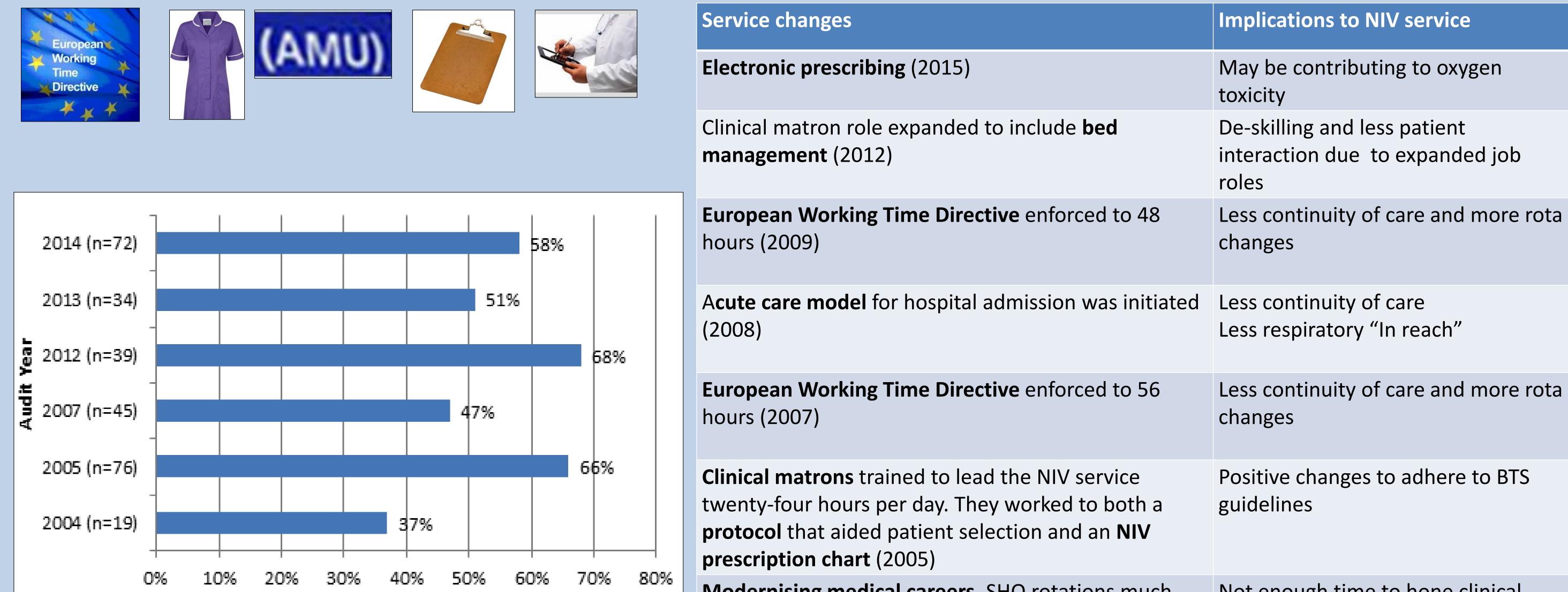


**NCEPOD:** A review of the care received by patients receiving acute non-invasive ventilation

## A review of the use of non-invasive ventilation at Worthing Hospital (2004 – 2014) Dr. Lukas Kalinke (Respiratory SpR) Dr. Kate Steele (Consultant Respiratory Physician)

- Aim: • To review the outcome data from six audits (n = 285) of acute non-invasive ventilation (NIV) that span this ten year period at Worthing Hospital.
  - The primary aim was to assess the survival to discharge rates.

The landmark YONIV study showed NIV *can* be delivered outside of high dependency care units with survival to discharge rates of eighty percent (Plant 2000). Our acute NIV service was reorganised in 2005 to comply with BTS guidelines. In addition, there have been more global changes to acute care provision in our hospital.



Survival to discharge	shorter (2005)	skills
	European Working Time Directive enforced to 58 hours (2004)	Less continuity of care and more rota changes

### **Results:**

- Survival to discharge rates ranged from 37% to 68%.
- Patient survival has worsened since 2012.

# Conclusions

- Our local survival to discharge rates do not mirror the 80% rates achieved in the YONIV study, nor have they been maintained in the face of service reorganisation.
- The introduction of a novel acute care model and other service changes may have contributed to these findings.
- **Can NIV really be delivered appropriately** to this cohort of patients within the current acute care model with its associated levels of nursing and medical support?