



DATA TO SUPPORT SELF-SUSTAINMENT RATES FOR LIGHT MOBILE SURGICAL MODULE

Secretariat Issue Paper #12 – Mandated Study

Issue Paper Theme: **Medical**

BACKGROUND

The Light Mobile Surgical Module (LMSM) was added to the Contingent Owned Equipment (COE) Manual in 2020. No reimbursement rate was included as the 'rate of effort' of this capability was unknown. The COE WG requested that the Secretariat collect data and make a recommendation for a reimbursement to be endorsed at the 2023 COE Working Group.

PROPOSAL

At the 2020 COE WG, the addition of the LMSM to the COE manual was endorsed. Details of the module are listed at Chapter 3, Annex C, Appendix 7 of the 2020 edition of the Manual.

Following consultation with three member states¹ who have a similar light mobile surgical capability to that of the LMSM, a list of consumables likely to be held by a LMSM is attached at Annex A. This is based on the module holding sufficient consumables for the surgical management of up to 28 patients as articulated in Chapter 3, Annex C, Appendix 7 of the 2020 edition of the Manual. The value of consumables was estimated at \$24,899.44 (US dollars).

The LMSM has greatest utility in a peacekeeping mission like MINUSMA. Consequently, an analysis of 165 live casualties sustained in that mission during 2021 was conducted. This indicated approximately 38 casualties could have benefitted from the early surgical intervention of the type provided by the LMSM.

A professional judgement was applied as to how many would have been evacuated to a facility like this and how many directly to a Level 2 facility. A figure of 75% was established based on average evacuation time to initial surgery currently achieved in MINUSMA. This suggests that 29 patients would have been admitted had a LMSM been available. However, the dispersion of casualties across the Mission suggests that no more than a third of this figure - or 10 casualties - would be admitted to any one LMSM during any 12-month period. Additional to the 29 casualties requiring immediate lifesaving surgery, it was estimated that a further seven casualties, would receive surgery on an 'opportunity basis' at the LMSM prior to onward evacuation, taking the surgical workload of 17 cases in any 12-month period or 1.4 cases per month.

Based on the distribution of surgical procedures, it is estimated that consumables to the value of \$685.48 would

¹ Spain, UK and Australia



be utilised in each case and \$120.20 of pharmaceuticals, making a total cost of \$805.68 per case. This includes costs for pre-surgical resuscitation and a short period of post operative holding consistent with the LMSM concept of operations.

All medical consumables and pharmaceuticals have a defined expiry date, which will vary between items. A random 25% selection of consumables and pharmaceuticals suggested an average shelf life (production to expiry) of 54 months. Based on a liner turnover of consumables, it is estimated that up to \$328.46 of stock will expire each month.

Combining the cost of surgical procedures ($\$805.68 \times 1.4 = \$1,127.95$) with stock right off (\$328.46), it is estimated that the consumables costs attributed to an LMSM is \$1,456.41 per month.

Currently, one LMSM is deployed. It is reasonable to assume that such a capability will typically support at least one and possibly more Sectors in a peacekeeping mission. As in most missions, the number of personnel attributed to a sector is in the order of 4,000 personnel (a brigade plus other UN staff). It is estimated that the deployed LMSM would typically support a population of approximately 8,000 peacekeepers. On this basis, the reimbursement for consumables is estimated at \$0.19 per capita per month.

PROPOSED MANUAL TEXT

Chapter 8, annex B – “Reimbursement rates for self-sustainment”, under “Medical”, include:

Buddy first aid 2.69

Communal first aid 2.18

Level 1 16.11

Level 2 (including dental and lab) 21.53

Level 3 (including dental and lab) 25.68

Level 2 and 3 combined (including
dental and lab) 35.98

High-risk areas (epidemiological) 9.12

Blood and blood products 2.29

Dental only 2.78

Gynecology 2.13

Laboratory only 4.59

Light Mobile Surgical Module 5.00



FINANCIAL IMPLICATIONS

Assumptions for LSM monthly rate calculations:

- Cost of consumables and drugs:

The list of required consumables and pharmaceuticals provided by MSS reflects the overall value of \$59,140. These items are considered as requirement for the Module for be available at any given point in time in order to be compliant with the 2020 COE Manual requirements and standards for LSM.

Given that the inspections are conducted on a quarterly basis these costs are accepted as average quarterly costs.

In addition, monthly expenses associated with the replacement of consumables and pharmaceuticals are factored into the calculations.

