

Swallowing and Related Disorders: Assessment and Intervention

Code: 104147
ECTS Credits: 9

| Degree | Type | Year | Semester |
|------------------------|------|------|----------|
| 2500893 Speech therapy | OB | 3 | 2 |

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Other comments on languages

Bibliografía can be in other languages, as spanish, catalan, french, italian, portuguese...

External teachers

Poden intervenir empreses i/o professionals externs a petició del docent.

Prerequisites

Have studied the subject "Neurology of Language"

Objectives and Contextualisation

At the end of the course students must be able to:

Evaluate and diagnose eating disorders and swallowing in all ages and etiologies.

Know how to manage MECV-V and other tests such as EAT10 and the Payne Technique.

Know the anatomical bases involved in rehabilitation processes for swallowing and the remaining post-surgery with dysphagia.

Know and know how to apply manoeuvres and therapeutic techniques to treat disorders of feeding and swallowing being studied.

Know the specific products for the feeding of patients with dysphagia.

Understand the most common tools and products for both the assessment and the treatment of problems swallowing.

Know how to identify the associated disorders involved in order to make therapeutic decisions.

Understand the consequences of laryngectomy (partial and total) on swallowing in patients.

Understand the mechanisms of rehabilitation of smell in laryngectomized.

Know the issues of personal care that the speaker needs to know to treat patients with total laryngectomy.

Know the basics to rehabilitate the esophageal, prosthetic and electron speech in total laryngectomy.

Competences

- Critically evaluate the techniques and instruments of evaluation and diagnosis in speech therapy, as well as its procedures of intervention.
- Demonstrate an understanding of disorders in communication, language, speech, hearing, voice and non-verbal oral functions.
- Demonstrate knowledge of the limits of competence and be able to identify whether interdisciplinary treatment is required.
- Explore, evaluate, diagnose and produce a prognosis of development for disorders of communication and language, from a multidisciplinary perspective.
- Identify, analyze and solve ethical problems in complex situations.
- Make decisions and take responsibility for them.
- Understand, integrate and relate new knowledge deriving from autonomous learning.

Learning Outcomes

1. Assess the usefulness of the main techniques of assessment and diagnosis of speech-therapy disorders of neurological origin and be able to interpret related results.
2. Describe and explain the theoretical basis of the techniques of rehabilitation for disorders of speech, language and deglutition, of neurological origin.
3. Describe aspects of the rehabilitation of disorders in speech, language and deglutition that require joint action by professionals from various disciplines (neurologists, physiotherapists, psychologists, etc).
4. Describe the main techniques in the assessment and diagnosis of disorders in language, speech and deglutition of neurological origin.
5. Explain the origin and characteristics of language speech and deglutition disorders caused by brain damage.
6. Identify, analyze and solve ethical problems in complex situations.
7. Make decisions and take responsibility for them.
8. Understand, integrate and relate new knowledge deriving from autonomous learning.
9. Use the most appropriate techniques to diagnose and issue a prognosis for the evolution of language, speech and deglutition disorders of neurological origin.

Content

1. Anatomophysiology of swallowing.

- Pathophysiology of swallowing.

- Semiology of swallowing disorders.

2. Clinical and instrumental exploration of swallowing.

- EAT10

- MECV-V

- T. de Payne

- Other explorations

3. Identification and management of dysphagia in preterm infants.

- Development of the oral functions of the feeding
- Child feeding: normality, reflexes and evolution
- Orofacial stimulation in the NICU

4. Oropharyngeal dysphagia of neurological origin and associated disorders

- Exploration and rehabilitation of the dysarthria

5. Dysphagia of organic origin and associated disorders.

- Exploration and rehabilitation of the dysglosies

6. Dysphagia vs. atypical swallowing and associated disorders

- Clinical and instrumental evaluation of atypical swallowing
- Interaction between atypical swallowing, speech disorders and associated orofacial dysfunctions
- Differential diagnosis: dysphagia and atypical swallowing

7. Objectives, programming and planning of the rehabilitation of swallowing according to basic pathology

- Manoeuvres and direct and indirect techniques of rehabilitation of dysphagia

8. Laryngectomy:

- Dysphagia inherent in the condition of the laryngectomized
- Basic care.
- The voice without a larynx:
- Protective voice
- Esophageal vein. Procedures and conditions.
- The electrolarynx
- Other alternatives (communicators)

Methodology

The subject will consist of a theoretical module of each subject and a module in which the student will be trained in the practice of the use of the main evidence of swallowing and its disorders.

