Let's Write!

An Introduction to Technical Writing in Dialysis

Karen Gaietto PhD, RN, CNN



Cultivate and Nurture Your Dialysis Career



Objectives

- Define technical writing
- Dispel some writing myths
- Review steps to begin writing
- Explore examples for:
 - Presentation
 - Skills checklists
 - Job Aids/Training materials
 - Policies and procedures
 - Plan of correction
 - Plan of care
- Identify resources



Do you like writing or does writing cause stress?



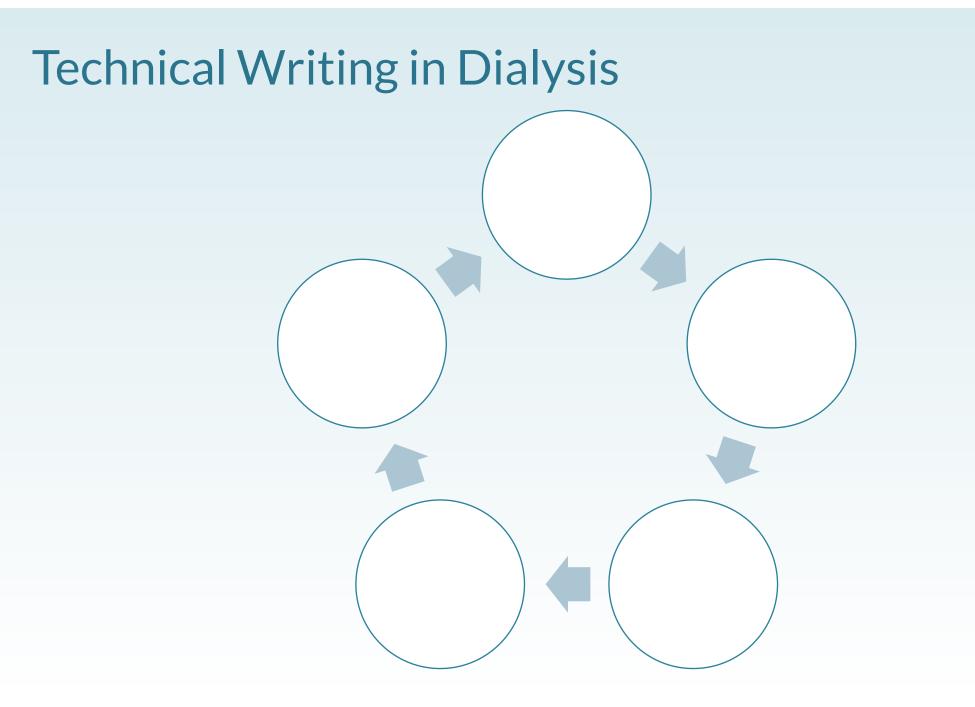
Technical Writing



What is Technical Writing?

Technical writing is a type of writing where the author is writing about a particular subject that requires direction, instruction, or explanation.







Plain Language Strategy

- •Using simple language
- Define technical terms
- •Using active voice
- •Break down complex information into understandable pieces
- •Organize the most important points first



Myth-Writing is Easy!





Myth-Only Creative People are Good at Writing!





Myth-Writing Does Not Require Planning!





Is writing easy?



Where to Start?

