Competency training and evidence Form: facilitating germline genomic testing in Lynch Syndrome



The NMC 'Standards for Competence' state that nurses are 'responsible and accountable for keeping their knowledge and skills up to date through continued professional development.

The competency framework was developed by Carpenter-Clawson et al., (2023) https://doi.org/10.3389/fgene.2023.1125599. The work was commissioned by NHSE national Genomics Education Programme (Previously Health Education England). The framework also aligns with the genomics nursing competency framework developed by the genomics education programme.

These competencies are for experienced nurses, who already have advanced communication skills, and wish to learn mainstreaming for Lynch Syndrome. They align with the genomics competency framework developed by NHSE's National Genomics Education Programme (Previously Health Education England) and are deliberately clear and simple to complete. They can be adapted to meet different needs and working environments, both geographical and professional.

Each competency (in grey) has specific sub competencies specific to Lynch Syndrome beneath it.

Each sub-competency needs to be signed off by your trainer or other competent professional when it has been met. Several competencies should be assessed face to face, by observing you demonstrating the required skill or in discussion with your trainer.

The Signposting / Comments section provides guidance for where you can gain the knowledge to meet the competency...

It may be helpful to plan to be assessed at various 'touch points' to sign off sub competencies as you meet them: -

- After completing the theoretical knowledge-based learning
- Following a discussion and observation of a genetic counsellor (GC) or mainstreaming nurse carrying out a Lynch Syndrome germline testing appointment
- After being observed by a GC or competent nurse mainstreaming a patient for germline Lynch testing

Your completed competencies should be signed off by your trainer.

Remember, mainstreaming is a fluid skill, if you have not practised it in a while, you may no longer be competent.

This framework can be revisited at any time, any colleague who is competent at mainstreaming can reassess you – do reach out to your other mainstreaming colleagues.

Start date:	Trainee	Pos	ition:
	Name:		
Trainer(s):			
,			
Assessed		Date) :
and signed			
by:			

Competency		Completion Date	Signposting / Comments
1 - Demonstrate an understandin concepts of inheritance, genetics			
Describe how Lynch Syndrome is in			http://www.genomicseducation.hee.nhs.uk/education/videos/autosomal-dominant-inheritance/
Date discussed with trainer:			E-signature/initials of trainer:
2 – Demonstrate an understanding of the difference between a germline and somatic genome and the clinical implications associated with germline or somatic variants			
Demonstrate a knowledge of Lynch Syndrome and its cancer predispositions Describe the different somatic and germline tests and the			Lynch Syndrome Condition Factsheet
implications of these results Describe the pattern of inheritance including the risks to other family m	pattern of Lynch Syndrome,		Lynch Syndrome (colorectal cancer) online training for MDTs: Option 2 - RM Partners (colorectal cancer) Lynch Syndrome online training for MDTs: Option 2 - RM Partners (endometrial cancer)
Describe what the clinical implication of risk of developing cancer, the risk surveillance available	ons of the diagnosis are, in terms		
Date discussed with trainer:			E-signature/initials of trainer:
3 – Describe the local genetic ser to refer patients	vices available and how		
Explain which GMSA you are part of, as well as where your genetics laboratory and genetic services are based			Genomics Laboratory Hubs and Genomic Medicine Alliances https://www.genomicseducation.hee.nhs.uk/education /onlinecourses/facilitating-genomic-testing-introduction-to-offering-genomic tests/
Describe how you would request a Lynch Syndrome germline test and how you would receive the results			
Describe your local genetics referral criteria and when and how you would refer into it		<u>lests/</u>	
Date discussed with trainer:			E-signature/initials of trainer:
4 – Demonstrate the ability to carry out appropriate risk assessments to identify patients that might be at higher risk of Lynch Syndrome			
Demonstrate a knowledge of the modified Amsterdam Criteria and the relevance of the age at which cancer is diagnosed			New clinical criteria for hereditary nonpolyposis colorectal cancer (HNPCC, Lynch syndrome) proposed by the International Collaborative Group on HNPCC - Gastroenterology (gastrojournal.org)
Date discussed with trainer:			E-signature/initials of trainer

