Table 1: Impact scoring scale – qualitative measures (EPRR definition)

Level	Descriptor	Categories of Impact	Description of impact
		Health	Insignificant number of injuries or impact on health
1	Limited	Social	Insignificant number of persons displaced and insignificant personal support required Insignificant disruption to community services, including transport services and infrastructure
		Economic	Insignificant impact on local economy
Level Descriptor Impact Health Insignation Insignatio	Insignificant impact on environment		
		Health	Small number of people affected, no fatalities, and small number of minor injuries with first aid treatment
2	Minor	Social	Minor damage to properties Minor displacement of a small number of people for up to 24 hours and minor personal support required Minor localised disruption to community services or infrastructure for up to 24 hours
		Economic	Negligible impact on local economy and cost easily absorbed
		Environment	Minor impact on environment with no lasting effects
		Health	Sufficient number of fatalities with some casualties requiring hospitalisation and medical treatment and activation of MAJAX procedures in one or more hospitals
	Moderate	0	Damage that is confined to a specific location, or to a number of locations, but requires additional resource
3		Social	Localised displacement of up to 100 people for 1–3 days Localised disruption to infrastructure and community services
		Economic	Limited impact on local economy with some short-term loss of production, with possible additional clean-ucosts
		Environment	Limited impact on environment with short-term or long-term effects
		Health	Significant number of people in affected area impacted with multiple fatalities, multiple serious or extensivinjuries, significant hospitalisation and activation of MAJAX procedures across a number of hospitals
4	Significant	Social	Significant damage that requires support for local responders with external resources 100 to 500 people in danger and displaced for longer than 1 week. Local responders require external resources to deliver personal support Significant impact on and possible breakdown of delivery of some local community services
		Economic	Significant impact on local economy with medium-term loss of production Significant extra clean-up and recovery costs
		Environment	Significant impact on environment with medium- to long-term effects
		Health	Very large numbers of people in affected area(s) impacted with significant numbers of fatalities, large number of people requiring hospitalisation with serious injuries with longer-term effects

Definition of Impact and Likelihood of Hazard/Threat

Level	Descriptor	Categories of Impact	Description of impact
5	Catastrophic	Social	Extensive damage to properties and built environment in affected area requiring major demolition General and widespread displacement of more than 500 people for prolonged duration and extensive personal support required Serious damage to infrastructure causing significant disruption to, or loss of, key services for prolonged period. Community unable to function without significant support
		Economic	Serious impact on local and regional economy with some long-term, potentially permanent, loss of production with some structural change Extensive clean-up and recovery costs
		Environment	Serious long-term impact on environment and/or permanent damage

Table 2: Likelihood scoring scale

Level	Descriptor	Likelihood over 5 years	Description of Likelihood over 5 years
1	Low	Estimated at 0.005%	It is a conceivable but highly remote possibility
2	Medium Low	Estimated at 0.05%	No significant incidents of this type have occurred in South Yorkshire & Bassetlaw, but it is capable of happening
3	Medium	Estimated at 0.5%	Has occurred in South Yorkshire & Bassetlaw and is capable of happening again
4	Medium High	Estimated at 5%	Has occurred on multiple occasions in South Yorkshire & Bassetlaw and is capable of happening again
5	High	Estimated at 50%	Has occurred on multiple occasions in South Yorkshire & Bassetlaw and is expected to occur in the future.

Definitions from NHS National Patient Safety Agency

Example of risk matrix (NHS National Patient Safety Agency)

Consequence

Catastropic (5)	Yellow (5)	Orange (10)	Red (15)	Red (20)	Red (25)
Major (4)	Yellow (4)	Orange (8)	Orange (12)	Red (16)	Red (20)
Moderate (3)	Green (3)	Yellow (6)	Orange (9)	Orange (12)	Red (15)
Minor (2)	Green (2)	Yellow (4)	Yellow (6)	Orange (8)	Orange (10)
Negligible (1)	Green (1)	Green (2)	Green (3)	Yellow (4)	Yellow (5)
	Rare (1)	Unlikely (2)	Possible (3)	Likely (4)	Almost certain (5)

Likelihood

Consequence: For example catastrophic means death or debilitating permanent injury and minor means requesting first aid.

Risk management: is assessment, analysis, and management of risks. It is simply recognising which events (hazards) may lead to harm in the future and minimising their likelihood (how often) and consequence (how bad?).