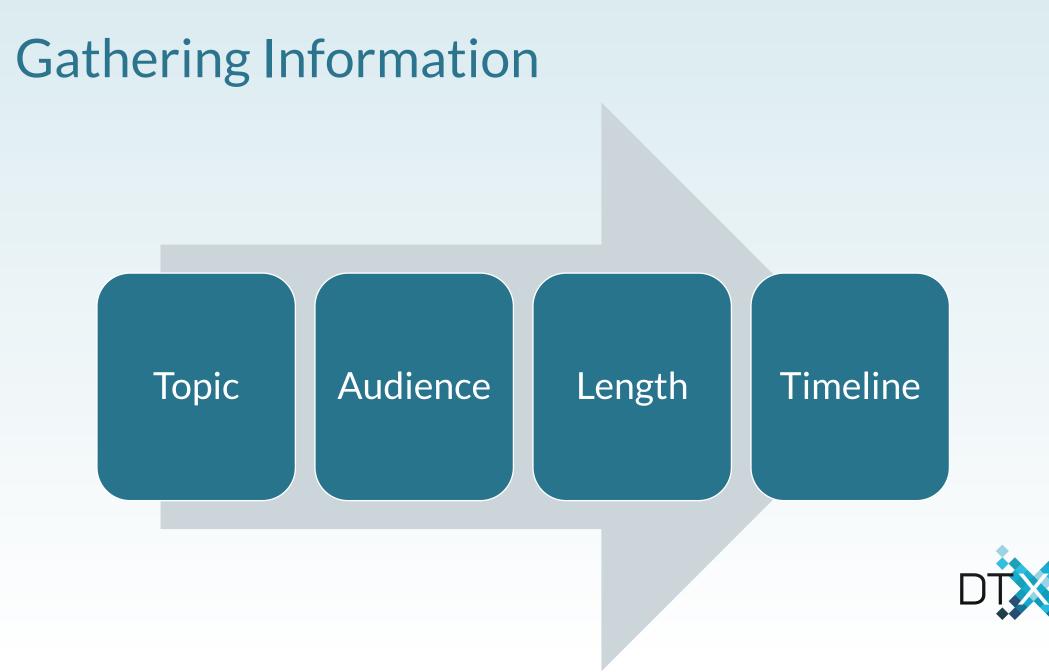




Determining the Purpose

- Why am I writing?
 - Presentation
 - Plan of care
 - Plan of correction
 - Skills checklists
 - Job Aids/Training materials
 - Policies and procedures
 - Notes/Documentation
 - Email
 - Texts





Next-Creating an Outline





Presentation Sections

Introduction
Opening
Body

Supporting information
Closing

Conclusion

Include resource list if applicable



Do you need an outline for writing projects?



Presentation Writing



Gather Information – Presentation Example





Basic Outline for Presentation- Example

- Introduction
 - Define CRRT/criteria for use/when to start
 - Identify Goals of CRRT/Advantages of CRRT
- Body
 - Define Therapy Options/Principles of CRRT
 - Review Care Process/Identify Nursing Responsibilities
 - Review Potential Patient Complications
 - CRRT Machines- common alarms/troubleshooting
- Conclusion



CRRT Education and Training Presentation- Example

- Develop draft
- Reviewers (for feedback)
 - Clinical individuals familiar with the machine and modality
- Revisions
 - Spelling/grammar/terminology
- Legal/Compliance/Risk
- Final Review
- Project Ready

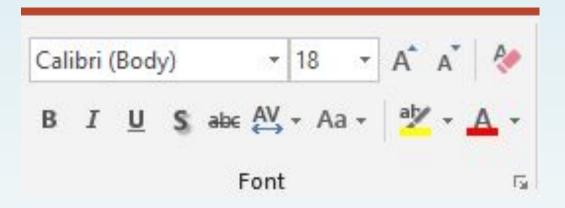




Presentation Formatting Considerations

FONT STYLE/color and SIZE

- Design/consistent look
- Amount of content on slide
- Spelling/grammar
- References
- Copyrights for pictures/diagrams
- Speaker notes





Job Aids/ Training Materials



Writing Job Aids and Training Materials- Example

Topic • Securing CVC

AudienceNurses/techs

Length1-2 pages

Timeline ASAP



CVC Job Aid Example

- Review current P&P
- External materials/resources
- Required content
 - Supplies
 - Steps to secure CVC
 - Pictures or diagrams
- Develop draft
- Reviewer (for feedback)
 - Dialysis technician and/or nurse should be involved
- Revisions made
- Final review completed



Job Aid example

Reference P&P # or title

	Verifying all connections are secure and visible are important as prevent complications such as blood loss		
	Always Put on Appropriate PPE & Per	form Hand Hygiene	Safety & Infection control
	PPE: Fluid resistant/fluid impervious barrier garment Face protection Mask Gloves		
	Key Points on Supplies N	eeded	
	Supplies needed: Single use tape Hemostats (blood line clamps)	~	Supplies
	Securing Hemodialysis Lines for Patient with Ce	ntral Venous Catheter (CVC)	
or title	 1-04-02 CVC lumen and blood tubing connections will be verified for accurate, patent and secure connections, and remain visible throughout the treatment. 		
	 Secure connections and initiate dialysis per policy & procedure. Remember: To verify dialysis lines are secured to patient/patient clothing-to prevent catheter, connections, or dialysis lines to be pulled when patient moves during dialysis care. Hemostats- attached to patient clothing, keeping clean barrier in place (chux) Tape- attaching to patient clothing, keeping clean barrier in place (chux) To document lines are visible and secure. Do Not secure patient lines to immovable object. For example to the chair, bed, or side rail. Those objects do not move with the patient. If the patient's position is changed or an intervention is performed during treatment, verify the treatment lines are loose enough to accommodate movement, and the connections are secure and visible after intervention is 		Pictures/diagrams

