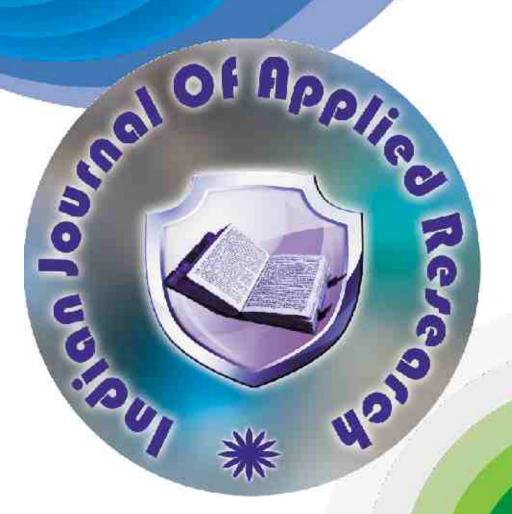
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Index

Sr. No	Title	Author	Subject	Page. No.
1.	Assay Of Triphenylmethane Reductase Enzyme And PCR- Based Identification Of TMR Gene In Enterobacter Asbriae Strain XJUHX-4TM	Tina Mukherjee, Moumita Bhandari, Manas Das	Biotechnology	1-2
2.	An Analysis Of Growth Of Credit Card Industry	Dr. A. Vinayagamoorthy, K. Senthilkumar	Commerce	3-5
3.	Impact Of Pre-Merger And Post Merger On Financial Performance (With Reference To Private Sector Banks)	Dr. Shital Vekariya	Commerce	6-8
4.	Relativity On Climate And Competencies In Human Resource Development With Reference To Neyveli Lignite Corporation Ltd,	S. Jayakumar. Dr. R. Ramachandran	Commerce	9-11
5.	Human Resource Outsourcing: A Strategy For Gaining Competitive Advantage	Dr. Santosh M. Singh	Commerce	12-13
6.	Relationship Between EVA And ROI And MVA (A Case Study Of Ten Manufacturing Industries In India)	Dr. Shivani Gupta	Commerce	14-15
7.	Modeling The Traits Of An Effective Teacher At Higher Education	Dr. Haridayal Sharma	Commerce	16-17
8.	Mahatma Gandhi National Rural Employment Guarantee Act (Mgnrega): Issues And Challenges	Dr. Mohd. Ashraf Ali, Mushtaq Ahmad	Commerce	18-20
9.	Standardisation And Grading	Viram. J. Vala, Dr. Vijay Kumar Soni	Commerce	21-22
10.	Profitability Of Selected Information Technology Companies In India	Dr. M. Jegadeeshwaran, C. Udaya	Commerce	23-25
11.	Emerging Trends In The Indian Media And Entertainment Industry	Dr Mahalaxmi Krishnan	Commerce	26-27
12.	Inventory Management Strategies And Control Techniqies: An Empirical Investigation Of Small Scale Industries	Vipul Chalotra, Neetu Andotra	Commerce	28-30
13.	A Study On Performance Indicators Of Commercial Banks	Dr. G. Ganesan, P. Parthasarathy	Commerce	31-33
14.	Improved Approaches To Coreference Resolution In Machine Learning	Kuldeep Singh Raghuwanshi, Ashwini Kumar Verma	Computer Science	34-37
15.	Security Issues & Controls In Cloud Computing	V. Naga Lakshmi	Computer Science	38-40
16.	Human Development Index Of De-Notified Nomadic Castes In Maharashtra Division: A Study Of Jalna And Aurangabad Districts	Dr. Ashok Pawar	Economics	41-43
17.	Public Private Partnership In Rural & Urban Projects In India	Dr. Ashok S. Pawar, Dr. Shankar B. Ambhore	Economics	44-45
18.	Populace Insight On Development In Public Health Sector Of India Subsequent To Functioning Of National Rural Health Mission	Krishnakant Sharma	Economics	46-49
19.	Problems Of Rural Women Entrepreneurs In India: A Conceptual Overview	C. Jeyasri Usha N Devi, Dr. A. Sankaran	Economics	50-52
20.	Poverty Of Banjara And Vanjari Communities In India	Tidke Atish S., Dr. Pawar Ashok S.	Economics	53-54
21.	India And China: Economic Reforms And WTO	Dr. Surinder Kumar Singla, Dr. Kulwinder Singh	Economics	55- 56
22.	Implementing Life Skill Education Strategies In Teaching – Learning Process	R. Kalaiselvi, Dr. A. Palanisamy, Dr. A R. Saravanakumar	Education	57-59

