

# Healthcare Analytics

## GUIDED CHECKLIST

Healthcare system data, now doubling every 18 months, are increasingly used to improve the cost, quality, and experience of care. Getting access to and knowing how to use these data, though, can be a challenge. Step2Works offers support, innovative means, and practical guidance to access and use electronic health record, audit and log file, and other healthcare data for evaluation, reporting, and real-time use.

### **We want to use healthcare data to...**

- Identify gaps in care and understand how to improve care.
- Evaluate if changes to care processes improve outcomes.
- Report on performance or quality indicators.
- Use data in real time to improve care or business processes.

### **We know what data are required because...**

- We know what questions need to be answered.
- We have translated questions into data requirements.
- We have defined the target population and the care context.
- We have defined the inclusion and exclusion criteria.
- We have identified the independent and outcome variables.
- We have defined the relevant time window for extracting data.

### **We can access the data we need because...**

- We have privacy and security approvals.
- We have received all other required approvals.
- We know the specific sources of data and the data items we need.
- We know how to access the data items we need.
- We have translated data requirements into a data transfer protocol.

### **We have validated access to the data we need because...**

- We have extracted a sample of data and meta data.
- We have validated that the data extract meets our needs.
- We have access to the complete data that we need.
- We have a way to track changes to the data we are using.

### **We know what to do to make the data useable because...**

- We have documented item-level variation in structure, content, and context.
- We used best practices to standardize data items.
- We have applied protocols to reduce data dimensions.
- We have addressed sparse data issues.
- We have translated items into higher-level interpretable features