OI

Training Material Example

TopicMath

AudienceDialysis technicians

Length1-2 pages

Timeline June 1



Training Material Example

- Review current P&P
- External Resources
- Required parts- create an outline
 - Introduction
 - Reason
 - Units of measure
 - Math- practical application
 - Reinforce/quiz
- Develop draft
- Reviewer (for feedback)
 - Dialysis technician and/or nurse should be involved
- Revisions made
- Final review completed



Dialysis Math A Lesson for Clinical Teammates

Example Training Material

Reason

In dialysis the metric system is used for the calculation and measurement of nearly everything. This lesson provides a quick overview of the most common units of measurement, abbreviations, and a demonstration of calculations in dialysis practice.

Math is all around the dialysis setting. As a dialysis teammate you should to know how to:

- Calculate patient weight (conversion kg to lb and lb to kg)
- Calculate patient oral intake
- Calculate patient weight gain/loss
- Calculate fluid removal
- Calculate patient goal
- Calculate fluid replacement
- Calculate UFR
- Calculate Heparin for infusion (using 1,000 U/mL)
- Prepare bleach water solution

Commonly Used to Conversions		Commonly Seen abbreviations	
1 oz	30 mL	kg	kilogram
1 L	1000 mL	g	gram
1 g	1000 mg	mg	milligram
1 mg	1000 mcg	mcg	microgram
1 kg	2.2 lb	mL	milliliter
1 lb	0.45 kg	CC (used interchangeably with mL)	Cubic centimeter

	bleach solution – working with rcentages/ratios/fractions	Measurements of Concentration
1:10	10% 1 part bleach to 9 parts water 1000mL= 100 mL bleach and 900mL water 500mL= 50mL bleach and 450 mL water	 mg/L: milligrams per liter measures the amount of solute in a liter of solution. One mg per liter is equal to one part per million. PPM: parts per million. One gram contains 1,000mg, and one liter contains 1,000mL of water. Since 1,000 x 1,000 = 1 million, ppm is the same as mg/l
1:100	1% 1 part bleach to 999 parts water 1000 mL= 10mL bleach + 990 mL water 500 mL= 5 mL bleach + 494 mL water	 mg/L. mg/dl: milligrams per deciliter. A deciliter is 1/10 of a liter. This measure is used for blood test results. For example, normal fasting blood glucose is 70- 105 mg/dL. mEq/L: milliEquivalents per liter

Tools- unit of measure



Introduction

Calculations in Practice- Fluid Removal Calculation:

> Quick reminder: 1kg= 1000 mL or 1L; 1 kg = 2.2 lb;

Treatment time= 3 hours	
Determine the patient's intradialytic fl	uid removal by subtracting the estimated target weight
from the pre-dialysis weight. Convert	to fluid equivalents.
Pre-dialysis weight	46 kg
Estimated target weight	- 43 kg
Fluid Gain	3 kg x 1000mL/kg = 3000mL
Next step: Take fluid gain & add the to	otal amount of fluids to be received during tx:
saline prime, rinse back, oral fluids, and I	V meds (antibiotics)
Fluid gain	3000 mL
Saline prime	200 mL
Saine prine	
Rinse back	200 mL
Rinse back	200 mL

Calculations in Practice- Fluid Replacement Calculation:

Treatment time= 3 hours	3
	by subtracting the pre-dialysis weight from the
estimated target. Convert to Fluid equivaler	115. 48 kg
Pre-dialysis weight	
Estimated target weight	- 50 kg
Fluid Gain (is a negative amount)	- 2 kg x 1000mL/kg = 2000mL
Step 2: Add the total amount of fluids to be	
saline prime, rinse back, oral fluids, and IV med	
Saline prime	200 mL
Rinse back	200 mL
Oral fluids	250 mL
Total Treatment Fluids	+ 650 mL
Step 3: Take the negative amount of fluid ga	ain and add the amount of planned treatment fluids.
Total Fluids to be replaced	- 2000 mL
Total Treatment Fluids	+ 650 mL
Remaining deficit of fluid (what needs	- 1350 mL
replaced- it will still be a negative number)	
	t to be replaced. In dialysis we replace this amount
over the number of hours on treatment. The	e treatment time is listed above as 3 hours. This is
delivered by periodic fluid boluses or an infu	usion pump.
Total Fluids to be replaced	1350 mL
Total Treatment time	÷ 3 hrs
Fluid Replacement per hour	450 mL/hr

