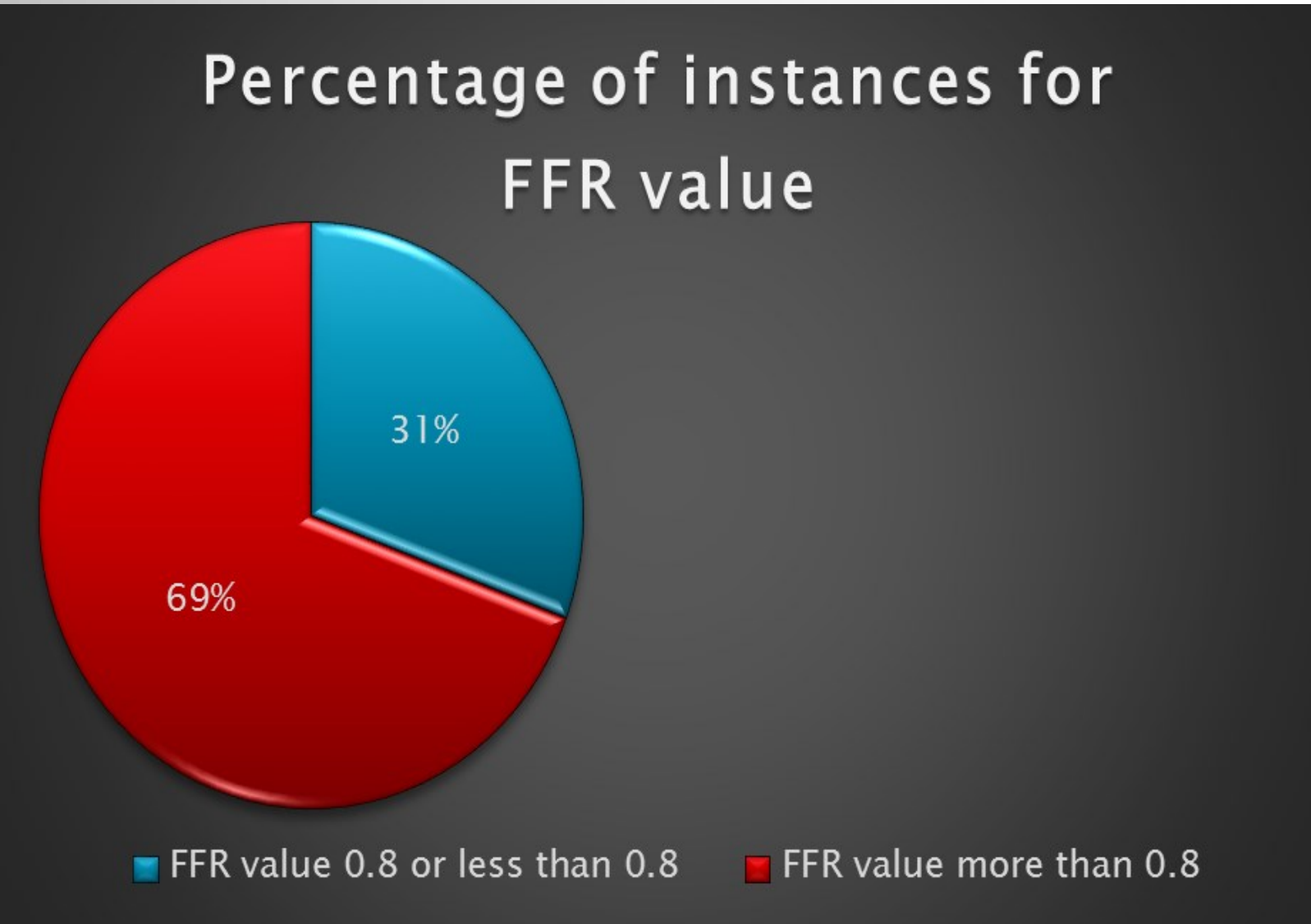
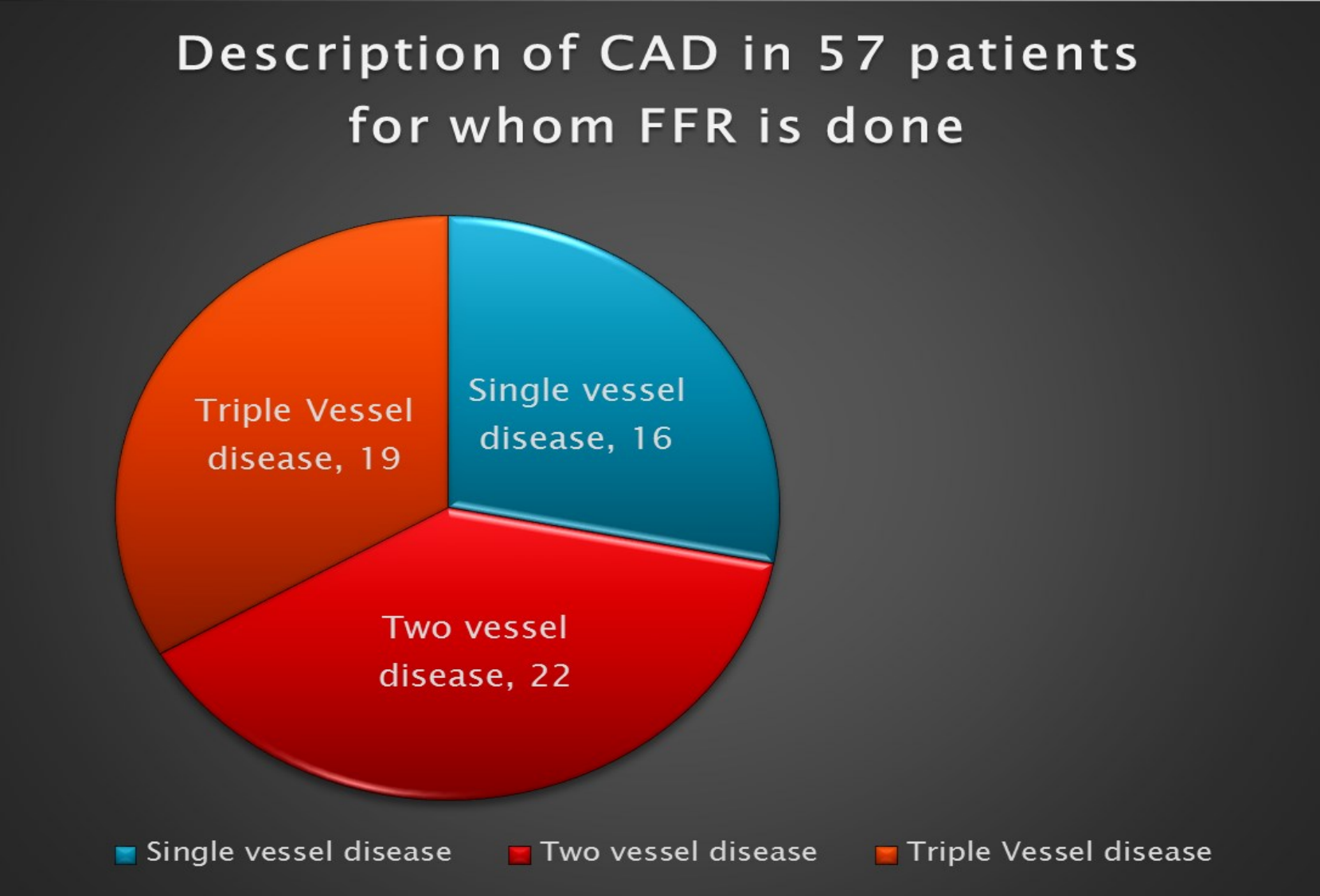
- To collect and analyze data for FFR studies
- To identify gap between actual application of FFR against explicit standards
- To ensure consistent approach to provide evidence based practice
- To give evidence based assurance that clinically efficient practice is carried out within service

