



# Cochlear Implant Program In Nepal



## CoIN e.V. support



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- Diverse geography
- Terai plains, 60 mitre from sea level to the highest point on the earth, the Mount Everest, 8848 mitre.
- A multi-ethnic, multi-lingual, multi-religious and multi-cultural
- Kathmandu, situated at around 1400 metres above sea level, is the capital.
- Progress in poverty reduction: around 9% of the population is still below the international poverty line (US\$1.90 per person per day)
- Almost 32% of the population living on between US\$ 1.90 and US\$3.20 per person per day.



## Nepal







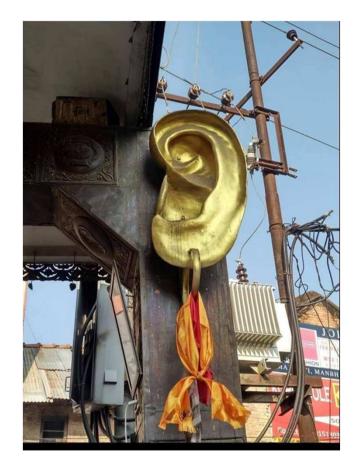


























































# Cl Program in Nepal

• Started in 2004



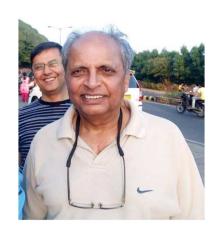








# Pioneer in Nepal

















### Protocol of Cl in Nepal

- Clinical history and clinical examination
- Audiological Investigation
- Radiological Investigation
- Pre-operative Hearing aid use
- Psychological Assessment
- Pre-implant counselling and therapy

- Order for implant
- Paediatric consuktation And Immunization
- Surgery
- Switch on and mapping
- Speech Therapy / Habilitation
- Regular follow up and mapping







## Cost of CI program in Nepal

S. No	Title	Cost in NPR	Cost in EURO	
1	Cost of preoperative investigations	60,000.00	420.00	
2	Pre-operative vaccination	15,000.00	105.00	
3	Cost of Implant	10,50,000.00 to 28,50,000.00	7300- 19,800 (12,150)	Prefer 3T MRI comp
4	Cost of operation (including hospital charges and Medication)	1,20,000.00	835	
5	Cost for switch on and mapping for one year	50,000.00	350	
6	Cost for Speech Therapy for one year	80,000.00	555	



Maintenance cost: 50,000.00 (350)

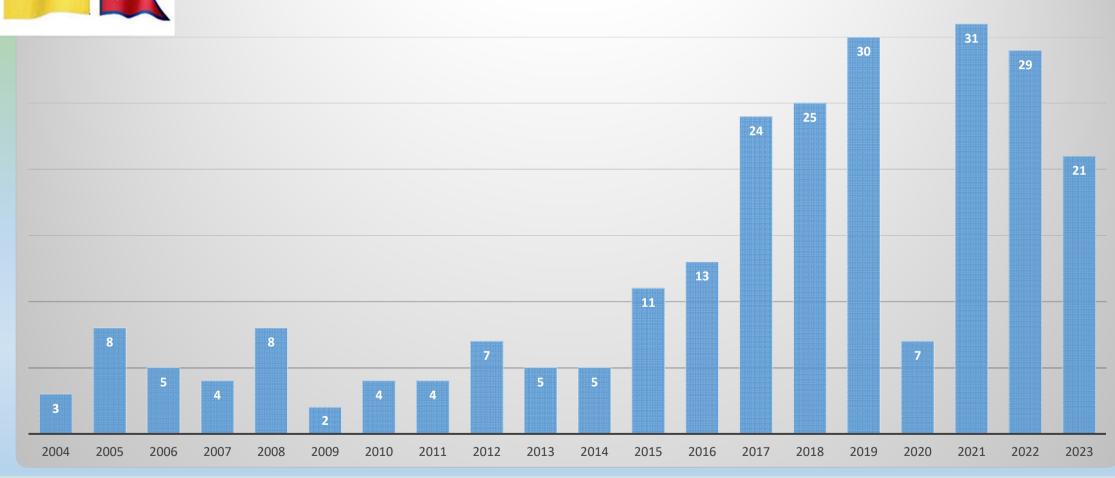
Total cost= Minimum 20,60,000 (14,300)

Nepal Government is providing NPR. 6,50,000.00 (4,500) per case





### **Number of CI Surgery in Nepal**





### Cochlear Implant Nepal Group (CING)

- Non-Governmental Organization (NGO)
- Involving related specialists such as ENT surgeons, Audiologists, Speech-language pathologists, Radiologists, Child Psychologist, Pediatricians, Anesthesiologists and Nursing staffs.
- Officially registered with Nepal Government on April 12, 2013.
- Partner with ColN e.v., Germany



