**Poster ID: PP-41** 

# HIGH PERCENTAGE OF CARIES AMONG PRESCHOOL CHILDREN IN TADIKA PASTI ASY-SYIFA, **SUNGAI DUA SEBERANG PERAI UTARA**

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# Seberang Perai Utara District Dental Health Clinic, Pulau Pinang Malaysia,

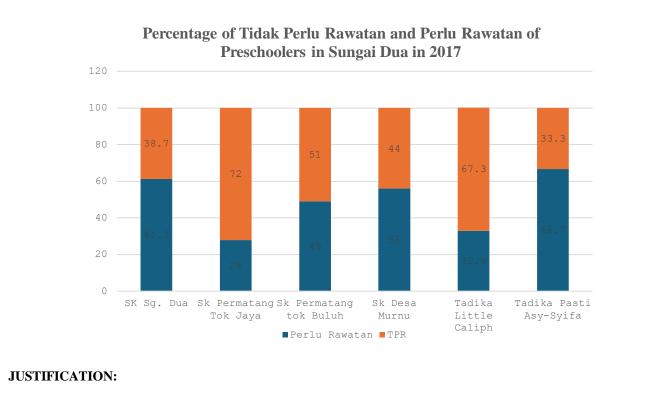
# Ministry of Health Malaysia

## 1. INTRODUCTION / LITERATURE REVIEW

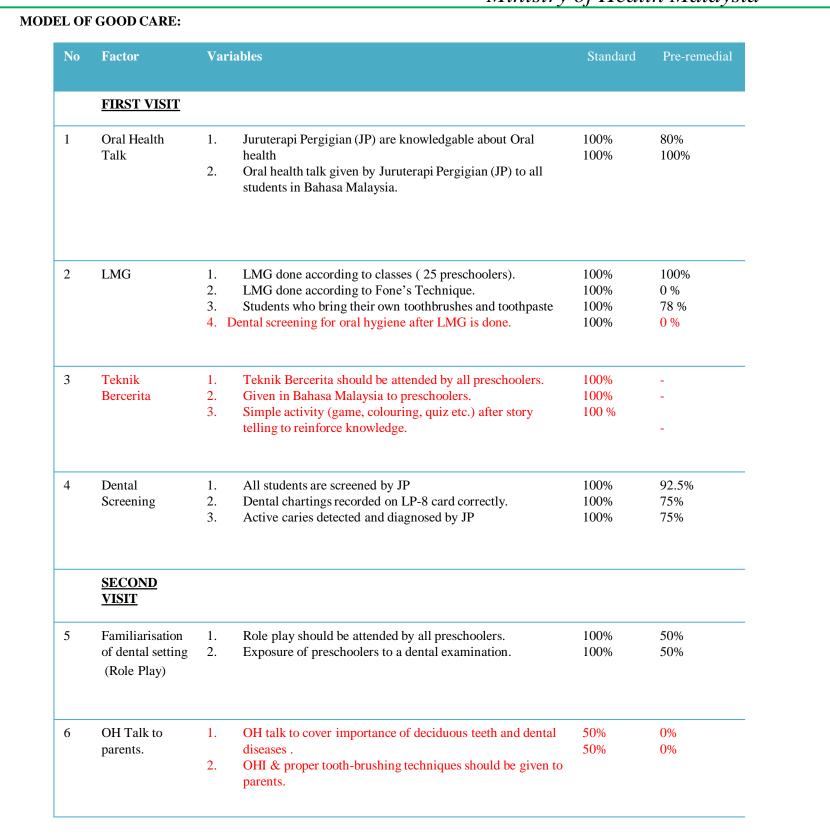
Early childhood caries (ECC), are also known as nursing bottle caries and baby bottle tooth decay. ECC is defined as the presence of one or more decayed (noncavitated or cavitated lesions), missing (due to caries), or filled tooth surfaces in any primary tooth in a child under the age of six. Early caries experience (caries status in primary teeth) has been proven as a reliable predictor of caries experience in permanent dentition [Predicting caries in permanent teeth from caries in primary teeth (Li Y, Wang W, 2002)]. According to Global Burden Of Disease study 2015, dental caries of the primary dentition was the 12th most prevalent disease (560 million children) in all ages combined. Caries prevalence amongst 5-year-olds has declined but mean dft has not shown similar decrease from 1995 to 2005 indicating caries severity. The key oral health goals that was set by National Oral Plan for Malaysia 2022-2030 by Ministry of Health Malaysia is 50% of 5 year and 80% of 12 year olds are caries free. Third National Health and Morbidity survery 2006 (NHMS III) by Oral Health, Ministry of Health Malaysia has also mentioned that 10% of the study population reported dental pain/problem, and the proportion reporting pain was highest at 15.7% in the preschool group. Through the Preschool oral health programme, government-aided kindergartens and pre-schools registered with the Ministry of Education are "covered" each year. Priority will be given to government-aided kindergartens, and if resources allow, will be extended to private kindergartens. In 2018, extending treatment was planned in Tadika PASTI ASY SYIFA.

