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**KEDOKTERAN DAN ILMU
KESEHATAN**

***THE CORRELATION BETWEEN BRUSHING
PARENTAL EFFICACY (BPE) AND THE SEVERITY OF
EARLY CHILDHOOD CARIES (ECC) AMONG
PRESCHOOL CHILDREN IN SLEMAN DISTRICT 2015***

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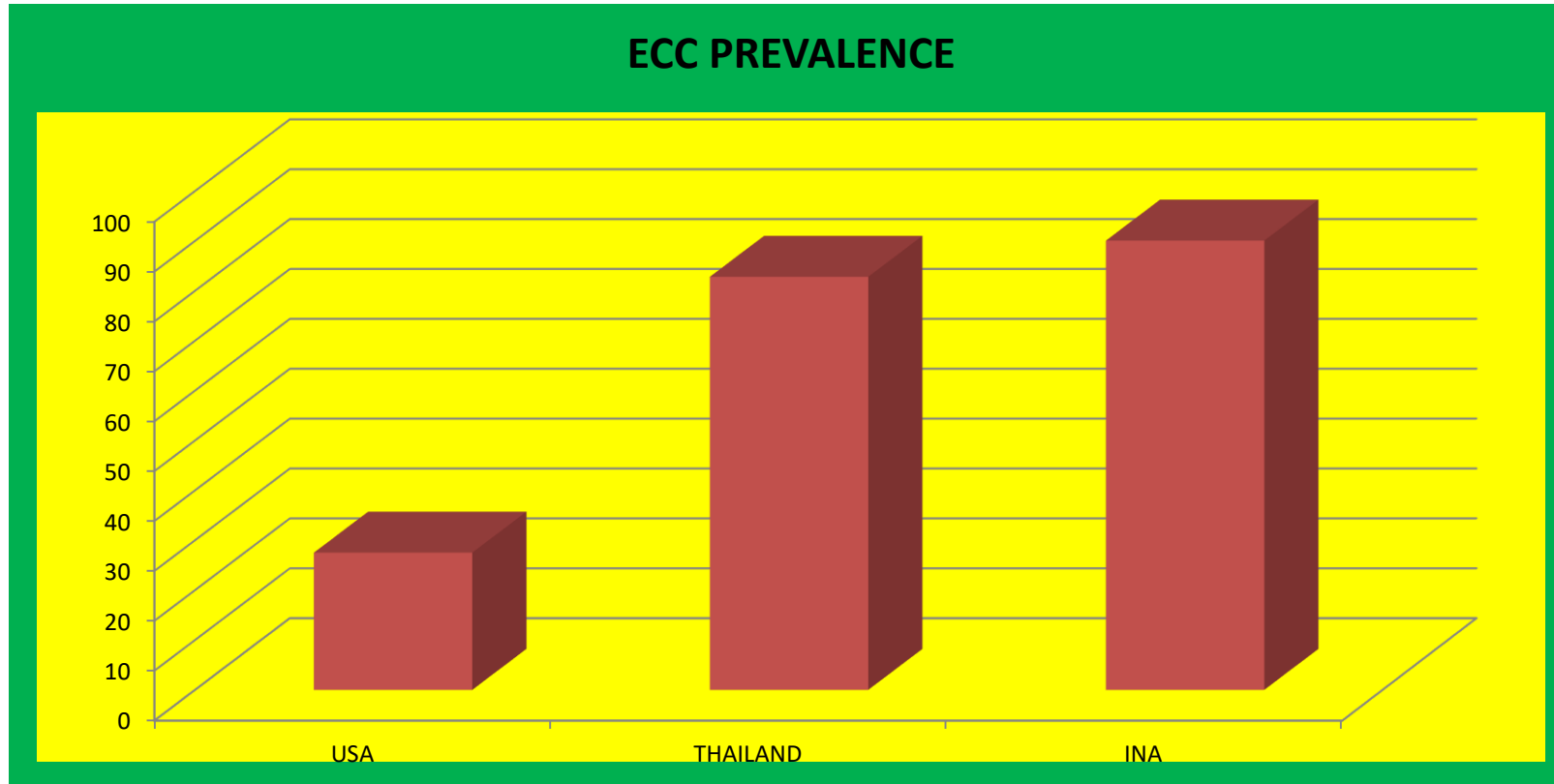
Background

- ECC (Early Childhood Caries):

Dental caries in preschool children, is a disease which is extremely destructive; thus, this impacts on the growth and development of the permanent teeth.

