Characteristic	Categories	Remarks/explanation
Title		
Author		
Year of publication		
Pathogen		
Country		Country of residence of the patients infected with the bacteria
Setting	Community, hospital, nursing home, school, etc.	Community vs. Institutional
Material sequenced (sample size)	Clinical isolates	
	Food isolates	
	Animal isolates	
	Environmental isolates	
Sampling fraction of the	All available samples	Which proportion (all or subset) of the samples that were collected/available for this particular
NGS analyses	Subset of available samples (complementary)	study (surveillance/outbreak investigation) were sequenced?
Public health objective	Outbreak investigation	As a reaction to a sudden increase in the number of cases or to an unusual event. The main
		objective is to investigate the possible source(s) of infection and/or routes of transmission, and to
		implement effective and appropriate control measures to stop its further spread.
	Control-oriented surveillance	The purpose is to identify each occurrence of a particular disease, hazard, or other health-related
		event that requires a specific response, and to support the delivery of an effective intervention.
	Strategy-oriented surveillance	The aim is to monitor long-term changes in epidemiology over larger geographic and population
		scales and to provide information to support prevention strategies to reduce population risk.
Study aim(s)	Source tracing	
	Contact tracing	
	Understand transmission dynamics (identify transmission	
	networks/clusters)	
	Inform outbreak management: feedback on key phenotypic attributes	
	Early outbreak detection	
	Overview of circulating strains to identify the emergence of new threats:	
	detection of novel strains/antimicrobial resistance/cross-border epidemic	
	strains/zoonotic events/enhanced virulence	
	Impact assessment of prevention and control programs:	
	vaccination/antibiotic stewardship	
	Identification of risk factors and risk groups	
Time orientation of NGS analyses	Retrospective	
	'Near' real-time (within the time period of the outbreak investigation)	
	Prospective	
Level of implementation of the NGS analyses	Proof-of-concept	
	Used for a specific public health problem	
	Implemented into routine public health practices: nation-wide	
	prospective genotyping (surveillance)/routine tool during outbreak	
	investigation	
Key findings		Reported key findings concerning the use of pathogen genomics for public health practice in terms
Ney miunigs		of its added value and challenges.