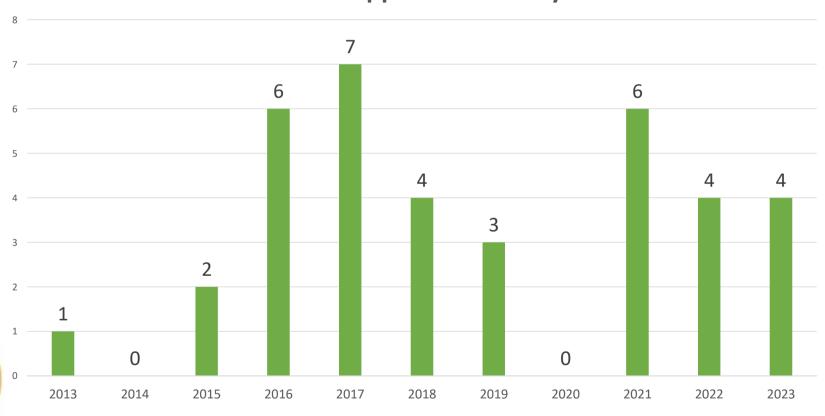






## ► Number of CoIN supported CI (n=37)

### Number of Children supported for CI by CoIN via CING



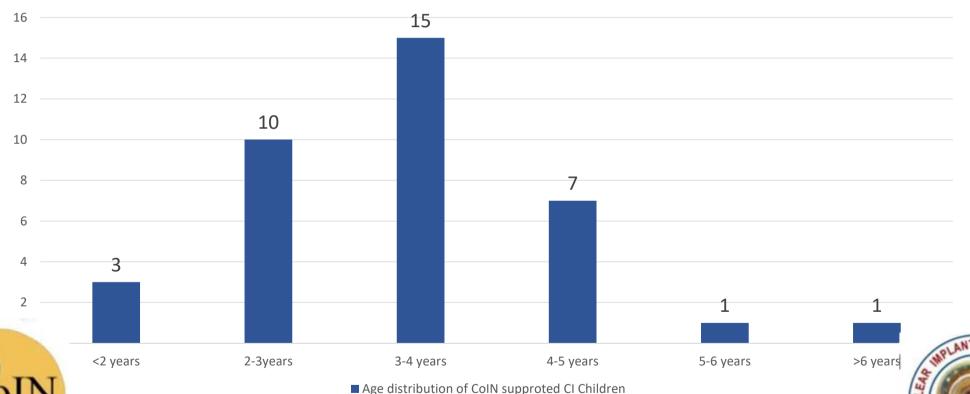






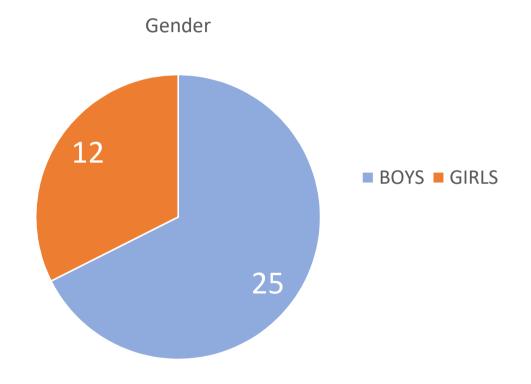
### Number of CoIN supported CI (n=37) Age Distribution

### Age distribution of CoIN supproted CI Children





# Number of CoIN supported CI (n=37) Gender Distribution









# CI Program in Nepal

S. No.	Name	Date of birth	Date of Surgery	Remarks	
1.	Binayak Ghimire	10/10/2010	28/01/2013	Doing good	
2.	Vivek Joshi	29/06/2011	19/01/2015	Excellent	
3.	Meshika Sah	25/12/2012	16/02/2015	Excellent	
4.	AabaranTandukar	28/02/2012	22/02/2016	Doing Good	
5.	Bimarsh Shrestha	05/09/2012	21/03/2016	Doing Good	
				Multiple problem	
6.	Sidhanta Chaudhary	04/11/2012	18/04/2016	Doing Very Good	
7.	Naina Jha	26/01/2013	30/05/2016	Doing Good	
8.	Bikranta Chalise	11/06/2014	29/08/2016	Doing Good	
				Autism	
9.	Pawal Mijar	10/10/2013	05/09/2016	Excellent	
10.	Yubraj Gurung	24/12/2011	06/02/2017	Out of Contact	
11.	Ritik Lama	14/11/2013	03/04/2017	Doing Very Good	
12.	Jenny Sanjel	01/01/2013	22/05/2017	Excellent	
13.	Jossan Sainju	26/01/015	10/06/2017	Doing Good	
14.	Aarushi Singh	16/07/2015	12/08/2017	Doing very Good	
15.	Ashmita Chaudhry	08/12/2008	18/09/2017	Excellent	





