The patients' perspective on the value of orphan designation - the case of the AKU Society

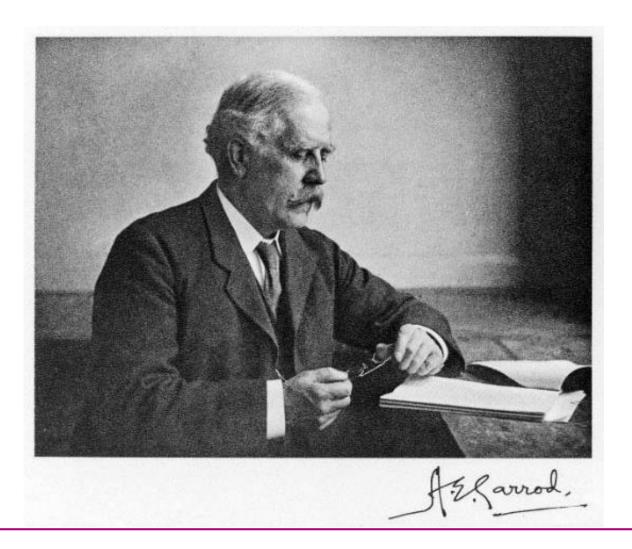
Dr Nicolas Sireau, Chair & CEO, AKU Society nick@akusociety.org



About Alkaptonuria (AKU)



1902: Sir Archibald Garrod



Alkaptonuria Society

Harwa

Oldest AKU Patient 1500 BC





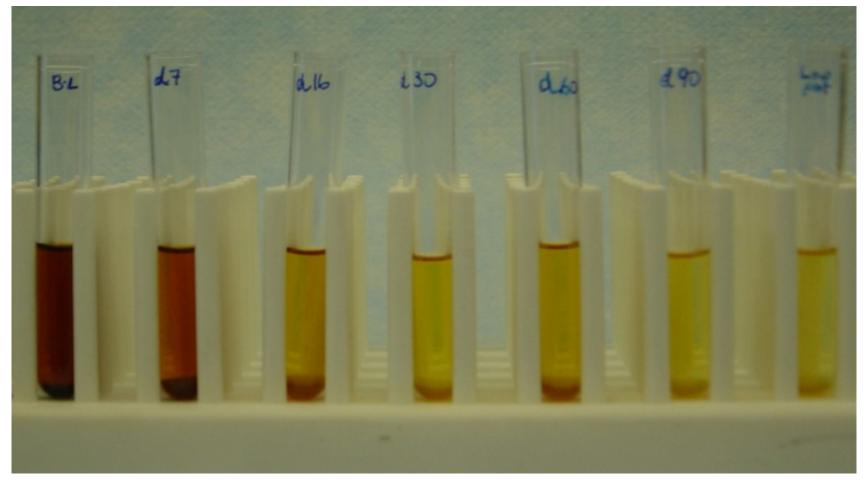
Stenn et al 1977

The AKU Tetrad

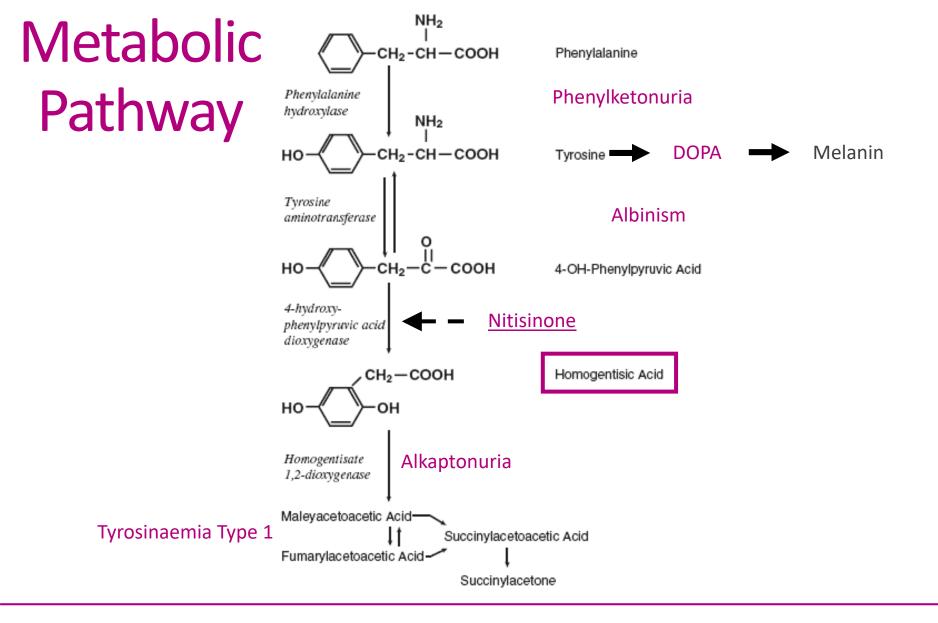




Urinary HGA







The value of orphan designation





The European Agency for the Evaluation of Medicinal Products Pre-authorisation Evaluation of Medicines for Human Use