Table Definition of Likelihood (NHS National Patient Safety Agency)

Likelihood: This must be estimated over a stated period or related to a given activity

	1	2	3	4	5
Frequency	Rare	Unlikely	Possible	Likely	Almost certain
How often might it	Can't			Will probably	
happen (per	believe	Do not		happen or	
procedure /	that this	expect it to	Might	recur but it is	
episode or within	will ever	happen or	happen or	not a	Will undoubtedly
a specified	happen or	recur but it is	recur	persistent	happen or recur,
timeframe)?	recur	possible	occasionally	issue	possibly frequently

Likelihood: This must be estimated over a stated period or related to a given activitiy

Consequence covers several domains including, impact on patient safety, Quality/complaints, Organsiational, Statutory duty/inspections, Reputation/Adverse publicity, Finance/Claims, Service interruption Consequence should be assessed taking all of these domains into account - the full model matrix can be found at the link below.

http://www.npsa.nhs.uk/EasySiteWeb/GatewayLink.aspx?alld=7267

	HE	ALTH PROTECTION	I ASSURANCE FRAN	IEWOF	RK (Apr	il 2023 to March 2	024)		
		T							
	Version Number	By whom incorporated	Pages Amended	Date		Comments			
	0.1	Denise Littlewood		16th May					
KEY	RAG rating on the effective	reness of controls from assurance wor	k undertaken						
Low Medium High	Significant concerns over the Some areas of concern over Controls in place assessed Insufficient information at pr								
i ngri	Insufficient information at pr	esent to judge the adequacy/effectivenes	s of controls						

Topic area	Hazard or Threat Description	Control Measures	Assurance on Controls	Control RAG Rating	Assurance sufficient? Y/N	Area for Development work				
PREVENTION: Sti	REVENTION: Strategic objective									
To ensure local authority and partners are supporting preventive actions to protect the health of the population										
Surveillance	Failure to recognise and cascade information regarding new and emerging infections in a timely manner to initiate response		Daily Sit Reps Weekly Notification of Infectious Diseases Report UKHSA Monthly Disease Report on Emerging Infections Press releases and other public comms Health Protection Dashboard			Ensure communications maintained with UKHSA using new Health Protection Inbox. Feed data regarding infections into Health Protection Dashboard.				
	Failure to manage and control the spread from an existing or newly emerging infectious disease.	, ,	Notes/actions for all significant Incidents Multi Agency Outbreak and Mass Treatment Plans updated following COVID Health Protection Dashboard			Learning from COVID incorporated into Multi-Agency Outbreak/Treatment Plans and actions implemented. All plans to be reviewed and updated.				
Tuberculosis	Failure to diagnose TB at the earliest opportunity - avoidance of mis diagnosis	The current working document is the TB action plan for England Tuberculosis (TB): action plan for England - GOV.UK (www.gov.uk) Incidents reported to PHE/PH NTBS National Statistics Latent Infection Surveillance NICE Guidance 2016	PHE reports on treatment outcomes UKHSA reports Notes and actions of incident meetings Learning from South Yorkshire TB Cohort Reviews Cohort review is now held as a local clinical network meeting and cohort data is produced Health Protection Dashboard			Latent screening The TB nursing service now consists of one service lead and a second TB nurse with part time admin support Occupational health screening for latent TB in care homes would be a priority or the homeless population No formal agreement for additional capacity which may be required for significant incidents & outbreaks. Ukraine screening and other migrants who come as refugees via atternative route to seeking asylum Migrant health in contingency accommodation (hotels).				
Sexually Transmitted Infections (inc HIV)	Management of outbreaks of sexual health diseases e.g. HIV	(PHE, 2018) Contracts/SLAs with TRFT.	Notes and actions from Incident/Outbreak meetings . Minutes from performance monitoring meetings . Sexual Health surveillance data reports from UKHSA Advice from UKHSA Health Protection Dashboard			Updated guidance for STI outbreaks Further development developing an early detection system for STIs through GUM departments, especially in light of Multi-Drug Resistant Gonorrhoea				

