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REDUCE PERCENTAGE OF ADULT PATIENTS EXPERIENCING DENTAL ANXIETY DURING EXTRACTIONS AT KLINIK PERGIGIAN (KP) BAHAU

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Introduction

•Dental anxiety is often closely linked to painful stimuli and increased pain perception, thus these patients experience more pain that lasts longer; it may also exaggerate their memory of pain.

•Dental extraction is often cited in the literature as one of the causes of dental anxiety as it is closely linked to painful stimuli.

•This being the reason patients tend to prolong the need for treatment and may turn up in the dental clinic when the situation is more severe thus requiring a more exaggerated treatment approach.

•Klinik Pergigian Bahau is a primary care dental clinic located in Jempol District of Negeri Sembilan with a monthly 800- 1100 patients, approximately 300-350 dental extraction procedures are performed per dental officer in a month.

•34.7% of patient reporting to KP Bahau for toothache are associated with facial cellulitis due to delay in seeking treatment.

•Hence, managing dental anxiety among adult patients requiring dental extraction in Klinik Pergigian Bahau is important to ease the daily workflow.

1.0 Selection of Opportunities

SERIOUSNESS	A survey conducted revealed the percentage of patients experiencing dental anxiety during dental extraction was 54.4 %, (n=158). Hence, it was included in Pelan Tindakan KP Bahau to achieve <20 % of patients experiencing dental anxiety during dental extraction.
MEASURABLE	Data obtained from Modified Dental Anxiety Scale for Dental Extraction Procedure (MDAS – DEP)
APPROPRIATENESS	Dental extraction is a general dental procedure that is conducted in primary dental care facilities. However, patients' fear and anxiety towards this procedure have caused patient to delay treatment until the situation is more chronic
REMEDIABLE	Remedial action could be implemented to reduce dental anxiety among patient by improving the work process of delivering dental extraction
TIMELINESS	This study can be done with periodic evaluation of every 4 months

