What is the major domain application over drug/product life cycle for which Data Science and AI should be the most impactful?

safety event prediction

clinical trias, observational studies, direct reprotiing

clinical data

Safety Signals, Predictive Analytics

Real World Data

customer data

Safety Signal

Link between Clinical Operations and Statistics to further optimize clinical trials

Modelling Biological Systems

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Clinical data: predictive models

RWD/RWE Integration into Clinical Development

Biomarker Data

Safety signals

Real World Data Sources

assurance evaluation : gathering historical data and finding patterns with different methods.

Big data

Big or larger data, various Applications in efficacy and safety

Business Analytics including Predictive Analytics for different stakeholders in the business.

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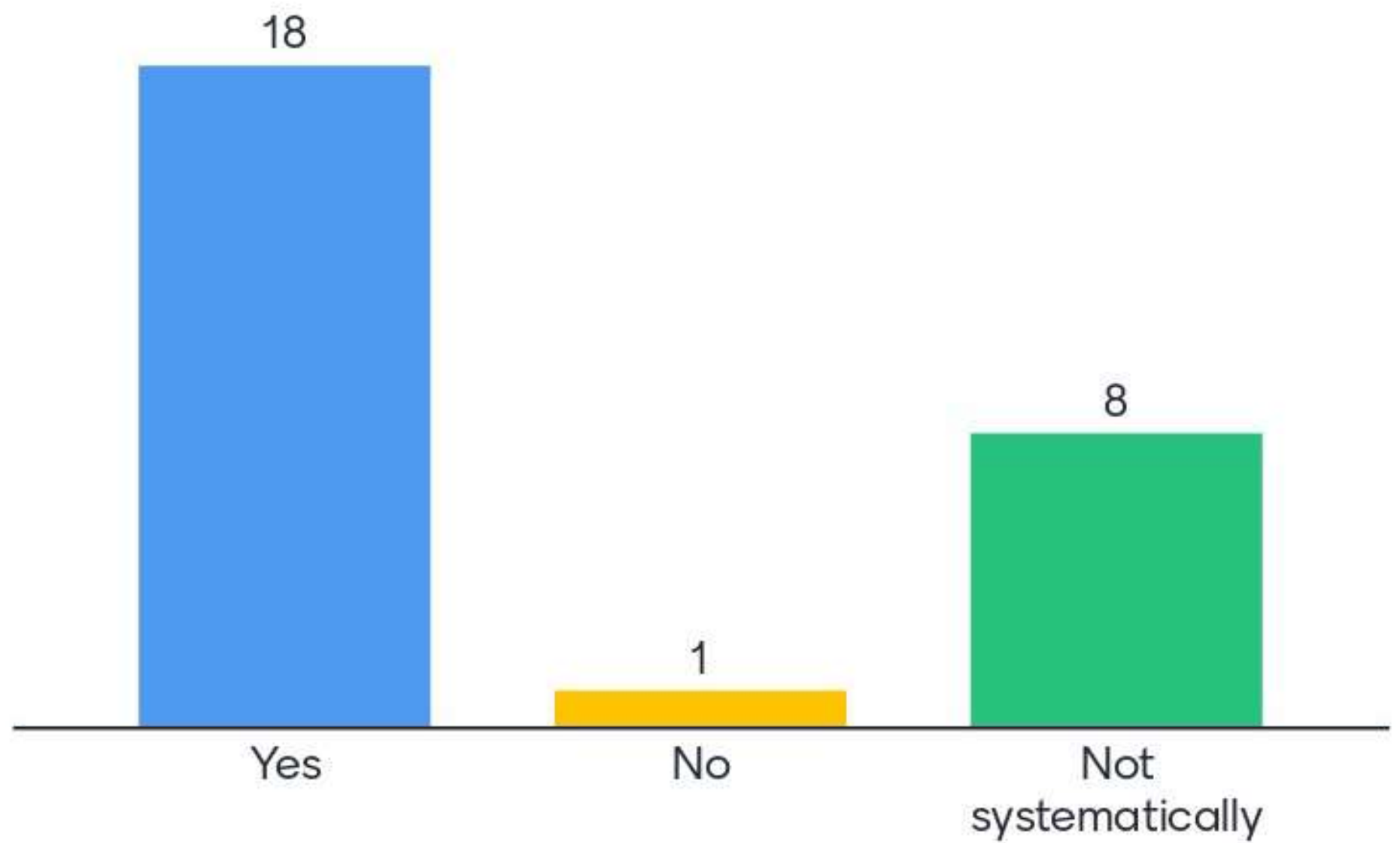
Real world data or other external data analysis to support trial design and decision making

study planning, understanding / linking data accross trials and phases, safety signal detection, predictive modelling

RWE Big Data

New endpoints using device (like eCG being used for long time!); Images and automating more independent reads

Do you think Statisticians should be integrated within teams for Data / AI initiatives?

Do you consider Statisticians must increase knowledge and experience in Data Science?