Training activities, with approximate hours of dedication and corresponding learning outcomes, are specified below.

N.B. The proposed teaching and assessment methodologies may experience some modifications as a result of the restrictions on face-to-face learning imposed by the health authorities. The teaching staff will use the Moodle classroom or the usual communication channel to specify whether the different directed and assessment activities are to be carried out on site or online, as instructed by the Faculty.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Activities

| Title | Hours | ECTS | Learning Outcomes |
|--|-------|------|---------------------|
| Type: Directed | | | |
| Classes of theory amb suport TIC | 61.5 | 2.46 | 3, 2, 5, 1 |
| Practical classes of exploration and critical analysis and discussion of practical cases | 6 | 0.24 | 6, 7 |
| Type: Supervised | | | |
| Tutorials programades amb the professor per revisió d'activitats dirigides | 3.5 | 0.14 | 8, 2, 7 |
| Type: Autonomous | | | |
| Bibliographic and documentary consultations | 36 | 1.44 | 4, 5 |
| Completion of summaries, diagrams and conceptual maps | 15 | 0.6 | 5 |
| Comprehensive reading of materials | 47.25 | 1.89 | 8, 3, 2, 4, 5, 9, 1 |
| Participation in peer communication forums | 23 | 0.92 | 3, 2, 7 |
| Tasks realization | 30 | 1.2 | 4, 5 |

Assessment

<https://www.uab.cat/web/estudiar/graus/graus/avaluacions-1345722525858.html>

Continued evaluation:

[EV1] Evidence 1: First evaluation period. Individual exam, face-to-face, test type. Non-eliminary matter.

[EV2] Evidence 2: First evaluation period. Individual, on-line, oral examination of erigmophonic voice production.

[EV3] Evidence 3: Second evaluation period. Individual exam, online, test type. Cumulative of all the matter of the theoretical part.

[EV4] Evidence 4: Second evaluation period. Individual examination, on-line, type test or of brief development, of all the matter seen in the practices.

(see evaluation guidelines)

Evaluation guidelines:

The score obtained in the exam of the subject taught in the practices, will only be computable if you have attended all the practical sessions of the course assigned.

Non-assessable student: if he / she has not delivered at least evidence of learning with a minimum weight of 40%.

Passed subject: pass with a 5 (scale 0-10) taking into account the percentage weight of each evidence mentioned above.

Reassessment Tests: Recovery period. Individual exam, online, test type. Cumulative of all the matter of the theoretical and practical part.

Students who have not met the criteria established to pass the subject and who have been previously evaluated in a set of activities whose weight is equivalent to a minimum of two thirds of the total grade of the subject. Only the option of retrieving evidence in which each student has demonstrated unsatisfactory performance will be given, if the course grade has been at least 3.5 (scale 0-10) and not higher than 5. The re-assessment may consist of two parts: a test-type test and the oral resolution of a case study or, alternatively, the student, in case of having failed a single test, may choose to be re-evaluated from the test not passed.

The teacher reserves the option of supplementing the students' grade by evaluating aspects such as interest in the subject, dedication, among others.

Honors:

In any case, the maximum achievable mark will be a 10, although the relative mark and the involvement of the student will be taken into account when awarding possible Honors.

Chrono:

EV3 and EV4, in the Second Assessment Period, will be separated by at least one week.

