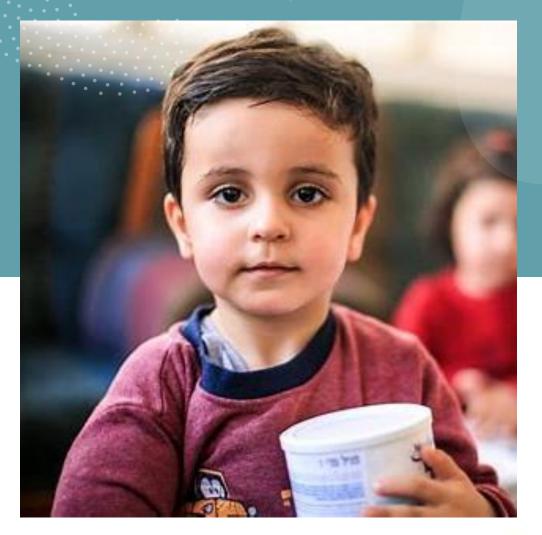
No Turning Back: How to Support the Mental Health Needs of Families with PKU

Dr Nadirah Damseh Dr Raed Al-Hindi





Outline



The Rebuilding Alliance PKU Tiger team

What is PKU?

- Background
- Screening
- Required treatment

PKU in Palestine

- Formula, newborn testing
- Obstacles
- Bigger picture

PKU Tiger Team















- 4 continents
- Medical professionals
- Volunteers
- Individuals with PKU



Phenylketonuria

- The most common preventable cause of intellectual disability.
- Results from deficiency of a liver enzyme called Phenylalanine hydroxylase.
- This enzyme deficiency results in intolerance to the dietary intake of an essential amino acid called phenylalanine.
- Accumulation of phenylalanine produces a spectrum of medical complications.

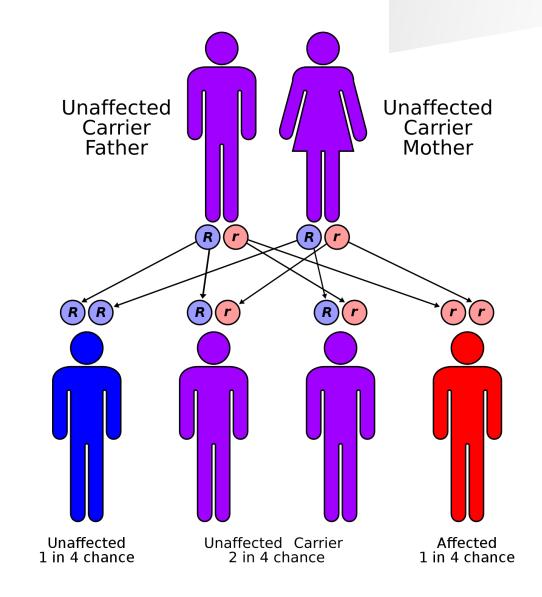
Clinical features if untreated

- Irreversible brain damage and intellectual disability
- Neurological issues: seizures and tremors
- Behavioral, emotional, social problems
- Early death



Genetic Basis of PKU

- Autosomal recessive pattern of inheritance
- Typically both parents are carriers
- Children / adults with PKU never "grow out" of the condition



'Golden Standard' of Care



- 1. Newborn screening
- 2. Medical formula / diet
- 3. Regular Phe level testing













