AN HOO INITIATIVE Learning Community Advancing Improvement in Primary Care in Ontario

LEAN – The 8 Sources of Waste

Source	Definition	Examples
Defects	Work that contains errors in the product or process or lacks something of value causing rework.	Recording incorrect health card number; missing a billing code; lack of standardization of EMR's; messages sent to wrong provider; wrong patient information (e.g. phone numbers, etc.); faxes from pharmacy with wrong or missing information; IT issues; reports filed in wrong part of chart; messages/information sent to wrong provider; forgetting to fill a prescription during visit; data in the wrong field.
O verproduction	Doing more than is needed or duplicating what is already done.	Carrying out standard tests on every patient; annual physicals; paps more frequently than q 3 yrs; seeing pts more frequently than necessary if chronic condition well controlled; provider repeating what was done by RN or other team members; not reviewing and reducing recall period for some patients; doing face to face visit when phone call could have been used; charting the same thing in different places; duplication of messages; pre-ops; more than one provider asking patient same questions during same visit; patient being seen by diabetic educator, chiropodist and MD and doing same things; excess copies of files; double charting – paper and electronic.
Waiting	Delays until the next step, idle time created when people, information, equipment and materials not readily available.	Delays between checking in and seeing provider; waiting for test results; referral waits; supplies not in room when needed; waiting for late or no show patients, waiting for EMR to load; interruptions during visits; waiting for IT; searching for handouts or forms; patients waiting for residents to consult with providers; waiting for results that could have been pulled prior to visit.
N on Utilized Human Potential	<i>People not working to full scope of practice.</i>	Physician doing work an RN could do; not using RN or NP to full scope of practice; not knowing who can do what; not using IHP's to full potential; not having at least one person on team with enhanced knowledge of EMR; lack of clarity on the roles that multiple providers/team members can provide to complex patients; not using community partners.
Transportation	Movement of materials not required.	Moving equipment from room to room (e.g. BP); getting hard copies to right place; moving staff from site to site; prescriptions and forms being printed in another room.
Inventory	Excess of anything.	Excess medications to store and possibly will expire, hoarding supplies, printing too many forms causing possible redundancy, under stocked or missing items in rooms.
Motion	Movement of people that does not add value.	Long walk from waiting room to exam room; moving patients from room to room; physician leaving the room for supplies or equipment.
E xtra or Over Processing	Activities that do not add value to the patient from their perspective.	Requesting repeat info from patients; double charting; physicals instead of preventive care; too many clicks in EMR; software that doesn't communicate to other software; lab reports received electronically and by paper; seeing patients more frequently than necessary.



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LEAN Based Tool to Assess Areas for Improvement in Efficiency

Defects - Work that contains errors or lacks something of value causing rework	Rarely Occurs	Source of Frustration
Recording incorrect health card number		
Missed billing code		
Lack of standardization of EMR's		
Messages sent to wrong provider		
 Wrong patient information (e.g. phone numbers, health card #) 		
 Faxes from pharmacy with wrong or missing information 		
IT issues		
Reports filed in wrong part of chart		
Messages/information sent to wrong provider		
Message/information not sent		
Forgetting to fill a prescription during visit		
Data in the wrong field		

Overproduction - Doing more than is needed or duplicating what is already done	Rarely Occurs	Source of Frustration
Carrying out standard tests on every patient		
Annual physicals rather than prevention		
Paps more frequently than every 3 yrs		
Seeing patients more frequently than necessary if chronic condition well controlled		
 Provider repeating what was done by RN or other team members 		
 Not reviewing and reducing recall period for some patients 		
 Doing face to face visit when phone call could have been used 		
Charting the same thing in different places		
Duplication of messages		
 Automatically doing pre-ops that may not be needed 		
 More than one provider asking patient same questions during visit 		
 Patient seen by diabetic educator, chiropodist and MD and all doing same things 		
Excess copies of files		
 Double charting – paper and electronic 		
 Both RN and Provider review chart to see if enough meds until next appointment 		





Waiting - Delays until the next step, idle time created when people, information, equipment and materials not readily available	Rarely Occurs	Source of Frustration
Delays between checking in and seeing provider		
Waiting for test results		
Waiting for referrals		
Supplies not in room when needed		
Waiting for late or no show patients		
Waiting for EMR to load and other IT issues		
Interruptions during visit		
 Searching for handouts, pamphlets or forms; 		
Patients waiting for residents to consult with providers		
 Waiting for results that could have been pulled and reviewed prior to visit 		
 Provider waiting for patient to be roomed and prepared 		

Non Utilized Human Potential - People not working to full scope of practice	Rarely Occurs	Source of Frustration
Physician doing work an RN could do		
Not using RN or NP to full scope of practice		
 Not knowing/understanding who can do what 		
 Not using Inter Health Professionals (IHPs) to full potential 		
 Not having at least one person on team with enhanced knowledge of EMR 		
Lack of role clarity between providers/team members in the delivery of care to complex		
patients		
Not using community partners		





Transportation - Movement of materials not required	Rarely Occurs	Source of Frustration
Moving equipment from room to room (e.g. BP)		
 Getting hard copies to right place moving from desk to desk 		
Moving staff from site to site		
Prescriptions and forms being printed in another room		

Inventory - Excess of anything	Rarely Occurs	Source of Frustration
Excess medications to store with possibility of expiring		
Hoarding/overstocking supplies		
 Printing too many forms that may become redundant prior to use 		
Under stocked or missing items in rooms		

Motion - Movement of people that does not add value	Rarely Occurs	Source of Frustration
Long walk from waiting room to exam room		
Moving patients from room to room multiple times		
Physician leaving the room for supplies, forms or equipment		

Extra or Over Processing - Activities that do not add value, from the patient perspective	Rarely Occurs	Source of Frustration
Asking for repeat information from patients		
Double charting-putting same info in more than one place in chart		
Physicals instead of preventive care		
Too many clicks in EMR		
Software that doesn't communicate to other software- creates duplication of work		
Lab reports received electronically and by paper		
Seeing patients more frequently than necessary		
Referring patients to more than one specialist at same time		
Unclear or incomplete documentation		
Incomplete referral information to specialist		

