



Adult Lactose Intolerance (ALI), Calcium and Bone Health

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Abstract:

Background: Bone health is a complex issue affected by multiple hormones and minerals. Findings show that 1 out of 3 women and 1 out of 5 men are suffering from osteoporosis. Some of the adults group are suffering from Adult Lactose Intolerance (ALI). Those cases prefer not consume dairy products since they feel uncomfortable after eating cheese or drinking milk knowing that they are not lactose-free food. Now, we investigate the influence of (ALI) on Calcium intake, absorption and osteoporosis.

Method: Investigated calcium intake single nucleotide polymorphism of LCT, markers of bone metabolism and BMD in 183 Turkish immigrants.

Result: 154 out of 183 was (ALI) diagnosed. Osteopenia was diagnosed in 59 out of 183 (32%) and osteoporosis in 15 out of 183 (8%). Proband had a decreased calcium intake and probands with reduced bone mass density (BMD) had (ALI) in 86%. There was no significant association between (ALI), Calcium intake, BMD or markers of bone metabolism.

Conclusion: Turkish immigrants who suffer from (ALI) don't consume dairy products and this means low calcium intake compared to other people who normally eat dairy products. However, (ALI) didn't significantly influence calcium intake. Therefore, (ALI) doesn't seem to be a risk factor for osteoporosis or affect directly the bone health.



Biography:

Amina Fouad Al Houssari is a Clinical RD. Completed his PhD at Lebanese International University, Beirut, Lebanon

Publication of speakers:

1. Klemm, P., Dischereit, G. & Lange, U. Adult lactose intolerance, calcium intake, bone metabolism and bone density in German-Turkish immigrants. *J Bone Miner Metab* 38, 378–384 (2020).
2. Vatanparast H, Islam N, Patil RP, Shafiee M, Whiting SJ. Calcium Intake from Food and Supplemental Sources Decreased in the Canadian Population from 2004 to 2015. *J Nutr.* 2020 Apr 1;150(4):833-841.
3. Farsy, Fouad. (2020). Saudi Arabia : a case study in development / Fouad Al-Farsy. SERBIULA (sistema Librum 2.0).
4. Souheil, Kach. (2020). Essai sur la question nationale au Moyen-Orient arabe entre les deux guerres mondiales selon Saadi et Al Houssari..
5. Dadkhah, Kamran. (1991). Fouad Al-Farsy, Saudi Arabia: A Case Study in Development (London: Kegan Paul International, 1986). Pp. 264. *International Journal of Middle East Studies.* 23. 119-121. 10.1017/S002074380003470X.

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