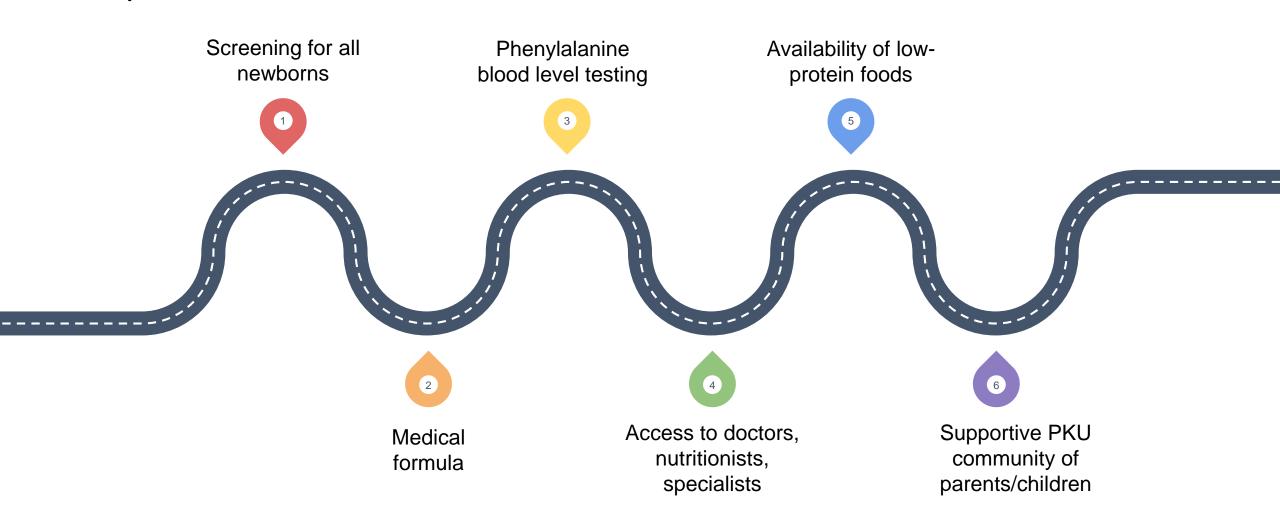
Management

- PKU is a treatable condition.
- Restriction of dietary phenylalanine (PA) using low-protein food and Phenylalanine-free medical formula
- Treatment has to be initiated as soon as possible after birth to achieve PA levels of 120-360 μ mol/L (2-6 mg/dL).



- Background Population: 5.24 million. 61% West Bank, 39% Gaza
- Birth Rate: 397 per day
- Over 580 children in Gaza & the West Bank suffer from Phenylketonuria (PKU).

What does sustainable care require?



Challenges

Occupation and border restrictions

Government priorities

Financial burdens

Limited resources

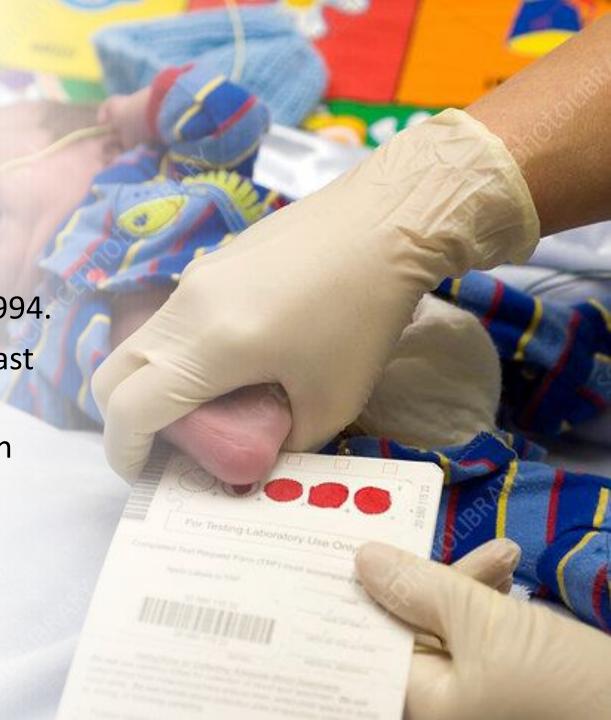
Lack of data

Limited management /treatment





- Screening Program in Palestine began in 1994.
- Inconsistent newborn screening over the last few years
- Only location for testing: Ministry of Health Central Laboratory
- Lab damaged in May bombing
- 60,000 births/year in Gaza alone





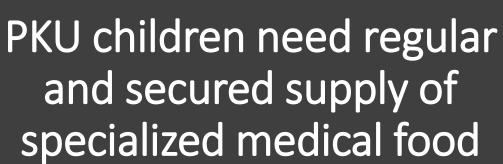
Shortage of PKU test materials threatens Gaza newborns

Failure to conduct test of phenylketonuria leaves the lives of Palestinian newborns at risk

