

Costing Assessment for the Levonorgestrel Intrauterine System (LNG-IUS) in Nigeria

December 2018



Calculating the direct service delivery costs per Couple Years of Protection (CYP) for FP methods



Cost input	Information Source
Commodity costs to international procurers	UNFPA product catalogue ¹
Direct labor for counseling, insertion, removal, and resupply (if required)	Questionnaires administered among Society for Family Health providers
Consumable supplies and equipment*	UNFPA price catalogue and local information from Society for Family Health
CYP conversion factors	USAID guidelines ²

*Equipment divided by estimated number of uses over lifetime of instrument

1- UNFPA product catalogue: <https://www.unfpaprocedurement.org/products>

2- USAID CYP factors: <https://www.usaid.gov/what-we-do/global-health/family-planning/couple-years-protection-cyp>

Costing Inputs – Staff time



Provider estimates of time spent for (minutes) on insertion:

Method Type	Average time (mean), in minutes	Average time (median), in minutes	Range, in minutes
LNG-IUS	9	7	4-30
Copper IUD	10	10	3-40
2-rod Implant	11	10	3-38
1-rod Implant	7	5	2-25



Provider estimates of time spent for (minutes) on removal:

Method Type	Average time (mean), in minutes	Average time (median), in minutes	Range, in minutes
LNG-IUS	4	3	1-5
Copper IUD	4	4	1-8
2-rod Implant	21	20	3-50
1-rod Implant	14	13	2-30

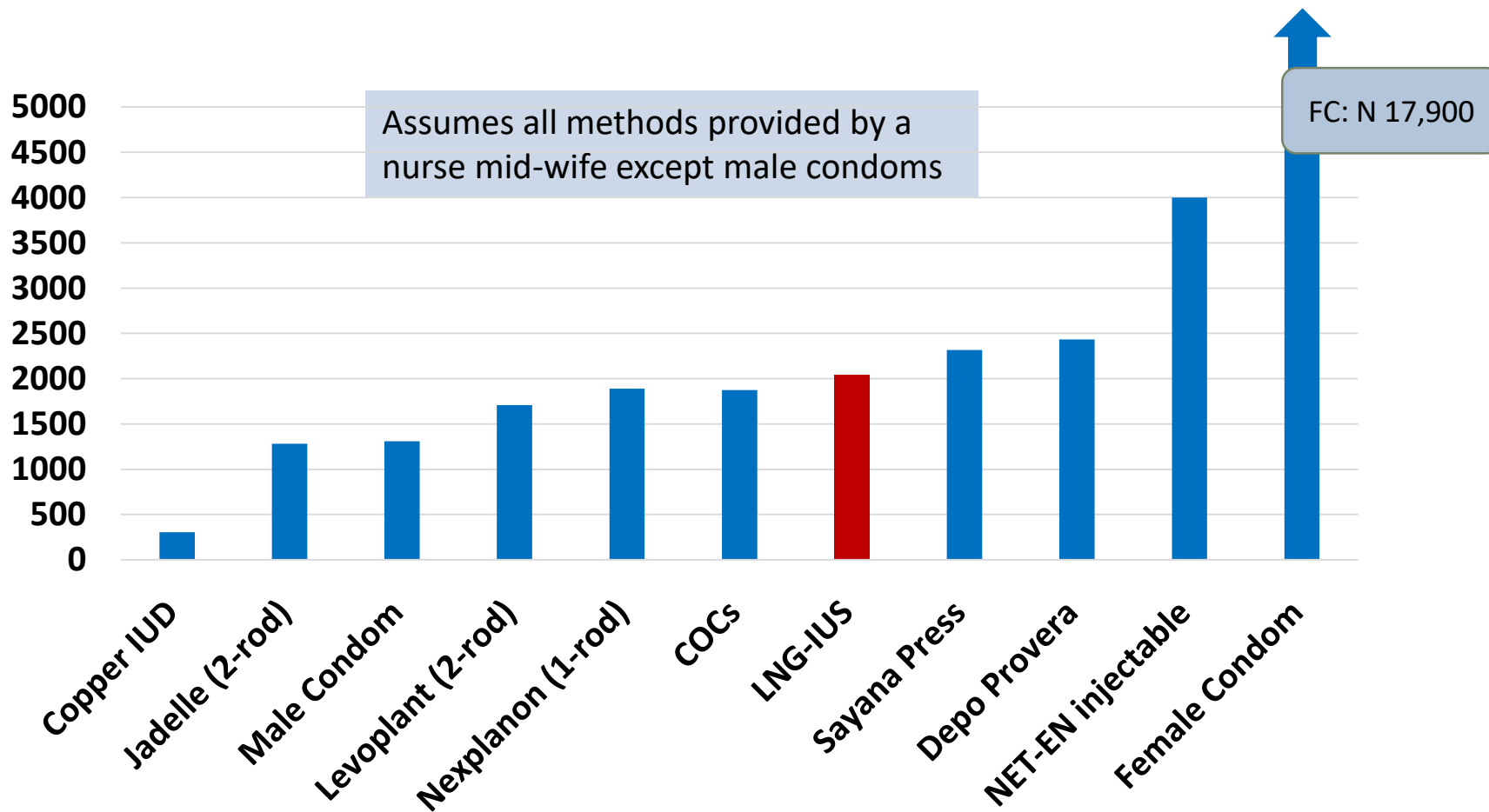


Costing Inputs – Couple Years Protection conversion factors & commodity costs



Method	CYP Per Unit	Commodity cost per unit (Naira)
Copper-T 380-A IUD	4.6 CYP per IUD inserted	N 115
LNG-IUS	3.3 for 5-year LNG-IUS	N 5460 (average price; varies by volume)
Nexplanon (2-rod; 3 years duration)	2.5 CYP per implant	N 3094
Levonplant (2-rod; 3 years duration)	2.5 CYP per implant	N 2512
Jadelle (2-rod; 5 years duration)	3.8 CYP per implant	N 3094
Oral Contraceptives	15 cycles per CYP	N 91
Male Condoms	120 units per CYP	N 11
Female Condoms	120 units per CYP	N 146
Sayana Press (DMPA-SC) Injectable	120 units per CYP	N 309
Depo Provera (DMPA-IM) Injectable	4 doses per CYP	N 339
Noristerat (NET-EN) Injectable	6 doses per CYP	N 419

Direct Service Delivery Costs per CYP (in Naira) with LNG-IUS at N 5460/unit and 5-year duration



Approach adapted from: Rademacher KH, Solomon M, Brett T, Bratt JH, Pascual C, Njunguru J, Steiner MS. Expanding access to a new, more affordable levonorgestrel intrauterine system in Kenya: A comparison of service delivery costs and perspectives from Key Opinion Leaders. *Glob Health Sci Pract.* 2016;4 Suppl 2:S83-S93.

Summary

- The direct service delivery costs of the LNG-IUS per couple years of protection are comparable with other contraceptive methods that are available in Nigeria.