Hear and Say Way: The Power of Technology for Children with a Disability

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What if?

... we could eradicate the impact of the most common disability in newborns globally?
Dimity’s impossible dream
New life ... the search continues

... for better ways to treat deafness
There are better ways ...
Innovation

... is life-changing for children with hearing loss
Nature inspires innovation ...
Natures inspires technology too
The cochlear implant

...innovation helping children with disabilities
History of the cochlear implant
Medical bionics

The Bionic Human of the Future

- Treatment of depression, stroke, anxiety, epilepsy, Parkinson's
- Spinal cord repair
- Cancer treatment
- Artificial organs
- Drug delivery
- Nerve repair
- Intelligent prosthetic limbs
- Advanced bionic ear
- Bionic eye
- Cardiac assist/Artificial heart
- Bioactive arterial stents
- Implantable sensors/diagnostics
- Neural interfaces
- Bladder control
- Joint replacements
- Artificial muscles and tendons
Hear and Say

Teaching deaf children to listen and speak since 1992

• Hear and Say Children
• Hear and Say Research & Innovation
• Hear and Say WorldWide
Hearing loss is the most common disability in new born babies.

Today it is treatable!
Unlimited possibilities

Listening, talking and reading the same as children with normal hearing
Possibilities for Children TODAY

Deaf child in 1992

• Diagnosed late
• Poor comprehension
• Unintelligible speech
• Need signing
• Poor reading + education
• Limited career
• Poverty

Deaf child today

• Converse with other intelligent people
• Hear about great ideas
• Read + learn + grow
• Optimal education
• Multiple life pathways
• Lack of poverty - empowered
‘Best Practice’ for treatment

1. Newborn Hearing Screening

2. Modern hearing technology
   - digital hearing aids and cochlear implants

3. New brain-based education
   - Auditory-Verbal Therapy
Bionic ear meets Internet

Prof Graeme Clark meets Dr Vinton Cerf
Making a global impact

Hear and Say WorldWide

Training Hearing Professionals
In countries like...

- China
- Samoa
- India
- Thailand
- Sri Lanka
- Papua New Guinea
- Australia
- Mexico
- United Arab Emirates
- Germany
- Nigeria
- Pacific Islands
- Russia
- Malaysia
- East Timor
World-class expertise to share
Meeting growing global demand

Listening and Spoken Language for Children with Hearing Loss
The challenges

- Significant impact of hearing loss
- Geographic distance
- Challenges of new technology
- Lack of education for professionals
- Isolation for children and families
- Outcome of poverty
Available to ALL via the internet
So what can we do .......... for the world’s children?

• Newborn hearing screening
• Digital hearing aids
• Auditory-Verbal Therapy
• Train towards using cochlear implants
Changing children’s lives

WorldWide

by teaching them to:

hear and speak
Hear and Say WorldWide projects
Sharing our ‘secrets to success’

- Partnerships
- Technology

Global Professional Training Program

of

The Hear and Say Centre
Brisbane, Australia

Prof Nian-Shing Chen & Mr Laurence Quinlivan
How Hear and Say uses technology

• **Diagnosis**
  – Teleaudiology
    ✓ Newborn Hearing Screening
    ✓ Audiograms
    ✓ Teleaudiology

• **Treatment**
  – Telemedicine
  – Telemapping

• **Professional work and training**
  – Professional development in-house
  – Management and meeting tool
  – International training
Changing children’s lives
Listening and speaking - birth right of every child
A pathway to peace

...via the Internet
Embrace the power of technology to help children with disabilities
THANK YOU!

Contact Dimity
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