

open surgery. However, the results must be interpreted with caution given the potential risk of bias derived from the relatively small sample size and the single-centre, retrospective nature of the study.

Conclusion In the present study, we did not find statistically significant differences between LRH and ORH for the treatment of early-stage cervical cancer in terms of disease-free survival and overall survival.

Disclosures Nothing to disclosure.

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CERVICAL ONCOLOGICAL CYTOLOGIES'S (PAP TEST) EVALUATION OF THE RIVERINE WOMEN FROM RIVERS TAPAJÓS AND CUPARI (PARÁ – BRAZIL)

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Introduction/Background Cervical cancer is the most prevalent in Brazil North Region. There are few studies about cervical injuries in the riverine women. The knowledge of these characteristics could improve health assistance to these women, contributing to health policies that benefit this population. Objective: This paper aims to evaluate the cervical oncological cytologies of the riverine women from rivers Tapajós and Cupari (Pará - Brazil).

Methodology A partnership between SLMandic Medical School and the local Cities of Santarém, Aveiro and Belterra (State of Pará, Brazil) Government was established through 'Barco da Saúde' (Health Boat) project. The Counties have provided a Hospital Boat named 'Abaré'. SLMandic has provided a team made up by professors and medical students. Services in pediatrics, gynecology and obstetrics, dermatology, ophthalmology and odontology were provided. In 2019, the activities were held between July 27nd and August 5th, 206 gynecological and obstetric appointments were made and 133 cervical oncological cytologies were collected. Epidemiological data were collected from anamnesis form designed specifically for the expedition. The reading of the cytology slides was performed and de injuries classified among high grade lesions (HSIL), low grade lesions (LSIL), scaly lesions of undetermined significance (ASC-US), and glandular lesions of undetermined significance (ASCH). Pathological agents found have also been described. The samples were classified between satisfactory and unsatisfactory. Finally, statistical analysis of data was done.

Results Out of 206 gynecological and obstetric appointments, 132 (64.1%) cervical cytologies were collected. Among these patients, 100 (75.75%) were screening age (25–65 years old). Median of patients age was 34.4 years old. About 128 (97%) samples were satisfactory for analysis. Cervical cancer screening was the objective of the exam in 101 (76.5%) of the cases. Related to associated microorganisms, *Lactobacillus* sp. were present in 68 (51.5%), *Gardnerella vaginalis* in 13 (9.8%), *Candida* sp. in 8 (6%) *Trichomonas vaginalis* in 2 (1.5%), in addition to others less prevalent. Inflammatory cells were present in 126 (95.5%) of the cases. The main diagnosis was benign cellular changes (122 – 92.5%) and atypical squamous cells of undetermined significance, ASC-US, 6 (4.5%). Were performed 7 (5.3%) biopsies, being 3 (42.9%) cervical polyps and 4 (57.1%) nonspecific chronic cervicitis.

Conclusion Despite difficulties to access health care, health indicators were better than expected. There was good cytological coverage and no high-grade lesions were found.

Disclosures Authors declare no conflict of interest.

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A CLINICAL STUDY ON THE APPLICATION OF 3D-PRINTING MINIMALLY INVASIVE-GUIDED TEMPLATE IN BRACHYTHERAPY OF PATIENTS WITH LOCALLY ADVANCED CERVICAL CANCER

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Introduction/Background To explore the clinical application of three-dimensional (3D)-printing minimally invasive-guided template in brachytherapy of patients with locally advanced cervical cancer.

Methodology From May 2016 to December 2018, 59 patients (age, 23–78 years old; median age, 57 years old) with locally advanced cervical cancer. All patients were treated with radical radiotherapy, in which external irradiation was performed, and 3D conformal and intensity-modulated radiotherapy was carried out with a radiation dose of 45 Gy in 25 fractions of 1.8 Gy per day. The included patients were randomly divided into 2 groups according to random number table method. In the template group, 29 patients assisted by 3D-printing templates to place intrauterine tubes and implant for insertion of needles. In the free implantation group, 30 patients were assisted with freehand implanted intrauterine tubes and implant needles. All patients underwent Computed Tomography (CT) to adjust the position and depth of the insertion needle, and the final CT image was transmitted to the Oncentra brachytherapy planning system, to outline the target area and organs at risk, make treatment plans, and perform treatment.

Results A total of 283 times of combination of intra-luminal and interstitial insertion radiotherapy were undertaken, and a total of 283 times of post-loading radiotherapy plan were formulated, including 141 times in template group and 142 times in free insertion radiotherapy. Complete Response (CR) rate in the template group (24/28;85.71%) was slightly higher than that in the free transplantation group (22/28; 78.57%). There was no significant difference in short-term efficacy between the two groups ($z=-0.692$, $P>0.05$). Importantly, D90 (90% of the target volume) of High-Risk Clinical Target Volume (HR-CTV) and Intermediate-Risk Clinical Target Volume (IR-CTV) in the template group were significantly higher than those in the free implantation group ($t = 3.42$, 2.13 , $P<0.05$). D2 cm³ of bladder, rectum and sigmoid colon was significantly reduced ($t = -2.59$, -4.22 , -2.01 , $P<0.05$). Therefore, the incidence of grade 1, 2 and 3 acute radiation proctitis in the template group was noticeably lower than that in the free transplantation group ($z = -2.112$, $P<0.05$). However, there was no significant difference in the incidence of acute radioactive cystitis between the template group and the free implantation group ($z=-1.686$, $P > 0.05$).

Conclusion For large-block or eccentric cervical cancer, application of the 3D-printing minimally invasive-guided template in brachytherapy of patients with locally advanced cervical