### 2. SELECTION OF OPPURTUNITIES FOR IMPROVEMENT:

### PROBLEM VERIFICATION:



•Preschoolers with caries experience are likely to develop caries in



**INDICATOR :** 



# **'TEKNIK BERCERITA'**





**IMPLEMENTATION OF TREATMENT** 

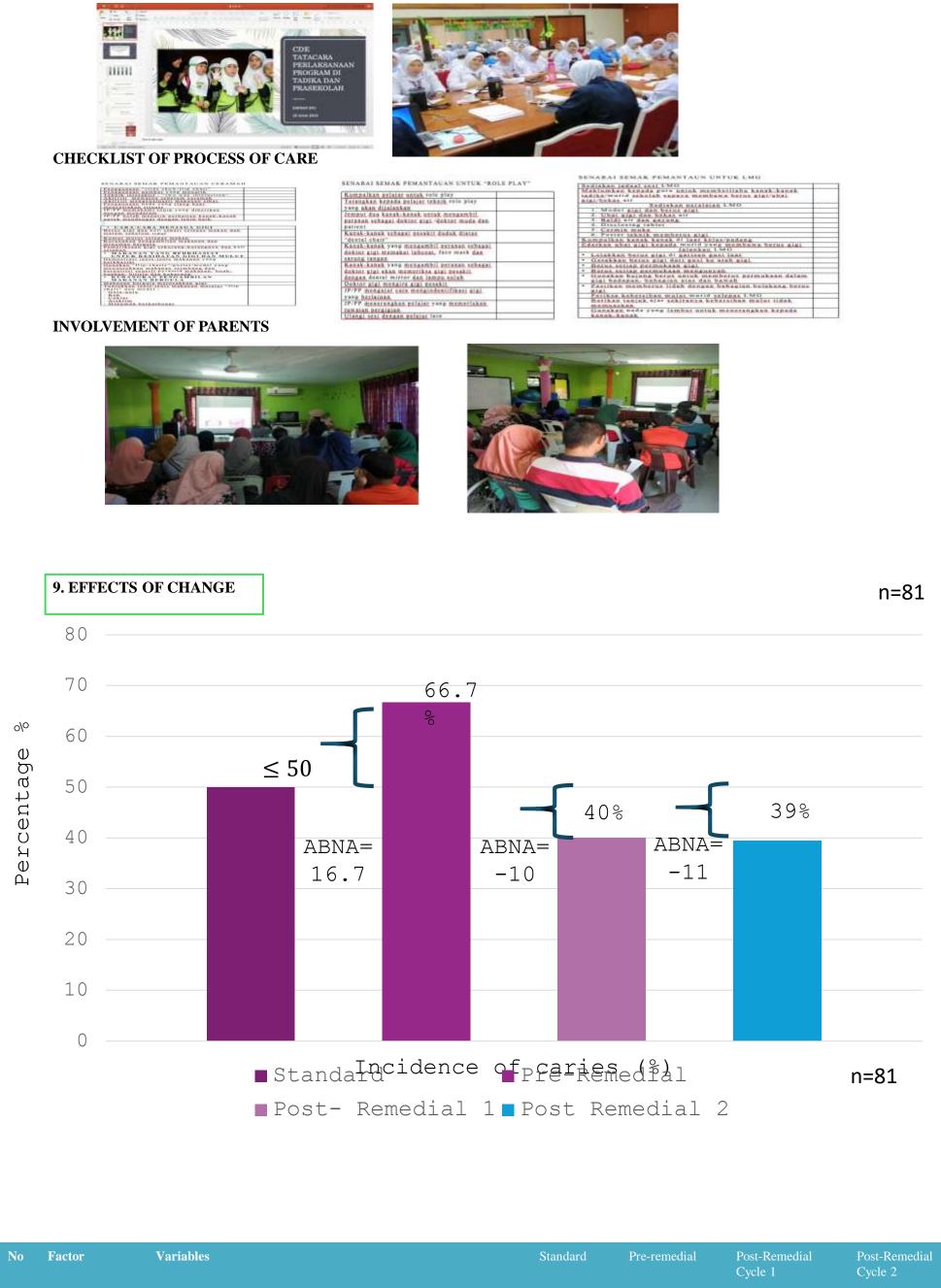


DIETARY AND NUTRITIONAL COUNSELLING