# CI Program in Nepal

S. No.	Name	Date of birth	Date of Surgery	Remarks
16.	Manyata Pokharel	10/05/2012	18/09/2017	Excellent
17.	Shubhangi Thapa	20/2/2014	17/9/2018	Excellent
18.	Samar Shrestha	09/02/2014	06/10/2018	Doing Very Good
19.	Namisha Magar	18/07/2013	12/11/2018	Implant Broken due to
				trauma
20.	Uman Chaudhary	29/10/2016	12/11/2018	Doing Very Good
21.	Sujib Shyamaju	01/11/2015	20/03/2019	Doing Very Good
22.	Darshan Gupta	04/10/2016	13/04/2019	Doing Very Good
23.	Aayan Khatri	08/08/2016	20/06/2019	Doing Good
24.	Aaron Subedi	14/04/2017	28/06/2021	Doing Very Good
25.	Samragi Khadka	30/04/2017	13/09/2021	Doing Good
26.	Prateek Kumar	20/05/2020	20/09/2021	Doing Good
27.	Pranish Bhandari	21/06/2018	27/09/2021	Doing fairly Good
				developed autism
28.	Roshish Rai	21/12/2017	04/10/2021	Doing Good
29.	Niraj Chauhan	30/10/2019	22/11/2021	Doing very good







# CI Program in Nepal

S. No.	Name	Date of birth	Date of Surgery	Remarks
30	Diya Shrestha	20/07/2020	14/02/2022	Doing good
				Autism
31	Laxmi Prasad Nepali	07/11/2018	06/06/2022	Improving signigicantly
32	Soyam Gharti Magar	15/01/2019	11/07/2022	Average improving
33	Prakriti Bhattarai	15/05/2019	20/06/2022	Doing good
34	Romeo BC	04/06/2018	16/012023	will come next month
35	Kevin Sunar	23/07/2021	01/05/2023	Recently operated / switch on
36	Aryan Yadav	27/09/2019	15/05/2023	Recently operated /switch on
37	Sagun Bogati	04/10/2019	01/06/2023	Recently operated / switch on









## BIBEK JOSHI 19/01/2015









### MESHIKA SHAH 16/02/2015









## Jenny Sanjel 22/05/2017









### Darshan Gupta 13/04/2019









## Manyata Pokharel 18/09/2017 (22/09/2022)









### Prakriti Bhattrarai 20/06/2022









### Neeraj Chauhan 22/11/2021









### Praniash Bhandari 27/09/2021









## Sagun Bogati 27/09/2021













































## Aims and objectives of CING

- To increase the awareness of Importance of hearing
- To provide the solution available to get hearing back in people having Hard of Hearing or no hearing
- To increase awareness of cochlear implant among medical professional
- To provide cochlear implant related training to related specialties and support for CI candidates.



### Activities of CING

- CING is providing hearing aid in very low cost as loaner to use before CI
- Almost 50% cost for the CI is being covered by CING with the financial support from CoIN e.v. for 5-6 children per year
- Providing full surgical costs in revision surgeries, if CI users' Implant got failed due to some reason.
- Conducting awareness programs via camps and celebrating
   World Hearing day every year.



#### Activities of CING

- Donated one set of instrument for neonatal hearing screening and supporting universal neonatal hearing screening program at TU Teaching hospital, Kathmandu.
- Conducted CI Advocacy program in collaboration with Nepal Government, Ministry of Health and Population in 2019.
- Conducting CME, workshops and conferences related to implantable hearing solutions.
- From 2013 to 2023, CoIN e.v. has supported for 37 children for cochlear implant surgery







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जडान गर्न अत्यन्त सजिलो

डा. रविन्द्रभक्त प्रधानाङ्ग





प्रोसेसर सम्म पुन्छ । स्थिय प्रोसेसरङे विभिन्न ध्यति शक्तिलाई विमाजित गरी मित्र जडान गरिएको ब्रिमिन कारणहे कान कम युन्ने हुन सरक । जसके उपकारकट युन्ने शिकि पुन प्रच्य गराउन सक्रिक । तर, कानको निज्ञी कारमा समस्या मई पूरे (१६) को प्रयोगकट सुने समस्या समाधान हुँदैन । सुन्ने नसस्ये व्यक्तिशद्धे सुन्न सस्ये बनाउन नवी-नवी प्रविधि आदिस्तार नएका छन् । दिमिन्न म्मिन प्रतिमिन्द्रों सुन्न नसक्ने व्यक्तिला हाने भएमा साधारण उपचार वा मेरिन (हिप्परिड ान सक्ते बनाउने संसारमा अत्याधिक प्रयोग

'कक्लियर ईम्प्लान्ट अर्थात श्रवण अपांगता माथि विजय'