> London, 6 January 2003 EMEA/COMP/140/02 Rev. 1

COMMITTEE FOR ORPHAN MEDICINAL PRODUCTS

PUBLIC SUMMARY OF POSITIVE OPINION FOR ORPHAN DESIGNATION

OF

nitisinone for the treatment of alkaptonuria

On 13 March 2002, orphan designation (EU/3/02/096) was granted by the European Commission to Swedish Orphan International AB, Sweden, for nitisinone for the treatment of alkaptonuria.

What is alkaptonuria?

Alkaptonuria is a genetic disease, where a deficiency in an enzyme, the homogentisic acid oxidase, leads to the accumulation of homogentisic acid (HGA) and its metabolites, which have deleterious effects on cartilage. The condition is sometimes revealed in infants by a bluish colour of eye conjunctiva, or dark colouring of urine in diapers. The most common symptoms occur during

How orphan designation enabled us to carry out clinical trials



Three Studies

Trial Name	Description	Sites
SONIA 1 : Suitability of Nitisinone in Alkaptonuria 1	3-month phase II study	UK/Slovakia
SONIA 2 : Suitability of Nitisinone in Alkaptonuria 2	4-year phase III	UK/Slovakia/France
SOFIA : Subclinical Ochronosis Features in Alkaptonuria	Cross-sectional study	UK





Alkaptonuria Society





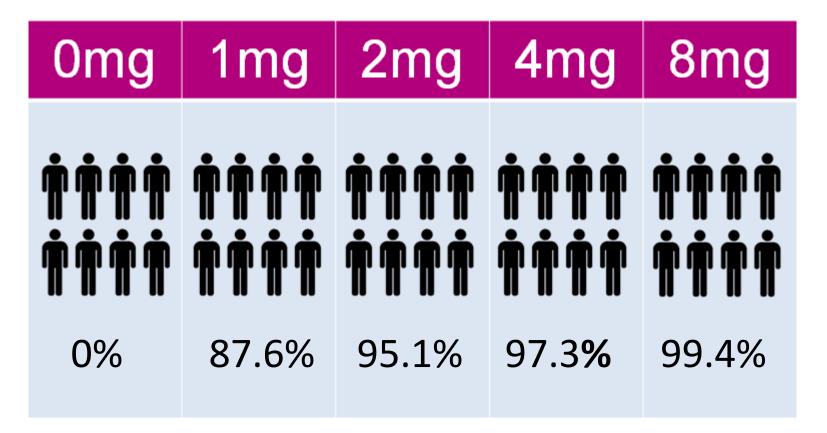
DevelopAKUre Last Project Board meeting Siena

SONIA 1





SONIA 1





SONIA 2



Clinical Sites

At Liverpool, UK

The **Royal Liverpool University Hospital, UK**, is home to the National AKU Centre, and some of the world's leading experts on the disease. *Lead clinician – Prof L Ranganath*

At Piestany, Slovakia

The National Institute of Rheumatic Disease, Slovakia, has been studying AKU for 60 years, and cares for the world's largest community of AKU patients. *Lead clinician - Prof Jozef Rovenský*

3

At Paris, France

The **Hôpital Necker, France**, houses a national metabolic centre that treats several AKU patients and uses nitisinone for tyrosinaemia patients. *Lead clinician – Prof Pascale de Lonlay*





SOFIA

	M / F		M / F
16-20	İİ İİ	36-40	İİ İİ
21-25	İİ İİ	41-45	İİ İİ
26-30	İİ İİ	45-50	İİ İİ
31-35	İİ İİ	50+	İİ İİ



Statistical significance reached!

EMA provides positive opinion!

EC grants marketing authorization!



Challenges and opportunities



Challenges and opportunities

- Funding obstacles
- End point questions
- Working with pharma
- Setting up a consortium
- Identifying and recruiting rare disease patients

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www.akusociety.org

