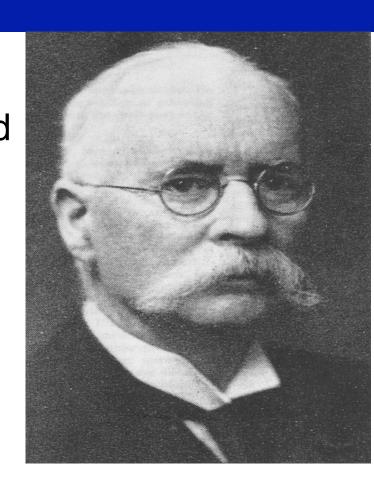
If you can't look back and you can't look forward,
You better look up!!







The Swedish Usher interdiciplinary research group





Swedish database deafblind syndromes

- Started 1988 in cooperation with BTNRH (Kimberling)
- Subcontractor NIH
- 26 years to complete !! ????
- All subjects examined by me
- 2014 460 families with Usher type 1,2 and 3
- Expected total prevalence in Sweden 600
- 200 families with other deafblind syndromes



Do I have a patient with a problem ??



khuset Örebro

Does this child have a syndrome?



Maybe there is a problem?







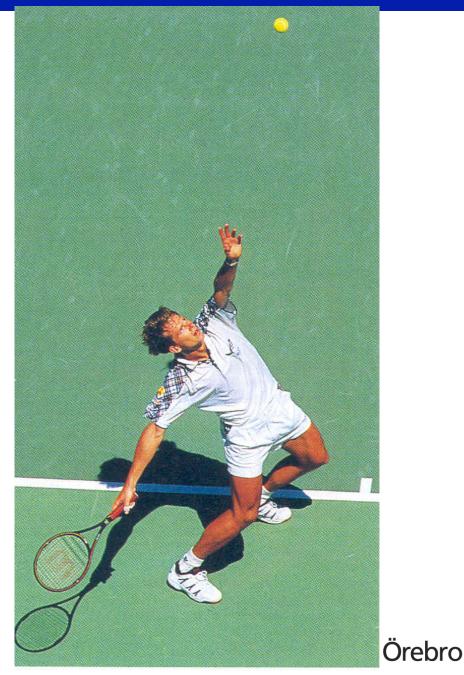
Teenage!!

I would like to be as all other young people !!!

Late diagnosis

Denial

Severe consequences



Confusion

- Why is my child deaf?
- Why is my child clumsy?
- Why has my child problems at night?
- Why don't I like gymnastics and sports?
- Why can't I have a drivers licence?
- Why can't I hear, I have good hearing?
- Why can't I go on working in the factory?
- What is Deafblindness?



How do I diagnose possible deafblindness and Usher?

- Pedigree
- Dysmorphology
- Neurology, Otolaryngology,
- Audiology
- Vision
- Balance Function
- Radiology
- Kidney
- Heart
- Tests for Viral Infections
- Genetics



Rehabilitation in children

- Examinations
- Genetics
- Information
- Shock, denial, confusion
- Crisis intervention
- Don't forget the child and relatives
- My child is not deafblind !!!, it has a combined vision hearing problem