Methodology



Sample size: - 75 FFR studies done in 57 patients in with in duration (1 April 2016 to 30

Analysis



Finding

- In all cases where FFR value was less than or equal to 0.8, patients were advised revascularization by either PCI or CABG.
- In 90% of cases where FFR value was more than 0.8, patients were advised to continue medical management.
- In 10% cases where FFR value was more than 0.8, but patient were advised PCI or CABG due to following reasons 1) Diffuse lesions 2) Multi vessel disease 3) Other reasons like unstable patient condition, etc.

Recommendations

- There is need for spread of awareness for application of FFR for management of coronary artery disease among community and among medical personnel to avoid unnecessary PCI or CABG.
- FFR adoption has cost benefits resulting from elimination of unnecessary treatments and reduction in readmissions .
- FFR requires adenosine which is expensive in IV form, iFR (instant wave free ratio) provide a good cost saving alternative. It does not need adenosine (a step that can be time consuming and costly). Also, adenosine can be contraindicated in some patient.

Presented by - Dr. Sumit M. Bilgaye (MBA HM21, Roll no—0507)

Call bell response time at Wockhardt Super specialty hospital, Nagpur

Introduction

A call bell system provides a primary means of communication between patient and staff (nursing, medical, paramedical staff). It has a button found around the hospital bed that allows patients in health care settings to alert a nurse or other health care staff member remotely of their needs for help. Call bell response time is the time it takes for assigned provider to physically address the patients need or request.

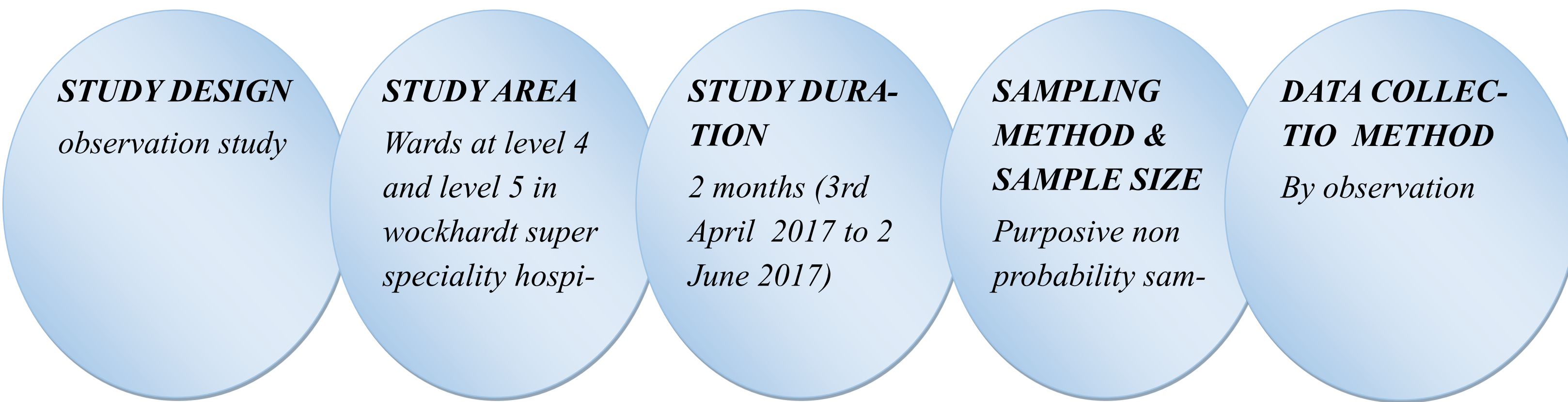
Aim

To find out call bell response time and common reason for which nursing call is made and reasons for delay in responding to call bell.

