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Invasive Ductal Carcinoma: Managing Complexity Invasive Ductal Carcinoma: Managing Complexity

Pip Scholte

MidCentral District Health Board, Palmerston North, North Island, New Zealand. Auckland University, Auckland, Auckland, New Zealand

### **Abstract Body**

As part of completing a post graduate certificate in mammography via Auckland University, a poster presentation resource was developed for Invasive Ductal Carcinoma (IDC) of the breast.

The poster presentation is a concise, visually appealing discussion of Invasive Ductal Carcinoma of the Breast showing a number of aspects of the disease. This includes the Epidemiology of Breast cancer generally and Invasive Ductal Carcinoma specifically is described with a definition of the IDC Not Otherwise Specified (NOS) subtype.

The normal internal anatomy pertaining to IDC is briefly reviewed before a pictorial and flow chart description of the Pathogenesis of IDC from Atypical Ductal Hyperplasia (ADH) to Ductal Carcinoma in Situ (DCIS) to IDC, when the tumour breaks through the basement membrane of the duct to invade surrounding stroma. Descriptions of pathogenesis are at a cellular as well as a ductal level.

Gene expression signatures, Estrogen Receptor (ER), Progesterone Receptor (PR) and Human Epidermal Growth Factor 2(HER2) are detailed and a summary of the various subtypes, their prognosis and metastatic patterns listed.

Staging and Grading of Breast Cancer is briefly reviewed – both by tumour size and histological appearance.

The resource will be useful to colleagues to understand the various subtypes of Invasive Ductal Carcinomas in order to guide screening, diagnostic and surveillance imaging.