23.	Utilisation Of Modern Technology By The Teachers In Pupil Processing Organisation	Dr. P.Paul Devanesan, Dr A. Selvan	Education	60-61
24.	Impact Of Vocational Training On Students	K.Sudha Rani, G.Umapathi, Dr. T. Ananda,	Education	62-63
25.	A Study On Emotional Intelligence Of Secondary School Teachers	Dr. Umme Kulsum, Prathima H.P.	Education	64-66
26.	The Efficiency Of Feedback Strategy Of Homework On The Development Of 10th Grade EFL Writing Skill In Al-Karak Educational Directorate	Majid Al- Khataybeh, Areej Al-Shourafa`	noitacudE	67-74
27.	Perspectives Of Stress Management In Education System	M. Meenakshisundaram, G. P. Raja, Dr. A R. Saravanakumar	Education	75-76
28.	Attention Regulation Of Meditators And Non-Meditators Of Class IX	G. Madhavi Kanakadurga, Dr. D. Vasanta Kumari,	Education	77-78
29.	Role Of Psychoeducation In Teaching – Learning Process	Dr. A R. Saravanakumar, Dr. A. Balu, Dr. S. Subbiah	Education	79-80
30.	Microcontroller Driven RGB Led System For Tristimulus Surface Colorimetry	T. N. Ghorude, A. D. Shaligram	Electronics	81-83
31.	Pmgsy And Rural Roads Development In India: Economic, Financial And Maintenance Issues	K.C. Manjunath	Engineering	84-86
32.	Routing Packets On A Chip.	Naren V Tikare	Engineering	87-89
33.	Finding The Nearest Neighbors In Biological Databases	Er. Pankaj Bhambri, Dr. O.P. Gupta, Er. Franky Goyal	Engineering	90-92
34.	Factors Affecting The Sustainability Of The Asphalt Roads: A Case Study Of Irbid Inner Ring Road, Jordan	Eng. Nasr Ahmad Dr. Mihai Iliescu	Engineering	93-94
35.	Physical And Chemical Testing Of Compounded PVC	Sapna Dabade, Dr. Dheeraj Mandloi, Deepak Khare	Engineering	95-96
36.	Impact Of Organic Farming On Yield Of Some Common Crops- A Case Study.	Namrata D. Awandekar	Environmental Science	97
37.	Hydrogeologic Settings Of The North And South Brahmaputra Plains In Upper Assam: A Comparative Study	Dr. Uttam Goswami	Geology	98- 100
38.	To Study Staffing Pattern In Rajasthan Public Healthcare Delivery System.	Dr. Ashwin G. Modi, Sushman Sharma	Healthcare	101- 105
39.	Work And Health: A Situational Analysis Of Factory Workers	Dr. S. S. Vijayanchali, Dr. E. Arumuga Gandhi	Home Science	106- 108
40.	Performance Of Camel Kid Hair: Acrylic Blended Yarn And Knitted Fabric	Suman Pant, Anjali Sharma	Home Science	109- 110
41.	Impact Of Holistic Nutrition Education Package On Diabetes Mellitus Control In Middle Aged Women	Dr. Anjali Rajwade	Home Science	111- 112
42.	Assessment Of Relationship Between Ida And Personal Hygiene, Nutritional Knowledge And Dietary Practices In Adolescent Girls	Dr. Anjali Rajwade	Home Science	113- 114
43.	Employee Attrition And Retention In Private Insurance Sector– A HRM Challenge	Dr. J. Senthil Vel Murugan, S.Bala Murugan	Human Resource Management	115- 117
44.	A Study On Impact Of Unionism On Industrial Relations In Manufacturing Sector	Jaya Ahuja	Industrial Relations	118- 120

