

Participant Evaluation of the Association of Urological Surgeons of Nigeria Endourology Workshops: 2019 Survey Report

Samuel O. OSAGHAE¹², Venyir RAMYIL³⁴, Evaristus AZODOH⁵, Alexander NWOFOR⁶⁷

¹Department of Surgery, University of Benin Teaching Hospital, Benin City, Edo State, Nigeria. ²College of Medical Sciences, School of Medicine, University of Benin, Benin City, Edo State, Nigeria. ³Department of Surgery, University of Jos Teaching Hospital, Jos. ⁴College of Medicine, University of Jos, Nigeria ⁵Chivars Specialist Hospital and Urology Centre, Abuja. ⁶Department of Surgery, Nnamdi Azikiwe University Teaching Hospital, Nnewi, Nigeria. ⁷College of Medicine, Nnamdi Azikiwe University, Nnewi, Nigeria.

ABSTRACT

This study presents an evaluation of feedback from participants who attended the first- and second-quarter Endourology Workshops organized by the Nigerian Association of Urological Surgeons (NAUS) in 2019. Participants completed a structured questionnaire assessing workshop content, faculty performance, documentation, relevance, benefits, deficits, and service quality. A total of 75 respondents participated: 26 consultants, 16 residents, 25 nurses, and 8 technicians. Overall ratings for course content, faculty assessment, and service quality were consistently high. Participants recommended inclusion of more advanced topics such as percutaneous nephrolithotomy, laser lithotripsy, urethroplasty, and theatre management. The overall assessment of the workshops was very good.

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*Correspondence

Samuel O. Osaghae
Email: samuel.osaghae.uniben.edu;
 sosaghae@aol.com
Tel: +234705 2770553

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INTRODUCTION

Historically, endourology was underdeveloped in Nigeria, with open surgery being the primary modality for managing bladder outlet obstruction, bladder tumours, and urinary stones. By the early 2000s, concerns emerged within Nigerian Association of Urological Surgeons, NAUS regarding limited uptake of endourological techniques, leading to collaboration with Karl Storz Endoscopy and eventual discussion and consensus on establishment of structured endourology workshops during the annual meeting of NAUS held in Calabar, Cross River State in 2007. The first pre-conference workshop was held in Jos University Teaching Hospital (JUTH), Jos, in 2008. The workshop was fully sponsored by Karl Storz Endoscopy. Subsequently, a pre-conference workshop was held annually for five years. During the NAUS meeting in Lagos, in 2013, it was decided to change the frequency of the workshops to thrice yearly at quarterly intervals.

Since then, the workshops have in general taken the format of a combination of masterclasses by invited faculty and performance of key

in November 2017, he was succeeded by Dr Samuel Osaghae who is the current coordinator.

Rationale for evaluation of the impact of NAUS endourology workshops

The faculty usually comprise experienced urological surgeons who hold appointments in university teaching hospitals or work in the private sector. They are selected based on evidence of specialized knowledge, breadth of skill and experience. In a workshop, the tasks of workshop faculty include but are not limited to introduction of topics and procedures of interest, to make the procedures accessible and understandable to participants including discussing complications.¹ Furthermore, expected outcomes should be specified and evaluated from the perspectives and needs of the participants to ensure the goals set are achieved and to improve future workshops.^{1,2} The

endourological procedures. The scope of each workshop was determined by the hosts but usually encompassed the basic endourological procedures of cystoscopy, bladder biopsy, urethrotomy, transurethral resection of the prostate (TURP), transurethral resection of bladder tumour (TURBT), insertion of ureteral stents, ureteroscopy and in-situ lithotripsy with pneumatic or laser device, instrumentation, equipment handling and sterilization. Endourological theatre management, patient selection, pre-operative assessment, anesthesia, and post-operative care were also included. The attendees have usually included Consultant Urologists, Urology Residents, Nurses, Radiologists, Radiographers, Anaesthetists, Technicians, and equipment suppliers. The pioneer coordinator was Professor Venyir Ramyil. He was appointed at the NAUS Conference, Calabar in 2007 and served in that capacity until 2014. He was succeeded by Dr Evaristus Azodoh in 2015. At the time of the NAUS pre-conference workshop in University of Benin Teaching Hospital (UBTH), Benin City i

overarching aspiration is to inspire and assist participants to gain experience and improve skills they will find useful both within and outside the operating room.^{3,4} For reliability and validity, the feedbacks from the participants should be obtained immediately following presentations and discussions.¹

Based on these principles, this article presents evaluation of feedbacks received from delegates at the first and second quarter endourology workshops organized by NAUS at the Lagos University Teaching Hospital, LUTH and University of Port Harcourt Teaching Hospital, UPTH respectively in 2019.