Objective

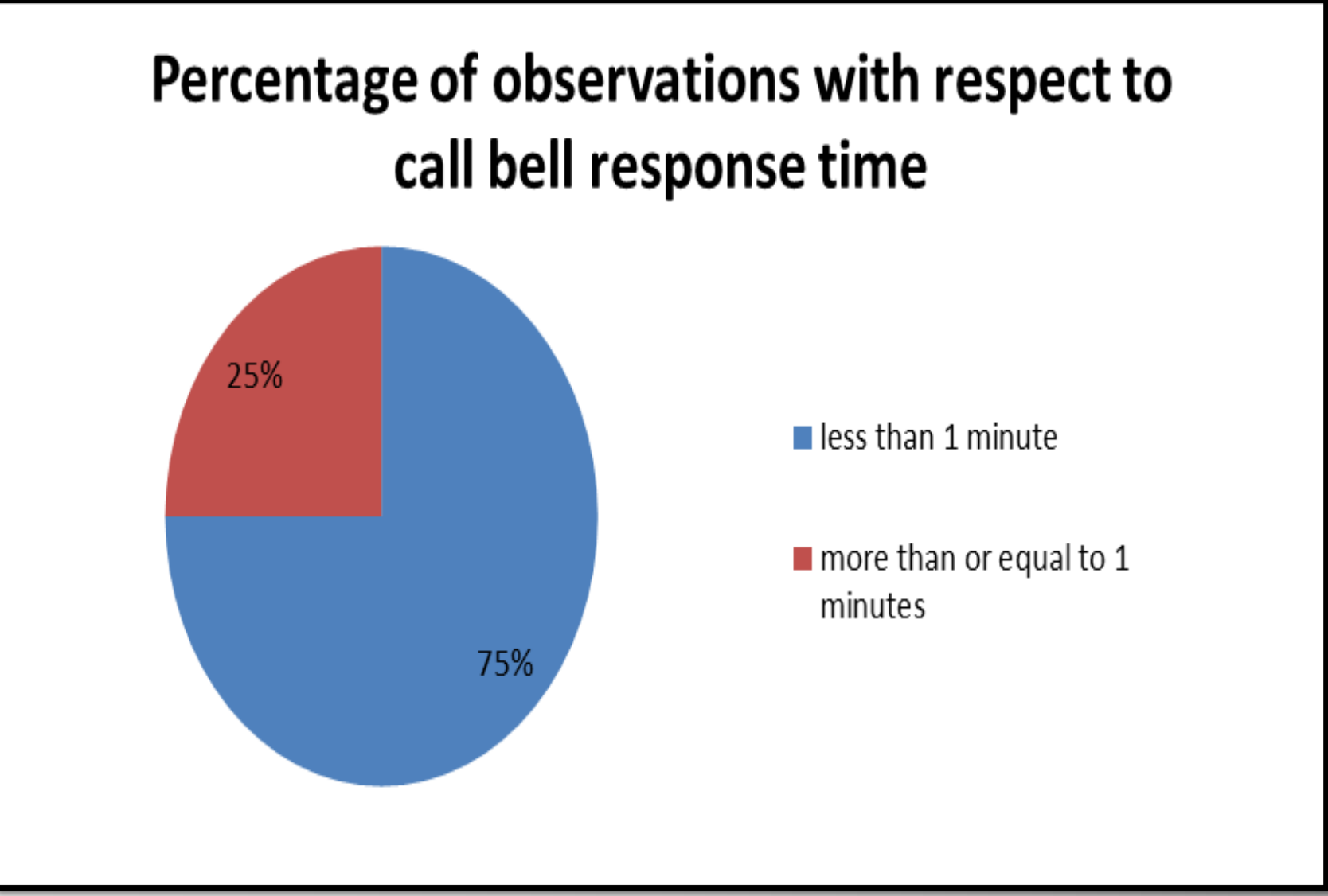
- To determine call bell response time in wards
- To identify common reason for call bell from patients
- To find out reasons for delay in call bell response

