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| **Supplementary Table 1** Cost Parameters in Each Stage | | |
| Unit Costs | Value(¥) | Resources |
| Initial screening per infant(CIS) | 40.00a | Shanghai Municipal Commission of Health and Family planning. http://www.wsjsw.gov.cn/wsj/ |
| Re-screening per infant (CRS) | 40.00 | Shanghai Municipal Commission of Health and Family planning. http://www.wsjsw.gov.cn/wsj/ |
| Diagnostic testingb(CDT) |  |  |
| Checks | 270.00 | Shanghai Municipal Commission of Health and Family planning. http://www.wsjsw.gov.cn/wsj/ |
| Lost wage of parents | Per capita wage for the day | Shanghai Statistical Network  http://www.stats-sh.gov.cn |
| Travelc | Standard of travel costs for the year | Our previously study |
| Medical intervention per year(CMI) |  |  |
| 1. Hearing aids |  |  |
| Hearing tests per year | 100.00 | Shanghai Disabled Person’s Federation  http://www.shdisabled.gov.cn |
| Sound-field tests per year | 200.00 |
| Ear mold making per year | 260.00 |
| Hearing aid replacement per five yearsd |  |
| Calibration | 100.00 |
| Batteries of hearing aids | 300.00 |
| B .Cochlear implants |  |  |
| Checks, install, and adjustment | 12,000.00 | Shanghai Disabled Person’s Federation  http://www.shdisabled.gov.cn |
| Cochlear | 118,000.00 |
| Hearing tests per year | 100.00 |
| Sound-field tests per year | 200.00 |
| Calibration per year | 240.00 |
| Batteries of cochlear per year | 912.50 |
| Language training (CRT) |  |  |
| A. For children with mild-to-severe hearing loss per year |  |  |
| Children under 3 years of age e | 12,960.00 | Shanghai Disabled Person’s Federation  http://www.shdisabled.gov.cn |
| Children at 4-6 years of agef | 14,400.00 |
| B. For children with profound hearing loss |  |  |
| Children under 3 years of age | 10,000.00 | Shanghai Disabled Person’s Federation  http://www.shdisabled.gov.cn |
| Children at 4-6 years of age | 14,400.00 |
| a. Fixed variable  b.Babies failing the re-screening undergo repeat diagnoses at 3 months or 6 months. Total average cost was ¥270. It took half a day for one diagnosis.  c. This was averaged at ¥50 every time in 2002, and the following-up after 2012 was calculated according to the rate of inflation.  d. This value reflects the need of ¥7,000 to purchase a hearing-aid and assumes that one baby with mild-to-severe hearing loss needs two installed and replaced per five years.  e. Unit cost of language training was ¥90 for each child at 3 years old and below. The annual cost was ¥12,960 if the child was accepted 12 times every month.  f. The unit cost of language training was ¥60 for each child at 4-6 years of age. The annual cost was ¥14,400 if the child was accepted 20 times every month.  \*IS=Initial Screening RS=Rescreening DT=Diagnosis Test MI=Medical Intervention RT=Rehabilitation training | | |

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| **Supplementary Table 2** Benefit parameters in Each Stage | | |
| Unit benefits | Values(¥) | Resources |
| Benefit due to diagnostic testa(BDS) |  |  |
| Check Savings | 1080.00 | Shanghai Municipal Commission of Health and Family planning. http://www.wsjsw.gov.cn/wsj/ |
| Lost Wages | Per capita wage for the day | Shanghai Statistical Network  http://www.stats-sh.gov.cn |
| Travel savings | Standard of travel costs for the year | Our previously study |
| Savings due to inclusive educationb(BES) |  |  |
| (1) In primary school | The difference of education fees between the hearing-loss students and the general pupils this year | Shanghai Municipal Education Commission. http://www.shmec.gov.cn |
| (2) In junior/middle school | The difference of education fees between the hearing-loss students and the general students this year |
| Annual avoided loss due to workc(BW) | The difference between the average wage and the minimum wage this year | Shanghai Statistical Network  http://www.stats-sh.gov.cn |
| a. According to our previous study , parents will accept the truth that their babies have a hearing-loss after four checkups. So charges of checks, lost wages and travel fees will be calculated as part of the benefits for undergoing the program.  b. & c. The discount rate was 3% in 2002-2012 and 5% after 2012.  \*DS=Diagnosis Savings ES=Education Savings W=Work | | |

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| **Supplementary Table 3** Stakeholders Participating in the Qualitative Interview | | | |
| Stages | Parents (n) | Health care providers (n) | Educators (n) |
| Initial screening | 128 | 10 | - |
| Re-screening | 44 | 6 | - |
| Diagnosis | 38 | 6 | - |
| Rehabilitation training | 20 | - | 6 |
| Education | - | - | 28 |
| Total | 230 | 22 | 34 |