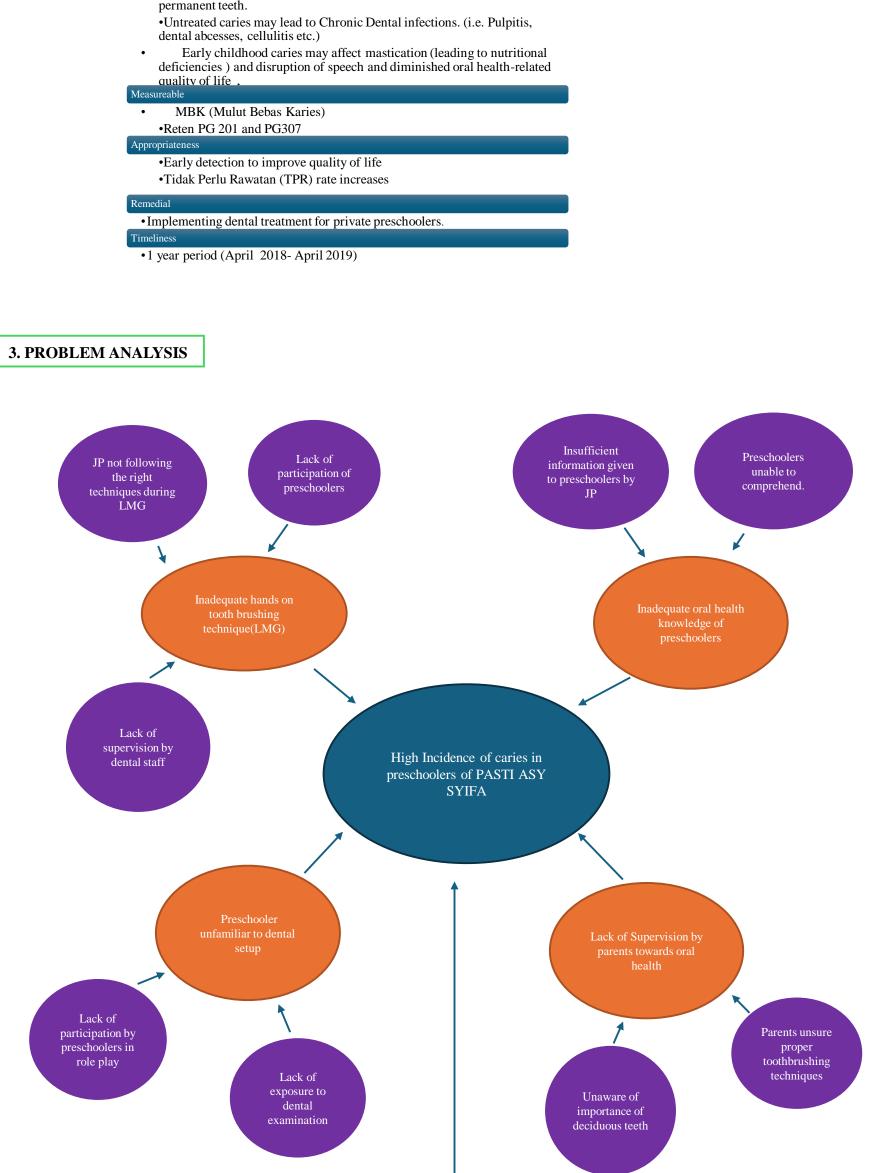




ORAL HEALTH TALK FOR JP

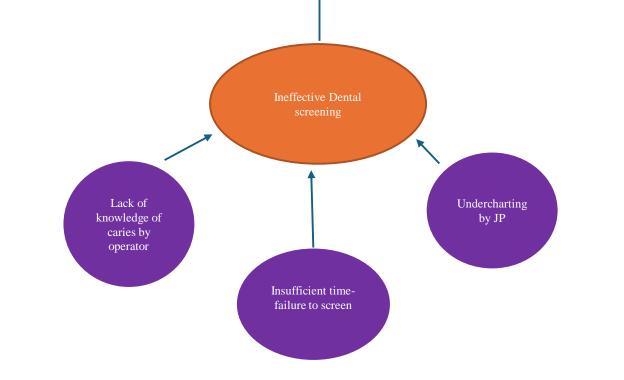


SENARAI BEMAR FEMARTALAR CERAMAN	SENARAI SEMAK PEMANTAU
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100900 BALLER ALABATIK BELBERGE KARAK KARAK	Interna sabagai daktar gigi /do