MATERIALS AND METHODS

A structured 25-item questionnaire was administered to attendees at the NAUS

endourology quarterly workshops which held at the Lagos University Teaching Hospital (LUTH), Lagos and University of Port Harcourt Teaching Hospital (UPTH) respectively in 2019. Items assessed were participants demographics, workshop content, faculty assessment, workshop organization, and areas for improvement. Data were analysed using Microsoft Excel 2007 and SPSS version 22.

RESULTS

A total of 75 respondents completed evaluation forms, including 35 consultants (46.7%), 16 Urology residents (21.3%), 18 nurses (24%), and 6 technicians/equipment suppliers (8%) (Figure 1). There were 31 respondents in LUTH (41.3%) and 44 in UPTH (58.7%).

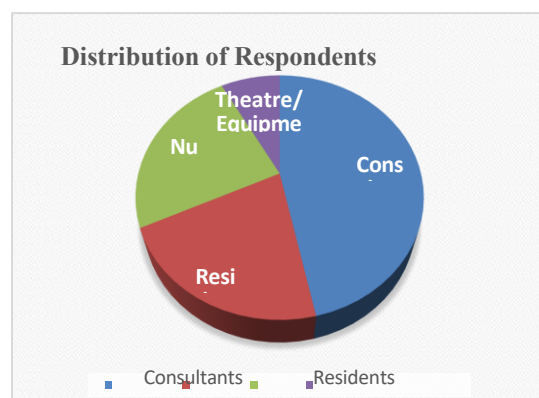


Figure 1: Distribution of study participants

Activities and Events in the workshops

The highlights of the activities during the workshops in LUTH and UPTH are shown in Table 1.

Table 1: Main events in the workshops

LUTH	UPTH
Practical demonstrations and live participation TURP	Practical demonstrations and live participation TURP
Practical demonstration of endourology instruments including care and sterilization	Practical demonstration of endourology instruments including care and sterilization

Role of the nurse in endourology theatre set up and instrument sterilization
Live demonstration/procedural aspects of TURP, ureteroscopy, laser/pneumatic lithotripsy and radical prostatectomy
Practical for nurses
Questions and answers

Role of the nurse in endourology theatre set up and instrument sterilization.
Practical demonstration/procedural aspects of TURP, Ureteroscopy, laser lithotripsy and laparoscopic de-roofing of renal cyst
Practical for nurses
Questions and answers

Key aspects of the workshop evaluation by the respondents

Overall rating of the Workshops

The rating of course content, tutor assessment and service quality are illustrated in Table II. Overall, the rating for UPTH was a slight improvement compared to LUTH, but there was no statistically significant difference in outcomes.

Table 2: Workshop evaluation

Parameters	LUTH	UPTH	P value	Overall Score	Max scale score
Course content	3.02	3.23	0.004	3.16	4
Tutor assessment	3.35	3.43	0.085	3.40	4
Service quality	3.05	3.29	0.002	3.23	4

The participants' rating of the course content in the two workshops is illustrated in Figure 2. Majority of the respondents rated the relevance of the workshops as very high or high.

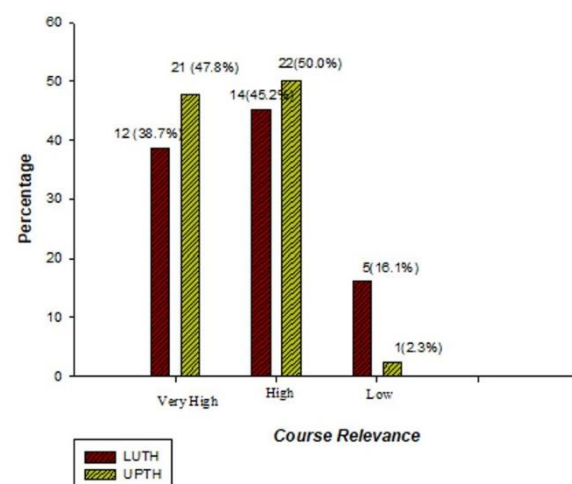


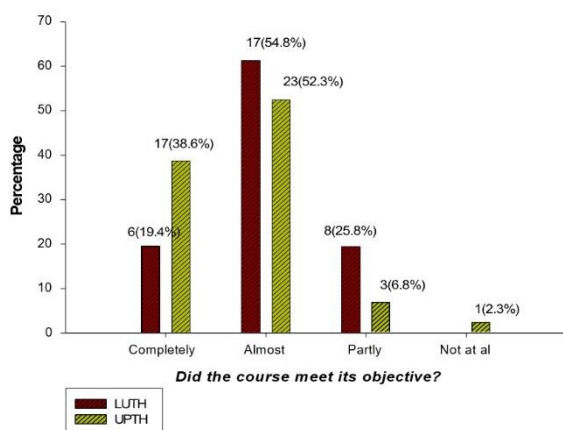
Figure 2: Participants assessment of workshop relevance.