- Dependency:

It is reasonable to assume that such a capability will typically support at least one and possibly more Sectors in a Peacekeeping Mission. As in most missions the number of personnel attributed to a sector is in the order of 4,000 personnel (a brigade plus other UN staff) these numbers are taken as average dependency rate for the purposes of monthly reimbursement rate calculations:

Expenses Category	Cost per quarter, USD	Cost per month, USD	Dependency rate, pers	Monthly rate, USD
Pharmaceuticals	\$ 34,234	\$ 11,411	4,000	\$ 2.85
Consumables	\$ 24,906	\$ 8,302	4,000	\$ 2.08
Expired pharmaceuticals replacement		\$ 190	4,000	\$ 0.05
Expired consumables replacement		\$ 138	4,000	\$ 0.03
	\$ 59,140	\$ 20,042		\$ 5.01

Based on the above assumptions the proposed monthly Self-Sustainment reimbursement rate for LSM is \$5.00 per person per month.

PREVIOUS HISTORY

This issue has not been raised before except when the module was established in 2020 (recommendation at Para 93 of the 2020 COE Working Group Report). This paper was requested by the 2020 WG to establish rates for reimbursement going forward.



LMSM COST TABLE

PHARMACEUTICALS

Ser	Item	Dose	Unit Type	Number Held	Cost Per Item	World Price	Total Cost	Used in Index Case	Cost Per Index Case
1	Adrenaline (epinephrine)	1 mg/ml	1 ml Ampoule	150	\$0.21	\$0.16	\$23.63		\$0.00
2	Amiodarone	50 mg/ml	3 ml Vial	80	\$3.00	\$2.25	\$180.00		\$0.00
3	Amoxicillin and Clavulanic Acid	875/125 mg	Tablets	150	\$0.47	\$0.35	\$52.88		\$0.00
4	Atropine	1 mg/ml	1 ml Vial	100	\$0.13	\$0.10	\$9.75		\$0.00
5	Bupivacaine	5mg/ml	30 ml Vial	60	\$1.90	\$1.43	\$85.50		\$0.00
6	Bupivacaine 5%	5mg/ml	20 ml Vial	30	\$1.05	\$0.79	\$23.63		\$0.00
7	Calcium Chloride	100 mg/ ml	10 ml Vial	80	\$1.00	\$0.75	\$60.00		\$0.00
8	Cefazolin	1 G	1 G Vial	80	\$1.00	\$0.75	\$60.00	8	\$6.00
9	Cisatracurium besilate	10 mg/ml	20 ml Vial	400	\$9.65	\$7.24	\$2,895.00		\$0.00
10	Dexamethasone	4 mg/ml	1 ml Ampoule	100	\$0.11	\$0.08	\$8.25		\$0.00
11	Dexchlorpheniramine	5 mg/ml	1 ml Ampoule	40	\$0.75	\$0.56	\$22.50		\$0.00
12	Gelatin Modified 4 % (Gelofusine)	500ml	IV Bag/Bottle	25	\$5.75	\$4.31	\$107.81	1	\$4.31
13	Dexketoprofen trometamol	25 mg/ml	2 ml Ampoule	75	\$0.00	\$0.00	\$0.00		\$0.00
14	Dextrose 5% in Sodiun Chloride 0.9%	500 ml	IV Bag/Bottle	50	\$0.70	\$0.53	\$26.25		\$0.00
15	Dobutamine	12.5 mg/ml	20 ml Vial	100	\$3.50	\$2.63	\$262.50		\$0.00
16	Dopamine	40 mg/ml	5 ml Vial	80	\$5.00	\$3.75	\$300.00		\$0.00
17	Ephedrine	50 mg/ml	1 ml Ampoule	80	\$17.47	\$13.10	\$1,048.20		\$0.00
18	Esmolol	10 mg/ml	10 ml Vial	30	\$6.00	\$4.50	\$135.00		\$0.00



