

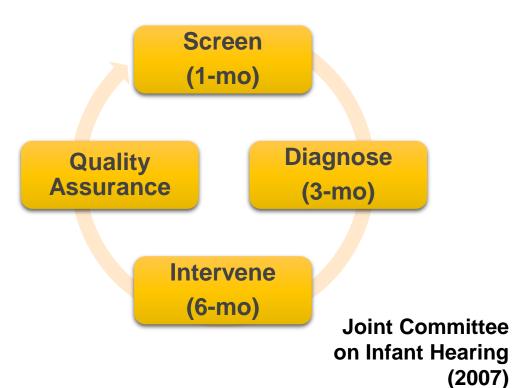


GOAL:
BEST POSSIBLE OUTCOMES FOR CHILDREN WITH HEARING LOSS



CONCEPTUAL FRAMEWORK:

EARLY HEARING LOSS DETECTION & INTERVENTION





QUALITY ASSURANCE & BENCHMARK INDICATORS of INFANT HEARING SCREENING

QUALITY ASSURANCE

"Quality assurance issues in particular are vital to successful newborn and infant hearing screening and related interventions" (WHO, 2009).

"Timely and accurate monitoring of relevant quality measures is essential." (JCIH, 2007)



Joint committe of infant hearing screening – JCIH – first statement 1971

American Academy of Ofthalmology and Otolaryngology, American Academy of Pediatrics, American Academy of Speech and Hearing

First statement 1971

"About the need to identify hearing impairment as early in life as possible."

BENCHMARKS indicators (JCIH, 2007)

- Percentage of infants who complete screening by 1-month of age: >95%
- 2. Percentage of infants who fail screening and are referred for audiological assessment: <4%
- 3. Identification of HI < 1 month of age
- 4. Audiological and medical evaluation < 3 months of age
- 5. Intervention services < 6 months of age



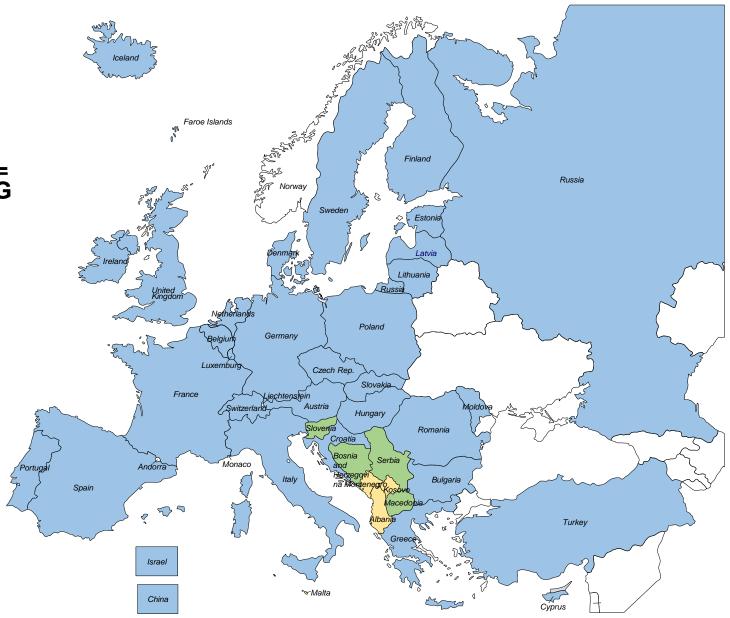
IS THERE A NATIONAL OR REGIONAL GUIDELINE FOR NEONATAL HEARING SCREENING (NHS)?