45.	Augmentation Of India's Foreign Exchange Reserve: An Analysis	Dr.S P.Mathiraj, Ar.Annadurai	International Business	121- 123
46.	Films – A Techno Literary Art Form	Dr. Dipti Mehta	Literature	124- 125
47.	Indirect Models Of Reading To Develop Descriptive Writing	Dr. K. Madhavi	Literature	126- 128
48.	Ramkrishna Mishra Ke Upanaso Me Rajnetaik Chetavni	Dr. Sanjay Rathod, Dilip Jhadav	Literature	129
49.	Hindi Kavita Me Nari Jivan Ka Badla Swarup	Dr. Sanjay Rathod	Literature	130
50.	Impact Of IPL Sponsorship On Consumer Buying Behavior With Reference To Nagpur City	Chandrima Das	Management	131- 135
51.	Crowd Sourcing –A New Management Mantra	Devi Premnath, Dr. C. Nateson	Management	136- 137
52.	Small Scale Industries In India: An Evaluation Of Productivity In The Post-Liberalized Scenario	Dr. Gaurav Lodha,	Management	138- 139
53.	Comparative Analysis Of Milk Products With Respect To Its Competitors With Special Reference To Karnataka Milk Federation (KMF) – At Dharwada City, Karnataka, India	Dr. N. Ramanjaneyalu	Management	140- 143
54.	A Study On Work Stress In Women Employees In Coimbatore District	R. Maheswari, N. Brindha	Management	144- 145
55.	Accounting For Carbon Credits	Dr. Gaurav Lodha	Management	146- 148
56.	A Literature Review On The Relationship Between Training (As A Core Responsibility Of HRM) And Firm Performance.	Priya Sharma, Dr. S. L. Gupta	Management	149- 152
57.	A Study On Agricultural Marketing Practices And Constraints With Special Reference To Paddy / Rice.	CM Maran, Dr Raja Pranmalai	Management	153- 156
58.	Performance Of Share Price Of Indian Public Sector Banks And Private Sector Banks - Comparative Study	V. Prabakaran, D. Lakshmi Prabha	Management	157- 158
59.	Intuitionistic Fuzzy Primary And Semiprimary Ideal	Dr. M.Palanivelrajan, S.Nandakumar	Mathematics	159- 160
60.	Significance Of Umbilical Artery Velocimetry In Perinatal Outcome Of Fetuses With Intrauterine Growth Retardation.	Dr G S Shekhawat	Medical Science	161- 163
61.	Large Adult Sacrococcygeal Teratoma: A Case Report And Review Of Literature.	Dr. Yavalkar Pa, Dr. Naik Am.	Medical Science	164- 165
62.	Epidural Steroid In Low Back Ache	Dr. B. L. Khajotia, Dr. Neelam Meena	Medical Science	166- 167
63.	A Comparative Study Of Second Trimester MTP With Use Of Vaginal Misoprostol And Extra Amniotic Instillation Of Ethacridine Lactate.	Dr. Ketaki Junnare, Dr. Sameer Darawade, Dr. Priyamvada Shah, Dr. Swati Mali.	Medical Science	168- 169
64.	A Novel Surgical Approach For Treatment Of Sui –TVT Obturator Tape	Dr. Ketaki Junnare, Dr. Durga Karne, Dr Neelesh Risbud.	Medical Science	170- 171
65.	Advantage Of Fallopian Tube Sperm Perfusion Over Intra- Uterine Insemination When Used In Combination With Ovarian Stimulation For The Treatment Of Unexplained Infertility.	Dr G S Shekhawat, Dr Pushpalata Naphade	Medical Science	172- 175