19	Etomidate	2 mg/ml	20 ml Vial	60	\$1.90	\$1.43	\$85.50		\$0.00
20	Fentanyl	50 Microg/ml	10 ml Vial	400	\$0.65	\$0.49	\$195.00		\$0.00
21	Fibrinogen	20 mg/ml	1 g/100ml Bottle	50	\$10.00	\$7.50	\$375.00		\$0.00
22	Flumazenil	0.1 mg/ml	10 ml Vial	140	\$4.00	\$3.00	\$420.00		\$0.00
23	Furosemide	10 mg/ml	10 ml Vial	80	\$0.12	\$0.09	\$7.20		\$0.00
24	Gentamycin / Sodium Chloride Solution (IV Bag)	1mg/ml	100 ml Bag	80	\$0.00	\$0.00	\$0.00		\$0.00
25	Granisetron	1 mg/ml	3 ml Ampoule	80	\$10.40	\$7.80	\$624.00		\$0.00
26	Halothane 100%	250 ml	250 ml Bottle	5	\$25.00	\$18.75	\$93.75	0.25	\$4.69
27	Human Prothrombin Complex Concentrate	500 Units	500 Unit Vial	20	\$635.00	\$476.25	\$9,525.00		\$0.00
28	Human Tetanus Immunoglobulin	100 IU/ml	250 IU Vial	10	\$3.80	\$2.85	\$28.50	1	\$2.85
29	Imipenem and cilastatin	500/500Mg	500/500 mg Vial	80	\$7.50	\$5.63	\$450.00		\$0.00
30	Isoflurane 100%	250 ml	250 ml Bottle	5	\$25.00	\$18.75	\$93.75		\$0.00
31	Ketamine	50 mg/ml	10 ml Vial	25	\$1.10	\$0.83	\$20.63		\$0.00
32	Levetiracetam	100 mg/ml	5 ml Vial	60	\$0.75	\$0.56	\$33.75		\$0.00
33	Levobupivacaine 0.5%	5 mg/ml	20 ml Vial	60	\$0.89	\$0.67	\$40.05		\$0.00
34	Lignocaine	2 %	30 ml Vial	30	\$1.70	\$1.28	\$38.25		\$0.00
35	Mannitol 25%	250mg/ml	50 ml Ampoule	80	\$4.00	\$3.00	\$240.00	2	\$6.00
36	Mepivacaine 2%	20 mg/ml	20 ml Vial	25	\$12.00	\$9.00	\$225.00		\$0.00
37	Meropenem	500 mg	20 ml Vial	80	\$12.00	\$9.00	\$720.00		\$0.00
38	Meropenem	1G	30 ml Vial	80	\$12.00	\$9.00	\$720.00		\$0.00
39	Metronidazole	5 mg/ml	100 ml Bag	100	\$3.00	\$2.25	\$225.00		\$0.00
40	Midazolam	1 mg/ml	5 ml Ampoule	60	\$1.25	\$0.94	\$56.25		\$0.00



41	Midazolam	5 mg/ml	10 ml Ampoule	140	\$1.80	\$1.35	\$189.00		\$0.00
42	Morphine	10 mg/ml	1 ml Vial	60	\$1.00	\$0.75	\$45.00		\$0.00
43	Naloxone	0.4 mg/ml	1 ml Vial	150	\$1.30	\$0.98	\$146.25		\$0.00
44	Neostigmine	0.5 mg/ml	10 ml Vial	140	\$0.33	\$0.25	\$34.65		\$0.00
45	Nitro-glycerine	5 mg/ml	10 ml Ampoule	20	\$0.00	\$0.83	\$16.60		\$0.00
46	Norepinephrine (Noradrenaline)	1 mg/ml	4 ml Vial	50	\$0.15	\$0.11	\$5.63		\$0.00
47	Omeprazole	40 mg/ml	40 mg Vial	80	\$3.50	\$2.63	\$210.00		\$0.00
48	Paracetamol	500 mg	Tablets	200	\$0.01	\$0.01	\$1.50		\$0.00
49	Pethidine	50 mg/ml	2 ml Ampoule	50	\$2.00	\$1.50	\$75.00	4	\$6.00
50	Phenylephrine	10 mg/ml	10 ml Vial	25	\$4.50	\$3.38	\$84.38		\$0.00
51	Propofol	10 mg/ml	20 ml Vial	200	\$4.40	\$3.30	\$660.00	2	\$6.60
52	Remifentanil	0.5 mg/1ml	10 ml Vial	50	\$65.00	\$48.75	\$2,437.50		\$0.00
53	Ringers Lactate (IV bag)	500 ml	IV Bag/Bottle	100	\$0.70	\$0.53	\$52.50	4	\$2.10
54	Rocuronium	10 mg/ml	10 ml Ampoule	300	\$7.50	\$5.63	\$1,687.50	10	\$56.25
55	Salbutamol	0.5 mg/ml	1 ml Ampoule	100	\$1.10	\$0.83	\$82.50		\$0.00
56	Sodium bicarbonate 4.2%	15 ml	10 ml Vial	60	\$6.00	\$4.50	\$270.00		\$0.00
57	Sodium Bicarbonate 8.4%	10 ml	10 ml Vial	80	\$8.00	\$6.00	\$480.00		\$0.00
58	Sodium Chloride 0.9% (IV bag)	500 ml	IV Bag/Bottle	100	\$0.70	\$0.53	\$52.50	4	\$2.10
59	Sugammadex	100 mg/ml	2 ml Ampoule	75	\$110.00	\$82.50	\$6,187.50		\$0.00
60	Suxamethonium chloride	50 mg/ml	2 ml Ampoule	28	\$0.75	\$0.56	\$15.75		\$0.00
61	Tramadol	50 mg/ml	2 ml Ampoule	150	\$0.12	\$0.09	\$13.50		\$0.00
62	Tranexamic Acid	100 mg/ml	5 ml Ampoule	100	\$4.00	\$3.00	\$300.00	4	\$12.00
63	Urapidil	5 mg/ml	10 ml Vial	25	\$80.00	\$60.00	\$1,500.00		\$0.00
64	Vancomycin	250 mg	250 mg Vial	50	\$4.00	\$3.00	\$150.00		\$0.00