The majority of participants rated the quality of course materials, course delivery and operations as mostly good and excellent (Table 3).

Table 3: Participants Evaluation of Workshop delivery, course material and operations performed

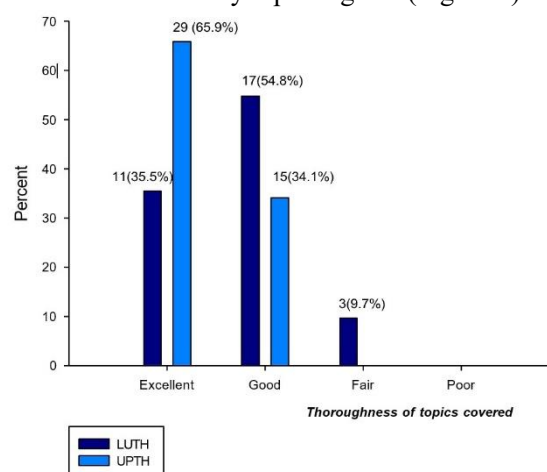
Parameter	Hospital	Excellent	Good	Fair	Poor
Course Delivery	LUTH	11(35.5%)	19(61.3%)	1(3.2%)	0 (0%)
	UPTH	23(52.3%)	17(38.6%)	4 (9.1%)	0(0%)
Quality of Course Material	LUTH	3(9.7%)	20(64.5%)	6(19.4%)	2(6.5%)
	UPTH	10(22.7%)	26(59.1%)	4(9.1%)	4(9.1%)
Quality of Operations	LUTH	6(19.4%)	22(71.0%)	3 (9.7%)	0(0.0%)
	UPTH	11(25.0%)	23(52.3%)	6(13.6%)	4(9.1%)

Majority of the attendees reported that the objectives of the workshop were completely or partially achieved (Figure 3). However, 20 (64.5%) and 25 (56.8%) of respondents at LUTH and UPTH respectively, reported that aspects of the course needed more time than was allocated in the schedule.

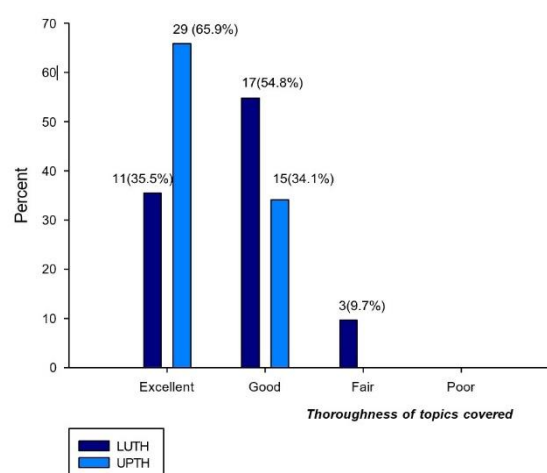
**Figure 3: Participants Perception of Achievement of the workshop objectives**

Knowledge and skills of Workshop Faculty

Perceptions of the respondents of the knowledgeability and technical skills of the faculty with respect to the topics taught were mostly good or excellent with minority reporting fair (Figure 4).

**Figure 4: Participants Perception of the Knowledge and skills of the Workshop Faculty**

The perceptions of the respondents about the thoroughness with which the workshop faculty covered the topics was mostly excellent and good with a minority reporting fair (Figure 5).

Figure 5: Participants perception of the thoroughness of the workshop faculty in covering the topics

Participants feedback on the non-technical skills of the faculty is shown in Figure 6. The feedback of 28 (37.3%) was excellent, while 43 (57.3%) reported good.

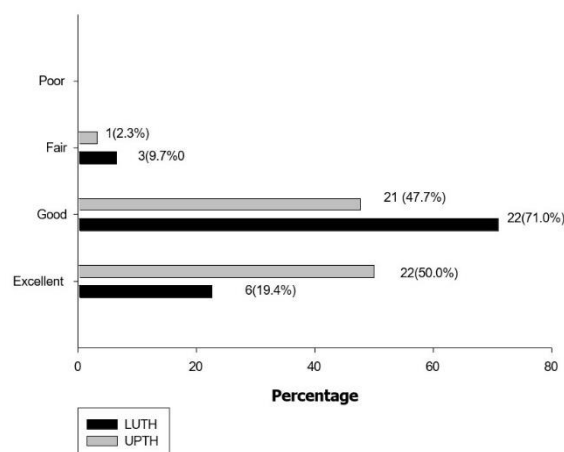


Figure 6: Participants assessment of the non-technical skills of Workshop Faculty

Reported Useful Aspects of the Workshops at LUTH and UPTH

The individual comments on the useful aspects of the workshop as reported by respondents in LUTH and UPTH are as follows:

LUTH

- All aspects
- Upper tract and Radical prostatectomy
- Running commentary on the procedure: Question and answers
- Lithotripsy and ureteroscopy
- Patient preparation and instrumentation
- Radical prostatectomy
- RIRS + TURP
- Tips and tricks in endourology and radical prostatectomy
- TURP Tips / instrument demonstration
- TURP, Semi rigid ureteroscopy
- TURP, upper tract procedures
- TURP, ureteroscopy

- Upper tract endoscopy

UPTH

- All Aspects
- Invitation of Radiologist to Talk on Radiation
- PCNL & ESWL Lecture
- Kidney Stone Removal Procedure
- Lectures, Presentation, Live Operations, Teachings in fact all Parts
- Theatre and Practical Development
- Demonstration of TURP Procedure
- Roles Of Nurses/ Live Surgery/Live Endoscopy
- Interactive Session while the operation was on
- The Role of the Nurse in Endoscopic Care and Maintenance of Instrument
- Upper Tract Endoscopy
- Discussion of TURP Theory and Practical, RIRS, TURBT/Urethroplasty
- Tips and Tricks
- Radical prostatectomy

Recommended Topics for Inclusion in Future workshops

Feedback by participants on topics to improve future workshops was sought at LUTH and UPTH. The common comments and suggestions in the hospitals were as follows:

LUTH

- Balloon dilation of PUJ obstruction, ESWL, Cystolitholapaxy
- Care of the instruments as nurses partake in the workshop
- Hands-on should be included during the workshop. Availability of manikin
- Hypospadias repair, other paediatric urologic surgeries
- Laser lithotripsy
- Laser TURP, HOLEP, PCNL; RIRS; TURBT
- PCNL and Nephrostomy tube,

- Laparoscopic nephrectomy
- Percutaneous nephrolithotomy
- Percutaneous nephrostomy, Urethroplasty, Open prostatectomy (Retropubic)
- Update lectures in areas around the workshop theme
- Upper tract, stone

UPTH

- More upper tract procedures
- Management of bladder spasm during TURP
- Identification of urological equipment and instruments; post-operative care of surgical instruments
- Catalogue of instruments
- TRUS prostate biopsy
- Indications for endourology
- BPH and Priapism
- Nurse role in setting up theatre
- Other invasive surgeries for BPH apart from TURP
- Use of flexible cystoscope and ureteroscope
- Buccal mucosa graft urethroplasty
- Urethroplasty for PFUDD
- Theatre time management
- Laparoscopy

Opportunity for development of New Skills

Most of the workshop participants reported that they developed new skills from the workshops as illustrated in figure 7.

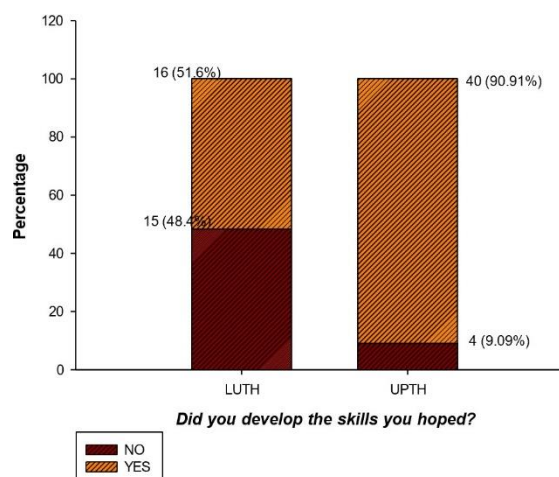


Figure 7: Workshop opportunities for new skills development by participants

The self-reported areas where new skills were developed during the workshops are presented below:

LUTH

- Better equipped for TURP, radical prostatectomy.
- Confidence to do the procedure
- Endo-urological procedures for upper tract
- Endoscopy
- Improved TURP skills
- Lithotripsy
- Necessary consumables
- Dos and don'ts of TURP and RIRS
- Percutaneous nephrostomy
- Practical maneuvers in upper tract endoscopy and safety precautions
- Tips of TURP; ureteroscopy and precautions to be taken before embarking on those procedures.
- The radical prostatectomy operation was very interesting.

UPTH

- Laparoscopy & endourology; management of delicate instruments

- In-depth knowledge of urology surgeries and care of instruments
- Knowing more about the scopes
- Motivation to study
- Urology practical nursing
- Certification on training
- Principle of PCNL
- Endoscopic instrument care
- Enlightenment on urology and its procedures
- Lower tract endoscopy
- Cystoscopy, instrumentation
- Laparoscopy/PCNL
- TURP under saline
- Safety

CONCLUSION

The evaluation provided valuable feedback regarding workshop content, faculty, and organization. Participants strongly endorsed the workshop programme and suggested expanding content to cover a wider range of urological

procedures. These insights will strengthen future NAUS endourology workshops.

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