Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

BMJ Open

TECHNICAL FEASIBILITY AND USABILITY ASSESSMENT CHECKLIST FOR DIGITAL DECISION SUPPORT SYSTEM

TECHNICAL FEASIBILITY AND USABILITY ASSESSMENT CHECKLIST

Checklist	Yes	No
Data Quality and Availability		
SOPs of data management and analysis		
Checks and fail safe procedure in data		
Use of electronic medical records		
Use of clinical guidelines		
Integration with Existing Systems		
Electronic Health Record (EHR) integration		
Hospital Information System (HIS) compatibility		
Accuracy and Reliability		
Has there been an algorithm performance evaluation conducted		
Has any validation study conducted on algorithm		
Scalability		
Has there been Infrastructure capacity planning for scalability		
Have you followed a Modular architecture design in algorithm deployment		
Privacy and Security		
Do you use any data encryption methods		
Are there any access control mechanisms		
Regulatory Compliance		
Do you use HIPAA compliance (US)		
Do you use GDPR compliance (EU)		
Cost-effectiveness		
Have you budgeted for DDSS Implementation costs		
Have you budgeted for DDSS Maintenance costs		
Accuracy and completeness of disease protocol		
Does the protocol align with established international clinical guidelines?		
Does the protocol cover all relevant aspects of the disease, including 1. Diagnostic plan 2. Treatment plan 3. Disease management		
Does the protocol include information on risk factors for the disease?		
Does the protocol offer guidance on the management of symptoms and potential complications associated with the disease?		
Does the protocol consider the specific needs of different patient populations, such as children, pregnant women, or older adults?		
Does the protocol cover appropriate follow-up care and monitoring for patients with the disease?		

Does the protocol include information on patient education, self-care, and lifestyle modifications related to the disease?		
Does the protocol provide recommendations for healthcare providers on reporting or notifying cases of the disease to public health authorities, if necessary?		
Does the protocol address any relevant legal or ethical considerations associated with the disease or its treatment?		
Does the protocol reference additional resources or references for further information on the disease?		