**4CPS-128**  LIVER TRANSPLANT AND DIABETES MELLITUS

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**Background and importance** Transplanted patients are at risk of developing post-transplant diabetes as a metabolic complication of immunosuppressive therapy, which results in greater therapeutic complexity.

**Aim and objectives** To evaluate the percentage of liver transplant patients with diabetes mellitus and the evolution of diabetes after 1 year of transplantation.

**Material and methods** An observational, descriptive, retrospective study was conducted in liver transplant patients during the period January 2013 to October 2018. The main variables included were the presence or absence of diabetes in the pre-transplant period, immediate post-transplant period and 1 year after the transplant was performed; and the need for insulin use in each of these periods. All patients who died before 1 year after liver transplantation were excluded from the study.

**Results** During the study period, a total of 179 patients were included, 73.2% were men. Mean age of the patients was 54.8±9.6 years.

Of the 179 patients, 69.8% (n=125) were not diabetic before transplantation, 42.4% developed post-transplant diabetes (n=53) and all were insulin dependent. One year after the transplant, 43.4% (n=23) did not need to continue using insulin. Of the 30.2% (n=54) of patients who were diabetic prior to transplantation, 46.3% (n=25) were not insulin dependent. In 88% of these patients (n=22), post-transplant insulin therapy was necessary and 84% of patients (n=21) continued on insulin therapy 1 year after transplantation.

**Conclusion and relevance** Liver transplanted patients had a high prevalence of diabetes requiring administration of insulin, which adds greater complexity to the treatment. Post-transplant diabetes is a metabolic complication that appears in the post-transplant period as a result of immunosuppressive treatment. Understanding the importance of these factors and their effect on the safety and effectiveness of the therapy.

**REFERENCES AND/OR ACKNOWLEDGEMENTS**

No conflict of interest.

**4CPS-130**  ONE IN A MILLION: A TNF RECEPTOR-1 ASSOCIATED SYMPTOME RESISTANT TO ANTI-TNF-ALPHA THERAPY

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**Background and importance** Tumour necrosis factor receptor associated periodic syndrome (TRAPS) is a rare disorder with a prevalence of approximately 1 per million. The goal of therapy is prevention of recurrent symptoms and normalisation of inflammatory markers. These patients also have an increased risk of developing amyloidosis. Clinical experience and extrapolation from other autoinflammatory disorders suggest that early institution of biologics can lower this risk. Historically, antimour necrosis factor (TNF) therapy (etanercept) was used for patients with frequent and/or severe recurrences and for those with TNF receptor-1 (TNER1) gene mutations associated with a high risk of amyloidosis.

**Aim and objectives** To improve evidence about TRAPS refractory to anti-TNFs and its management.

**REFERENCES AND/OR ACKNOWLEDGEMENTS**

No conflict of interest.
Material and methods We describe the case of a child affected by TRAPS and its pharmacotherapeutic management. Treatment options included oral glucocorticoids and biologic agents (etanercept, anakinra). Medical and pharmaceutical records were reviewed, and a bibliographic research was made to establish the state of the art treatment of TRAPS. UpToDate, Pubmed and the Cochrane Library were consulted, finding little information on this very rare medical condition.

Results Our patient was a 7 year old boy who presented with recurrent febrile episodes, accompanied by abdominal pain and periorbital eczema. There was no infectious focus. Laboratory data showed elevated inflammatory markers. The rheumatologist suspected an autoimmune syndrome rather than an autoinflammatory disease. Lack of autoantibodies and a genetic diagnosis confirmed TRAPS.

Initial treatment was oral prednisone, with a response similar to NSAIDs. Due to persistence of symptomatology, the clinician indicated etanercept, which achieved a partial response but had to be interrupted because of respiratory related sepsis. Afterwards, this biologic was reintroduced with low doses of prednisone. Over the following months the patient relapsed, and anakinra was prescribed instead of etanercept. Anakinra treatment showed satisfactory results, achieving symptomatology control and normalization of laboratory parameters with no remarkable safety concerns.

Conclusion and relevance We have presented the case of a patient refractory to anti-TNF treatment who experienced dramatic improvement with the recombinant human IL-1 receptor antagonist anakinra. There are only a few cases published on this subject, and our experience supports the evidence that anakinra can be considered a first-line treatment for TRAPS due to its efficacy and lack of adverse reactions.