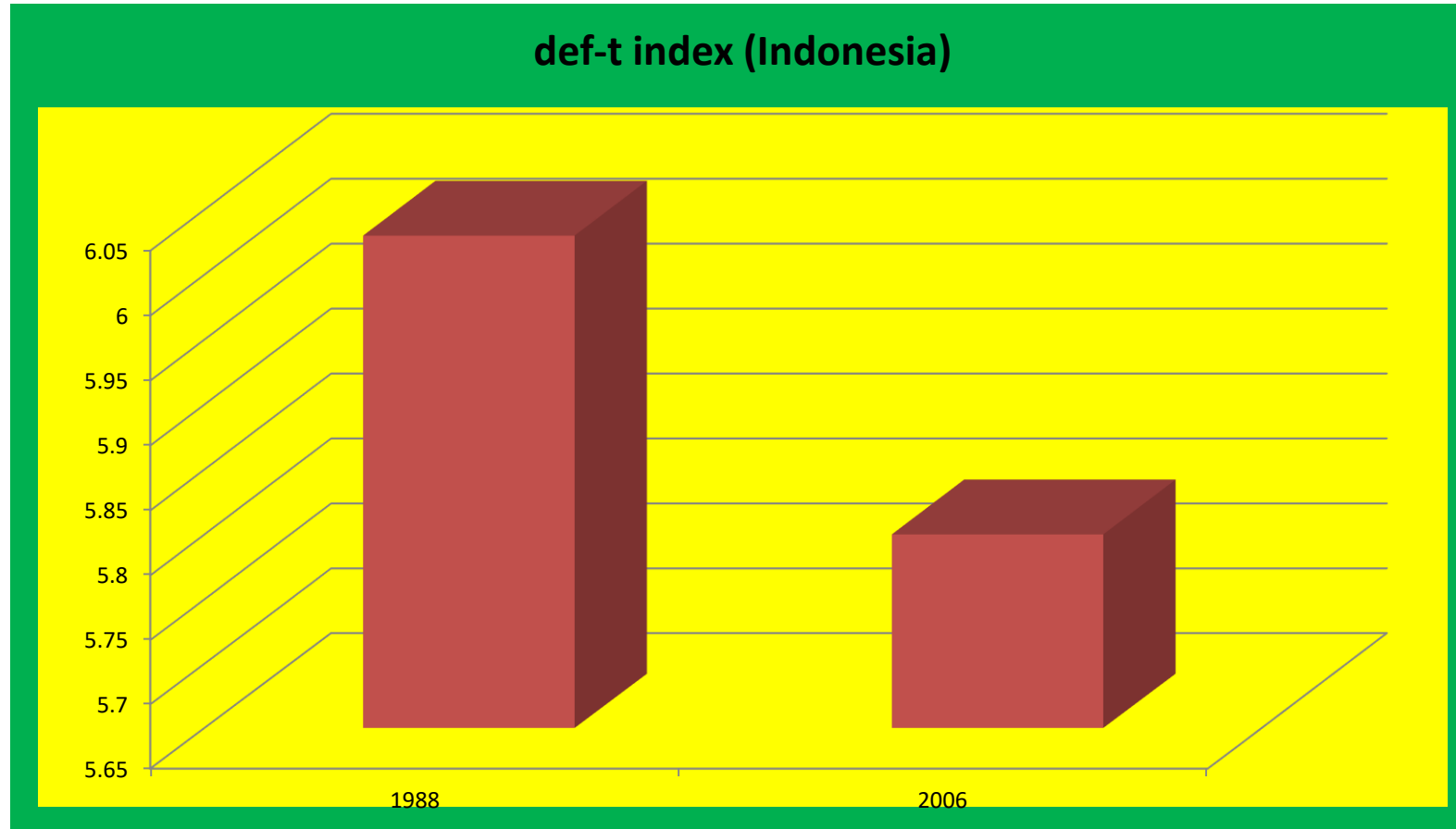


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