Topic area	Hazard or Threat Description	Control Measures	Assurance on Controls	Control RAG Rating	Assurance sufficient? Y/N	Area for Development work		
	Delay in early detection and diagnosis of people with HIV	guidance. Sexual Health Strategy for Rotherham	Action notes from delivery plan. Minutes from TRFT performance monitoring meetings. Surveillance report from PHE. PHOF reports.			Raising awareness with communities Health Protection representation at Sexual Health Stategy Group.		
Incidents and Outbreaks	Failure to identify, prevent and control risks associated with Food Borne infections, maintain good food hygiene standards	Health for investigation and follow-up REgistration and inspection of food	Daily Sit Reps Outbreak Reports Incidents reported via Health Protection Committee Compliance with standards			Improve links between UKHSA, Public Health and Env Health		
	Failure to control and manage risks associated with Zoonotic infections e.g. cryptosporidium, E.coli 0157	individual cases by UKHSA/Env Health	Weekly reports from DEFRA UKHSA surveillance reports Clusters and outbreaks notified to UKHSA/DPH			Learning shared and implemented. SOPs to be improved and reviewed following COVID		
Routine Vaccinations	Failure to meet targets for the uptake of routine vaccinations including MMR, Singles and BCC	Board	Health Protection Dashboard Quarterly Performance monitoring reports (SITs) South Yorkshire Immunisations Group			Further development required on hard to reach communities.PH meeting with SITs		
Cancer Screening	Failure to meet minimum targets and uptake for Cervical Screening. Late detection and more costly treatment.		Programme Board minutes Health Protection Annual Report to the Health & Wellbeing Board			Improve links between Screening and Immunisation Teams and Public Health Increased scrutiny through Health protection Dashboard		
	Failure to meet minimum targets and uptake for Bowel Cancer Screening Late detection and more costly treatment.	Yorkshire and Humber Programme Board Health Protection Dashboard	Programme Board minutes			Improve links between Screening and Immunisation Teams and Public Health Increased scrutiny through Health protection Dashboard		
	Failure of programmes to reach breast screening uptake rates of 80% Late detection and an increase in cost of treatment.	Board	Minutes from Programme Board Health Protection Annual Report to H&WB			Improve links between Screening and Immunisation Teams and Public Health Increased scrutiny through Health protection Dashboard		

Topic area	Hazard or Threat Description	Control Measures	Assurance on Controls	Control RAG Rating	Assurance sufficient? Y/N	Area for Development work		
Health Care Associated Infections	Failure to ensure the delivery of an effective infection prevention and control service in secondary care to reduce HCAI	NHSE National Guidance Monitor SI reports CQC UKHSA Outbreak Management Guidance	Committee minutes Local audits			Implementation of local action plan		
	Failure to ensure the delivery of an effective infection prevention and control service across the wider community to reduce HCAI e.g care homes.	CQC Health Protection Dashboard	Health Protection Committee minutes			IPC Champions Care Home Newsletter Further work on development of an IPC Team		
	Failure to ensure the delivery of an effective infection prevention and control service within primary care to reduce HCAI	Health Protection Dashboard	Health Protection Committee minutes			Further work on development of a IPC Team		
	Failure to ensure good	Health Protection Committee South Yorkshire AMR/IPC Steering Group	Health Protection Committee minutes			NHS and partners ensure that there is effective local Antimicrobial Stewardship (AMS) by improving the knowledge and understanding of antibiotic resistance, conserving and supervising the use of existing treatments and optimising Infection Prevention and Control.		
Regulation and Enforcement	Failure to fulfil Proper Officer role	Approval by Strategic Director, Rotherham Regeneration and Environment	Letter confirming appointment of Y&H CCDCs			Ensure updated following changes in Staff post covid		
	Contamination of private water supplies Health risks as a result of poor ambient Air Quality	Health Protection Committee Register of Private Supplies Real time monitoring or Air Quality in the borough DEFRA/UKHSA alerts Health Protection Dashboard	Health Protection Committee minutes Local surveillance data UKHSA Alerts			Ensure feedback is received and reported at HPC Development of Air Quality Stategy Feedback to Health Protection Committee		
	Contaminated Land/closed landfills owned by council	Pollution control officer prioritisation and comment on planning applications				Feedback to Health Protection Committee		
	Noise & public health nuisance, domestic, commercial and individual	No of Complaints received No of enforcment actions taken	Health protection Dashboard			Feedback to Health Protection Committee		
Emergency Planning	Failure to respond to major incidents - including Weather alerts	No of incidents Debrief Exercises Emergency planning exercises UKHSA Alerts Met Office Alerts	Health protection Dashboard			Feedback to Health Protection Committee		