REFERENCES AND/OR ACKNOWLEDGEMENTS

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4CPS-131

EFFECTIVENESS OF NUSINERSEN IN PAEDIATRIC PATIENTS SMA1 AND SMA2

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Background and importance Nusinersen is an innovative drug given by intrathecal injection and used to treat S-spinal muscular atrophy (SMA), a severe neuromuscular disorder due to a defect in the survival motor neuron 1 (SMN1) gene. This antisense oligonucleotide drug modifies RNA splicing of the SMN2 gene, thus increasing the production of full length SMN protein. The first dose, given as soon as possible after the diagnosis, should be followed by three more doses after 2, 4 and 9 (L1, L2, L3, L4) weeks and one dose every 4 months (M1, M2, M3...) thereafter.

Aim and objectives This study aims to describe the efficacy of nusinersen in terms of improvements in motor function in paediatric patients with SMA1 and SMA2.

Material and methods From February 2018, we collected data from 8 patients, 3 with SMA 1 and 5 with SMA 2, using specific neuromuscular functional tests: CHOP-INTEND, HINE and HFMSE.

Results Results are expressed as points of increase (p) in motor function scores from baseline (or from the first score recorded in our centre*) to the score obtained at the time of the last injection for each patient.

SMA1 patients:
- 2 months old at the time of first injection (TFI): CHOP-INTEND 8/64 to +38p (M2); HINE 0/26 to +5p (M2).
- 3.3 years old TFI*: CHOP-INTEND 18/64 (M2) to +16p (M6); HINE 2/26, stable at M6.
- 5.6 years old TFI*: CHOP-INTEND 1/64 (M2) to –1p (M4); HINE 0/26 (M2) to +1p (M4), then suspended for absence of efficacy.

SMA2 patients:
- 1.2 years old TFI: CHOP-INTEND 59/64 to –1p (M1).
- 3.4 years old TFI: CHOP-INTEND 41/64 to +8 (M1), +14p (M3); HFMSE 8/66 to stable at M1 +4p (M3).
- 4.6 years old TFI: CHOP-INTEND 55/64 to +6p (M1) +7 (M2); HFMSE 22/66 to +3p (M1), +3p (M3).
- 8.5 years old TFI: CHOP-INTEND 42/64 to +5p (M1); HFMSE 17/66 to +10p (M1).
- 11.5 years old TFI: CHOP-INTEND 37/64 to +2p (M1); HFMSE 8/66 stable at M1.

Conclusion and relevance Our results showed an average increase of 4 points for CHOP-INTEND and 3.75 points for HFMSE in SMA2 patients, after 6 months (M1) of treatment. For SMA1 patients, it was not possible to evaluate the average trend for CHOP-INTEND and HINE scores after 6 months of treatment because two patients started nusinersen in other hospitals (motor scores at L1–M1 not available). A longer follow-up and data from other parameters, such as swallowing and respiratory function, are important to better understand the overall efficacy of nusinersen.

REFERENCES AND/OR ACKNOWLEDGEMENTS

No conflict of interest.

4CPS-132

INDIRECT TREATMENT COMPARISON OF ANTI-CALCITONIN GENE RELATED PEPTIDE PATHWAY ANTIBODIES IN CHRONIC MIGRAINE

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Background and importance Erenumab, fremanezumab, galcanezumab and eptinezumab are monoclonal antibodies targeting the calcitonin gene related peptide pathway (anti-CGRP), used as preventive treatment in chronic migraine (CM).

Aim and objectives To evaluate whether anti-CGRP drugs are equivalent therapeutic alternatives (ETA) in CM through an adjusted indirect treatment comparison (ITC).

Material and methods A bibliographic search of randomised clinical trials (RCTs) in Pubmed was performed (20 May 2019). Inclusion criteria: phase II/III RCTs of anti-CGRP with similar populations, follow-up duration and comparator treatments. CM was defined as ≥15 headache days/month, of which ≥8 were migraine days (event duration ≥4 hours). Exclusion criteria: RCTs with different clinical CM context and other CM definitions. Efficacy end point was ≥50% reduction in migraine days/month (measured from the beginning of treatment to 12 weeks). An ITC was developed using...