YES

NO

NO NHS PROGRAMME

UNKNOWN





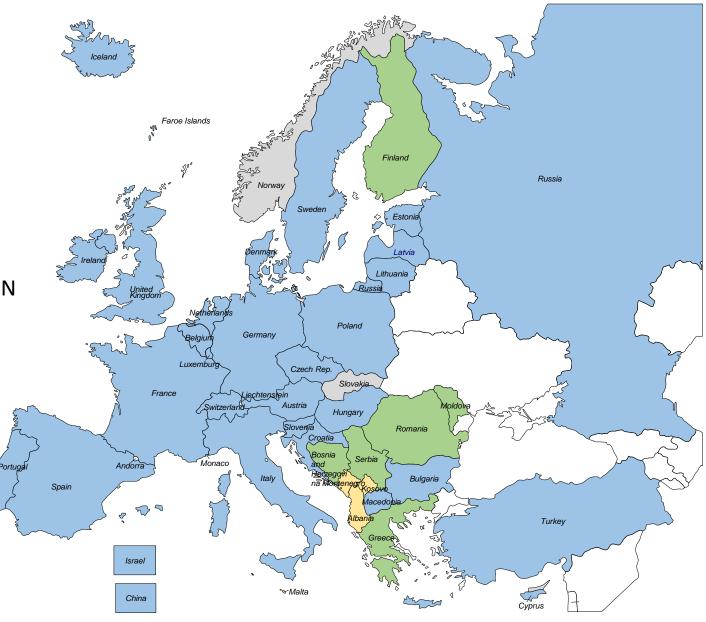
IS THE SAME PROTOCOL FOR NHS IS PERFORMED...

ACROSS THE ENTIRE COUNTRY / REGION

ONLY LOCALLY

NO NHS PROGRAMME

UNKNOWN





IS QUALITY ASSURANCE IMPOSED FOR NHS?







10 countries / regions have quality assurance imposed





ARE OUTCOME MEASURES COLLECTED FOR NHS?

YES (COUNTRY)

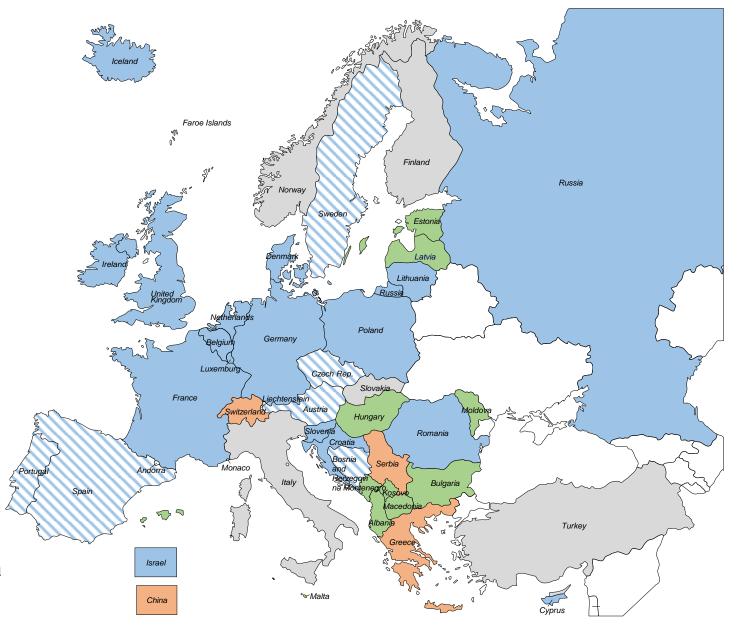
YES (REGION)

ONLY LOCALLY (SOME HOSPITALS)

NO

UNKNOWN

- 26 countries / regions report collecting outcome data to evaluate their NHS
- 4 countries collect data only locally
- 5 countries with NHS do not collect data





REPORTING PERFORMED?