65	Water for Injection	10 ml	10 ml Ampoule	250	\$0.05	\$0.04	\$9.38	10	\$0.38
							\$34,224.14		\$109.28
							\$190.13		\$120.20

Total Cost of Pharmaceuticals: \$34,224.14

Linear monthly expired pharmaceuticals replacement cost: \$190.13*

Pharmaceuticals used per Index Case: \$120.20 (Includes 10% miscellaneous premium).

CONSUMABLES

Ser	Item	Number Held	World Price	Total Cost	Used in Typical Case	Cost Per Typical Mission
1	Tourniquet C-A-T	55	\$13.50	\$742.50	2	\$27.00
2	Combat Gauze	140	\$22.50	\$3,150.00	4	\$90.00
3	Compression Bandage (Israeli Type)	50	\$5.25	\$262.50	2	\$10.50
4	Nasopharyngeal Airway	28	\$3.00	\$84.00	1	\$3.00
5	Guedel Ariways - Various Sizes	30	\$0.56	\$16.88		\$0.00
6	Nasal Cannula	40	\$0.53	\$21.00		\$0.00
7	Venti Mask 35%	40	\$1.88	\$75.00		\$0.00
8	Oxygen Mask, Reservoir	28	\$1.20	\$33.60		\$0.00
9	Capnograph (what element)	40	\$3.90	\$156.00	1	\$3.90
10	Ventilator Circuit Moisture Exchange Filter	30	\$3.19	\$95.63	1	\$3.19
11	Suction Catheter, whistle tip with control	200	\$0.38	\$75.00	6	\$2.25
12	Yankaur Sucker (Disposable)	42	\$0.75	\$31.50	1	\$0.75
13	Nasogastric Tube	42	\$0.94	\$39.38	1	\$0.94



14	Suction Tubing	42	\$0.68	\$28.35	2	\$1.35
15	Emergency Cricothyrotomy Kit - Disposable	5	\$56.25	\$281.25		\$0.00
16	Laryngeal Masks Sizes 3,4,5, 6 (x 4 each)	16	\$10.13	\$162.00		\$0.00
17	Endotracheal Tube (Cuffed) 6, 6.5, 7, 7.5, 8, 8.5	45	\$1.13	\$50.63	2	\$2.25
18	Endotracheal Tube Introducer (disposable)	40	\$0.49	\$19.50	1	\$0.49
19	Endotracheal Tube Introducer - Frova (disposable)	30	\$9.00	\$270.00		\$0.00
20	Chest Drainage Set - Pleurevac - 1,900 ml	10	\$63.75	\$637.50	1	\$63.75
21	Chest Drain Valve, Heimlich	10	\$9.00	\$90.00		\$0.00
22	Chest Drain Tube 32FG	28	\$9.38	\$262.50		\$0.00
23	ECG Electrodes - Box of 100	4	\$3.38	\$13.50	0.1	\$0.34
24	Defibrillator Gell - Tube - 8oz	2	\$4.50	\$9.00		\$0.00
25	Ultrasound Gell - Bottle -8.5ozs	4	\$4.50	\$18.00		\$0.00
26	Cuff, Pneumatic Tourniquet, Disposable	56	\$9.38	\$525.00	1	\$9.38
27	Intravenous Catheter, with IV Port (14,16,18, 20 gauge) - x 30 Each size	120	\$1.39	\$166.50	4	\$5.55
28	Intravenous Catheter, Winged (butterfly type) (14,16,18, 20 gauge) - x 30 Each size	120	\$0.38	\$45.00	2	\$0.75
29	Intraosseous Catheter (Adult)	40	\$90.00	\$3,600.00	1	\$90.00
30	IV Blood/Fluid Warming Set	60	\$6.75	\$405.00	2	\$13.50
31	Mylar Thermal Blanket	30	\$1.13	\$33.75	1	\$1.13
32	IV Giving Set, Gravity Fed, 15 Drops/ml, With Slip Y Site	140	\$1.88	\$262.50	2	\$3.75
33	IV Giving Set, for IV Pump Use	120	\$4.88	\$585.00	2	\$9.75
34	IV Giving Set, Blood, Gravity Fed	45	\$3.00	\$135.00	2	\$6.00
35	IV Three-Way Stop Cock with Extension Tube	100	\$0.38	\$37.50	4	\$1.50
36	IV Three-Way Stop Cock	60	\$0.23	\$13.50	1	\$0.23
37	IV Extension Set with Small Bore T Port (Luer Lock/Injection Port)	40	\$1.69	\$67.50	1	\$1.69
38	IV Giving Set with in Line Regulator (Dial-a-Flow type)	20	\$1.50	\$30.00		\$0.00