	ANDARD :		Total enrolment of presc	nool								
	<	≤ <b>5</b> 0%	% of preschoolers ar	e with caries								
6. F	PROCESS OF GA	ATHI	ERING INFORMAT	ΓΙΟΝ								
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	IY.	pe o	f Study	• Cross se		study						
	Dura	ation	of Study	• Remedia	<ul> <li>Pre-remedial :June 2018- August 2018</li> <li>Remedial : August - October 2018</li> <li>Post-Remedial 1: November 2018- May 2019</li> </ul>							
							19- April 2020					
	Samp	ple P	opulation	• Prescho	olers of	Tadika P	PASTI Asy Syi	fa				
		1:			.1							
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,										-		
				• Dental of	-	-						
	San	nplin	g Tools	teachers	5.	_	to assess dent	-				
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	Inch	Inclusion Criteria			• All 4 and 5-year-old preschoolers at Tadika PASTI in 2018							
					iu <i>J</i> -ycai	ora pro	schoolers at ra	idika PASTI	in 2018			
					iu 5-year		schoolers at 12	idika PASTI	in 2018			
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PI A				• Prescho	olers wh	o refuse	treatment		in 2018			
	AN FOR DATA COI	LLEC		• Prescho	olers wh	o refuse romised	treatment preschoolers	Method of	Sample			
	AN FOR DATA COI	LLEC	TION :	• Prescho	olers wh	o refuse romised	treatment preschoolers					
No.	AN FOR DATA COI Factor	LLEC	TION :	• Prescho • Medical	olers wh	o refuse romised	treatment preschoolers	Method of data	Sample			
No.	AN FOR DATA COI Factor <u>FIRST VISIT</u> Oral Health	LLEC Var	TION : 'iables Juruterapi Pergigian (J	• Prescho • Medical	olers wh lly comp	o refuse romised	treatment preschoolers Source of Data	Method of data collection	Sample Method			
No.	AN FOR DATA COI Factor <u>FIRST VISIT</u> Oral Health	LLEC Var	TION : iables Juruterapi Pergigian (J knowledgeable about of Oral health talk given Pergigian (JP) to all s	<ul> <li>Prescho</li> <li>Medical</li> </ul>	olers wh lly comp	o refuse romised	treatment preschoolers Source of Data	Method of data collection Interview (Pre) Self – administered	Sample Method			
No.	AN FOR DATA COI Factor <u>FIRST VISIT</u> Oral Health	LLEC Var	TION : iables Juruterapi Pergigian (J knowledgeable about ( Oral health talk given	<ul> <li>Prescho</li> <li>Medical</li> </ul>	olers wh lly comp Standard	o refuse romised	treatment preschoolers	Method of data collection Interview (Pre) Self – administered (Post) Performance	Sample Method			
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No.	AN FOR DATA COI Factor FIRST VISIT Oral Health Talk	LLEC Var 1. 2.	TION : iables Juruterapi Pergigian (J knowledgeable about ( Oral health talk given Pergigian (JP) to all s Malaysia. LMG done according to preschoolers). LMG done according to preschoolers).	<ul> <li>Prescho</li> <li>Medical</li> </ul> (P) are Oral health. by Jururawat students in Bahasa to classes (25) to Fone's eir own	olers wh lly comp Standard 100%	n=1	Itreatment         schoolers         Source of Data         guestionnaire         Observational         observational	Method of data collection         Interview (Pre)         Self – administered (Post)         Performance appraisal         Performance	Sample         Sample         Universal         sampling         Universal         universal			
<b>No.</b>	AN FOR DATA COI Factor FIRST VISIT Oral Health Talk	LLEC Var 1. 2.	TION : iables Juruterapi Pergigian (J knowledgeable about of Oral health talk given Pergigian (JP) to all s Malaysia. LMG done according to preschoolers). LMG done according to preschoolers). LMG done according to preschoolers).	<ul> <li>Prescho</li> <li>Medical</li> </ul> (P) are Oral health. by Jururawat students in Bahasa to classes (25) to Fone's eir own paste	olers wh lly comp Standard 100%	n=1	Itreatment         schoolers         Source of Data         guestionnaire         Observational         observational	Method of data collection         Interview (Pre)         Self – administered (Post)         Performance appraisal         Performance	Sample         Sample         Universal         sampling         Universal         universal			