Nour Abu Aisha | 26.01.2021





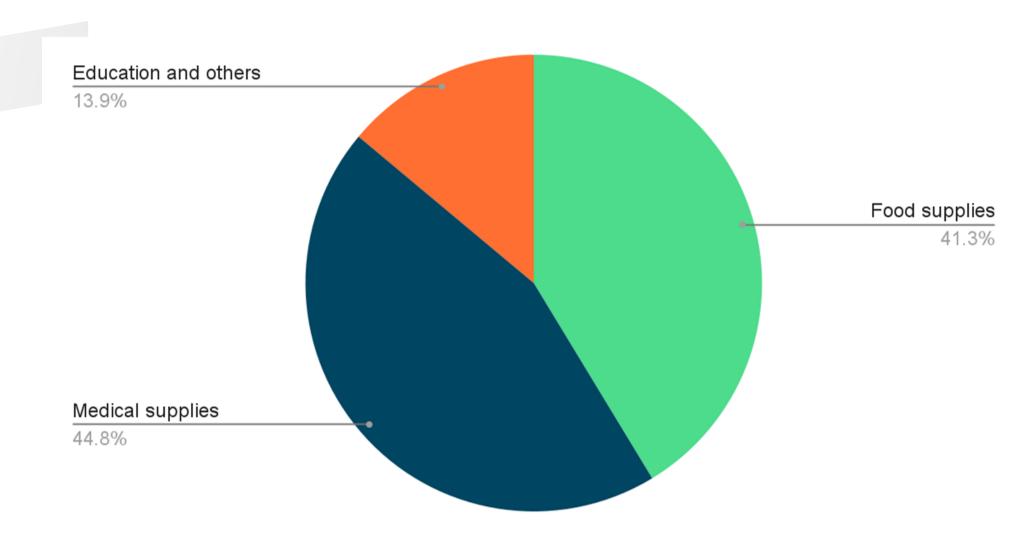


Gaza PKU Parent Survey



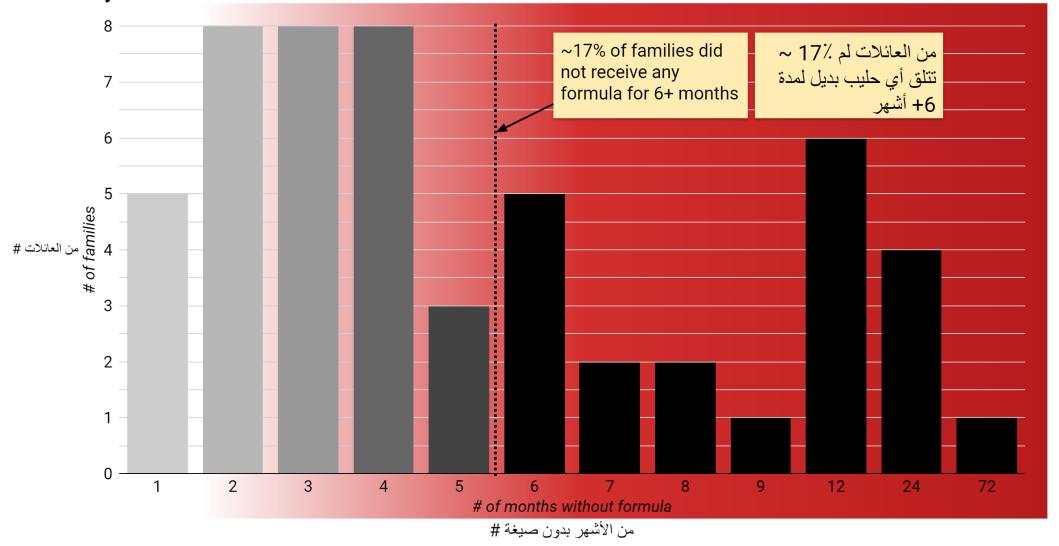
- Dec. 2020
- 126 respondents
- 36 questions
- Understand situation and community needs

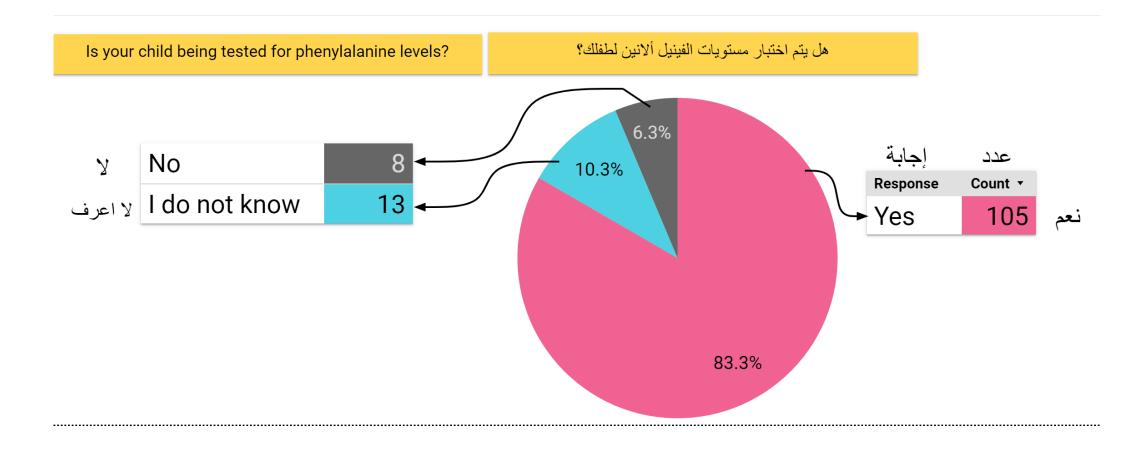
Please let us know how we can help you and other families who have children with PKU.