Assessment Activities

| Title | Weighting | Hours | ECTS | Learning Outcomes |
|--|-----------|-------|------|---------------------------|
| EV1. Oral examination of erigmophonic voice | 5% | 0.25 | 0.01 | 8 |
| EV2. Examination. Type Test. Not eliminatory | 25% | 0.5 | 0.02 | 8, 3, 2, 4, 5, 6, 7, 9, 1 |
| EV3. Examination. Type Test. Accumulative of all the subject matter seen in the theoretical classes. | 40% | 1 | 0.04 | 8, 3, 2, 4, 5, 6, 7, 9, 1 |
| EV4. Examination. Type Written development brief, of all the matter seen in the Practices. | 30% | 1 | 0.04 | 8, 4, 6, 7, 9, 1 |

Bibliography

1. FONAMENTAL

Reference Manuals:

D. Bleeckx. *Disfagia. Evaluación y reeducación trastornos de la deglución*. Mc Graw Hill, 2004. (Esgotat, però hi és a la Biblioteca d'Humanitats de la UAB, inclouent-hi el CD-ROM)

J.A. Logemann. *Evaluation and Treatment of Swallowing Disorders*. Pro-ed, Austin, Texas, 1998

G. Heuillet-Martin, L. Conrad. *Hablar sin Laringe. Rehabilitación de la voz en laringectomizados*. Ed. Lebón 2003.

BOOKS:

M. Velasco. V. Arreola, P. Clavé, C. Puiggrós. *Abordaje clínico de la disfagia orofaríngea: diagnóstico y tratamiento*. Nutrición Clínica en Medicina, Novembre 2007.

N. Melle. *Guía de intervención logopédica en la disartria*. Colección Trastornos del lenguaje, n. 4, Editorial Síntesis, Madrid, 2008

2. COMPLEMENTARY:

BOOKS:

- S. Borrás y V. Rosell. *Guía para la reeducación de la deglución atípica y trastornos asociados*. Nau Llibres, 2005
- P. Clavé y P. García. *Guía de diagnóstico y de tratamiento nutricional y rehabilitador de la Disfagia Orofaríngea*. Nestlé Nutrition. Editorial Glosa, S.L. Barcelona 2011
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- D. Grandi i G. Donato. *Terapia miofuncional. Diagnóstico y tratamiento*. Ed. Lebon. Barcelona, 2008. (Inclou CD-ROM i làmines)
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- L. Arrazubi, L. Royo. Servei ORL de l'Hospital de la Santa Creu i Sant Pau. UAB. *Guia d'ajuda per a la persona intervinguda de Laringectomia Total*. 2001

ENT Manuals:

- P. Abelló y M. Quer. *Manual d'Oto-rino-laringologia*. Manuals de la Universitat Autònoma de Barcelona, n. 8. Bellaterra, 1992.
- R. Ramírez et al. *Manual de Otorrinolaringología*. McGraw-Hill-Interamericana. Madrid, 1998.
- C.A. Rosen & C.B. Blake Simpson. *Técnicas Quirúrgicas en Laringología*. Amolca. Caracas. 2013.

Anatomy Atlas:

- J.E. Muscolino. *Atlas de músculos, huesos y referencias óseas. Fijaciones, acciones y palpaciones*. Paidotribo. Badalona. 2012.
- A. Biel. *Guía topográfica del cuerpo humano. Cómo localizar huesos, músculos y otros tejidos blandos*. Paidotribo. Badalona. 2012.

Webs:

- <http://www.dysphagiaonline.com>
- <http://www.logopediamail.net>
- <http://www.voiceandswallowing.com>
- <http://www.fresenius.com/407.htm>
- <http://www.nestle-nutrition.com/Public/Default.aspx>
- <http://www.nutriciaclinico.es>
- <http://www.myessd.org>
- <http://www.essd2013.org>
- <http://www.soclogopedia.org>
- <https://sensorialitat.blogspot.com>

Papers:

Related papers.

Software

- Praat (www.praat.org)
- DISFAPP (<https://disfapp.es>)