

# EXHIBIT A

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**can-nu-la** also **can-u-la** (kən'yu-lə)  
*n. pl.* **can-nu-las** also **can-u-las** or **can-nu-lae** also **can-u-lae** (-lē)  
 A flexible tube, usually containing a trocar at one end, that is inserted into a bodily cavity, duct, or vessel to drain fluid or administer a substance such as a medication.

[Latin, diminutive of *canna*, *reed*; see **cane**.]

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**cannula**, *canula* ['kænju:lə]  
*n pl* **-las**, **-lae** [-li:]  
 (Medicine / Surgery) *Surgery* a narrow tube for insertion into a bodily cavity, as for draining off fluid, introducing medication, etc.  
 [from Latin: a small reed, from *canna* a reed]

Collins English Dictionary - Complete and Unabridged © HarperCollins Publishers 1991, 1994, 1998, 2000, 2003

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### Thesaurus Legend: █ Synonyms █ Related Words █ Antonyms

**Noun 1. cannula** - a small flexible tube inserted into a body cavity for draining off fluid or introducing medication  
█ **tube, tubing** - conduit consisting of a long hollow object (usually cylindrical) used to hold and conduct objects or liquids or gases

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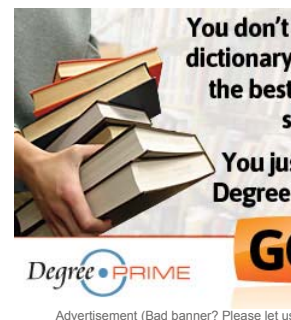
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Bougies are surgical instruments of a cylindrical [rod](#) fashion, introduced into the canals of the [body](#) in order to widen them. They differ from a catheter in being solid.

[Research Bougies](#)

#### CATHETERS

A catheter is a tube that is inserted into a hollow [organ](#) of the [body](#) in order to [drain](#) or introduce fluids. A urinary catheter is inserted into the [bladder](#) through the [urethra](#) to relieve obstruction to the flow of [urine](#). [Cardiac](#) catheters are used to measure [blood](#) pressure in the [heart](#). Similar catheters are used to inject radio-[opaque](#) substances into [blood](#) vessels for X-ray examination.

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#### COLOSTOMY

Colostomy is the operation of opening into the [colon](#), or lower portion of the intestine. This procedure is one of the most important in abdominal [surgery](#). It is sometimes necessary as a life- saving measure. It may be temporary or permanent as an [artificial anus](#) in the [radical](#) treatment of rectal [cancer](#). Because of its appearance, its inconvenience and the very thought of an [artificial](#) opening in the abdominal wall a great deal of care is necessary to allay the anxieties of patients and their relatives when colostomy is necessary.

In some cases of [acute](#) intestinal obstruction the surgeon explores the [abdomen](#) and finds perhaps a large mass in the region of the pelvic [colon](#) or [rectum](#) that cannot be removed. An emergency colostomy is then performed in the transverse [colon](#) with the immediate purpose of saving life and with the further objective of providing temporary drainage should the [growth](#) be removable at a later date. In some such cases, when at first sight the [primary](#) cause of the obstruction seems [beyond](#) any possibility of surgical removal, after several weeks of colostomy drainage the infection subsides and the affected portion of [bowel](#) may then be removed. Colostomy may be necessary as a preliminary to other operations involving removal of the large [bowel](#). Such an occasion arises if diverticulitis has produced vesico-colic fistula (between the [colon](#) and [bladder](#)). In some cases of severe incontinence due to abnormality or [injury](#) to the [anus](#), a left iliac colostomy enables the patient to be free of the [terrible](#) inconvenience of perpetual [soiling](#) in the perineum. Injuries or abnormalities of the spinal cord produce paralysis of the [anal sphincter](#) mechanism and sometimes colostomy is essential. Congenital absence of the [rectum](#) or [anus](#) requires an emergency colostomy within a day or so of [birth](#).