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Summary

This template summarizes the primary data and derived indices¹ found in the standard cortical bone histomorphometry template of BIOQUANT OSTEO II. This is not a complete list.

Easily Add or Customize Indices

BIOQUANT data collection and report is highly adaptable and may be immediately expanded to include other primary and derived indices. The list below is a common beginning place that is expanded or simplified to suit the needs of the laboratory.

Calculated Indices

Please check the calculated Indices you would like to be included in your template.

Area Measurements

- (Ct.B.Ar) Cortical Bone Area
- (Ec.Ar) Endocortical Area
- 2nd Moment of Ct. Area
- (T.Ar) Tissue Area
- (Ct.B.Ar/T.Ar) % Cortical Bone
- (Ec.Ar/T.Ar) % Endocortical Area
- (Sa.Ct.Ar) Sampled Cortical Area
- (On.Ar) Osteon Area
- On.Ar/ Sa.Ct.Ar % Osteon Area
- (H.Ar) Haversian Area
- H.Ar/ Sa.Ct.Ar % Haversian Area
- (On.Fg.Ar) Osteon Fragment Area
- On.Fg.Ar/ Sa.Ct.Ar % Fragment Area
- (Po.Ar) Pore Area
- (Po.Ar/Sa.Ct.Ar) Porosity
- (Oc.Ar) Osteocyte Area
- Unlimited Additional Indices

Perimeter Measurements

- (Ps.Pm) Periosteal Perimeter
- (Tt.On.Pm) Total Osteon Perimeter
- Mean On.Pm Mean Osteon Perimeter
- (H.Pm) Total Haversian Perimeter
- (H.Pm) Mean Mean Haversian Perimeter
- Ec.Pm Endocortical Perimeter
- Ec.O.Pm Osteoid Perimeter
- Ec.E.Pm Erosion Perimeter
- Ec.Q.Pm Quiescent Perimeter
- Ec.Ob.Pm Osteoblast Perimeter
- Ec.Oc.Pm Osteoclast Perimeter
- Ec.Pm/B.Ar Ec.Pm / Bone Area
- Ec.Pm/T.Ar Ec.Pm / Tissue Area
- Unlimited Additional Indices

Width Measurements

- Mean Ct.Wi Mean Cortical Width
- Anterior Ct.Wi Anterior Cortical Width
- Posterior Ct.Wi Posterior Cortical Width
- Medial Ct.Wi Medial Cortical Width
- Lateral Ct.Wi Lateral Cortical Width
- Min.On.Dm Mean Min. Osteon Diameter
- Max.On.Dm Mean Max. Osteon Diameter
- (W.Wi) Mean Wall Width
- Unlimited Additional Indices

Number Measurements

- (N.On) Osteon Number
- (OPD) Osteon Population Density
- (N.On.Fg) Osteon Fragment Number
- (Oc.N) Osteocyte Number
- (Oc.Dn) Osteocyte Density
- Unlimited Additional Indices

Fluorescent Indices

- (Ec.M.Pm) Ec. Mineralizing Pm
- (Ec.Ir.L.Wi) Avg Interlabel Wi
- (Ec.MAR) Mineral Apposition Rate
- (Ps.Ir.L.Wi) Avg Interlabel Wi
- (Ps.MAR) Mineral Apposition Ra
- (Ps.sL.Pm) Periosteal Single Label Pm
- (Ps.dL.Pm) Periosteal Double Label Pm
- (Ps.M.Pm) Periosteal Mineralizing Pm
- Unlimited Additional Indices

Formation Indices

- (Ac.F) Activation Frequency
- (BFR) Bone Formation Rate
- Unlimited Additional Indices

1. Parfitt AM, Drezner MK, Glorieux FH, Kanis JA, Malluche H, Meunier PJ, Ott SM, Recker RM. 1987. Bone histomorphometry: standardization of nomenclature, symbols, and units. J Bone Miner Res 2:595-610.