66.	"Bilateral Sertoli-Leydig Cell Tumor In Postmenopausal Female" A Case Report	Dr. Priyamvada Shah, Dr. Ketakijunnare, Dr. DurgaKarne	Medical Science	176- 178
67.	Pretreatment With Ephedrine For Prevention Of Pain Associated With Propofol Injection.	Dr. Kavita U Adate, Dr. Jyoti A. Solanki	Medical Science	179- 181
68.	Does The Structured Teaching Programme Influence The Knowledge About Physical Wellbeing Of School Children? A Quasi Experimental Study.	Dr. S. Valliammal, Dr. Ramachandra, Raja Sudhakar	Nursing	182- 184
69.	An Approach For Information Retrieval For Bookstores Using Formal Ontology	Sumit Jain, C.S.Bhatia	Ontology	185- 187
70.	Analgesic Activity Of Anacardium Occidentale	A. Devadoss, C. Aparna, K. Parimala, D. Sukumar	Organic Chemistry	188- 190
71.	Behaviourism : Science Or Metaphysics	Dr. Jatinder Kumar Sharma	Philosophy	191- 193
72.	Multi-Dimensional Perspectives Of Obesity And Its Management	S. Dhanaraj, Dr. A. Palanisamy	Physical Education	194- 196
73.	Refractive Index, Density, Excess Molar Volume, Excess Molar Refraction For Liquid Mixtures (Ethyl Ethanoate + Benzene Derivatives) At Different Temperatures	Sheeraz Akbar, Mahendra Kumar	Physics	197- 199
74.	Refractive Indices, Densities And Excess Properties For Liquid Mixtures (Cetane + Alkanols) At Different Temperatures	Sheeraz Akbar, Mahendra Kumar	Physics	200- 202
75.	Capacity Building For Effective Local Governance: Indian Perspectives	Dr. Pralhad Chengte	Political Science	203- 205
76.	Psychological Well-Being: A Study Of Non-Institutionalized Aged	Dr. Pankaj S. Suvera	Psychology	206- 208
77.	Women Empowerment Through N R E G S (With Reference To State Of West Bengal)	Dilip Kumar Karak	Social Sciences	209- 211
78.	Effect Of Selected Yogic, Aerobic And Laughter Exercises On Blood Pressure Of High School Boys	Dr.Manjappa.P, Dr.Shivarama Reddy. M	Sports	212- 216
79.	Association Study Between Lead And Copper Accumulation At Different Physiological Systems Of Goat By Application Of Canonical Correlation And Canonical Correspondence Analyses	Partha Karmakar, Debasis Mazumdar, Seema Sarkar (Mondal), Sougata Karmakar	Statistics	217- 219
80.	Development Of Silver -Silica Nanocomposite For Novel Humidity Sensing Application	Surender Duhan	Technology	220- 221

Research Paper

Medical Science



Bilateral Sertoli-Leydig Cell Tumor In Postmenopausal Female - A Case Report

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ABSTRACT

Sertoli-Leydig cell tumor (SLCT) is a rare ovarian tumor that belongs to the group of sex-cord stromal tumors. These constitute less than 0.5% of ovarian tumors. [1] Most tumors are unilateral, confined to the ovaries, and are seen during the second and third decades of life. We have treated a rare case which presented in postmenopausal age group and wasinvolving both ovaries.

Keywords : Case Report, Medical, Bilateral Sertoli

Introduction

Sertoli-Leydig cell tumor (SLCT) is a rare ovarian tumor that belongs to the group of sex-cord stromal tumors. These constitute less than 0.5% of ovarian tumors. [1] Most tumors are unilateral, confined to the ovaries, and are seen during the second and third decades of life. These tumors are characterized by the presence of testicular structures that produce androgens. Hence, many patients have symptoms of virilization depending on the quantity of androgen production. The second characteristic feature of these tumors is the degree of differentiation of structures in them. The presence of these structures determines whether the tumors are benign or malignant. [2] We present the rare case report of a postmenopausal woman with bilateral SLCT. Management of these cases poses a difficult therapeutic challenge.

