



BD: Bowen's disease; SCC: squamous cell carcinoma; LTFU: lost to follow-up immediately post treatment; MUMC: Maastrich University Medical Centre.

\*In 107 cases (65%) the histopathological diagnosis on biopsy was an invasive tumour (e.g. SCC, BCC) but the excision showed BD next to the invasive tumour; in 18 cases (11%) the biopsy showed BD, but the excision specimen contained an invasive tumour; in 37 cases (23%) the initial histopathological diagnosis on biopsy could not exclude invasive malignancy but the excision specimen showed an invasive tumour.

**Fig. S1. Flow chart of the cases included.**