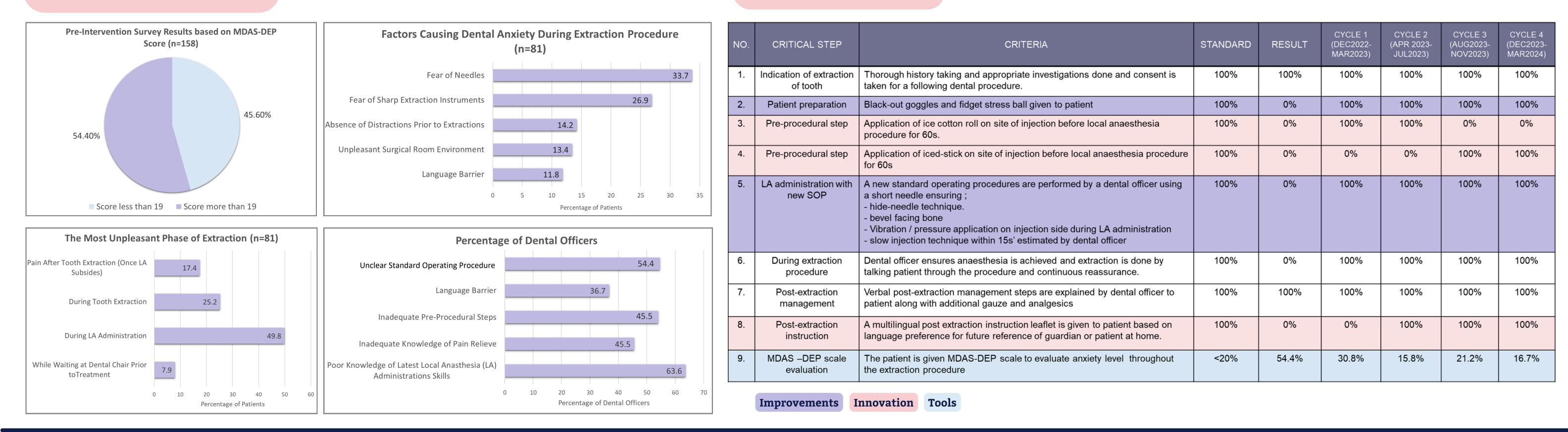
2.0 Key Measures of Improvement	Problem	n Statement	3.0 Pr	ocess of (Gatherin	g Informa	tion	
Cause Effect Analysis	PROBLEM	A verification survey was conducted in the month of August 2022 - November 2022 revealed that 54.4% patient were having dental anxiety during extraction procedure.	đ			Î		INCLUSION CRITERIA
Fear of needle Language barrier (11.8%)	POSSIBLE CAUSES	Multiple factors include different practices among officers, inadequate patient management and unconducive surgical room environment.	TYPE OF					All adults patients from age 18 and above who require
(33.7%) Fear of sharp instruments	EFFECTS	The delay in treatment can compromise total patient care.	STUDY	LOCATION	STUDY PERIOD	STUDY TOOLS	STUDY SAMPLE	extraction of teeth under local anaesthesia.
Unclear Standard Inadequate (26.9%)	AIM	To reduce percentage of patients experiencing dental anxiety during dental extraction procedure.	Cross-	KP Bahau	4 monthly	LP8 MDAS –DEP	Adult patient requiring	EXCLUSION CRITERIA
(54.4%) (45.5%) (45.5%) (at treatment	Objectiv		sectional Study	KP Banau	evaluation cycle		extraction of teeth	Patient who are not medically or mentally fit.
Poor knowledge of latest LA practices	Objectiv	ves						
administration skills (63.6%) among officers extraction at KP Bahau		General Objective	Study tools : Modified Dental Anxiety Scale For Dental Extraction Procedure (MDAS-DEP)					ital
Inadequate knowledge of pain relief	Reduce the percentage of patients experiencing anxiety during extraction in Klinik Pergigian Bahau							
pain relief (45.5%) Language barrier (36.7%) Unconducive surgical room environment		Specific Objective	Modified Dental Anxiety Scale for Dental Extraction Procedure (MDAS-DEP) 1 Not anxious Name : 2 Slightly anxious					
Unpleasant surgical room	To determine th		Age : Sex :				3	Fairly anxious
environment (13.4%)	of patients ex anxiety during		Can you tell us how anxic Please indicate by ticking		us how anxious you get, if at all, about a dental extraction/removal procedure? ate by ticking $()$ the appropriate box.		4	Very anxious
	KP Ba		 If you were Not anx anxious 	told that one of your tee ious	eth had to be extracted, ho s	w would you feel? ery anxious □ Extremely	5	Extremely anxious
Indicators	Literatu	re Review	you feel?			ooth extracted, how would ery anxious	being anxi	DEP scores consist of not ious is equal to a score of 1,
NO OF PATIENTS WITH A SCORE OF MORE THAN 19 X 100 %		are often cited in the literature as one of the causes of dental anxiety that are mainly among adults who	how would	you feel?		ntal extraction procedure, ery anxious Extremely	and so on.	
NO OF PATIENTS INDICATED FOR EXTRACTION	reactions.	oms such as worry, avoidance, and muscle tension, which influence a person's emotional and physical (Appukuttan ,2016 ; Craske et.al.,2011)	4. If you were about to get a local anesthesia injection in your gum, how would you feel? □ Not anxious □ Slightly anxious □ Fairly anxious □ Very anxious □ Extremely from 5 to 25,					of all five questions can range 25, with 5 being not anxious ing extremely anxious.
Standards: <20%	•••	od dentist-patient relationship best explains the management of dental anxiety. A dentist should keep bout discomfort so that they would be able to identify their own working pace with their patient. (Appukuttan, 2016)	you feel?		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cal procedure, how would ery anxious Extremely		e of 19 or higher indicates a ious patient.

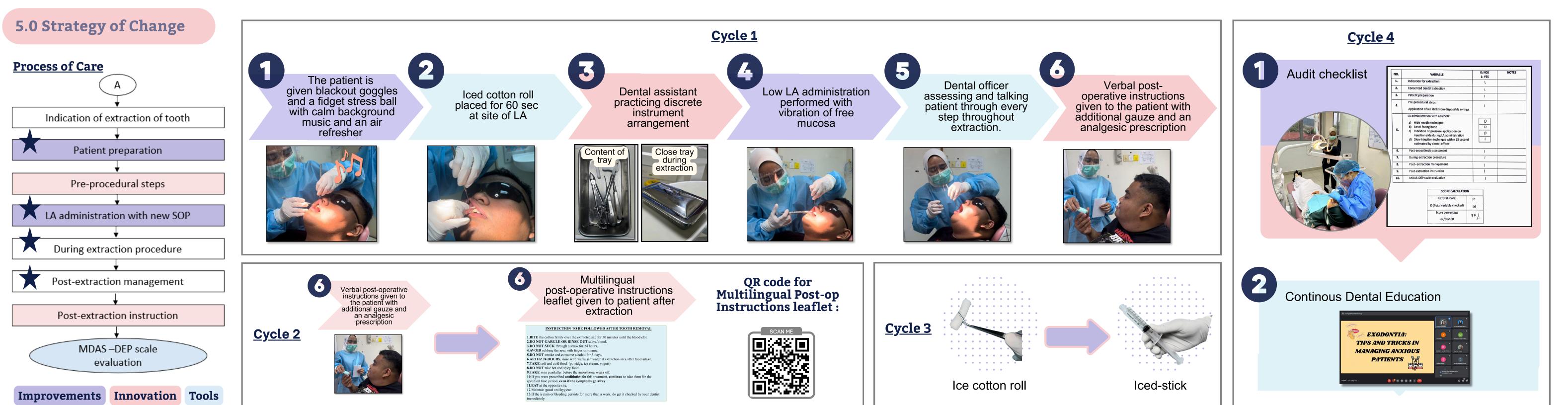
ROBLEM	A verification survey was conducted in the month of August 2022 - November 2022 revealed that 54.4% patient were having dental anxiety during extraction procedure.
OSSIBLE AUSES	Multiple factors include different practices among officers, inadequate patient management and unconducive surgical room environment.
FFECTS	The delay in treatment can compromise total patient care.
IM	To reduce percentage of patients experiencing dental anxiety during dental extraction procedure.