डा. रविन्द्रभक्त प्रधानाम

. स्वास्थ्य समाचार छातार सीन्दर्व आबुद्देद औषधी सर्ते रोग नस्तों रोग मैर स्वास्थ्य समाचार भिष्ठियो लेख/रचना/अनसवाती

आएको यन्त्र हो, कवितयर इम्प्लान्ट । कवित्रयर इम्प्लान्ट मानव कानके जब्दे तुनाइको काम मने एक आधुनिक यन

कुने कारण विमा पनि एककासी निती कारले काम गर्ग छोन्छ। पंसरलेंद्र धार्यकात कारणांत्रधावा heating loss मीरण्य। यस किस्मिय सारया एकारी सम्मोदनों हो र सरिताम ग्रुकनी एपबार हुक र त्यसका उपचार कान कम सुन्ने कारण जर्मने जनमके अंतो, नत्ते, जराने मां भूषा पर विदेशका प्रतास कर्म भूषा पर विदेशका पुरा बंधा पूर्व का पूर्व सर्वात पूर्व मां पुरा बच्चा पुरा का पुरा इ.स. कराने सरकार हुए, कराको मां भूषा प्रतास कराने कराने मां भूषा पुरा कराने कराने मां भूषा पुरा कराने कराने कराने मां पुरा हुए। तम्म पालक कराने मां पुरा हुए। तम्म कराने कराने मां पुरा हुए। तम्म कराने कराने मां पुरा हुए। तम्म कराने कराने कराने मां पुरा हुए। तम्म पालक विद्यालका मां पुरा हुए। तम्म पालक विद्यालका क्षितिमको जुनाई कम हुन्छ। जग्न प्रतिकत गुणाँचिति कारावे कम ग्रेन तरको पर्य दुनाई कम हुन्च अवस्थाताई मध्यत्रात्त्र अन्तिन । क्षित्रपार्थ कारावे ग्रान प्रति अवस्थाताई कारावे ग्रान पुणिसकोत्त छ भीर प्राप्तिल पुण था सेनसरी न्यूरल हिन्नरिम लस जन्मजात कान गमुन्ने कारणनन्ता प्र मनव जातिके कान पुन्न कम जरू के कस्ता कारणके हुन सक्क भनी यही प्रन्य मने योजिएको छ। क गामा बोद्या स्थापना कुर गामा बोदा संदेश स्वेश संदेश संदेश संदेश संदेश संदेश स्वेश स काल कम चुल्ले एकरवा तील किरिनका) तुख्य । १) कन्द्रीयम दिव्योग रूस २) सेन्सरी जुरुर दिवयिग रूस 3) निश्म दिवयिग रूस व कडडिटन दिवसिम लस कानमा परेको आवाजकाई मित्री कानसम्म पुन्याउने माध्यम (बाटी)

सरिकन्छ । करिकास इन्यान्ट मत्वरिक्ता संत वर्षको उपेरसम्बद्धा अगाडि गरिएमा संत्री विकस सत्तो कुन्छ । ६-७ वर्षको उपेरसम्ममा दिनान्त्रा नदी दिकास गर्ने क्षमता गुमाइस्पर्केको कुन्नो ६-०

हारणबाट सुनाइ माहि कम मए हिंग

हेल्य हि.

 सामान्य सुनाइ भएर बोलीका
 कास भएपछि बहिरो भएको छण्डना कि गरे पनि बोलीको विकास राम्रो हुन सक्दैन

हो । मेनिनजाइटिस भएर कान नसुने नि हुन्छ । दिलो मएमा शत्यित्रेया

स्टाइन्छ । यसरी आएका ध्वनि शति भित्र

इसेक्ट्रोडहरूसम्म पुग्छ । त्यहाँबाट यी वियुतीय

गाले गाउँ । यसरी कविलयर इम्लान्टर

गरेद युग्न सक्ने बनाउन सक्रिक र केश्रेज विकासको तालिम दिएर भणको विकास क



## डा. रवीन्द्रभक्त जसले फर्काए एक सय ४० जनाको सुन्ने शक्ति





कानको खराब महसकेको भित्री भाग कक्षिरय बाइपास गरी आवाजलाई दिमागसम्म प्रचार्ट

नि उपेन्द्र खड़का

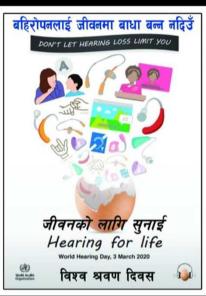












## विश्व श्रवण दिवस २०२०

श्रवण परीक्षण उपकरण (OAE/AABR Screener) हस्तान्तरण तथा

नवजात शिशु श्रवण परीक्षण कार्यक्रम

(Universal Neonatal Hearing Screening Program) ভুৱেঘাত্তৰ

March 3<sup>rd</sup> 2020 (२०७६ फाल्गुण २० गते)

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