



With representatives from:
The Spanish Association of Paediatrics,
The Spanish Society of Otolaryngology
and FIAPAS
(codepeh@gmail.com)



SPANISH MINISTRY OF HEALTH, CONSUMER AFFAIRS AND SOCIAL WELFARE
ROYAL BOARD ON DISABILITY



THE SPANISH CONFEDERATION OF
FAMILIES OF DEAF PEOPLE (FIAPAS)
PROMOTING INCLUSION, SUPPORTING PEOPLE, ADVANCING TOGETHER.

Pantoja, 5 (Local) - 28002 Madrid
Tel.: 91 576 51 49 - Fax: 91 576 57 46
Telesor Service
fiapas@fiapas.es - www.fiapas.es



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The confederated entities in FIAPAS offer answers to the needs of families with deaf children

ANDALUSIA (AUTONOMOUS COMMUNITY OF)

FAPAS (ANDALUSIAN FEDERATION OF FAMILIES OF DEAF PEOPLE)
Avda. de Hytasa, 12-3ª Plta.
Oficina 305
41006 Seville
Tel.: 95 409 52 73

ASPASA-ALMERIA
Carrera Limoneros, 15
04006 Almería
Tel.-Fax: 950 24 47 90

ASPAS-CORDOBA
Pza. de la Magdalena, 3
14002 Cordoba
Tel.: 957 76 48 68
Fax: 957 43 73 82

ASPRODES-GRANADA
Alcalá de Henares, 10- Local-Bajo
18008 Granada
Tel.-Fax: 958 22 20 82

ASPRODESORDOS-HUELVA
Pº de las Palmeras, 23
Portal A-B Piso 1º A Izda.
21002 Huelva
Tel.-Fax: 959 26 22 90

AFAS-JAEN
Pintor Zabaleta, 7 sótano Izda.
23008 Jaen
Tel.: 953 08 84 82

ASPANSOR-MALAGA
Altozano, 13-Bajo
29013 Malaga
Tel.-Fax: 95 265 17 31

ASPAS-SEVILLE
Pedro Pecador, Bq. 14
2 ACC. A-B
41006 Seville
Tel.-Fax: 95 493 28 24

ARAGON (AUTONOMOUS COMMUNITY OF)

FAAPAS (ARAGONESE FEDERATION OF ASSOCIATIONS OF PARENTS, AFFECTED PERSONS AND FRIENDS OF THE DEAF)
Ramón J. Sender, 9 Posterior
22005 Huesca
Tel.-Fax: 974 22 77 83

"SAN FRANCISCO DE SALES" ASSOCIATION OF DEAF PEOPLE OF HUESCA

Ramón J. Sender, 9 Post.
22005 Huesca
Tel.-Fax: 974 22 77 83

ATPANSOR-TERUEL
Yagüe de Salas, 16-3ª Plta.
44001 Teruel
Tel.-Fax: 978 61 03 23

ASPANSOR-ZARAGOZA
Vasconia, 6-Ppal. Izda.
50006 Zaragoza
Tel.-Fax: 976 25 50 00

ASTURIAS (PRINCIPALITY OF)

APADA-ASTURIAS
Centro Social de Otero
Parque Ave María, s/n
33008 Oviedo (Asturias)
Tel.-Fax: 98 522 88 61

BALEARIC ISLANDS (AUTONOMOUS COMMUNITY OF)

FUNDACIÓN ASPAS
Ramón Nadal, 4-Bajos
07010 Palma de Mallorca (Mallorca)
Tel.: 971 45 81 50
Fax: 971 28 07 86

CANARY ISLANDS (AUTONOMOUS COMMUNITY OF)

FUNCASOR TENERIFE
Ctra. Gral. La Laguna-Punta Hidalgo, Km. 8.1
38280 Tegueste (S/C Tenerife)
Tel.: 922 54 40 52
Fax: 922 54 69 76

HEADQUARTERS IN LAS PALMAS
Centro Fátima
Antonio Machado Viglietti, 1
39005 Las Palmas de Gran Canaria (Gran Canaria)
Tel.-Fax: 928 23 32 89

CASTILE-LA MANCHA (AUTONOMOUS COMMUNITY OF)

FAPAS (FEDERATION OF ASSOCIATIONS OF PARENTS AND FRIENDS OF DEAF PEOPLE OF CASTILE-LA MANCHA)
Avda. General Villalba, s/n
Pabellón 4
45003 Toledo
Tel.: 925 71 33 56
691 40 12 43
Fax: 925 22 62 40