Case Report

59 yr old female was admitted on 24-07-08 in SKN medical college with the chief complaints of lump in abdomen since two months which was rapidly increasing in size and associated with dull pain. Patient also complained of per vaginal spotting on and off which was very minimal since two to three weeks. She was post menopausal since 12 years and had no significant menstrual complaints in the past. She had 3 children and never took any ovulation induction drugs in the past.

She was operated five years back for cancer of left breast at Sassoon General Hospitals followed by chemotherapy; unfortunately could not produce its reports. There was no family history of ovarian or breast malignancy. She was asymptomatic in last five years after the breast surgery.

Her clinical examination revealed normal findings about vitals.Her Wt.was 58 kg with height148 cm. Right breast did not reveal any lump and Left breast was absent since mastectomy was done. There was noevidence of inguinal or cervical lymphadenopathy .Her systemic examination was normal

On per Abdominal examination 30 weeks size mass was felt arising from pelvis; lower border of which could not be reached. The mass had regular surface with restricted mobility and wasnon tender. There was no evidence of ascites. Per

speculum finding revealed an endo-cervical polyp measuring 2x2 cm which did not bleed on touch. On per vaginal examination same mass was felt is all fornices and uterus was not appreciated separately.

Investigations carried out for the surgical fitness were normal. Tumor marker CA 125 was 50.9 IU/ml. Ultrasound examination (as seen in Picture 1) revealed a large complex mass arising from pelvis extending upto epigastric region , predominantly containing multiple cysts of varying size, largest of which is 15 cm, thickened wall with echogenic projections along wall ,some are filled with echogenic material . Provisional diagnosis of Ovarian Neoplasm or mesenteric cyst was made after USG.

CT SCAN revealed 16.6cm x 22.5cm x 27 cm, large, multicystic mass arising from pelvis & reaching upto lesser curvature of stomach with multiple thin septae within, few solid components with no evidence of ascites and no evidence of metastasis. Provisional diagnosis of cyst adenoma of ovary was made after CT scan.

Her Risk malignancy index was (RMI) was calculated which was

 $(CA 125 \times Menopausal status \times USGscore)$ 50 x 2 x 1 = 100 A differential diagnosis of Granulosa cell tumor was kept in the mind since she had spotting per vaginum.

Patient was posted for Exploratory staging laparotomy .(As seen in Picture-2).Intra- operative findings were as follow- a left ovarian tumor was seen occupying the abdomen, multicystic , with regular surface, intact capsule, without much vascularity .There was no evidence of ascites. Her right ovary, omentum, liver were within normal limits. Lymph nodes were not palpable. Hence CLINICAL STAGING was -I C. Exploratory staging laparotomy included excision of tumor with Total abdominal hysterectomy with right salphingo-ophorectomy and Infracolic omentectomy with peritoneal washings which were obtained after opening the abdomen. Her post operative period was uneventful. She required two blood transfusions. Wound healed without any problem.

The specimen was sent for histopathology which was classified as per Meyer's classification. Gross examination(as seen in Picture-3) of the pathologic specimen showed that it was an ovarian mass measuring 20 cm by 15 cm by 10cm. The external surface was smooth. A cut section of the specimen revealed solid as well as cystic areas filled with clear fluid. The histopathology examination showed a tumor composed of well-formed cords, nests, and tubules of tumor cells. Few areas of tumor cells had hyper chromatic nuclei,(as seen in picture 4) a moderate amount of cytoplasm (Sertoli cells), and occasional mitosis. Interspersed between these were nests of polygonal cells with round nuclei and abundant granular cytoplasm (Leydig cells). Retiform pattern was not seen. Right ovarian biopsy and omental biopsy was negative for malignancy. The endocervical polyp had benign histopathology.

Meyer's classification:

- Type I: Well differentiated SLCT
- Type II: Intermediate SLCT
- Type III: Poorly differentiated SLCT

In this case Sertoli Leydig cell tumor- Meyer's type II was diagnosed due to few areas of undifferentiated cells with positive peritoneal washings.

