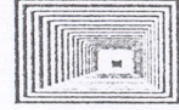
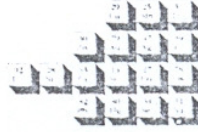




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UNESCO
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(Ankara)

SECOND INTERNATIONAL
ZINC SYMPOSIUM

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ABSTRACTS

PRELIMINARY STUDIES OF TRACE ELEMENTS (INCLUDING ZINC) IN NORMAL BONE TISSUES

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There has been considerable information accumulated on "osteoporosis" and bone metabolism in literature in regard to trace elements during the last decade.

Purpose of this study is to investigate trace elements firstly in normal bone tissues then in cases with "pseudoarthrosis". In this preliminary report, results of normal bone tissues, will be given. Sample preparation. 0.3299 g. bone was dried for 10 hours at 125°C and digested in mixture of Nitric acid (3 ml, % 65) and hydrogen peroxide (0.5 ml % 30). Milestone MLS Mega Microwave Acid Digestion System was used for digestion. After 5 steps digestion procedure sample was diluted to the 10 ml volume: Trace Elements were measured by Polarized Zecman Atomic absorption spectrophotometer (Hitachi Z-8200). Preliminary results may be seen in the following table:

Al	11.06	ug/g
Mn	6.36	ug/g
Cu	1.81	ug/g
Zn	79.69	ug/g
Mg	2.12	ug/g
Ca	142.92	mg/g

Comparison will be made with those values found in the patients.