ASPAS-ALBACETE
Doctor Fleming, 12-3rd Plta.
02004 Albacete
Tel.: 967 55 89 12
Fax: 967 55 89 23

ASPAS-CIUDAD REAL
Residencial Ronda, Bq. 6
Semisótano
13004 Ciudad Real
Tel.: 926 22 00 95
Tel.-Fax: 926 22 85 58

ASPAS-CUENCA
Parque San Julián, 10. Bajo
(Centro CELEO)
16001 Cuenca
Tel.: 608 393 099

APANDAGU-GUADALAJARA
Centro San José
Atienza, 4
19003 Guadalajara
Tel.: 949 22 14 49
655 670 327

APANDAPT-TOLEDO
Avda. General Villalba, s/n
Pabellón 4
45003 Toledo
Tel.: 925 22 46 93
Fax: 925 22 62 40

CASTILE-LEON (AUTONOMOUS COMMUNITY OF)

ARANS-BUR-BURGOS
Centro Mª Cristina
Fuente Lugarejos, 5
09001 Burgos
Tel.: 947 46 05 40
Fax: 947 46 11 30

ASFAS-LEON
(Edificio Juzgados)
La sierra, s/n
24193 Villaquilambre (León)
Tel. 665 66 55 25

ASPAS-SALAMANCA
Barco, 20-Bajo
(Barrio de La Vega)
37008 Salamanca
Tel.-Fax: 923 21 55 09

ASPAS-VALLADOLID
Ecuador, 17-Local
47014 Valladolid
Tel.-Fax: 983 39 53 08

CATALONIA (AUTONOMOUS COMMUNITY OF)

FEDERACIÓN ACAPPS (FEDERATION OF CATALAN ASSOCIATIONS OF PARENTS AND DEAF PEOPLE)
Providència, 42-4ª-2ª
08024 Barcelona
Tel.: 93 210 86 27
Tel.-Fax: 93 210 55 30

ACAPPS-BARCELONA
Providència, 42-4ª-2ª
08024 Barcelona
Tel.-Fax: 93 210 55 30

ACAPPS-LLEIDA
Afores-Camí de Vilasana, 10
25230 Mollerussa (Lérida)
Tel.: 685 801 973

VALENCIAN COMMUNITY

HELIX-C.V. (FEDERATION OF ASSOCIATIONS FOR THE INTEGRATION OF DEAF PEOPLE IN THE VALENCIAN COMMUNITY)
Barón de Cárcer, 48-11º B
46001 Valencia
Tel.: 96 391 94 63

APANAH-ELDA
Casa La Farola
Avda. Reina Victoria, 5
03600 Elda (Alicante)
Tel.: 96 698 22 49
Tel.-Fax: 96 698 07 14

APANAS-ASPE
Avda. de la Constitución, 42-44
03680 Aspe (Alicante)
Tel.-Fax-DTS: 96 549 00 77

ASPAS-CASTELLÓN
Figueroles, 8-Bajo
(Esq. c/ Lepanto)
12006 Castellón
Tel.: 964 05 66 44
Tel.-Fax: 964 05 66 45

ASPAS-VALENCIA
Portal de Valldigna, 5-2ª
46003 Valencia
Tel.: 96 392 59 48
Fax: 96 392 31 26

EXTREMADURA (AUTONOMOUS COMMUNITY OF)

FEDAPAS (EXTREMADURA FEDERATION OF THE HEARING IMPAIRED, PARENTS AND FRIENDS OF DEAF PEOPLE)
Antonio Hernández Gil, s/n
06800 Mérida (Badajoz)
Tel.: 924 30 14 30
Tel.-Fax: 924 31 50 63

ADABA-BADAJOS
Avda. José María Alcaraz y
Alenda, s/n-Pasaje
06011 Badajoz
Tel.: 924 24 26 26
Tel.-Fax: 924 24 56 29

ASCAPAS-PLASENCIA
Avda. Dolores Ibárruri, 51-53
Local
10600 Plasencia (Cáceres)
Tel.-Fax: 927 41 35 04

GALICIA (AUTONOMOUS COMMUNITY OF)

ACOPROS-LA CORUÑA
Petunias, 5, Bajo Comercial
Dcha.-Izq.
15008 La Coruña
Tel.: 881 91 40 78
Fax: 981 29 51 04

MADRID (COMMUNITY OF)

