Supplemental table 1: Cost components associated with PICCs

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| --- | --- | --- | --- |
| Cost | Cost components | Cost details | Cost sources |
| Direct | Insertion | Material (catheter, gowns, gloves, preparation set) | SickKids’ Esh-IGT database |
| Labor (Interventional Radiologist, technologist, nurse, anesthetist) |
| Equipment (Fluoroscopy, ultrasound, overhead, maintenance, suite) |
| Complication | Repair/replace/reposition procedure | SickKids’ Esh-IGT database; OHIP Schedule of Benefits, Physicians’ expert opinion;  Electronic Patient Chart |
| Laboratory tests (complete blood count, culture) |
| Imaging (ultrasound, linogram, chest x-ray, venogram) |
| Medications for treatment of complication |
| Emergency room and Clinic visits |
| Nurse assessment | Assessment before insertion, removal &after complication occurs | Prorated nurse salary from SickKids  Nurses’ expert opinion |
| Inpatient care | Professional services, medical imaging, unit medications, nursing, laboratory tests, overhead costs of a ward stay | Decision Support Case Costing of SickKids hospital |
| Removal | Nurse/Interventional Radiologist | Salary level from SickKids |
| Travel | By car or by air | Google map, airline’s ticket price |
| Home care | Home care nurse | Gurriere *et al.*,2010reference number 12 |
| Indirect | Productivity loss | Parent productivity loss | Statistics Canada-Ontario average hourly wages of employees by selected characteristics and occupation |

Supplemental table 2: Data Collection Process