ANNUALLY

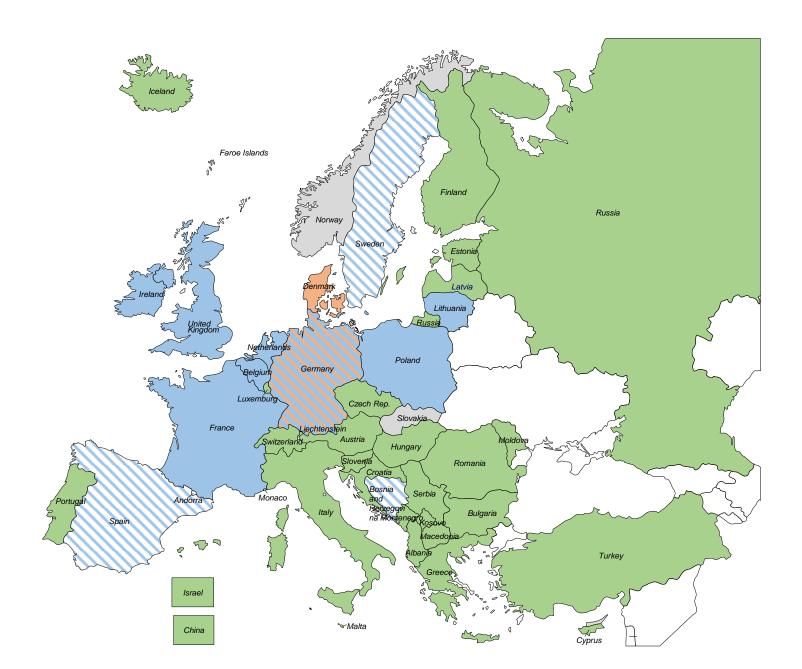
ANNUALLY (REGION)

NOT ANNUALLY

NO

UNKNOWN

14 countries / regions report on the outcomes of their NHS programme



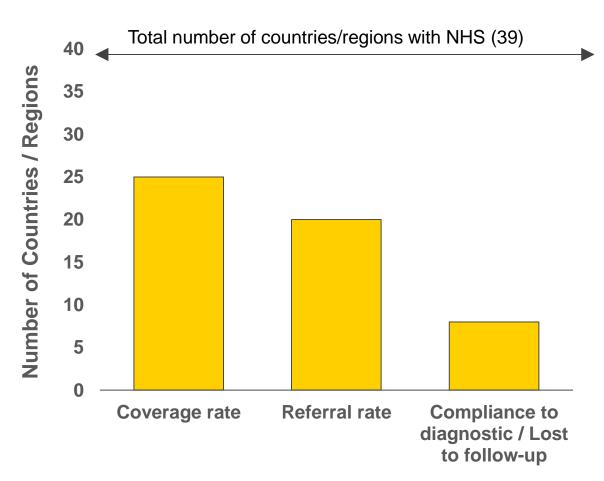


BENCHMARK INDICATORS IN QUESTIONNAIRE

- coverage rates
- referral rates
- compliance rates
- Answers included:
 - From real data / calculations
 - Collected from NHS programme
 - Large sample size

26 / 39 countries or regions could provide at least one benchmark indicator

7 / 39 countries or regions could provide all 3 benchmark indicators





BENCHMARK INDICATORS

| Definition of COMPLIANCE RATE | # of countries or regions |
|---|---------------------------|
| # of infants that attend the diagnostic assessment out of the # of infants referred | 8 |
| Total | 8 |



BENCHMARK INDICATORS – COVERAGE RATE

Infants initially screened of all eligible newborns

Infants that complete all screening steps of all newborns

Initially screened not counting refusals

Screened when born in maternity hospitals

Screened within 30 days

Registered in a database for screening



BENCHMARK INDICATORS – REFERRAL RATE

Step 1: Initially screened of all eligible newborns

All infants from step 1 referred for diagnostic assessment

Infants referred at discharge from birth clinic

infants referred at each
 step out of # infants
 screened at that step.

Then % step 1 x % step 2 x % step 3

Unknown



QUALITY ASSURANCE & BENCHMARK INDICATORS IN SCREENING PROGRAMS IS ESSENTIAL to ASSIST HEALTHCARE PROVIDERS AND POLICY MAKERS TO INCREASE EFFECTIVENESS; EFFICIENCY AND EQUITY OF CHILD HEALTHCARE