Calculations in Practice-Blood Flow through the Kidney

At first glance, calculating the amount of blood that flows through the kidney may seem impossible. It helps to know where to start. Thinking through the problem we break it down as follows:

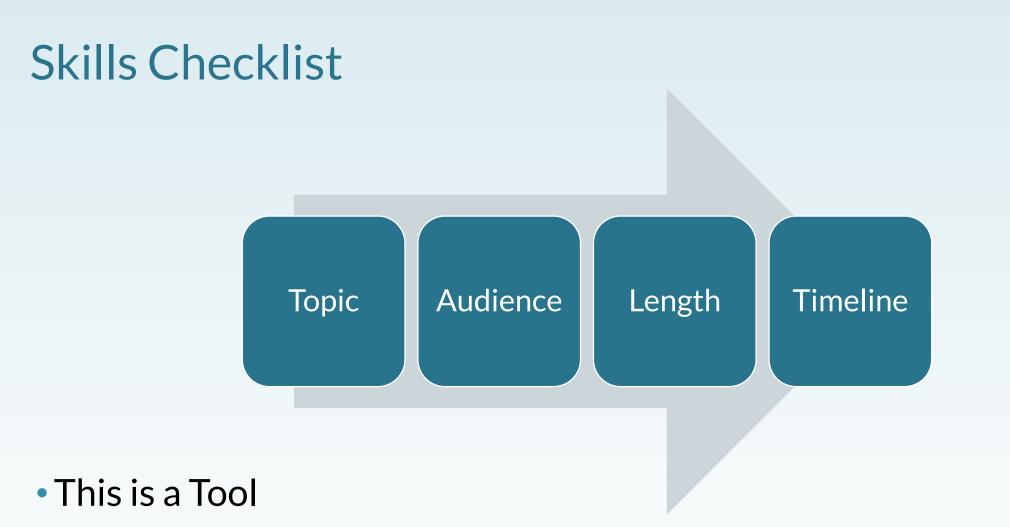
- The human heart beats, on average, 70 times a minute. Each beat (or contraction) of the heart ejects, on average, 70 mL of blood. Thus, every minute, 4,900 mL of blood is circulated by the cardiac pump, which makes the cardiac output ~5 liters/minute.
- Physiological studies show that the two human kidneys receive (as renal blood flow) between 20% and 25% of cardiac output. Reports vary a little, but are always within that range. Even if we use the lower estimate, i.e. 20%, the two kidneys receive (and filter) a total of ~1 liter of blood/minute.
- 3. Therefore, 1 liter x 60 minutes each hour x 24 hours each day x 7 days each week means the kidneys filter just over 10,000 liters of blood/week. Not a bad workload—and don't even try to think how many liters that equals in a normal human lifetime!

Review Quiz

Review Quiz	
 Kilogram is abbreviated as: 	6. One ounce equals approximately milliliters.
a. kg	a. 1
b. kcal	b. 10
c. mc	c. 20
d. k	d. 30
'L' is the abbreviation for:	7. How many milliliters are in 8 ounces?
a. Little	a. 120
b. Pound	b. 210
c. Liter	c. 240
d. Last	d. 300
Milliliter is abbreviated as:	8. How many kilograms is a patient weighing 100 pounds?
a. mg	a. 45
b. min	b. 50
c. mL	c. 60
d. mmol	d. 65
4. One pounds equals approximately	9. How many pounds is a patient weighing 100 kilograms?
kilograms.	a. 100
a. 0.45	b. 120
b. 2.2	c. 200
c. 1	d. 220
d. 2	10. The patient arrives at the unit and is 2.5 kilograms over
5. One kilogram equals approximately	their target weight. How many liters should you
pound.	anticipate removing during the treatment (not including
a. 0.45	prime or rinseback)?
b. 2.2	a. 2 liters
c. 1	b. 3 liters
d. 2	c. 2.5 liters
	d. 1 liter
	1.a 2.c 3.c 4.a 5.b 6.d 7.c 8.a 9.d 10.c

Skills Checklist





Conjunction with other education



Writing a Skills Checklist

Gather resources

- Vendor materials
- Policy/procedure
- Subject matter expert (SME)
- Company templet /example