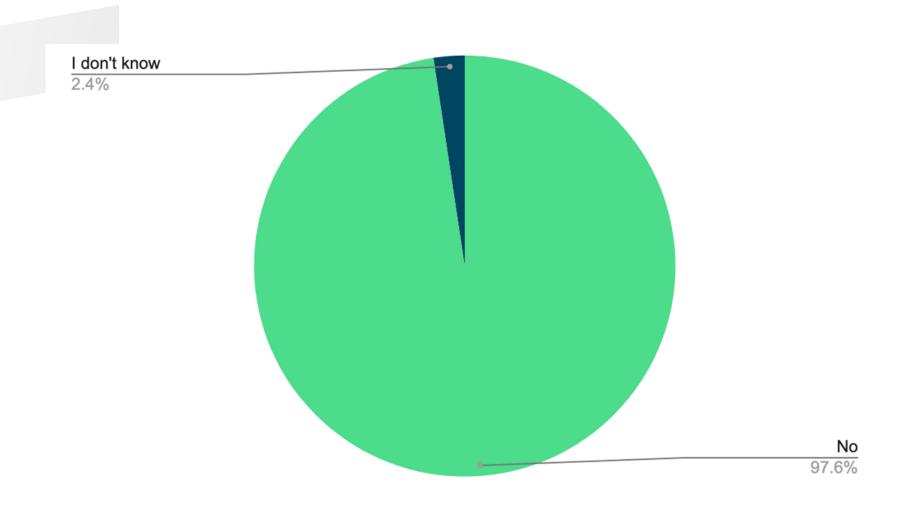
The chart below displays the number of months a family had gone without receiving any formula.

يعرض الرسم البياني أدناه عدد الأشهر التي مرت بها العائلة دون . تلقي أي صيغة

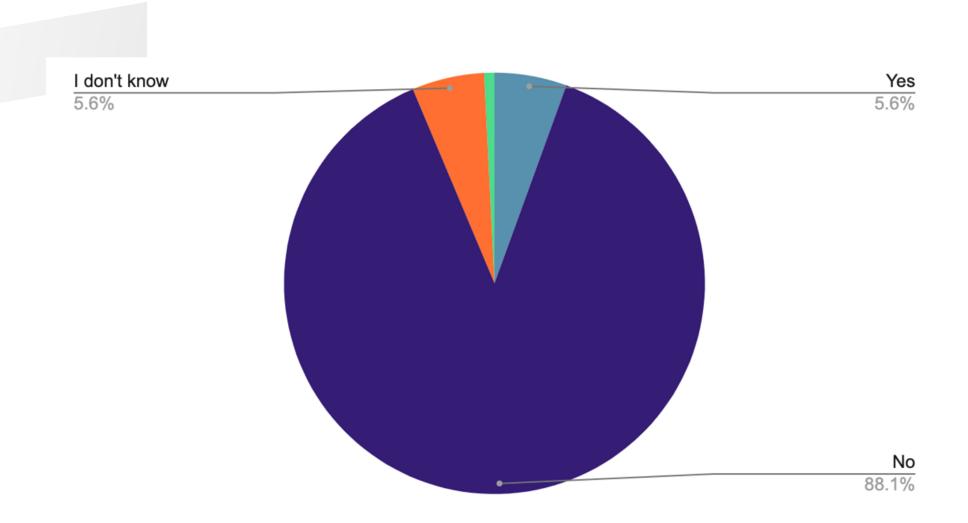




Does your child follow up with a dietician?



Does a specialist modify the formula amount for your child (based on Phe blood test results)?



International collaboration.. We all have a responsibility toward these children