ASOCIACIÓN ENTENDER Y HABLAR-MADRID
Pez Austral, 15-Bajo C
28007 Madrid
Tel.-Fax: 91 574 76 71

ASPAS-MADRID
Elvira, 17-Local,
C/V León Bonnat
28028 Madrid
Tel.: 91 725 07 45
628 466 873
Fax: 91 726 63 86

MURCIA (REGION OF)

FASEN-MURCIA (FEDERATION OF ASSOCIATIONS OF FAMILIES OF DEAF PEOPLE FROM THE REGION OF MURCIA)
Ronda el Ferrol, 6
30203 Cartagena (Murcia)
Tel.: 968 52 37 52
669 43 30 07
Fax: 968 12 37 10

ASPANPAL-MURCIA
Navegante Juan Fernández, 3
30007 Murcia
Tel.: 968 24 83 92
Fax: 968 20 11 59

APANDA-CARTAGENA
Ronda El Ferrol, 6
30203 Cartagena (Murcia)
Tel.: 968 52 37 52
Fax: 968 12 37 10

NAVARRRE (AUTONOMOUS COMMUNITY OF)

EUNATE-NAVARRA
Travesía Monasterio de Irache,
2-1ºB
31011 Pamplona (Navarre)
Tel.-Fax: 948 26 18 77

BASQUE COUNTRY (AUTONOMOUS COMMUNITY OF THE)

ASPASOR-ÁLAVA
Aragón, 11-Bajo
01003 Vitoria-Gasteiz (Álava)
Tel.-Fax: 945 28 73 92

CEUTA (AUTONOMOUS CITY OF)

ACEPAS-CEUTA
Miramar Bajo, 5-Local 2
51002 Ceuta
Tel.-Fax: 956 50 50 55

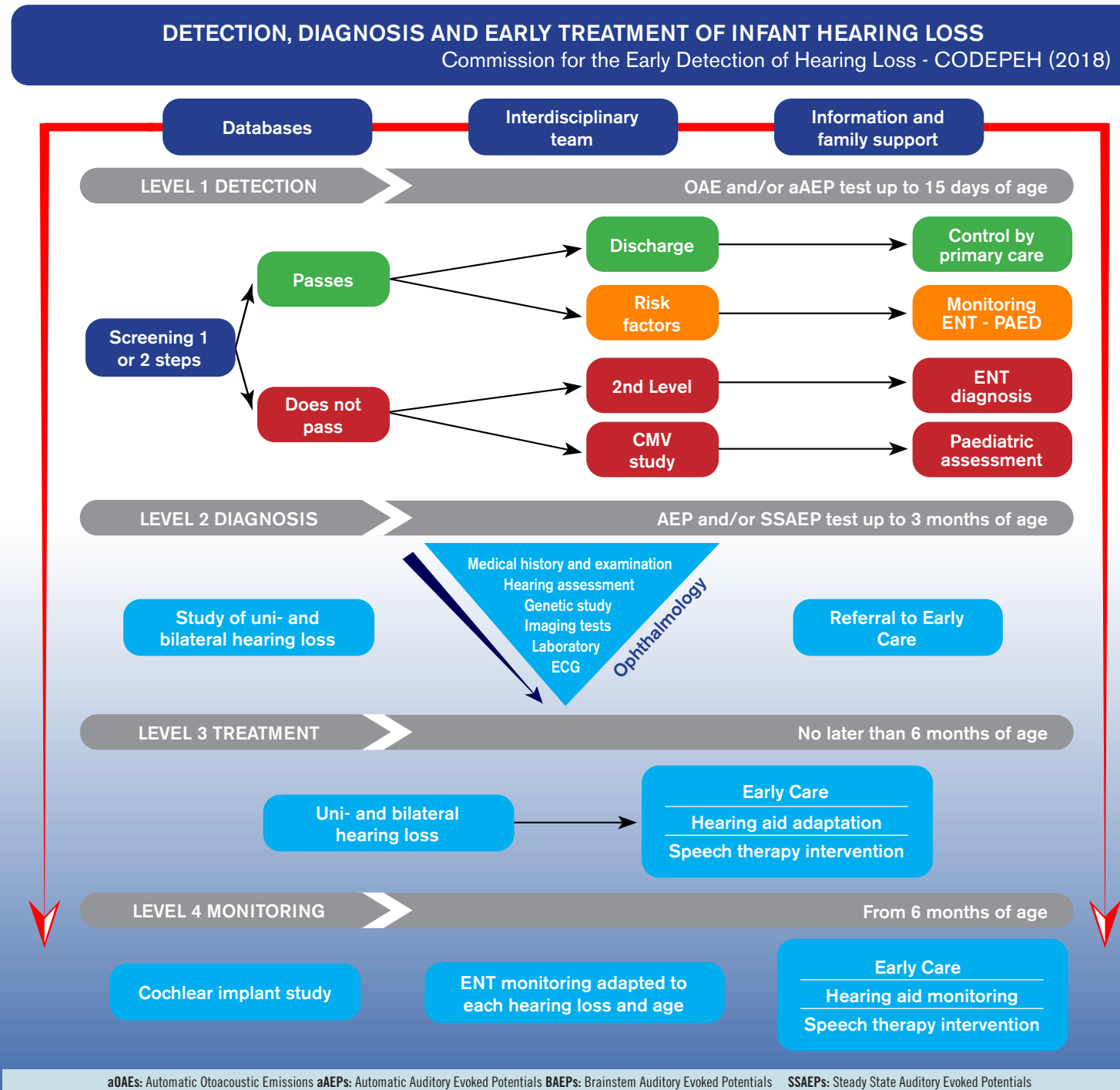
Update on the Childhood Hearing Screening Programmes Detection



