



تفاصيل البحث:

THE STRUCTURE OF LARGE LAMELLAR URINARY STONES - A :
QUANTITATIVE CHEMICAL ANALYTIC STUDY APPLYING A N
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عنوان البحث

To study the structural composition of 61 renal and 9 vesical :
large lamellated non-infection urinary tract stones, samples
from successive layers were quantitatively analyzed with
standard chemical techniques, but with a new classification
based on percentage composition of ions rather than
compounds. The commonest pattern of composition (n=41)
was that of the lamellar stones of one stone type (uric acid,
oxalate, or phosphate) and group (according to % of
indicating ion), followed by bilamellar stones of different
stone types (17) or of one stone type but different groups (8).
The other stones were trilamellar (3) or quadrilamellar (1) of
different stone types. In the 29 stones with lamellae of
different type and/or group, the chemical composition of
successive layers seemed to confirm the correlation between
uric acid and oxalate, rather than phosphate, ions and
between oxalate and both uric acid and phosphate ions. An
influence on these correlations either positive or negative,
may be the responsible factor for specifying the type and
group of a forming stone or layer of a stone. The observed
ionic correlations within the stones seem to support the
choice of the oxalate ion, in the uric acid or phosphate
stones, and both of the uric acid and phosphate ions, in the
oxalate stones, as indicating ions for grouping in our
.proposed classification of urinary stones

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