LA SUPPLEMENTAZIONE DI FERRO DALLO SVILUPPO COGNITIVO ALLA NEUROPROTEZIONE

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World Health Organization stated that iron deficiency is the most common and widespread nutritional disorder in the world. It is the only nutrient deficiency significantly prevalent in developed countries affecting 2 billion people (over 30% of the world's population is anemic). The major health consequences of iron deficiency and anemia include poor pregnancy outcome, lower work productivity in adults, impaired physical and cognitive development and reduced school performance. Anemia contributes to 20% of all maternal deaths and in subjects with cancer and kidney diseases may have a negative impact on prognosis.
Effective management of iron deficiency anemia is mandatory and since dietary changes alone are insufficient, iron supplements are necessary. Limitation of conventional iron supplements is reduced absorption (10% - 20% of total iron intake), metallic taste, gastrointestinal discomfort, nausea, constipation or diarrhea and oxidative stress.
At the same time an excess of iron can be toxic affecting the nervous system cells and increasing the risk of neurodegenerative diseases
To avoid the above limitations of oral iron supplementation, in terms of tolerability and bioavailability, a valid opportunity is represented by oral Liposomal iron (Sideral®). Sideral is a source of highly bioavailable ferric pyrophosphate carried by a liposome membrane. Liposomal technology ensures maximum tolerability and total absence of any side effect that is commonly associated with iron intake. Besides, oral liposomal iron, bypassing normal intestinal mechanism of absorption, shows an increased plasma concentration, better than usual commercial oral iron compounds.
Many different studies shows that Sideral® overcomes the limits of tolerability and bioavailability of conventional oral iron, through a significant increase of the compliance (no side effects) of people taking liposomial iron and, at the same time, an increase of hemoglobin. For example, studies on anemic cancer patients show an increase of Hb levels of 2.2 g/dl after 8 weeks together with an improvement of quality of life. A comparative study shows an equivalent increase of hemoglobin compared to intravenous iron therapy.

PREVALENCE OF IRON DEFICIENCY

- The most common and widespread nutritional disorder in the world
- The only nutrient deficiency which is also significantly prevalent in industralized countries
- The numbers are staggering: 2 BILLION PEOPLE (OVER 30% OF THE WORLD'S POPULATION) ARE ANAEMIC, MANY DUE TO IRON DEFICIENCY

Il ferro è utile per il corretto sviluppo cognitivo dei bambini

Effetti funzionali di una precoce carenza di ferro

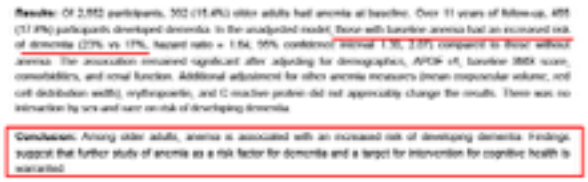
- Poorer recognition memory
- Slower conduction in the auditory and visual systems
- Social/emotional alterations, affective changes
- Altered interactions with the environment

– Nati a termine: ridotto sviluppo neurocerebrale (in età scolare); minori capacità nella memoria uditiva

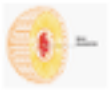
– Nati Pretermine: anomalie nei riflessi neurologici; minore velocità di conduzione nel sist. nervoso centrale


Neurology

Anemia and risk of dementia in older adults



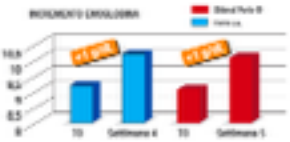
FERRO LIPOSOMIALE



Con la tecnologia liposomiale, il ferro non viene mai in diretto contatto con le mucose

ECCELLENTE TOLLERABILITA'


MASCC/ISOO




Leukemia Research

- Il ferro liposomiale orale è NON INFERIORE alla terapia di supporto con ferro endovena nei pazienti affetti da anemia refrattaria.

- Un miglioramento dei parametri di qualità di vita (QOL) è stato osservato in tutti i pazienti che hanno incrementato i livelli di emoglobina

- Il ferro liposomiale è una "ottimale alternativa alla supplementazione di ferro i.v."