



## POSTER PRESENTATION

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# Queensland diabetic foot hospitalisations (2005-10): in what state is our foot hospital problem?

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## Background

Diabetes foot complications are a leading cause of overall avoidable hospital admissions. Since 2006, the Queensland Diabetes Clinical Network has implemented programs aimed at reducing diabetes-related hospitalisation. The aim of this retrospective observational study was to determine the incidence of diabetes foot-related hospital admissions in Queensland from 2005 to 2010.

## Methods

Data on all primary diabetes foot-related admissions in Queensland from 2005-2010 was obtained using diabetes foot-related ICD-10-AM (hospital discharge) codes. Queensland diabetes foot-related admission incidences were calculated using general population data from the Australian Bureau of Statistics. Furthermore, diabetes foot-related sub-group admissions were analysed. Chi-squared tests were used to assess changes in admissions over time.

## Results

Overall, 24,917 diabetes foot-related admissions occurred, resulting in the use of 260,085 bed days or 1.4% of all available Queensland hospital bed days (18,352,152). The primary reasons for these admissions were foot ulcers (49.8%), cellulitis (20.7%), peripheral vascular disease (17.8%) and osteomyelitis (3.8%). The diabetes foot-related admission incidence among the general population (per 100,000) reduced by 22% (103.0 in 2005, to 80.7 in 2010,  $p < 0.001$ ); bed days decreased by 18% (1,099 to 904,  $p < 0.001$ ).

## Conclusion

Diabetes foot complications appear to be the primary reason for 1.4 out of every 100 hospital beds used in Queensland. There has been a significant reduction in the incidence of diabetes foot-related admissions in Queensland between 2005 and 2010. This decrease has coincided with a corresponding decrease in amputations and the implementation of several diabetes foot clinical programs throughout Queensland.

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