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No. 1 2	AN FOR DATA COI Factor FIRST VISIT Oral Health Talk LMG	LLEC Var 1. 2. 1. 2. 3. 4. 1. 2.	TION : iables Juruterapi Pergigian (J knowledgeable about of Oral health talk given Pergigian (JP) to all s Malaysia. LMG done according to preschoolers). LMG done according to preschoolers). LMG done according to preschoolers). LMG done according to preschoolers). LMG done according to preschoolers are scree Dental chartings recor- correctly. Active caries detected	<ul> <li>Prescho</li> <li>Medical</li> </ul> (P) are Oral health. (P) are Oral health. by Jururawat students in Bahasa to classes (25 to Fone's leir own apaste oral hygiene after oral hygiene after ned by JP ded on LP-8 card	olers wh lly comp 300% 100% 100% 100% 100%	n=1	Image: Imag	Image: Nethod of data collection         Interview (Pre)         Self - administered (Post)         Performance appraisal         Performance appraisal         Review	Universal sampling Universal sampling			
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No. 1 2	AN FOR DATA COI Factor FIRST VISIT Oral Health Talk LMG LMG Dental Screening SECOND VISIT Familiarization	LLEC Var 1. 2. 1. 2. 4. 1. 2. 3. 4.	TION : 'iables Juruterapi Pergigian (J knowledgeable about of Oral health talk given Pergigian (JP) to all s Malaysia. LMG done according to preschoolers). LMG done according to preschoolers). LMG done according to toothbrushes and tooth Dental screening for of LMG is done. Preschoolers are scree Dental chartings recording to correctly. Active caries detected JP	<ul> <li>Prescho</li> <li>Medical</li> </ul>	olers wh lly comp Standard 100% 100% 100% 100% 100% 100%	n=1 n=81	Iteatment   Iteatment   Source of Data   Source of Data   Qbservational   check list     Observational   check list     Observational   check list     Observational   check list	Image: Performance appraisal         Review         Calibration         Performance         Performance	Universal         Sample         Universal         sampling         Universal         Sampling         Universal         Sampling         Universal         Sampling         Universal         Sampling         Universal         Sampling			
No. 1 2 3	AN FOR DATA COI Factor FIRST VISIT Oral Health Talk LMG LMG Dental Screening SECOND VISIT Familiarization of dental setting	LLEC Var 1. 2. 1. 2. 3. 4. 1. 2. 3. 4.	TION : iables Juruterapi Pergigian (J knowledgeable about of Oral health talk given Pergigian (JP) to all s Malaysia. LMG done according to preschoolers). LMG done according to preschoolers). LMG done according to preschoolers). LMG done according to preschoolers and tooth Dental screening for of LMG is done. Preschoolers are screet Dental chartings recording to correctly. Active caries detected JP Role play should be att preschoolers. Exposure of preschool	<ul> <li>Prescho</li> <li>Medical</li> </ul> (P) are Oral health. (P) are Oral health. by Jururawat students in Bahasa to classes (25 to Fone's leir own opaste oral hygiene after	olers wh lly comp Standard 100% 100% 100% 100% 100% 100%	n=1 n=81	Image: search of the search of th	Image: Network of data collection         Self - administered (Post)         Self - administered (Post)         Performance appraisal         Image: Network of data collection         Review         Calibration         Self -	Universal         Sample         Universal         sampling         Universal         Sampling         Universal         Sampling         Universal         Sampling         Universal         Sampling         Universal         Sampling			