This CODEPEH review updates the approach for each level of the process of detecting, diagnosing, and treating childhood deafness. This brochure reflects the Level 1 updates applying to detection.

- Newborn hearing loss is very common, affecting approximately 4-6 children per 1000 births.
- Without a universal newborn screening programme, identification of children with hearing problems is delayed until 2-3 years of age.
- Screening with otoemissions and/or automated evoked potentials should be applied to all newborns. Only 50% have risk factors.
- Screening should be performed before the first fifteen days of the child's life, diagnosis of those who do not pass screening before 3 months, and initiation of treatment, if applicable, before 6 months of age.
- Comprehensive treatment, including fitting of hearing aids, should be carried out in the first months of life.
- Children treated later than 6 months of age have delays in speech and language development, missing the critical developmental period, essential for certain learning linked to hearing.
- The existence of a coordinated, family-centred interdisciplinary team with an integrated state-level database is key to the success of screening, diagnosis and treatment programmes for childhood hearing loss.

* The content of this brochure is merely informational. *Lex artis* must at all times align with the most up-to-date knowledge through the study of the scientific literature and be adapted to the context of each child.



aOAEs: Automatic Otoacoustic Emissions aAEPs: Automatic Auditory Evoked Potentials BAEPs: Brainstem Auditory Evoked Potentials SSAEPs: Steady State Auditory Evoked Potentials

More information can be found at:
 CODEPEH (F. Núñez et al.) (2018) "Update on the childhood hearing screening programmes: 2018 CODEPEH recommendations (Level 1 Detection)", FIAPAS Magazine, October-December 2018, No. 167, Special Supplement. (2nd ed.), Madrid, FIAPAS 2019



LEVEL 1 DETECTION: UPDATES

Congenital CMV infection and hearing loss

- The incidence of congenital cytomegalovirus (cCMV) infection is 0.7% in developed countries.
- Between 12-15% of children with cCMV will have hearing loss.
- In addition to newborn hearing loss caused by cCMV, it may be of late onset, progressive, fluctuating, unilateral or bilateral, and asymmetric
- cCMV is responsible for one in four cases of hearing loss from the age of 4 years (newborn and late-onset).
- The diagnosis is made by polymerase chain reaction (PCR) of biological material (saliva, urine, etc.) before the 2nd-3rd week of life.
- Between 5-6% of all cases of deafness detected and diagnosed in the newborn hearing screening programme are caused by cCMV.
- A study of cCMV infection should be performed in those who do not pass the hearing screening.
- However, this will not identify all children with cCMV who will develop hearing loss over childhood. Universal screening, which has proved to be cost-effective, should therefore be considered.

Losses in the process

- There is an alarming percentage of children who have failed the initial screening tests and do not undergo the following tests or check-ups.
- The main cause of these losses in the process is usually parental and socio-economic.
- This percentage of cases lost in the process can cause the screening programme to fail.
- Screening programmes must take all measures at their disposal to mitigate these losses.
- To this end, it is important to appoint a professional to act as a liaison and support the programme and the families.
- The Family Association Movement must be a point of support throughout the process.