39	Central Venous Catheter - Triple Lumen	28	\$30.00	\$840.00	1	\$30.00
40	Arterial Catheter Set - Seldinger	28	\$30.00	\$840.00	1	\$30.00
41	Arterial Pressure Monitoring Transducer Set	50	\$112.50	\$5,625.00	1	\$112.50
42	Suture, Absorbable, Braid, Vicryl, 0 US/3.5 E, 90 cm, needle: 1/2-36 mm round, Ref. J346H	24	\$4.54	\$108.90		\$0.00
43	Suture, Absorbable, Braid, Vicryl, 1 US/4 E, 90 cm, needle: 1/2-40 mm round, Ref. J359H	24	\$5.85	\$140.40		\$0.00
44	Suture, Absorbable, Braid, Vicryl, 2-0 US/3 E, 90 cm, needle: 1/2-26 mm round, Ref. D7510	24	\$16.13	\$387.00		\$0.00
45	Suture, Absorbable, Braid, Vicryl, 2 US/5 E, 75 cm, needle: 3/8-85 mm round, liver	24	\$16.13	\$387.00		\$0.00
46	Suture, Absorbable, Braid, Vicryl, 3-0 US/2 E, 70 cm, needle: 1/2-22 mm round, Ref. J311H	24	\$4.84	\$116.10		\$0.00
47	Suture, Absorbable, Braid, Vicryl, Ligature 0 US/3.5 E, 135 cm, Ref. J616H	24	\$4.39	\$105.30	1	\$4.39
48	Suture, Absorbable, Braid, Vicryl, Ligature 2-0 US/3 E, 135 cm, Ref. J615H	24	\$7.50	\$180.00	1	\$7.50
49	Suture, Non-Absorbable, Mono Polypropylene, 0 US/3.5 E, 45 cm, needle: 3/8-30 mm cut, Ref. EH7920H	24	\$2.18	\$52.20		\$0.00
50	Suture, Non-Absorbable, Mono Polypropylene, 1 US/4 E, 45 cm, needle: 3/8-30 mm cut, Ref EH7124H	144	\$3.53	\$507.60	4	\$14.10
51	Suture, Non-Absorbable, Mono Polypropylene, 2-0 US/3 E, 75 cm, needle: 3/8-30 mm cut, Ref. EH7697H	144	\$2.48	\$356.40	4	\$9.90
52	Suture, Non-Absorbable, Mono Polypropylene, 3-0 US/2 E, 75 cm, needle: 3/8-24 mm cut, Ref EH7694H	72	\$1.35	\$97.20		\$0.00
53	Suture, Non-Absorbable, Mono Polypropylene, 5-0 US/1 E, 75 cm, double needle: 1/2-13mm round, Ref. 8710H	24	\$19.50	\$468.00		\$0.00
54	IV Dressing (Tegaderm type or similar)	120	\$0.30	\$36.00	4	\$1.20
55	Lumbar Puncture Kit (Disposable)	5	\$20.25	\$101.25		\$0.00
56	Epidural Kit (Disposable)	20	\$26.25	\$525.00		\$0.00
57	Nerve Block Needle 22G with Extension.	20	\$6.75	\$135.00		\$0.00



