

# INTRODUCTION OF SKYLINER TO REDUCE HIGH RETAKE RATE OF THE KNEE SKYLINE X-RAY: A PILOT STUDY

















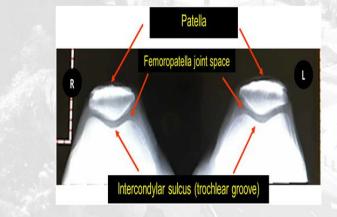
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## 1. BACKGROUND OF PROJECT

**SKYLINE VIEW** 

### · One of the common request for extremities in General Radiography is knee X-Ray, which constitutes 13% of the medical imaging requests in year 2021.

- Skyline view (also known as Tangential / Axial / Sunrise View) is a common request of the knee X-Ray projection to visualize patella, femoropatellar joint and intercondylar sulcus.
- However, there were some challenges faced while performing the knee skyline view.



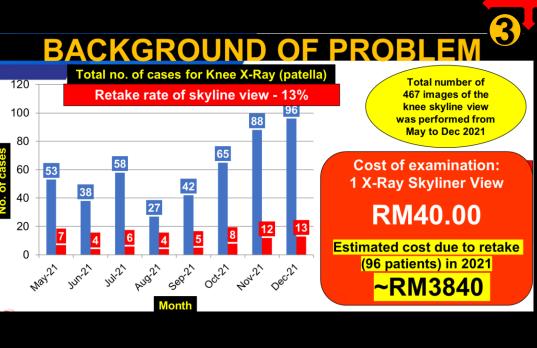


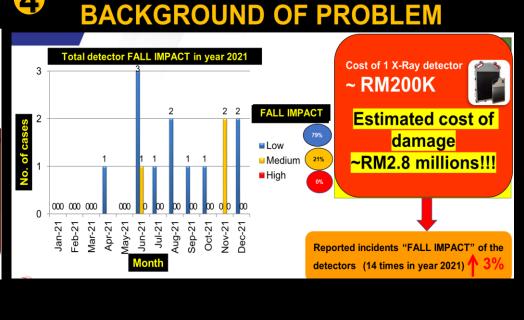


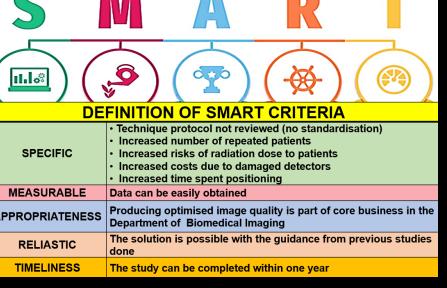
## 2. PROBLEM STATEMENT





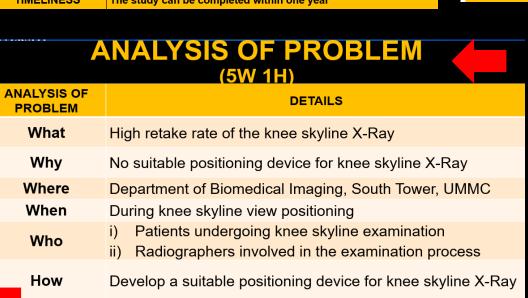






	NO	PROBLEM	Weightage According to "SMART" criteria					TOTAL	/4/4/
			Specific	Measurability	Appropriateness	Remediable	Timeliness		
	1	No standard method for knee skyline view	9	9	9	9	9	45	NO SUITABLE POSITIONING DEVICE FOR KNEE SKYLINE VIEW
	2	No suitable positioning device for knee skyline view	12	12	12	12	12	60	
	3	High risk of detector fall	10	10	10	10	10	50	
	4	Repetition of examination due to motion artefact	8	8	8	8	8	40	
	5	Poor image quality due to improper knee flexion	11	11	11	11	11	55	
		4 GROUP MEMBE	J						

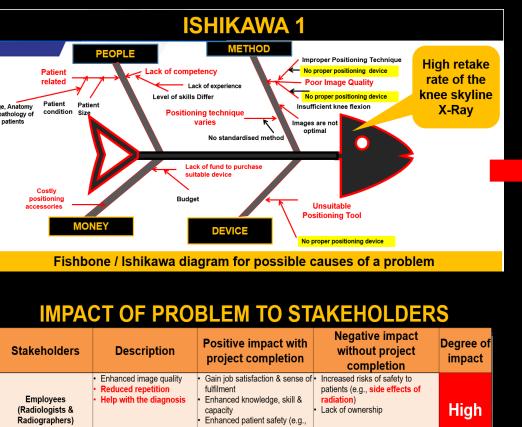
**SELECTED PROBLEM** 





**ISHIKAWA 2** 

#### 3. PROJECT TARGET



Individuals who are sick and • Increased patients & caregiver • Increases patients & caregivers

Increased side effects from

requesting diagnostic imaging to improve treatment

High

imaging examinations Limited options to clinician in

Bad reputation and image

Customer complaints

Customer compla

Reduced risks from imaging

examinations

Increased safety

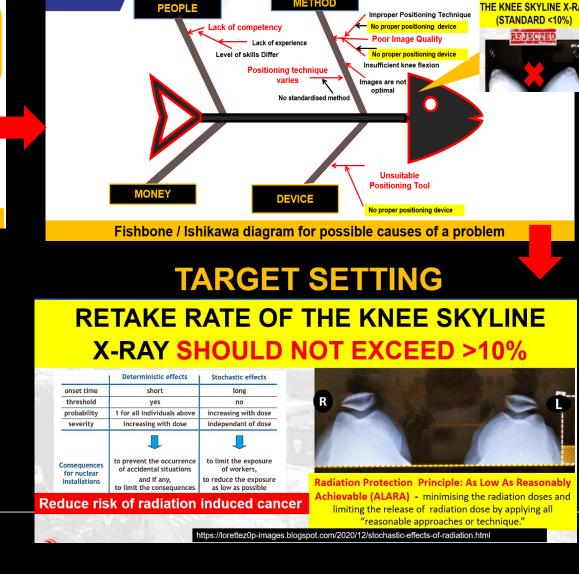
caregivers provide

Received diagnostic

imaging services t

coordinating to provide

organising society and



## 3. PROJECT TARGET - CONT'D



#### 4. IMPLEMENTATION



### 5. IMPACT OF PROJECT

From ZERO to HERO!!!

**KNEE SKYLINE X-RAY** 