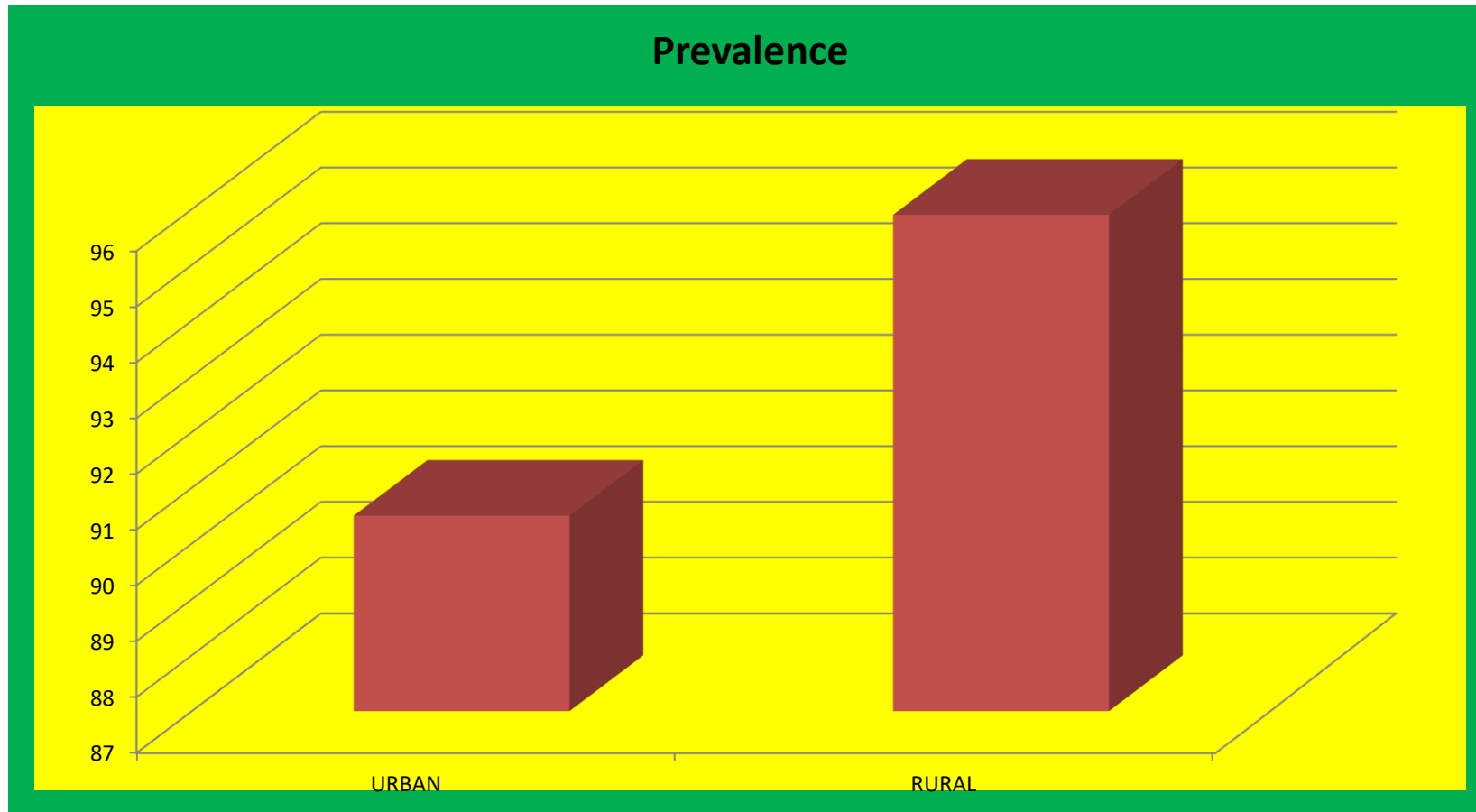


Background





Background





Background

ECC in Indonesia (WHO):

