

Management Guidelines for MSH6 Mutation Carriers

Male MSH6 approximate risks*				
Cancer type	MSH6 mutation Populatio carrier (up to 75) lifetime ris			
Colorectal	18%	7%		
Endometrial	-	-		
Ovarian	-	-		
Upper gastrointestinal	8%	5%		
Ureter/kidney	2%	3%		
Urinary Bladder	8%	2%		
Brain	2%	<1%		
Prostate	Similar to population/ 18% may be increased			

Female MSH6 approximate risks*					
Cancer type	MSH6 mutation carrier (up to 75)	Population lifetime risk			
Colorectal	20%	6%			
Endometrial	41%	3%			
Ovarian	11%	2%			
Upper gastrointestinal	4%	4%			
Ureter/kidney	6%	2%			
Urinary Bladder	1%	<1%			
Brain	1%	<1%			
Prostate	-	-			

Approximate MSH6- age-dependent cumulative cancer risks*					
Current age	Male colorectal	Female colorectal	Endometrial	Ovarian	
30	0%	0%	0%	0%	
40	6%	3%	2%	2%	
50	6%	4%	13%	2%	
60	9%	9%	28%	2%	
70	12%	20%	41%	11%	
75	18%	20%	41%	11%	

Management recommendations*				
Colorectal screening: 2-yrly colonoscopy from age 35 to 75 - review at 75				
Gastric screening: Helicobacter pylori one-off screening				
Cervical screening: As part of the NHS cervical screening programme				
 No additional cancer screening is currently recommended outside of a research setting; symptom awareness to be advised 				
 Offer risk-reducing hysterectomy with BSO, once childbearing is complete, no earlier than age of 35-40 (risks and benefits to be discussed) 				
 HRT should be offered until age 51 in women who have not had a ER positive breast cancer 				
 Discuss pros and cons of aspirin chemoprevention from age 25 to 65 (GP to prescribe): 150mg OD if ≤70kg or 300mg OD if >70kg (expert opinion) 				
Research studies: e.g. IMPACT (prostate cancer screening study) and EUROPAC (pancreatic cancer screening study)				
Targeted therapies may be available as a treatment option for certain cancer types (immune checkpoint inhibitors e.g. pembrolizumab)				
 Adjuvant 5-FU chemotherapy may not be appropriate for patients with Dukes' B colorectal cancers 				
Facilitate cascade testing in at-risk family members				
Discuss reproductive options				