

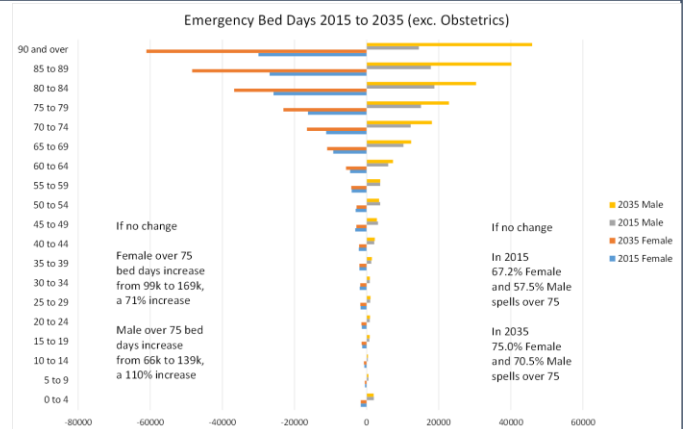
Demand, Activity and Capacity Modelling

Healthcare applications

Service summary:

Fusion offers extensive experience in the modelling and analysis of a wide range of healthcare related activity, developing and quantifying the effects of growth and service change across acute, primary care, community and social care related services.

We have developed models to support projects ranging from systems wide reconfigurations to departmental capital developments.



Context:

Quantified, empirical information and analysis is a key component of any strategic development. It forms the backbone of the strategic case for change in identifying the current situation and how that will change as a result of a range of parameters which include growth, demographic change, changes in service delivery methodologies and associated technologies.

Healthcare modelling is provided by Fusion as a key supporting tool which not only is capable of quantifying proposed service change, it also sets out a strategic challenge to commissioners and providers of healthcare in quantifying the challenges faced by any healthcare system but also identifying the scale of an issue to which may need to be met by changes in the commissioning or provision of healthcare.

Such an empirical approach is equally important when considering system wide service change or any capital proposal where facilities need to be right sized to supply both short and long term need.

Our approach:

Fusion can utilise a range of modelling techniques covering all aspects of healthcare delivery including emergency department, ambulatory care, in-patient activity as well as associated shifts to intermediate and community care settings.

We establish with clients the questions that need to be answered to support strategic change and then specifically tailor a model to those requirements, drawing on our own experience to help to define the questions where required.

We specifically focus on ensuring that our models are grounded in reality, understanding the consequences of changes on actual service provision, often modelling at an individual patient level of detail, using database modelling techniques rather than adopting a high level approach, which can often mask the full impact of changes to a service or a population.

We are happy to share our modelling with clients and have often handed over models to be used after our specific commission has ended, ensuring that the client has the appropriate knowledge and skills to continue to use our models on their own.

The outcomes:

Fusion has delivered activity and capacity models which:

- Quantify current and future bed requirements across individual hospitals and wider localities
- Identify changes in capacity as a result of shifts in care to the community and intermediate care strategies including the effect on social care requirements and care home provision
- Quantify changes in out-patient and other ambulatory care requirements, including taking account of patient locations and travel times
- Identify key functional content as a result of strategic drivers that can then drive actual physical requirements and the development of schedules of accommodation.

Contact:

adrian.vickers@fusion.partners

www.fusion.partners

FUSION