Notes upon maceration, or the preparation of Crania in India / B. V. Henderson.

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Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org Henderson May 23. 1821. at Museum.

# Notes upon Maceration, or the preparation of Crania (16) in India; and applicable in England in Summ THE first principle to be attended to mina of the Cranium previous to its be-

THE first principle to be attended to in the Maceration of Crania, is the extraction of the red particles of the blood, since upon this being completely effected, essentially depends the whiteness and beauty of the preparation; the second, is to employ a large body of water in proportion to the size of the subject; and the third, is to avoid the use of boiling or hot water in cleansing it after maceration, which, by melting the oily matter contained in the diploe and cellular structure of the bones, renders them greasy, and endangers their preservation.

The most successful mode of obtaining beautiful preparations, free from all stain and offensive effluria, is to dissect off the soft parts, whilst fresh, as completely as possible, and then to place the Cranium in a large vessel of cold water. For this purpose a common Barrel, such as contains the Pale Ale brought out to this Country, will answer very well, if the upper third is sawed off, (to be afterwards employed as a cover), or a Bucket with a close cover for small Crania, and a bole drilled near the bottom, and stopped with a wooden plug, to allow of the water being changed from time to time. For the first few days, this should be done at least once in twenty-four hours, until the water is no longer tinged with blood.

The Brain will now be found quite broken in its texture, and may be readily shaken out through the foramen magnum of the Occiput; when the water being again renewed, the Cranium may be left to macerate for a week or ten days longer according to circumstances, as, the heat of the weather, orage of the animal; at the end of which time, the soft parts will have lost all attachment to the bones, which are now to be removed from the vessel, well washed by repeated affusion of cold water, and being replaced in clean water to soak for two or three days, are to be then taken out; once more washed to remove any adherent mucus, and dried in the shade.

In order to render the preparation completely clean, it will be found useful to inject a quantity of cold water forcibly, with a common Pewter Injection Syringe, into all the cavities and foraing dried; from which, the remains of numerous blood-vessels and coagula will be by this means discharged.

The Incisores (front, or cutting teeth) and smaller teeth, which usually fall out during the progress of maceration, are to be carefully collected at the bottom of the vessel, and afterwards secured in their respective sockets by means of some strong mucilage, when the Cranium is dry.

The above process is applicable to every Cranium, of which the size does not render it inconvenient; thus the head of a Rhinoceros was prepared at -and a now a Prince of Wales Island, August 1818, my Collection and the head of a male Elephant 6 feet in height, at Malacca, October 1818: - presented to m the latter, notwithstanding its great Jarquhar, las bulk, became, by frequently changing the water, of a splendid whiteness, and Resident & Con formed a most beautiful preparation. of ellalacca Where the great size of the Cranium of an Elephant rendered this plan impracticable, the following mode was adopted with success;-the entire head was placed in the jungle, near some water collect- Malacca; # ed in a hollow, where it was defended Granium is a from the rays of the Sun; in two or three days, myriads of maggots were hatched from ova deposited by flies, which in 10 or 12 more, entirely destroyed the soft parts, leaving nothing but portions of tendon & ligament in fringes; these being washed away with re-peated affusion of cold water, the preparation was completed by exposure to the air, occasionally sprinkling it with water, to promote the process of bleaching.

In the Alligator, which possesses but a small proportion of red blood, a simpler plan may be followed ;-the head may be buried in some shady spot in the ground at the depth of 2 or 3 feet, and at the end of a month or six weeks may be taken up, when the soft parts will be found so slightly adhering to the bone, as to be easily detached by copious affusion of cold water. From the great length and size of many of the foramina in an adult specimen, the use of the Svringe in cleansing out the blood-vessels and coagula will be found particularly applicable to this preparation.

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B. C. Henserson. at Calcula mand 18. Notes upon Maceration, or the preparation of Crania in India; on spice of Crania in India; on spice of the Cranian periods to the attended to, mins of the Cranian previous to its term.

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