

APPENDIX.

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I have used the aspirator in thirteen cases with success. But in my recent cases I have used Colin's instrument, instead of the aspirator, because of its universal applicability, and also on account of its simplicity and safety. It consists of a reservoir or basin for the blood, to which is attached a syringe—nothing more than an ordinary syringe—working as any syringe would. To this is attached a tube, ending in a canula, which fits accurately a canula previously inserted into the vein of the patient. The entrance to the tube of exit is guarded by an aluminum ball-valve which excludes the air, and permits only the blood to enter. Thus one of the principal dangers in transfusion is avoided.

Though Colin's instrument is intended to throw in blood in its natural state, undefibrinated, I have, in the majority of my cases, in order to make the operation absolutely safe, defibrinated the blood, and added it to a solution of ammonia and water, already contained in the basin of the instrument.

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I have lately devised a tourniquet on the principle of the "safety-pin," which obviates danger from hæmorrhage during the operation, and enables the surgeon to control all the

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bleeding parts without difficulty. The instrument was first employed to control bleeding from the lingual artery during amputation of the tongue. It can be utilized in a great variety of operations.

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Dr. Lewis, of Philadelphia, has devised an ingenious method of suppressing hæmorrhage from the intercostal arteries. He passes the handle of an ordinary door-key through the wound, turns the end at right angles to the rib, then by very slight pressure compresses the artery.

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