

## 海外招聘講演



座長

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シンガポールで歯科医院を開業している Dr.Reginald は、ラクトフェリンの優れた効果を自身でも体験されたうえで歯科臨床での応用を進められ、骨形成促進、抗ウイルス作用、アフタ性潰瘍などの抗炎症作用などを実感されている。炎症では大きさや数の減少から、またインフルエンザ罹患率や通院の回数が減ることなどから効果は明らかであるが、定量的な評価をすることは難しい。また、最近の新知見としては骨粗鬆症の予防にも効果があるとされている。本講演ではラクトフェリンの歯科臨床例を中心に御講演をいただく。

### 【座長略歴】

- 1983年 昭和大学歯学部 卒業 (同年6月に歯科医師免許取得)
- 1983年 昭和大学大学院歯学専攻科(歯科理工学) 入学
- 1983年 歯科医師免許取得
- 1987年 昭和大学大学院 修了 (歯学博士号取得)
- 1987年 昭和大学歯学部 助手(歯科理工学)
- 1990年 米国・シカゴの Northwestern 大学に留学 (1991年6月まで)
- 1992年 昭和大学歯学部 講師
- 1996年 昭和大学歯学部 助教授
- 2006年 昭和大学歯学部 准教授
- 2013年 朝日大学歯学部 教授 ~現在に至る

## Lactoferrin: A Dental Clinician's experience

with the systemic use of orally administered lactoferrin.



**Dr. Reginald Teo Koon Siang**

Regent Dental Clinic

Lactoferrin is a multifunctional protein which has been used clinically for a number of years. The effects of orally administered lactoferrin can be clinically observed in a number of applications. This can be seen in the field of dental implantology as lactoferrin acts a bone enhancer in the stabilisation of dental implants. It is postulated that Lf acts as a systemic type of bone morphologic protein to promote bone growth. Lf promotes bone growth by upregulating the activity of osteoblasts while downplaying the activity of osteoclasts.

As a potent antiviral agent, it is effective against the clinical manifestation of "Cold Sores" in Herpes Simplex infections. A reduction in the size and number of lesions can be observed. A reduction in the episodes of acute aphthous ulcers has also been observed.

In immunomodulation, Acne outbreaks and the number of lesions is also reduced. The general health of patients is enhanced as evident in the reduction of influenza episodes and days taken for medical leave. This can lead to a reduce overall healthcare cost for the patients concerned with the promotion of a healthy lifestyle.

The dilemma for a clinician is investigating the observations in a measured scientific format. Often it is difficult to qualify and quantify clinical results with measured data. A brief discussion is presented in this paper.

Other novel applications of Lf will be discussed as a preventive agent for the onset of osteoporosis. The present treatment of osteoporosis leaves patients with a permanent deposition of Bisphosphonates in the bone. Lf can be introduced as a preventive measure. Development of an intravenous delivery of Lf may also have great potential in the treatment of other medical problems.

In conclusion, a brief discussion of patient compliance in the introduction of Lf as a health supplement. The promotion and awareness in the general population to the benefits of lactoferrin in daily life.

【略歴】

BDS (S'pore) National University of Singapore 1984. Bachelor of Dental Surgery.

MFGDP(England) Royal College of Surgeons UK. 1999. Member of Faculty of General Dental Practitioners.

GDDI(S'pore) National University of Singapore 2011. Graduate Diploma in Dental Implantology.

Part time lecturer. Faculty of Dentistry. NUS since 1996 to present.

Lecturer in General Practice Management. (GPM)

First exposure to Lactoferrin 1998. Working visit to Tatu Cooperative Ltd New Zealand in 1999. Lactoferrin producer. Attended International Lactoferrin Conference from 2003-2015 in Capri, Hawaii, Nice, Beijing, Mazatlan, Rome and Nagoya. First clinical use of lactoferrin in 2000. Marketing lactoferrin since 2001.

Working visit to Fonterra Ltd. New Zealand in 2006.

Working visit to Gold Coast Australian Dairy Proteins in 2003.

【主な活動】

National Speed skating champion 1975-1979.

International Ice skating judge 2003-2009.

National panel on Barodontalgia advisory committee 1991-2000.

Certified scuba diver since 1985. Nitrox and rescue diver.

US Parachute Association C license Skydiver > 500jumps.

Church Organist since 1977.