 Oral Health Talk	1.		P) are knowledgable about		100%	80%		80%	99%
	2.	Students in Bahasa Ma	oy Juruterapi Pergigian (JP) aysia.	) to all	100%	100%		100%	100%
LMG	1. 2.	LMG done according t LMG done according t	o classes ( 25 preschoolers) o Fone's Technique.	).	100% 100%		100% 0%	100% 100%	100% 100%
	2. 3. 4.	Students who bring the	ir own toothbrushes and to oral hygiene after LMG is c		100%		78%	90%	100%
 Talasila Damaasida	1				100%	0%		100%	100%
Teknik Bercerita	1. 2. 3.	Given in Bahasa Malay	colouring, quiz etc.) after s		100% 100% 100 %	- -		100% 100% 100%	100% 100% 100%
Dental Screening	1. 2.	All students are screen Dental chartings record	ed by JP led on LP-8 card correctly.		100% 100%	92.5% 75%		100% 100%	100% 100%
	3.	Active caries detected	and diagnosed by JP		100%	75%		100%	100%
SECOND VISIT									
Familiarisation of dental setting (Role Play)	1. 2.		ended by all preschoolers. ers to a dental examination	L.	100% 100%	50% 50%		100% 100%	Unable to continue due to MCO
 OH Talk to parents.	1. 2.	diseases .	tance of deciduous teeth a		50% 50%	0% 0%		22% 22%	Unable to continue due to MCO
10. NEXT STE	EP	All the knowledge	and measures taken has to	o gain interest	of preschooler	s			
		All the knowledge	and measures taken has to	o gain interest (	of preschoolers	s			
	ł	More <b>enforcemen</b>	<b>t of monitoring</b> has to be t	taken among de	ental staffs				
4		To try to <b>impleme</b> district	nt all the remedial action	is on other pre	schools/ tadika	a in spu			
			nt all the remedial action	ıs on other pre	schools/ tadika	a in spu			
			nt all the remedial action	ıs on other pre	schools/ tadika	a in spu			
SUSTAINABILI	TY		nt all the remedial action	ıs on other pre	schools/ tadika	a in spu			
SUSTAINABILI	TY		nt all the remedial action	ıs on other pre	schools/ tadika	a in spu			
		district					ang Perai	Lifara	
	Perce	district	nongst preschooler unde	er Pejabat Ke	sihatan Pergi	gian Seber			
	Perce	district				gian Seber	ang Perai 2022 2444	<u>Utara</u> 2023 <u>2270</u>	
Indicator	Perce r	district	nongst preschooler unde 2019	er Pejabat Ke 2020	sihatan Pergi 2021	gian Seber	2022	2023	
Indicator % o	Perce r of 6 yea	district entage of caries-free an ur-old caries-free	nongst preschooler unde 2019 <u>2146</u>	<mark>er Pejabat Ke</mark> 2020 <u>1159</u>	• <mark>sihatan Pergi</mark> 2021 <u>10</u>	gian Seber	2022 <u>2444</u>	2023 <u>2270</u>	
Indicator	Perce r of 6 yea	district entage of caries-free an ur-old caries-free	nongst preschooler unde 2019 <u>2146</u> 5357	er Pejabat Ke 2020 <u>1159</u> 3017	sihatan Pergi 2021 <u>10</u> 16	gian Seber	2022 <u>2444</u> 5086	2023 <u>2270</u> 4935	
Indicator % o	Perce r of 6 yea	district entage of caries-free an ur-old caries-free	nongst preschooler unde 2019 2146 5357 40.06%	er Pejabat Ke 2020 <u>1159</u> 3017 38.40%	e <mark>sihatan Pergi</mark> 2021 <u>10</u> 16 62.50%	gian Seber	2022 2444 5086 48.10%	2023 <u>2270</u> 4935	
Indicator % o	Perce r of 6 yea	district entage of caries-free and ar-old caries-free /2024 treatment for preschool pergigian pulau pinang	nongst preschooler unde 2019 2146 5357 40.06%	er Pejabat Ke 2020 1159 3017 38.40%	e <mark>sihatan Pergi</mark> 2021 <u>10</u> 16 62.50% 100ls_visits by t	<mark>gian Seber</mark> Dahagian kes	2022 2444 5086 48.10%	2023 <u>2270</u> 4935	
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Indicator % o	Perce r N 2023/	district entage of caries-free an entage of caries-free an ur-old caries-free /2024	nongst preschooler unde 2019 2146 5357 40.06% ers are implemented in <u>all</u> since 2022 (BKPPP) rents <b>are implemented for</b>	er Pejabat Ke 2020 1159 3017 38.40% private presch skPPP .	esihatan Pergi 2021 10 16 62.50% nools_visits by t its in all the dis	gian Seber pahagian kes stricts in Pen	2022   2444   5086   48.10%   ihatan   ang.	2023 <u>2270</u> 4935	
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#### 4. OBJECTIVES