Methodology

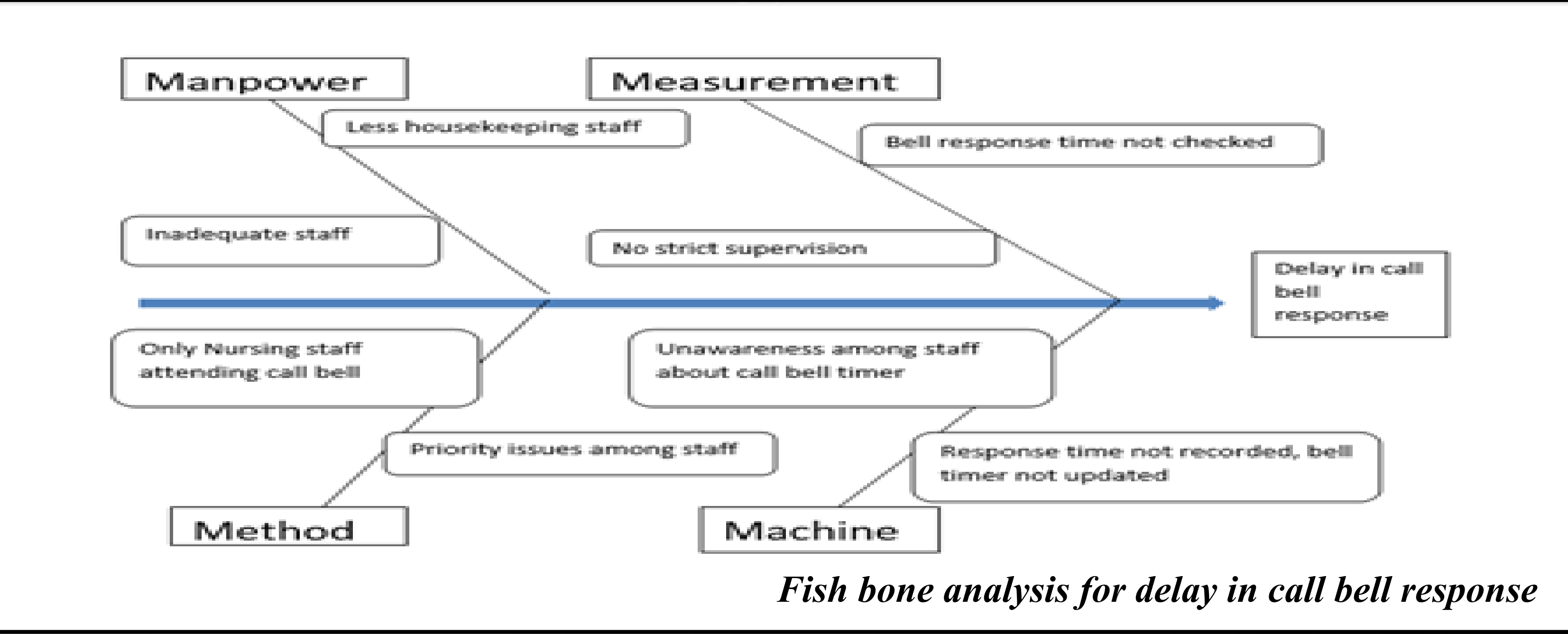


Sample size: - 200 observations are collected by observing 100 call bells in ward 5 and

