

THESIS



DEFINITION OF THE PROJECT

- To objective the gait alterations throught the definition of a correlation coefficient in MMC patients acording to the motor level compared with a group of normal patients and to measure the dispersion of the data in standard desviation.



DEFINITION OF THE PROBLEM

- Lack of objetive gait evaluation”s tool in MMC patients that give us information like Normalcy Index (Cerebral Palsy patients), about basal behaviour.



JUSTIFICATION

- Actually, we don't have objective evaluation's tool that allow to specify the dispersion of the MMC patients in relation with a normal patients.
- If we have this tool, we could specify the patient's basal condition and the repercussion of different treatments or to know the evolution on the time.



JUSTIFICATION

- In IRI, MMC patients are an important group, because they represent the third pathology, in frequency.
- AND...
- In the international literature, there are a few papers...



JUSTIFICATION

Número de artículos publicados en la literatura en relación a la Marcha v Mielomeningocele. Últimos 2003 - 2007

Key words: gait, mielomeningocele

2003	2004	2005	2006	2007
4	6	4	5	6

Key words: gait, spina bifida

2003	2004	2005	2006	2007
0	8	3	4	4



OBJECTIVE

- To create an instrument of evaluation with kinematic parameters based in the information obtain in the gait lab of MMC patients and a group of normal children.



HYPOTHESIS

- The behavior all MMC patients is different to the normal patients.
- The patients with lumbar level are more move away to the normal pattern than the sacral level.
- Each motor level has its tipical behavior and different to another levels. Therefore, this situation permits to stablish different profiles to each levels.



LIMITATIONS

- Difficulty to precise exactly the motor level, because asimetry, heterogeneous and "salpicado".
- However, our previus experience has show us that we can wait a behavior very similar in each level.



LIMITATIONS

- Our observation about differences among evaluation scales in the literature and the difficulties to compare the results.
- Our institution has create an own scale to clasify the functional motor level. This scale will be use in this scientific research to standardize our sample.



LIMITATIONS

- Probable interferences of the orthopedic surgeries. However, the experience say that the orthopedic surgeries don't significantly change the behavior pattern.



LIMITATIONS

- Difficulty in the patients recruit to have the inclusion criteria to the scientific research. However, our institution has a great number of patients with this pathology to improve the recruit
- **However, we can establish a curve that show us the kinematic behavior our patients, in relation to your motor level.**



REFERENCE

- Many papers as concern to scientific research with MMC patients will be considere like references, since 10 years ago.


