## موضوع:

## Esperance pica study

تهیه و تنظیم: دکتر مریم بهمنی

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### Esperance pica study

What is pica?

Associations with health

Aetiology

**Prevalence** 

Methods



# Esperance pica study

Results

**Discussion** 

Weaknesses of the study

conclusion



# What is pica?

Latin for magpie

persistent craving for, or eating of, non-food items

fifth edition (DSM- $^{\Delta}$ ):as a mental illness

persist beyond 11 months to 7 years of age

forms of pica: geophagy - amylophagy-pagophagy



#### Associations with health

anemia

renal disease

intellectual impairment



lead poisoning of earth-eating children

intestinal obstruction





cultural theory

organoleptic model

physiological theories: Iron-zinc

emerging theory: innate immune system

hygiene hypothesis





# Prevalence

Geophagy in African populations

Y^-1・・% in pregnant women

YY% in African children

reported from numerous other human populations

many animal species





#### THE PREVALENCE IN AUSTRALIA

#### unknown

habitual clay eaters in a town of fire-fire people

New Zealand, found pica in Y of the Y children

primary aim: estimate the rate of pica among children

Secondary aims: range of substances





in Esperance, Western Australia, during a period of seven months were encouraged by receptionist staff to fill out a simple questionnaire while waiting to be attended

children aged <sup>₹</sup>−<sup>¶</sup> years



## Table 1. Frequency of pica

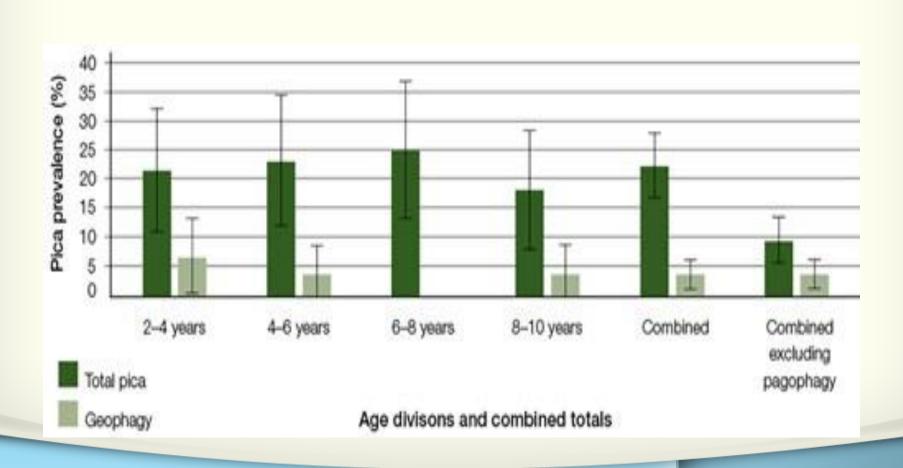
Table 1. Frequency of pica							
	Soil	Paper	Paint	Hair	Ice	Other	
Never	114	197	۲.۵	198	٧.	104	
Less than once a month	**	٣٢	١.	14	Ŷ·	٧	
Once a month or more	9	١.	۴	Ŷ	۵۷	۶	
Once a week or more	٨	١.	,	۵	79	۴	
Daily or more	•	1	•	,	٨	٨	
Did not respond	٣	٣	٣	٣	۲	44	
Total	777	777	777	777	777	777	

### Table 7. Pica substances

Table	۲	Pica	substances
lable	٠.	rica	SUDSIGNCES

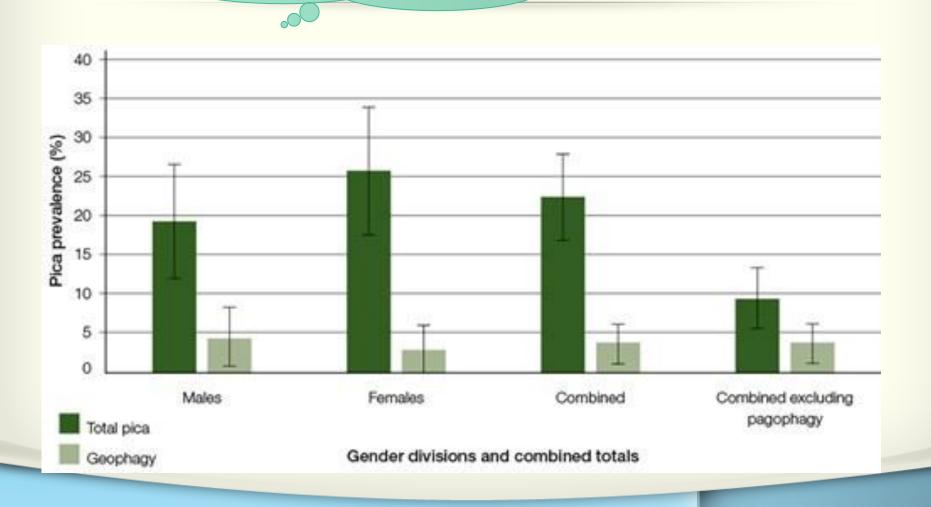
14516 11166	Table 1. Fled 3003fallees							
Amount	Soil	Paper	Paint	Hair	Ice	Other		
None	١٨٨	197	199	191	٨۴	147		
About a tablespoon	17	20	19	*1	VA	١٥		
About half	a cup ^	٨	•	•	44	۲		
About a cup	p ·	,	•	١	٨	١		
More than	one cup ·	١	•	•	۶	٣		
Did not res	pond 1.	11	11	١.	۵	۶.		
Total	777	775	777	775	778	777		

## Figure 1. Pica by age groups





## Figure 7. Pica by gender





pica occurred in 2. of the YYY participants

Pagophagia:in TF children

non-pagophagic pica: ۲1 children, 9.4%





pagophagy, occurred in TT. F% of children

Geophagia occurred in only 7.9% of the children

NO: different age groups or between males and females

occur in people with iron deficiency



## Weaknesses of the study

they live near the shire boundaries, closer to other towns

boundary an arbitrary was chosen



### Implications for general practice

was found in 9.4% of children, and geophagy in 7.5%

eat more than one non-food substance

associated with iron deficiency

geophagia may lead to lead poisoning



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