58	Blood Pressure Cuff - Disposable Adult	28	\$5.25	\$147.00		\$0.00
59	Syringe - Insulin	40	\$0.05	\$2.10	2	\$0.11
60	Syringe - 2 ml (Leur Lock)	200	\$0.05	\$10.50	4	\$0.21
61	Syringe - 5 ml (Leur Lock)	200	\$0.06	\$12.00		\$0.00
62	Syringe - 10 ml (Leur Lock)	200	\$0.08	\$16.50		\$0.00
63	Syringe - 20 ml (Leur Lock)	100	\$0.13	\$12.75		\$0.00
64	Syringe - 50 ml (Leur Lock)	100	\$0.27	\$27.00	2	\$0.54
65	Syringe - 60 ml (Catheter spigot)	25	\$0.21	\$5.25		\$0.00
66	Needle - 16G	200	\$0.08	\$16.50		\$0.00
67	Needle - 21G	200	\$0.08	\$16.50	5	\$0.41
68	Needle - 23G	200	\$0.08	\$16.50	4	\$0.33
69	Needle - 25G	150	\$0.08	\$12.38	3	\$0.25
70	Ear Plugs - Pairs - Disposable	60	\$0.15	\$9.00		\$0.00
71	Forceps - Dressing - Disposable	70	\$0.08	\$5.25	5	\$0.38
72	Surgical Tape - Transpore type 2in x 10 yard	25	\$0.53	\$13.13	1	\$0.53
73	Surgical Tape - Transpore type 1in x 10 yard	25	\$0.38	\$9.38		\$0.00
74	Chlorhexidine 2% - 500 ml Bottle	10	\$4.50	\$45.00	0.5	\$2.25
75	Urinary Catheter Foley (14 FG x 16 FG x 14 each)	28	\$1.20	\$33.60	1	\$1.20
76	Urinary Bag - With Drain - 2,000 ml	40	\$0.45	\$18.00	1	\$0.45
77	Fenestration Towel/Drape, 18" x 26" - Disposable	100	\$2.06	\$206.25	3	\$6.19
78	Lubrication Gel (KY type) Tube (82G)	10	\$1.50	\$15.00	0.2	\$0.30
79	Sterile Gauze 5cm x 5cm - Bag of 10	25	\$0.38	\$9.38	0.25	\$0.09
80	Sterile Gauze 10cm x 10cm - Bag of 10	25	\$0.45	\$11.25	0.25	\$0.11
81	Sterile Gauze 10cm x 10cm - Radiopaque Bag of 10	100	\$0.83	\$82.50	5	\$4.13
82	Sterile Gauze 10cm x 20cm - Radiopaque Bag of 10	50	\$0.90	\$45.00	2	\$1.80
83	Surgical Laparotomy Sponge 30 x 30 - Radiopaque - Bag of 5	50	\$3.75	\$187.50	4	\$15.00



84	Crepe Bandage 10cm x 4.5m	100	\$0.30	\$30.00	2	\$0.60
85	Crepe Bandage 5cm x 4.5m	75	\$0.26	\$19.69	1	\$0.26
86	Elastic Adhesive Bandage 10cm x 4m	30	\$3.75	\$112.50		\$0.00
87	Transparent Film Dressing 15cm x 20cm	75	\$0.38	\$28.13	1	\$0.38
88	Transparent Film Dressing 10cm x 12cm	75	\$0.30	\$22.50	1	\$0.30
89	Surgical Gown - Disposable	60	\$1.13	\$67.50	4	\$4.50
90	Sterile Surgical Gloves sizes 6.5 to 9	75	\$0.45	\$33.75	4	\$1.80
91	Examination Gloves, nitril, box of 100	7	\$3.00	\$21.00	6	\$18.00
92	Sharps Boxes 5 L	35	\$1.13	\$39.38	0.5	\$0.56
				\$24,899.44		\$623.16
				\$138.33		\$685.48

Total Cost of Consumables: \$24,899.44.

Linear monthly expired consumables replacement cost: \$138.33*.

Consumables used per Index Case: \$685.48 (Includes 10% miscellaneous premium).

Linear monthly expired stock replacement cost (Pharmaceuticals + Consumables): \$328.46*.

Total Cost per index case (Pharmaceuticals + Consumables): \$805.68

*Linear consumption for replacement of unused expired stock is based on a nominal five-year shelf life for items. Therefore, every month a nominal value of 1:60 of the stock will expire if none were used. However, some stock will be consumed in normal patient care. It is assumed up to 30% of stock will have to be written-off and replaced over time without use.