Satisfactory performance of skill. Policies or Procedure Date and initial of RN Trainer. Pediatric Overview and Causes and Effects of Kidney Failure dentify where/how to locate resources to assist in the care of pediatric patients List at least 3 effects of kidney disease in children list at least 3 effects of kidney disease in the pediatric patient and how these differ from adults Developmental and Psychosocial Effects of Kidney Failure in Pediatric dialvisis patient list 3 developmental considerations when caring for the pediatric age group Ist 3 developmental considerations when caring for the pediatric age group list 2 psychosocial effects of kidney failure for each pediatric age group Ist 2 psychosocial effects of kidney failure for each pediatric age group list 2 psychosocial effects of kidney failure for each pediatric age group Neonatal-Infant 0-12 months Toddler 1-3 years list 3 developmental and Psychosocial effects of wears Toddler 1-3 years Adolescent-Young Adult 12-20+ years list 6 dolescent-Young Adult 12-20+ years Infection Control Standards (as applicable) in the: Hoopital setting lin-Center setting Performs Appropriate Hand Hygiene technique per procedure Demonstrates Prooper use of PPE barrier precautions Demonstrates Prooper use of PPE barrier precautions Performs hand hygiene & Puts on clean gown Puts on clean g		
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 No stathoscope around pack while wearing gown 		
	 No stethoscope around neck while wearing gown 	
Demonstrates how to remove PPE:		
Removes gloves & performs hand hygiene Removes eve protection		



Skills Checklist Language

- Short and concise- plain language
 - Not redoing policy and procedure
 - Refers back to policy and procedure
 - Includes an 'action'

	Satisfactory performance of skill. Date and initials of Trainer.
Demonstrates proper use of PPE	
Verbalizes infection control measures for patient with Hepatitis B	
Confirms patient prescription machine settings per P&P	
Initiates treatment according to procedure	
Documents all findings, interventions and patient responses	DT

Skills checklist- example

Request:

- Chlorine testing- initial/annual training
- Clinical teammates (nurses, dialysis technicians)
- Length TBD (must meet CMS requirements & manufacturer specifications)
- Need by June 1

Gather resources:

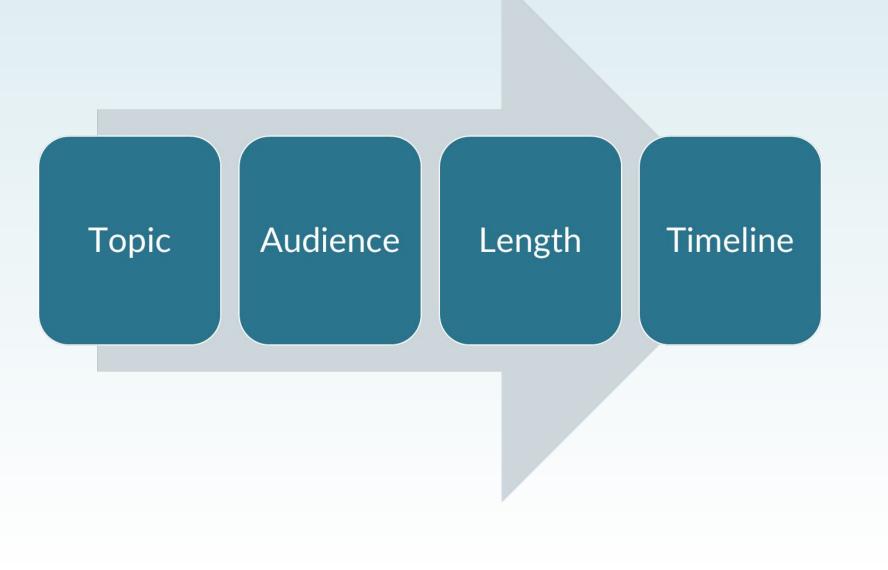
- New P&P (from policy and procedure department)
- Manufacturer directions for RO (from biomed department)
- CMS requirements (from survey department)



Total Chlorine Testing	Satisfactory performance of skill Date & initial of Trainer
<u>Verbalizes</u> reasons for Total Chlorine testing and the consequences of abnormal results	
<u>Locates</u> the appropriate sample collection valves for Total Chlorine water samples on the facility's water system. Indicate valve numbers below: Primary Total Chlorine sample valve Secondary Total Chlorine sample valve	
<u>Operates</u> the Total Chlorine testing device used in the facility (indicate device):	
 <u>Performs & documents</u> Total Chlorine Testing using the primary testing device including: Wears appropriate PPE Verifies the RO has been running for at least 15 minutes Flushes primary carbon tank sample port prior to collecting sample Compares sample results to color chart or color comparator Verifies test results are less than or equal to 0.1ppm Documents results on the Daily Total Chlorine Log 	
<u>Verbalizes</u> action for Total Chlorine breakthrough & documents on the <i>Total Chlorine Break</i> Through Log	D T 22

Name the four things we focus on when we gather information.