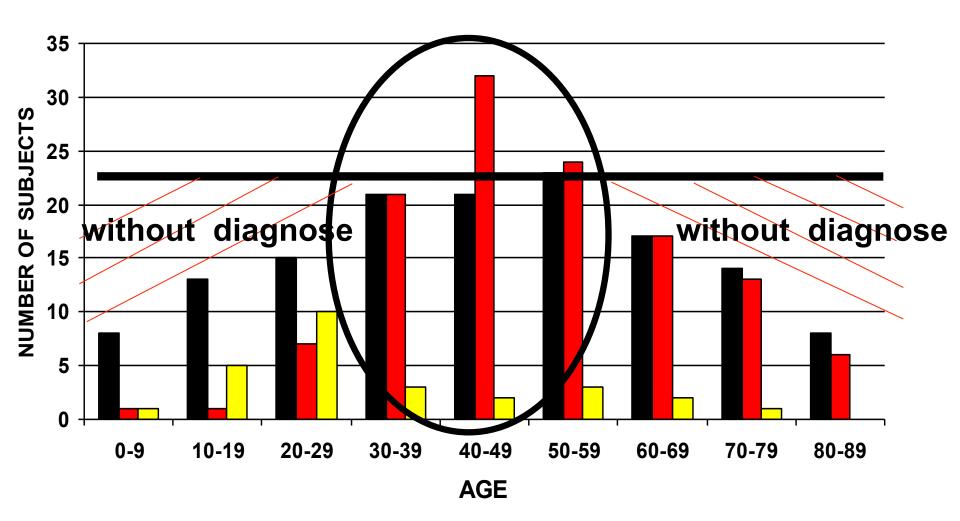


Rehabilitation in adults

- Late diagnosis
- Driver license
- "wrong occupation"
- Denial vision problems
- Severe psycho-social crisis, work, spouse, children, friends
- Subjective hearing loss
- Change of communication mode
- No cooperation









Auditory rehabilitation adults

- early correct diagnosis
- Adjust -change work task
- Close cooperation -hearing-vision
- Psychosocial intervention
- State of the art equipment, computers
- Discuss total communication, sign language, braille etc
- Vision rehab fails often, the most important
- Centralization to few clinics -teams??



Rehab in Usher II

- Hearing loss from birth
- Vision problems slow progression in childhood
- I don't know how other see!
- Difficulties in school, blaim it on the hearing loss
- Contrast, light sensitivity, night blindness
- Denial
- Career, children, family
- "this is not according to my plans"
- Acceptance, the light in the tunnel!
- Team support



Study 1

"Physical and Psychological Health among persons with Deafblindness due to Usher syndrome type 2"

(Wahlqvist et al. 2013)

Swedish National Public health questionnaire, "Health on equal terms"

HAD-scale

The aim was to describe physical and psychological health among persons with Usher type 2, and to explore if there was differences between men and women compared to a cross section of the Swedish population

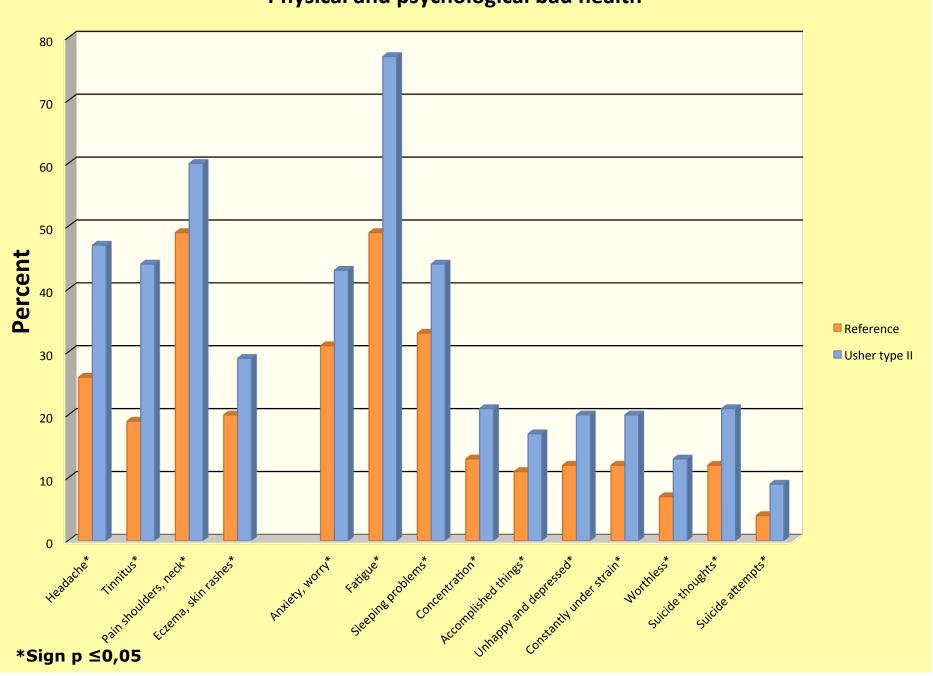


Population

	USH2	Referens
N	96	5738
Age	55	58
Age range	18-84	23-91
Females(%)	53	56
Genetic diagnosis	59%	
Pure tone average	73db	
Visual field	4 (<10°)	
Visual acuity	0,4	



Physical and psychological bad health



Study 2 USH3 (preliminary results)

The aim was to describe and analyze data on vision and hearing impairment, physical-, psychological health and social risk among persons with USH3

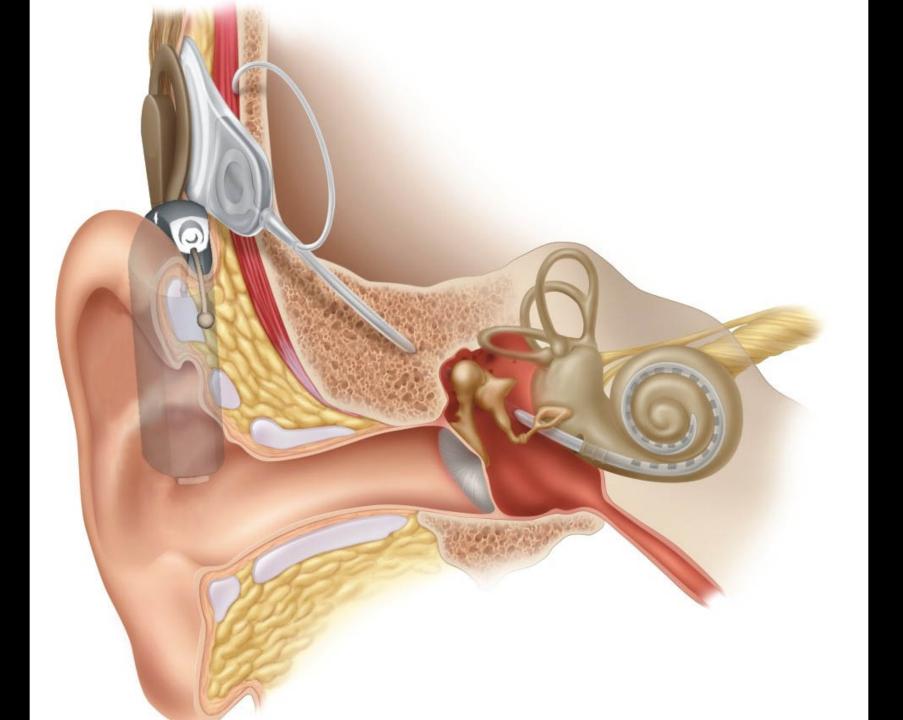
15 persons with USH3

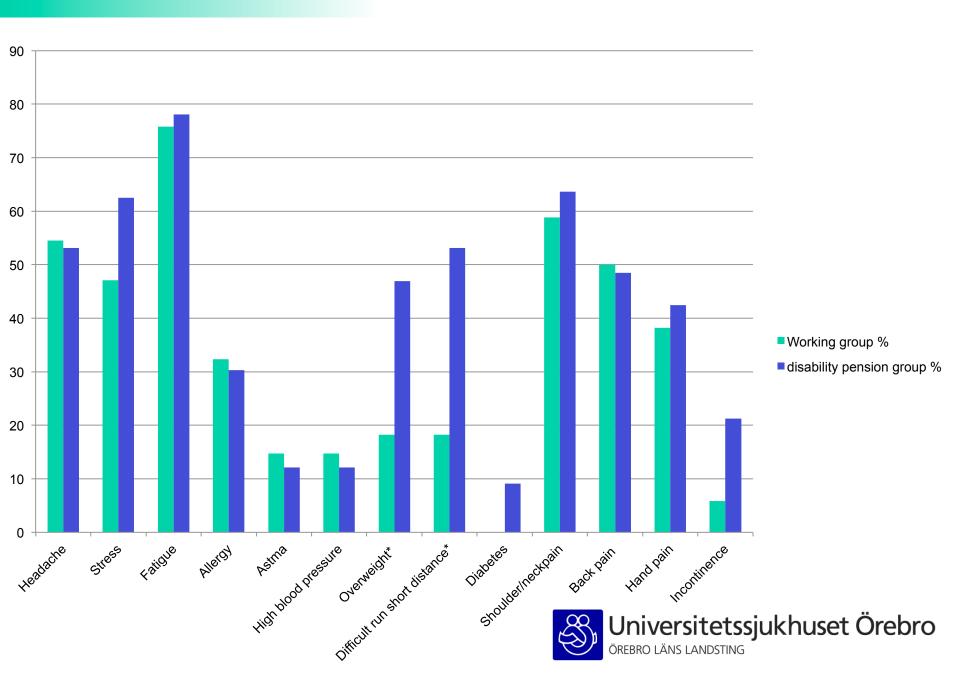
Mean age 41 years

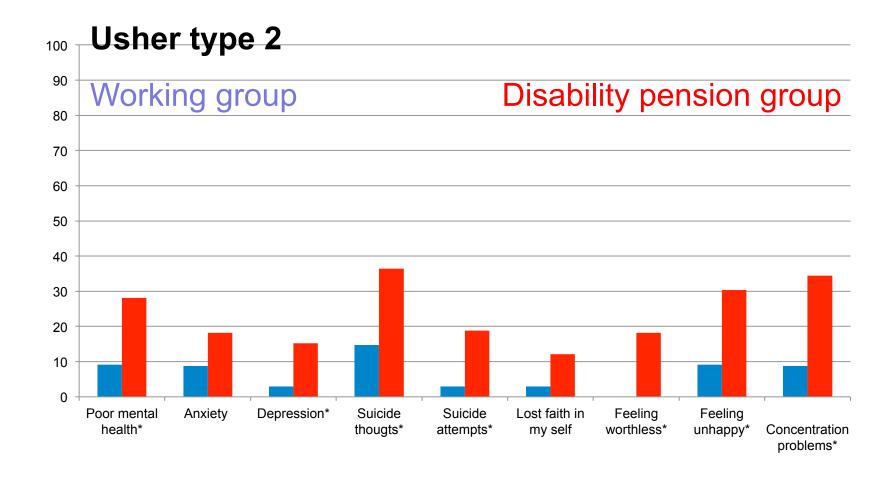
11 women and 4 men

Swedish National Public health questionnaire, "Health on equal terms", and HAD-scale