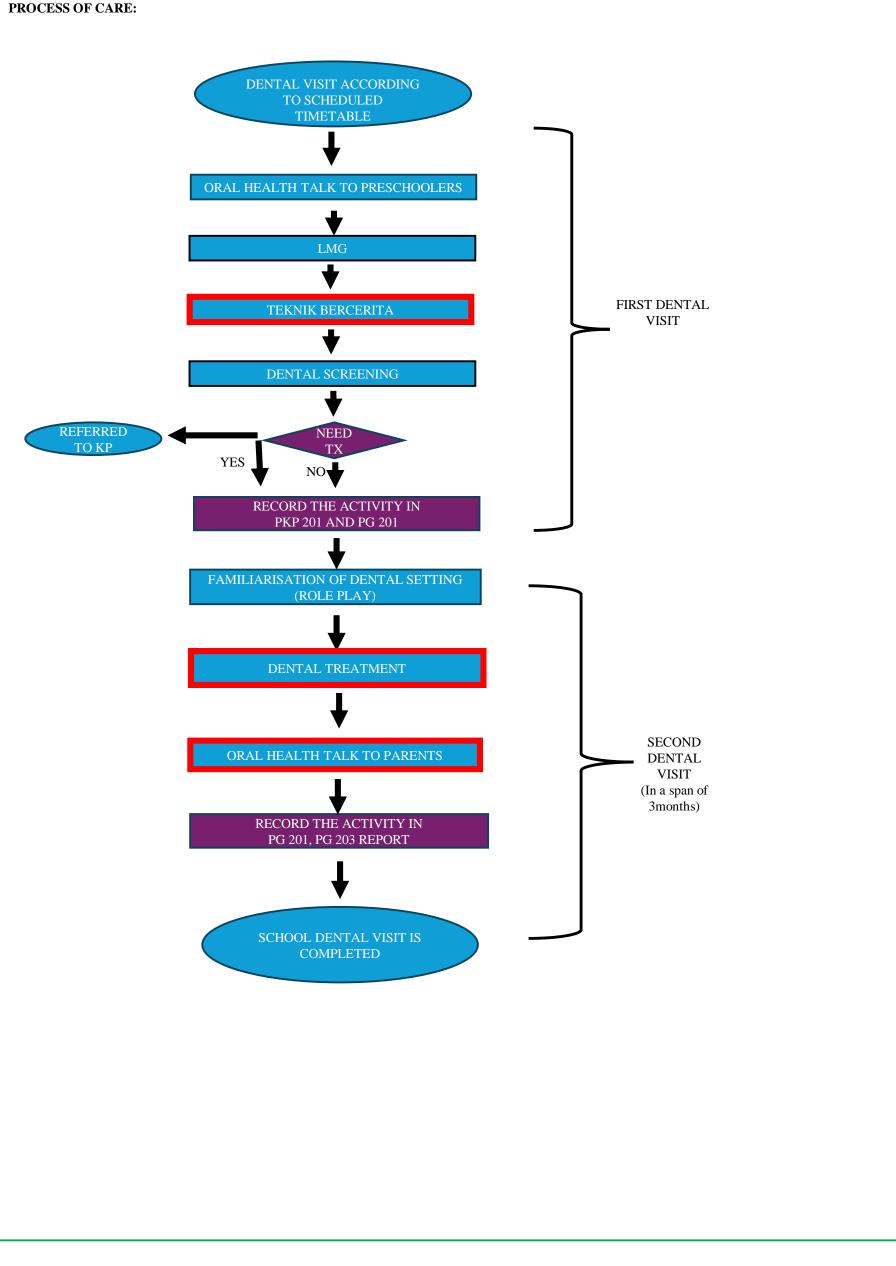
#### **GENERAL OBJECTIVES:**

To reduce the incidence of caries among the preschoolers of Tadika PASTI Asy Syifa from 66.7% in year 2018 to <50% in year 2019

#### **SPECIFIC OBJECTIVES:**

- To identify the percentage of preschoolers at Tadika PASTI Asy Syifa who are MBK.
- To determine the factors that cause the high incidence of caries of these preschoolers
- To suggest and carry out remedial actions to reduce the caries incidence in Tadika PASTI Asy-Syifa.
- To evaluate the effectiveness of the remedial actions that has executed. 4.





10	Factor	Variables	Standard	Pre-remedial	Post- Remedial
	<u>FIRST VISIT</u>				
	Oral Health Talk	<ol> <li>Juruterapi Pergigian (JP) are knowledgable about Oral health</li> <li>Oral health talk given by Juruterapi Pergigian (JP) to all students in Bahasa Malaysia.</li> </ol>	100% 100%	80% 100%	<mark>80%</mark> 100%
	LMG	<ol> <li>LMG done according to classes (25 preschoolers).</li> <li>LMG done according to Fone's Technique.</li> <li>Students who bring their own toothbrushes and toothpaste</li> <li>Dental screening for oral hygiene after LMG is done.</li> </ol>	100% 100% 100% 100%	100% 0% 78% 0%	100% 100% 90% 100%
	Teknik Bercerita	<ol> <li>Teknik Bercerita should be attended by all preschoolers.</li> <li>Given in Bahasa Malaysia to preschoolers.</li> <li>Simple activity (game, colouring, quiz etc.) after story telling to reinforce knowledge.</li> </ol>	100% 100% 100 %	-	100% 100% 100%
	Dental Screening	<ol> <li>All students are screened by JP</li> <li>Dental chartings recorded on LP-8 card correctly.</li> <li>Active caries detected and diagnosed by JP</li> </ol>	100% 100% 100%	92.5% 75% 75%	100% 100% 100%
	<u>SECOND</u> <u>VISIT</u>				
	Familiarisation of dental setting (Role Play)	<ol> <li>Role play should be attended by all preschoolers.</li> <li>Exposure of preschoolers to a dental examination.</li> </ol>	100% 100%	50% 50%	100% 100%
	OH Talk to parents.	<ol> <li>OH talk to cover importance of deciduous teeth and dental diseases .</li> <li>OHI &amp; proper tooth-brushing techniques should be given to parents.</li> </ol>	50% 50%	0% 0%	22% 22%

This poster was presented at the Second Screening of the 12<sup>th</sup> National QA Convention, October 8 – 10, 2024