After Histopathology report patient was classified as FIGO stage Ic and was referred to medical oncologist. He had advised Chemotherapy with BEP(Bleomycin +Etoposide +Cisplatin) for 4 cycles with 3 weeks interval. After first cycle; the patient declined further chemotherapy due to cost constraint. Patient was followed up for one year with USG which was normal. We lost her follow up as patient changed her address and could not be contacted after December 2009.

Discussion

Our patient had presented at 58 years of age. The majority of these patients are seen during the second and third decades of life, with the average age at diagnosis 25 years. Around 50% of cases come to clinical attention because of progressive defeminization, as was not seen in this patient. [1]. Patient had spotting which could be due to estrogen secretion unlike testosterone.

Most of these tumors are unilateral. Bilateral tumors are found only in 1.5 % cases as was seen in our patient.75 % tumors are benign and are diagnosed in stage I, so conservative surgery in a young patient is an appropriate treatment. Our

patient was 58 year old and hence underwent radical surgery. There have also been case reports of successful laparoscopic management of these tumors.[8]

Though Meyer et al. described the presence of mucinous epithelium in a SLCT in 1930, the first illustration is in the case reported by McLester in 1936, who described a SLCT containing a cyst lined by non-mucinous cells and mucinous cells, including glandular cells.[5,6]our patient did not reveal any mixed component.

The most important prognostic factors in these tumors are their stage and degree of differentiation. In a review of 207 cases by Young and Scully in 1985,[1] all well-differentiated tumors were benign, whereas 11% of tumors with intermediate differentiation, 59% of tumors with poor differentiation, and 19% of those with heterologous elements were malignant. In another study of 64 patients who had intermediate or poorly differentiated SLCT, a survival rate of 92% was noted at both 5 and 10 years.[7]

Almost all tumors are multicystic as seen in our case (1).

Adjuvant chemotherapy is considered for patients who have poor prognostic factors. The malignancy rate in tumors with heterologous elements is 15% to 20%.[1] Adjuvant chemotherapy in stage I is given to those patients who have poorly differentiated SLCT or SLCT with heterologous elements or a metastatic tumor of any histologic type.[9]The patient in this report received adjuvant chemotherapy for SLCT in stage I being in Mayer's Type II group. The following chemotherapy regimens can be considered for SLCT:

- 1. Cisplatin, doxorubicin, cyclophosphamide (PAC);[10]
- 2. Vincristine, actinomycin-D, cyclophosphamide (VAC);[11] and
- 3. Bleomycin, Etoposide, and Cisplatin (BEP).[12] The BEP regimen is a comparatively safe chemotherapeutic regimen because it does not affect the fertility status of the patient.[12]

Conclusion

SLCT is a rare ovarian sex-cord tumor that usually occurs unilaterally with the mean age of presentation 25 years. However SLCT can rarely present in postmenopausal age group with bilateral ovarian mass.

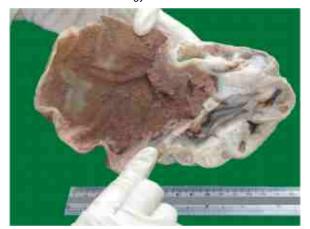
PICTURE 1-Ultrasound Findings



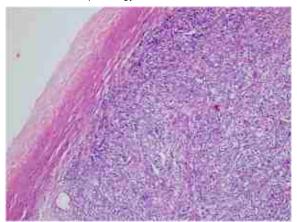
PICTURE 2- Intra- operative findings



PICTURE 3 Gross Pathology



PICTURE 4 Histopathology

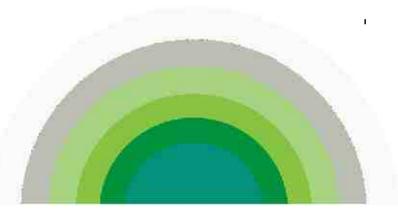


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