Multi-Feature Method for Ascertaining NET Cases in a Clinical Data Warehouse

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Abstract

A multidisciplinary program should be the standard of care for neuroendocrine tumors (NET). A trial case is often fragmented across multiple specialties. We developed a method to ascertain how many NET patients exist in our health care system in order to improve care.

Methods: A knowledge discovery approach was undertaken to identify a trial set of criteria by examining terminologies within electronic health records such as NANNETS and SNOMED-CT [1]. A multidisciplinary program should be the standard of care for neuroendocrine tumors (NETs). A trial case is often fragmented across multiple specialties. We developed a method to ascertain how many NET patients exist in our health care system in order to improve care.

Results: The model yielded sensitivity of 77%, specificity of 86%, positive predictive value of 83% and negative predictive value of 80%.

Conclusion: These models can be improved over time by adding more search terms and validated them on larger samples of potential NET patients.