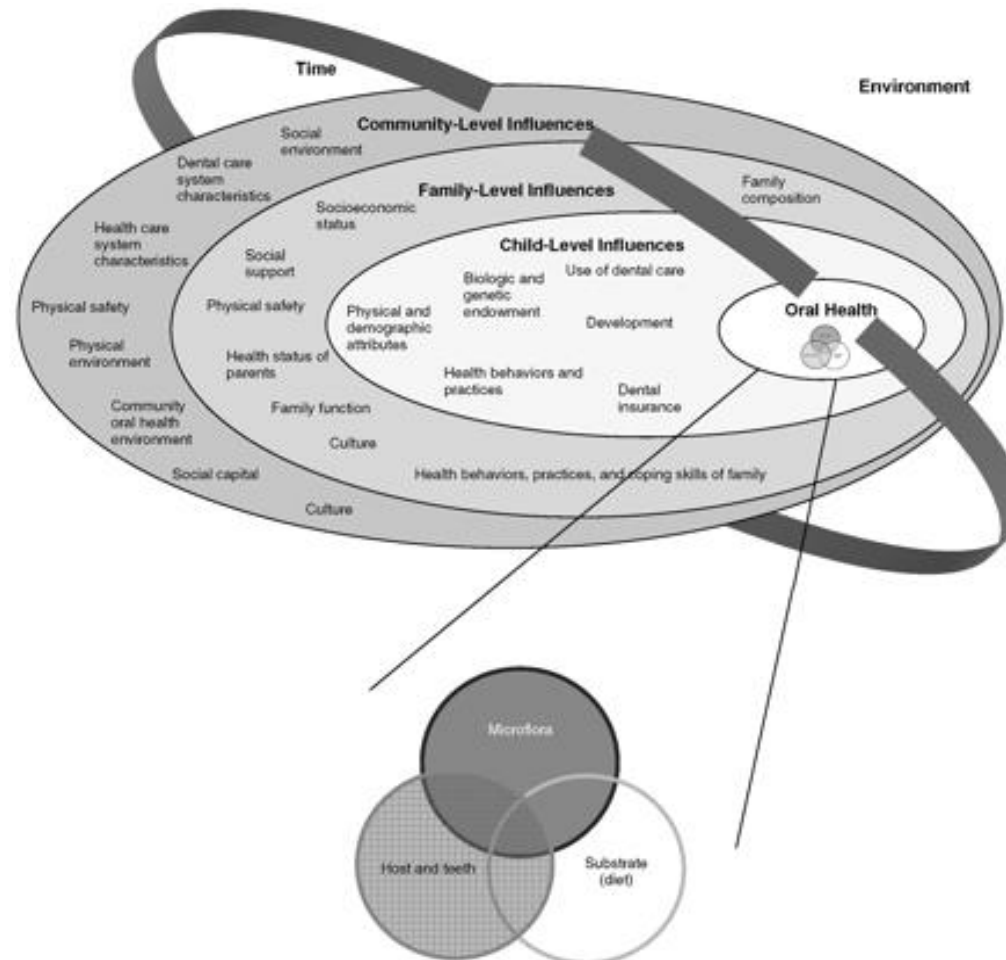
The highest prevalence in the world (90,05%)

WHO Oral Health Goal:

90 % caries free



Risk Factors (AAPD)





