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乳腺导管内癌的X线表现与组织病理学、分子分型的对照研究

Control study of X-ray appearances and histopathology, molecule subtype of breast ductal carcinoma in situ

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英文关键词: [Breast neoplasms](#) [Mammography](#) [Pathology](#) [Molecular type](#)

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中文摘要:

目的 探讨乳腺导管内癌(DCIS)的X线表现与组织级别、分子分型及Ki-67的关系。方法 回顾性分析133例136侧DCIS的X线表现及组织病理学、免疫组织化学结果。结果 ①136侧DCIS低级别19侧、中高级别9侧、高级别108侧;低、中高级别X线多表现为单纯钙化(10/28, 35.71%),高级别为钙化伴局灶性不对称/肿块(38/108, 35.19%)。②136侧DCIS中,Luminal A型70侧(70/136, 51.47%)、Luminal B型17侧(17/136, 12.50%)、Her-2过表达型41侧(41/136, 30.15%)及三阴性型8侧(8/136, 5.88%);除Her-2过表达型多以钙化伴局灶性不对称/肿块(17/41, 41.46%)为主要表现外,Luminal A型(23/70, 32.86%)、Luminal B型(8/17, 47.06%)及三阴性型(4/8, 50.00%)均以单纯钙化多见,差异无统计学意义($\chi^2=17.408, P=0.135$)。③ER/PR(+)钙化形态多为细小多形性(35/51, 68.63%)、成簇分布(27/51, 52.94%);ER/PR(-)多为线样分支状(19/33, 57.58%)、段样分布(23/33, 69.70%)。Her-2过表达钙化形态多为线样分支状(20/38, 52.63%)、段样分布(25/38, 65.79%);Her-2(-)多为细小多形性(33/46, 71.74%)、成簇分布(24/46, 52.17%),差异有统计学意义(P 均 <0.05)。④Ki-67 $\leq 10\%$ 时,钙化形态多为细小多形性(15/17, 88.24%);当Ki-67 $>30\%$ 时,钙化形态多为线样分支状(14/29, 48.28%),差异有统计学意义($\chi^2=10.776, P=0.029$)。结论 DCIS X线以钙化为主要表现,钙化的形态、分布在一定程度上可反映组织级别及ER/PR、Her-2、Ki-67的表达情况。

英文摘要:

Objective To explore the relationship of the X-ray appearances and histopathology, molecule subtype, proliferation index of the Ki-67 of the breast ductal carcinoma in situ (DCIS). **Methods** The X-ray appearances, histopathology and immunohistochemistry of the 133 cases DCIS (all 136 lateral-breast) were retrospectively analyzed. **Results** The 136 laterals DCIS included low-grade 19 laterals, intermediate-grade 9 laterals and high-grade 108 laterals. The main X-ray appearance of the low- and intermediate-grade DCIS were calcification (10/28, 35.71%), while the high-grade was calcification with focal dissymmetry/mass (38/108, 35.19%). ②All cases included the Luminal A 70 laterals (70/136, 51.47%), Luminal B 17 laterals (17/136, 12.50%), Her-2-overexpress 41 laterals (41/136, 30.15%) and triple-receptors negative 8 laterals (8/136, 5.88%). The main X-ray appearance of the Her-2-overexpress was calcification with focal dissymmetry/mass (17/41, 41.46%), the other molecule subtypes were purely calcifications. There was no statistical significance in the main X-ray appearance of different molecule subtypes ($\chi^2=17.408, P=0.135$). ③The ER/PR (+) cases of main appearance of the calcifications were fine pleomorphic (35/51, 68.63%), cluttered (27/51, 52.94%), while the ER/PR (-) cases were linear branching (19/33, 57.58%), segment (23/33, 69.70%); the Her-2 (+) cases were linear branching (20/38, 52.63%), segment (25/38, 65.79%), while the Her-2 (-) cases were fine pleomorphic (33/46, 71.74%), cluttered (24/46, 52.17%). There was statistical significance in the main appearance of the calcifications of them (all $P<0.05$). ④When the proliferation index of the Ki-67 $\leq 10\%$, the main morphous of the calcifications was fine pleomorphic (15/17, 88.24%), while the proliferation index of the Ki-67 $>30\%$, it was found linear branching (14/29, 48.28%; $\chi^2=10.776, P=0.029$). **Conclusion** The main X-ray appearance of the DCIS is calcifications. The morphous, distrutions of the calcifications may reflect the ER, PR, Her-2 and the proliferation index of the Ki-67.

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