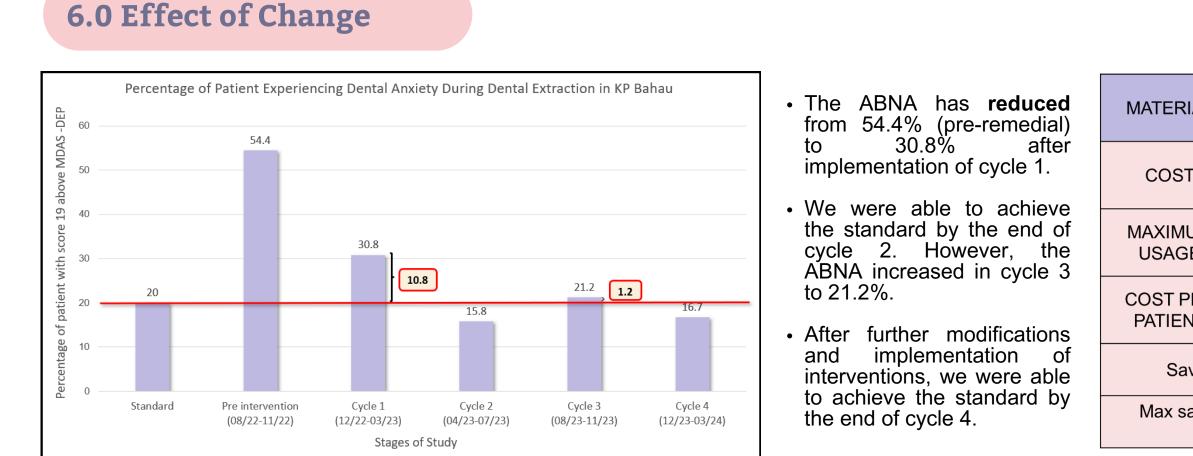
<u>Cause Effect Analysis</u>	PROBLEM		n survey was conducted in the n having dental anxiety during extra	nonth of August 2022 - Novembe ction procedure.	er 2022 revealed that 54.4%	æ					INCLUSION CRITERIA	
Fear of needle Language barrier (11.8%)	POSSIBLE CAUSESMultiple factors include different practices among officers, inadequate patient management and unconducive surgical room environment.								<u>(53</u>)	All adults patients from age 18 and above who require		
(33.7%) Fear of sharp instruments	EFFECTS		treatment can compromise total pa	atient care.		TYPE OF STUDY	LOCATION	STUDY PERIOD	STUDY TOOLS	STUDY SAMPLE	extraction of teeth under local anaesthesia.	
Unclear Standard Inadequate (26.9%)	AIM	To reduce pe	rcentage of patients experiencing	dental anxiety during dental extrac	tion procedure.	Cross-	KD Dahaw	4 monthly	LP8 MDAS –DEP	Adult patient	EXCLUSION CRITERIA	
management Absence of (45.5%) (54.4%) (54.4%)	Objectiv	200				sectional Study	KP Bahau	evaluation cycle	Scale Questionnaire	requiring extraction of teeth	Patient who are not medically or mentally fit.	
Poor knowledge of latest LA administration Different practices among officers High percentage of patients experiencing dental anxiety during extraction at KP	Objectiv	es				Study.	toola . Mo	dified Dent	al Anviatur (anla For Do	antol	
skills (63.6%) Bahau		General Objective						Study tools : Modified Dental Anxiety Scale For Dental Extraction Procedure (MDAS-DEP)				
Inadequate knowledge of pain relief (45.5%) Language barrier (36.7%) Unconducive surgical room environment	Reduce the percentage of patients experiencing anxiety during extraction in Klinik Pergigian Bahau					Modified D	antal Anviaty Scale for	Dantal Extraction Proc	adure (MDAS DEP)		Netervieus	
	Specific Objective					Modified Dental Anxiety Scale for Dental Extraction Procedure (MDAS-DEP) 1 Name : 2					Not anxious	
Unpleasant surgical room	To determine the	e percentage	To identify causes of dental	To formulate and implement	To evaluate the	Age : Sex :				2	Slightly anxious Fairly anxious	
environment (13.4%)	of patients ex anxiety during e		anxiety among patients visiting primary care facilities	appropriate method to reduce the percentage of patients	effectiveness of remedial measures that are	Can you tell us he Please indicate by	ow anxious you get, if a ticking $()$ the appropriate	at all, about a dental extr ate box.	raction/removal procedure		Very anxious	
	KP Bal		violang printary care racinate	experiencing dental anxiety	implemented		te told that one of your te xious Slightly anxiou		how would you feel? Very anxious 🗆 Extremely	5	Extremely anxious	
Indicators	Literatu	re Review				you feel?			tooth extracted, how would	•MDAS-	DEP scores consist of no nxious is equal to a score of 2	
NO OF PATIENTS WITH A SCORE OF MORE THAN 19	Extractions a	are often cited i	n the literature as one of the cause	es of dental anxiety that are mainly	among adults who	how would	d you feel?	1.5571	ental extraction procedure	and so o	anxious is equal to a score of 2 n.	
NO OF PATIENTS INDICATED FOR EXTRACTION X 100 %	show sympto reactions.	oms such as wo	orry, avoidance, and muscle tensio	n, which influence a person's emo (Appukutta	tional and physical an ,2016 ; Craske et.al.,2011) ??	4. If you wer □ Not any anxious	re about to get a local and xious	esthesia injection in your s	gum, how would you feel Very anxious 🗆 Extremely	from 5 to	n of all five questions can rang o 25, with 5 being not anxiou being extremely anxious.	
Standards: <20%	00	•	• •	anagement of dental anxiety. A de ify their own working pace with the		you feel?		1 1 / A A A A A A A A A A A A A A A A A	ical procedure, how would	•Any sco	ore of 19 or higher indicates nxious patient.	