ECC Risk Factor

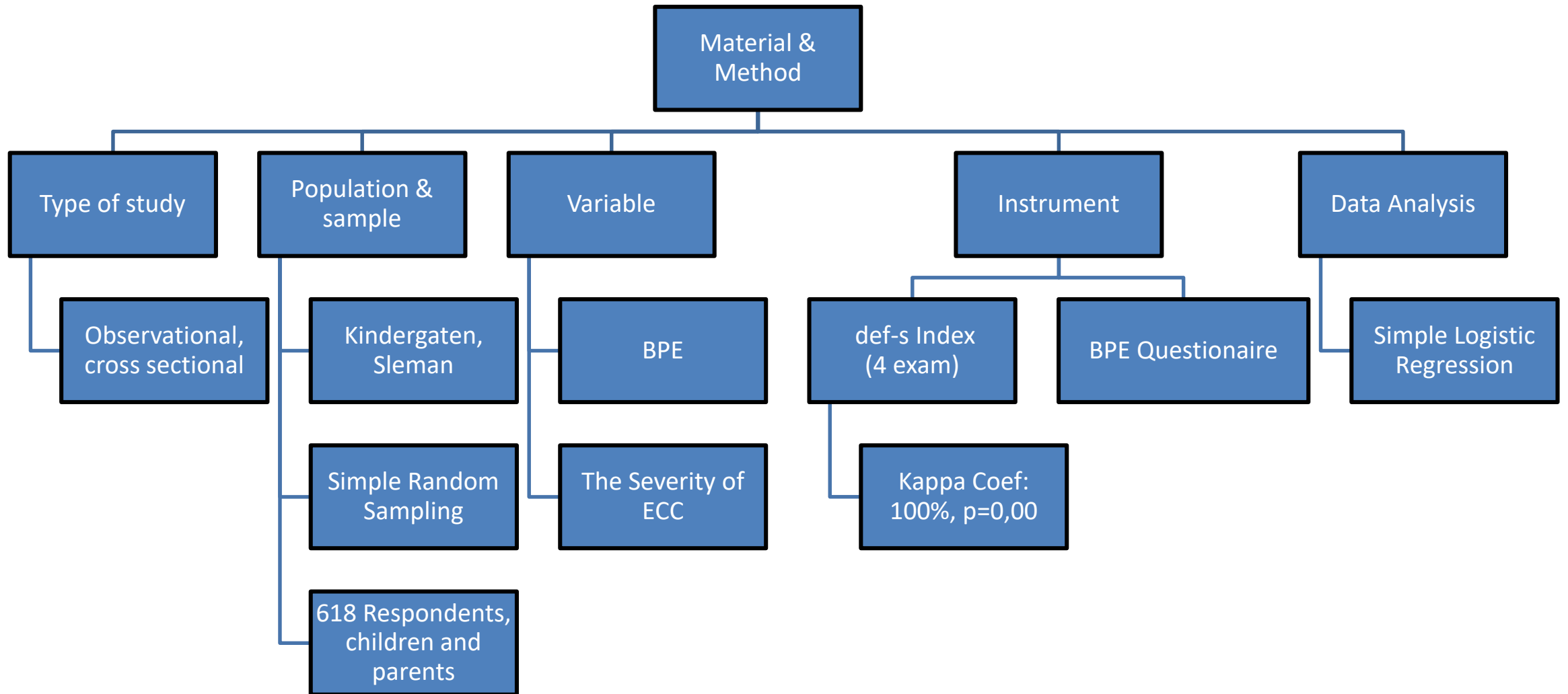
Most significant:

- The ability and behavior of parents in providing and teaching healthy habits and behavior for their children,
- Especially the behavior of tooth brushing, or commonly referred to as brushing parental efficacy



Purpose of study

- Determine the correlation between Brushing Parental Efficacy (BPE) and the severity of Early Childhood Caries (ECC) among Preschool Children in Sleman District 2015





Result

Characteristic of Responden (Children)

Characteristic	N (%)
Age (year old)	
4	34 (5,9)
5	318 (54,5)
6	231 (39,6)
Gender	
Male	293 (50,3)
Female	290 (48,7)



Characteristic of Respondent (mother)

Characteristic	N (%)
Age (year old)	
< 29	123 (21,1)
30-40	359 (61,6)
≥ 41	101 (17,3)
Occupation	
PNS/TNI/POLRI	37 (6,4)
Private	94 (16,1)
Entrepreneur	69 (11,8)
Housewife	383 (65,7)
Education	
Low	108 (18,5)
High	475 (81,5)



Result

Prevalence of ECC

Diagnose of ECC	N (%)
ECC	583 (94,3)
No ECC	35 (5,7)
Total	618 (100)



Result

Distribution of The ECC Severity

Category	ECC (N=583)
	n (%)
ECC (not severe)	136 (23,3)
ECC (severe)	447 (76,7)
Total	583 (100)



Result (bivariate analysis)

Characteristic (BPE)	ECC (N=583)			OR	P value
	Severe	Not severe	Total		
	n (%)	n (%)	n (%)		
Good	134 (30,0)	39 (28,7)	173 (29,7)	2,3	0,004
Bad	313 (70,0)	97 (71,3)	410 (70,3)		



Conclusion

- There is a significant correlation between BPE and the severity of ECC, children with bad BPE have 2,3 times greater risk of suffering severe ECC than children with good BPE.
- The ECC prevalence in Sleman Distric is 94,3%.



Suggestion

- There is a need for promotive and preventive programs to reduce the prevalence of dental caries and promote oral health status of preschooler in kindergaten Sleman Yogyakarta, ie, brushing teeth activities programs.



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