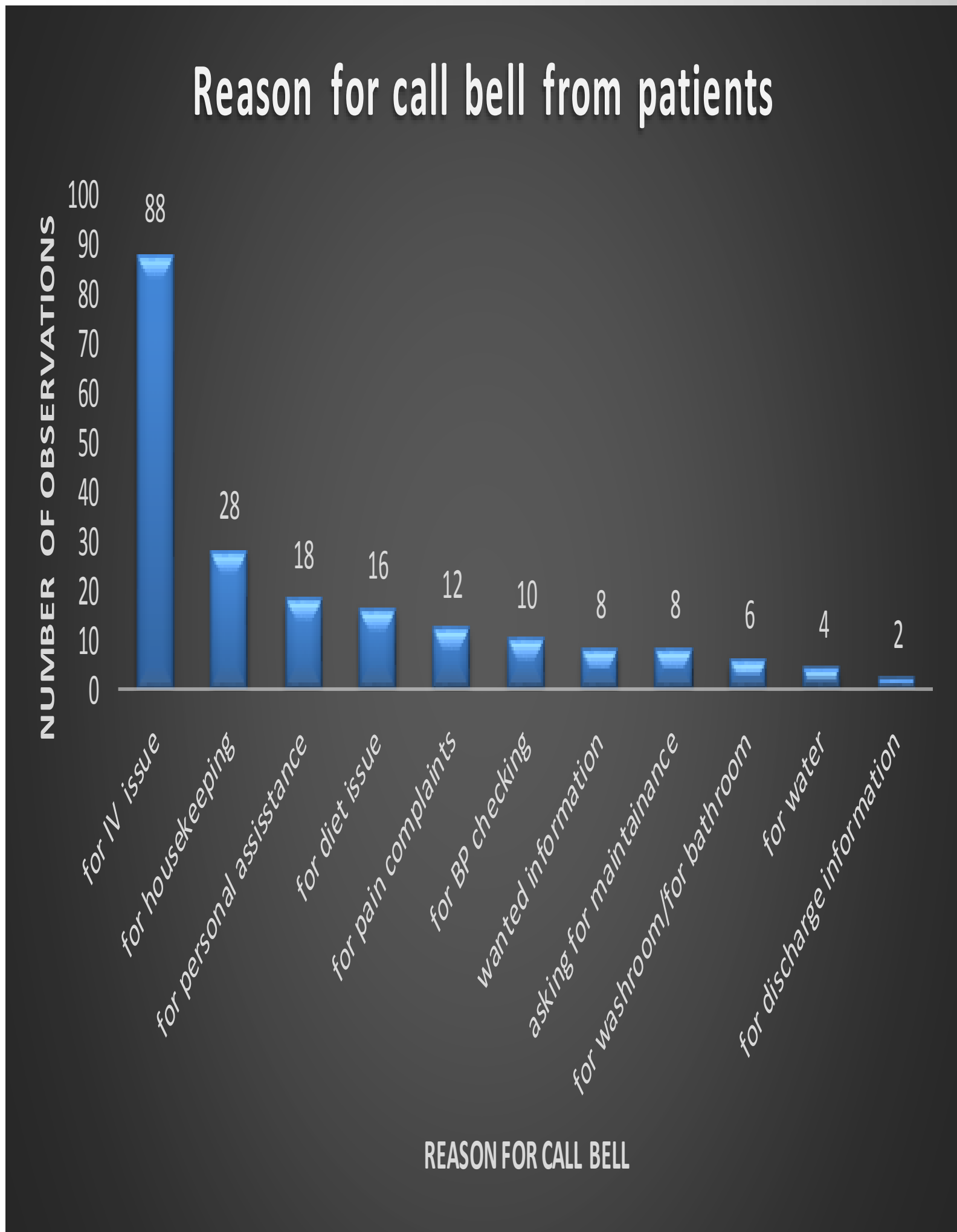
Analysis



Average call bell response time	50 sec
Maximum call bell response time	3:08 min
Minimum call bell response time	10 sec
No of observations less than 1 min	150
No of observations more than 50 or equal to 1 min	50



Fish bone analysis for delay in call bell response



Recommendations

- There is need to update standards/benchmarking on call bell response time.
- There should be strong leadership from nursing head to focus on the significance of prompt call bell response
- Responding promptly to call bell should be prioritize.
- Raising staff awareness to respond to call bell immediately need to be focused.
- Having round proactively to address patient need would help in dealing with this issue.
- There should be strict supervision over and recording of data on call bell response time. Regular progress reporting and evaluation of call bell need to done.
- Call bell system that have the tracking and reporting capabilities to document staff response time can be an option.