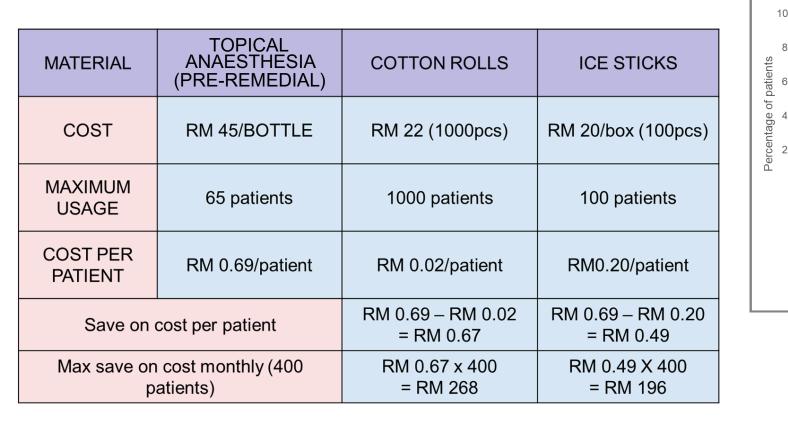
4.0 Analysis and Interpretation

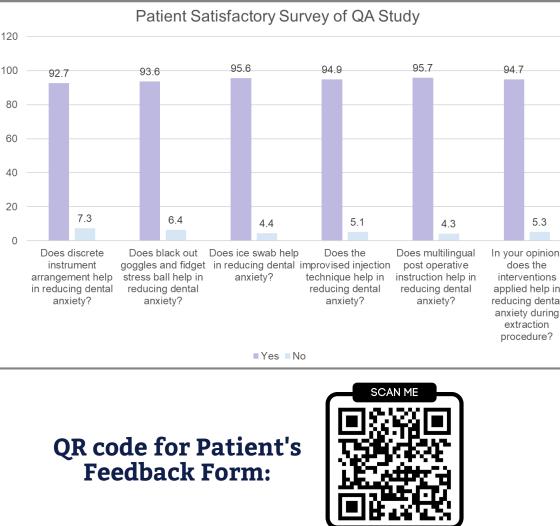
Model of Good Care











7.0 1	Next Step
Strength	 Remedial actions implemented were proven to be effectively practiced among dental officers even in a busy primary care facility. Patient satisfactory survey shows that majority patients have positive perception on this improvement.
Limitation	 Difficult in changing some patients' attitude and perception towards dental extraction. Commitment between healthcare professionals is essential to achieve better healthcare.
Next Plan	 Innovative initiatives is planned to be developed to ease process of replication specifically for developed SOP during LA administration. Aim to develop an operator and patient friendly guideline which can be adapted to state and national level.

Acknowledgement

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