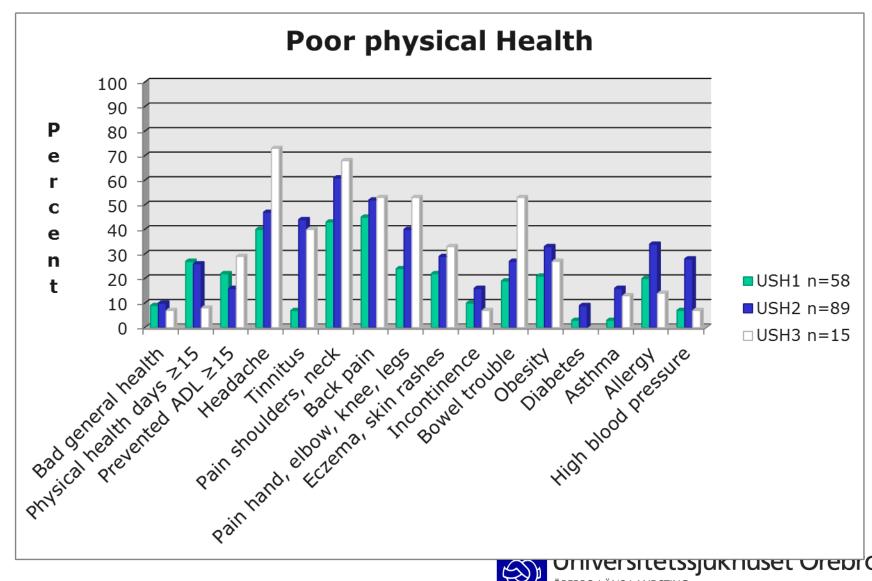
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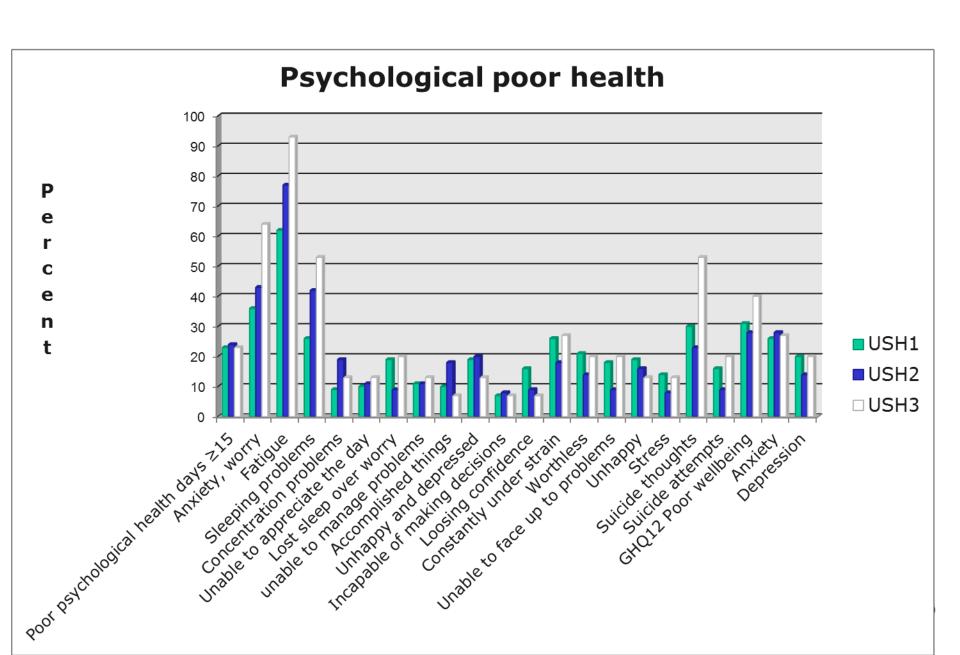








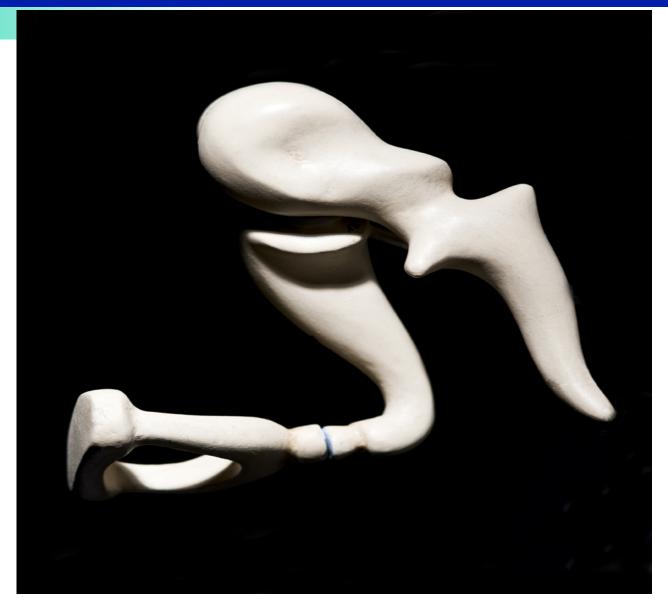




Why is it important to know the cause early?

- To get a correct diagnose
- To learn from other experiences
- To determine the prognosis of the disorder
 - Progression of hearing loss.
 - Usefulness of aids and/or cochlear implants.
 - Progression of vision loss.
 - Career planning
- Correct rehabilitation
- Treatments are expected to be specific to the cause
- Patients and family often want and need a reason for the problem.





Thank you !!!!

