Patterns of Opiate Use and Prescription Practices in Isolated Orthopedic Trauma Part One: Defining the Problem and Creating Guidelines

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Rural Otolaryngology – A Review of Resident Education and the Impact on Future Practice Selection

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Program: Otolaryngology
Type: Original Research

Background: The University of Nebraska Medical Center, Department of Otolaryngology – Head and Neck Surgery (OHNS) established a rural residency rotation in Kearney, Nebraska, in 2016. Each resident spends two months on the service as a junior (years two or three), and two months as a senior (years four or five). It has been cited that residency rotations in rural practices are a significant factor in retention of family practice and surgical physicians, however, there is not similar data available for Otolaryngology. This study provides data from current and prior OHNS residents on their rural rotation experience and the factors that contributed to future practice decisions.

Methods: In this qualitative study, we used a semi-structured interview guide to probe rural rotation participants on their experience and the influence the rotation had on their future practice decisions.

Results: The rural rotation was influential in residents’ selection of future practice and did encourage residents to pursue rural practice. The benefits of the rotation included increased autonomy, diversity of cases, education in the private practice environment, and improved quality of life. The disadvantages included time away from family.

Conclusion: The University of Nebraska Medical Center OHNS Rural Rotation provides invaluable experience, education, and training. The rotation was influential in the selection of future practices and encouraged several residents to pursue rural Otolaryngology practices. A rural rotation experience in residency may lead to retention of Otolaryngologists for rural areas.

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Patterns of Opiate Use and Prescription Practices in Isolated Orthopedic Trauma Part One: Defining the Problem and Creating Guidelines

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Background: About 80% of the global supply of opiates is consumed in the United States, yet opioid use is associated with significant morbidity and safer approaches to pain control exist1-15. The purpose of this two-part study is to quantify our opioid prescribing practices and to formulate guidelines for safe and effective opioid stewardship.

Methods: The quantity of opioids prescribed (as Morphine Milligram Equivalents) at discharge and in the 90 days after surgery in adults with operatively treated, isolated fractures was correlated to patient demographics, comorbidities, fracture characteristics, and patient reported pain control.

Results: There were 56 males (47%) and 63 females (53%). Ankle fractures were the most common injury (34.2%). 9 (7.6%) fractures were open. The mean VAS pain scores at the first and second postoperative visits were 4.1 and 3.4, respectively. The mean initial quantity of opiates prescribed for all patients was 390 MME and the mean total quantity was 535 MME (range 60-1800, Stdev 256; 60-2550, Stdev 245, respectively). 44% of patients were prescribed refills. Greater
CD24 Expression in Follicular Lymphoma: An Alternative B-Cell Marker in Therapy Selected, Recurrent Lymphoma
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Mentor: Samuel Pirruccello
Program: Pathology and Microbiology
Type: Original Research

Background: The rapidly expanding use of antigen targeted therapies, such as anti-CD19, anti-CD20 and anti-CD22, in B-cell malignancies will require the application of additional B-cell-associated antigens in the assessment of residual disease. CD24 is a pan B-cell marker that undergoes significant surface density changes during normal maturation. In contrast to the loss of CD24 expression in normal follicles, we observed that follicle center derived lymphomas retain CD24 expression. Our aim was to determine the percentage of follicle center lymphomas with aberrant CD24 expression.

Methods: We reviewed 334 patients with a diagnosis of follicular lymphoma (FL; 228), large cell lymphoma of follicular origin (59) or B-cell lymphoma of follicular origin (47) by flow cytometry from October 2012 to August 2018. Cases without a confirmed tissue diagnosis of FL or diffuse large B-cell lymphoma (DLBCL) were excluded leaving 113 patients with FL, 38 patients with CD10-positive DLBCL and 12 patients with mixed FL/DLBCL. We analyzed the percentage of patients with CD24 positive lymphomas in each of the three diagnostic categories.

Results: We found that CD24 expression was retained in 89% of FLs (101/113), 63% (24/38) of DLBCLs and 42% (5/12) of mixed FL/DLBCL. Five cases of CD20 negative FL were CD24 positive.

Conclusion: Our results show the utility of aberrant CD24 expression in the identification of follicular lymphoma by flow cytometry.

References

Performance of the Lymph2Cx Cell of Origin Classifier of Diffuse Large B-Cell Lymphoma in Comparison to Two Immunohistochemical Algorithms
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Type: Original Research

Background: Diffuse large B-cell lymphoma (DLBCL) is divided into cell-of-origin (COO) groups: germinal center B-cell (GCB), non-GCB also known as activated B-cell (ABC) and intermediate/unclassified subgroups by mRNA gene expression profiling (mGEP). Immunohistochemical (IHC) classification algorithms, such as the Hans and Choi, were developed in lieu of mGEP on microarray, which could not analyze formalin fixed paraffin embedded (FFPE) tissue. The Nanostring Lymph2Cx assay is capable of RNA gene expression profiling on FFPE tissue.

Methods: We studied 70 cases of DLBCL analyzed with the Lymph2Cx. Immunohistochemistry was performed on FFPE tissue sections using antibodies for CD10, BCL6, MUM1, GCET1 and FOXP1. Our aim was to determine the concordance