5- Conduct a comprehensive family h understand potential high risk for inh			
Demonstrate an understanding of family Syndrome	members at risk of Lynch	Genomics 101: Taking and Drawing a Genetic Family History - Genomics	
Draw a 3-generation family pedigree sho family members	owing confidentiality of other	Education Programme (hee.nhs.uk)	
Demonstrate the ability to conduct general appropriate genetic counselling tools to			
Date discussed with trainer:		E-signature/initials of trainer:	
6 – Understand the wider roles and se clinical genetics teams	ervices offered by local		
Describe the referral pathway to your local clinical genetics, and timelines, following all 3 possible results		https://rmpartners.nhs.uk/our-work/improving-diagnostic-treatment-	
Explain who would add confirmed Lynch National Bowel Cancer Screening Progr	amme (NBCSP)	<u>pathways/lynch-syndrome-quality-improvement-project/lynch-syndrome-patient-information-leaflets/</u>	
Explain what the 'To whom it may conce generated		Bowel Cancer Lynch Syndrome UK (lynch-syndrome-uk.org)	
Explain who and where predictive testing carried out		Lynch Syndrome The Eve Appeal	
Describe where you would signpost patie are looking for further support and inform			
Date discussed with trainer:		E-signature/initials of trainer:	
7 – Understand the national genomic test directory and its potential relevance for your patients and practice			
Demonstrate a familiarity with the Nation	<u> </u>	https://www.england.nhs.uk/publication/national-genomic-test-directories/	
Describe which test directory Lynch Syndrome is found in and what the test is called		Panelapp Genomics England	
Date discussed with trainer:		E-signature/initials of trainer:	
8 – Understand the targeted therapies available for patients			
Explain where to find the relevant guidel (test to treat) medicines in your cancer fi		Guidelines for the management of hereditary colorectal cancer The Manchester recommendations for the management of gynaecological cancers in Lynch syndrome	
		Cancers in Lyndia Syndionic	

		NHS England Implementing Lynch syndrome testing and surveillance pathways Version 1.2 (updated 12 September 2023)
Demonstrate a basic understanding management of Lynch Syndrome an		https://www.bgcs.org.uk/wp-content/uploads/2021/11/British-Gynaecological-Cancer-Society-v13-for-website-with-figure1.pdf (endometrial) https://www.nice.org.uk/guidance/ng151 (colorectal) ACPGBI for colorectal cancer
Date discussed with trainer:		E-signature/initials of trainer:
9 – Understand the broad mechan therapies	ism of action of targeted	
Demonstrate an understanding that of differently to immunotherapy and are traditional chemotherapy		Neoadjuvant Immunotherapy in dMMR colon cancer (esmo.org)
Date discussed with trainer:		E-signature/initials of trainer:
10 – Understand how genomics data can be used in the context of patient prognosis		
Demonstrate an awareness that can are more survivable than those that a		MSI testing and its role in the management of colorectal cancer
Date discussed with trainer:		E-signature/initials of trainer:
11 – Understand how genetic data prevention and earlier diagnosis	can be used in the context of	
Describe the 3 possible results that a		
Explain the basic principles of which will change a patient's cancer risk an	d targeted surveillance	https://patientinfolibrary.royalmarsden.nhs.uk/lynchsyndrome
Describe the potential implications to results of Lynch testing	family members of the possible	https://www.genomicseducation.hee.nhs.uk/education/onlinecourses/facilitating-genomic-testing-discussing-diagnostic-germline-genomic-tests/
Write an appropriate clinic letter for a pathway, reference appropriate local include		rig genomic testing discussing diagnostic genomic tests
Date discussed with trainer:		E-signature / initials of trainer:
12 – Understanding how genomic data is analysed and the potential implications of the analysis process on the outcome on patient management		
Describes how samples and data may be used, stored and accessed		Facilitating Genomic Testing: Data and Sample Management in the NHS
Describe the potential benefits and risks of data and sample use, storage and sharing on personal and familial levels		GMS

Date discussed with trainer:	E-signature/initials of trainer:
13 – Understand the wider, legal, social and ethical considerations of genetic testing for patients	
Demonstrates knowledge and understanding of possible ethical scenarios, such as nondisclosure, and that duty of care may extend beyond the initial feedback of genomic findings Describe the process to inform relevant professionals involved in managing a patient's care	https://www.rcplondon.ac.uk/projects/outputs/consent-and-confidentiality-genomic-medicine
Describe the process to initiate onward referrals to other specialists	
Date discussed with trainer:	E-signature/initials of trainer: