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Title: Proportion of adenocarcinomas of the lung rise from 22 to 42% in a London hospital 2000-2009

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Body: Background The proportion of lung cancers that are adenocarcinomas(ACs) is reported to be increasing in Europe. In 2006-2008 the proportion of UK lung cancers typed as AC was 26%.¹ Incidence of lung cancer in females has recently stabilised in the UK.¹ Knowledge of local case mix is essential for service planning. Methods King's College Hospital, London, UK, has a multiethnic, deprived population of 250 000. Since 1999, all lung cancers have been discussed at a multidisciplinary(MDT) meeting and recorded on a database. Data for histologically confirmed cases of primary lung cancer diagnosed over the period 2000-2009 were studied and stratified into 2-year epochs by date the patient was first seen. The Chi square for trend test was used to examine changes in proportions of cases in i)females versus males; ii)ACs and iii)SCCs versus all other tissue types. Results

Table 1 Lung Cancer Cases 2000-9

| Epoch | Count (% of total cases) | | | |
|-----------------------|--------------------------|----------|----------------|-------------------------|
| | Lung Cancer | Female | Adenocarcinoma | Squamous Cell Carcinoma |
| 2000-1 | 227 | 69 (30) | 49 (22) | 96 (43) |
| 2002-3 | 222 | 79 (36) | 59 (27) | 91 (41) |
| 2004-5 | 235 | 91 (39) | 72 (31) | 81 (34) |
| 2006-7 | 264 | 100 (38) | 90 (34) | 90 (34) |
| 2008-9 | 252 | 98 (39) | 105 (42) | 79 (31) |
| Total | 1200 | 437 | 375 | 437 |
| Chi square for trend* | | 3.7 | 25.4 | 8.46 |

| | | | |
|---------|-------|--------|-------|
| P Value | 0.053 | <0.001 | 0.004 |
|---------|-------|--------|-------|

*=1 degree of freedom

Conclusion The trend for increasing proportion of ACs (and decreasing SCCs) was highly significant; the proportion of ACs in our cohort since 2006 is greater than the latest UK figure and numbers of ACs do not appear to have stabilised.¹ The proportion of female cases is in line with UK data and is not significantly changing. Reference 1. Lung Cancer. NICE clinical guideline 121. Issue date: April 2011. National Institute for Health and Clinical Excellence, UK.