Policies and Procedures



Policy vs Procedure

POLICIES provides guidance and principles and describe the purpose of what will be done. They are the overarching standard for handling activities, systems and problems. **PROCEDURES** are far more specific and provide a step-by-step series of actions, processes or measures to be taken to implement or address a particular activity, system or problem.



Writing Policies and Procedures

Systematic approach:

- Recognize need
- Review of current literature/manufacturer directions for use
- •Create a draft
 - Edit, Edit, Edit
- Review/Test
- Approve



Procedure update- example

- Need: changes in machine conductivity requirements
- Review: Fresenius 2008T/BlueStar manufacturer directions for use
- Draft edits of existing procedure
 - Edits from committee review
- Review/Test
- Approve

TITLE:	MACHINE START UP AND PRIMING A SINGLE USE DIALYZER UTILIZING FRESENIUS 2008 SERIES DIALYSIS DELIVERY SYSTEMS AND NIPRO OR COMBISET BLOOD
	LINES FOR FIRST SHIFT OF THE DAY
NOTE:	
NOTE:	THIS PROCEDURE IS ONLY FOR THE FIRST SHIFT OF THE
NOTE:	THIS PROCEDURE IS ONLY FOR THE FIRST SHIFT OF THE DAY.
NOTE:	



Procedure update- example



Plan of Correction



When the Statement of Deficiencies (SOD) arrives:

Review SOD

Write the 1st POC draft on a WORD document

Include for every tag that applies:

- who will conduct in-servicing/education
- dates of in-service for team, documentation as evidence of in-service
- dates of education for patients, documentation as evidence of education in MR
- use policy titles...not just policy number
- dates or estimated dates/timelines for completion (include repairs/physical plant issues)
- who, what, %, and frequency of auditing to monitor for compliance



Completing the Plan of Correction

Finishing steps:

Send 1st draft to survey director, administrator, educators

- Set up and participate in conference calls to finalize the POC, as needed
- Send final POC to survey director for review/polishing/approval/formatting

Submit final POC to CMS or State per instructions on cover letters



Example Plan of Correction

"The Biomedical technician in-serviced the dialysis team on 10/15/21 Policy #23 Machine Conductivity Testing and Policy #24 Machine pH Testing. Conductivity meters and pH testing strips used at the unit were reviewed and the team verbalized understanding and returned demonstration of completing conductivity testing and pH testing strips. Inservice is evidenced by Inservice signature sheet. The biomed technician will conduct documented observational audits on random shifts daily x1 week, then 3x/week x2 weeks, then monthly using the audit tool. Results of audits will be reviewed with the Administrator and Medical Director during the monthly meeting. The Administrator is responsible for compliance. Completion date XX/XX/XX."



Plan of Care



Plan of Care

The Plan of Care must:

- Be individualized
- Specify the services necessary to address the patient's needs, as identified in the assessment
- Include measurable and expected outcomes
- Include estimated timetables to achieve outcomes
- Contain outcomes consistent with current, evidence-based, professionally-accepted, clinical practice standards



Writing for a Plan of Care

Information comes from assessment/data collection

- Generates list of problems
- Team creates/adjust for individual

Participation/Involvement varies

- Your writing (documentation) is important
- Understand the interdisciplinary team approach
- Get involved in planning process



Plan of Care Example- New Patient

Topic- Education:

• New patient needs education related to dialysis care Planned Interventions:

- RN to review Modality Choice materials by XXX
- Dialysis Technician to reinforce Modality Choice materials by XXX

Documentation entries:

 Reviewed Modality Choice materials with patient. They voiced interest in peritoneal dialysis option. Notified charge nurse of patient interest and wanting to learn more about PD.







Make a Plan

Interested – tell your Leadership! Roadmap/Career Ladder Connections

- Interested- invest in yourself!
 - Training
 - Classes

•Interested- practice, practice, practice!



Tools and Resources



Basic Writing Tools/Resources:

• Purdue Online Writing Lab

<u>https://owl.purdue.edu/owl/general writing/the writing process/writing task resource list.ht</u> <u>ml</u>

• Grammarly https://www.grammarly.com/

Presentation Resources:

https://www.skillsyouneed.com/present/writing-your-presentation.html

https://writingcenter.gmu.edu/guides/writing-a-powerpoint-presentation

https://owl.purdue.edu/owl/general writing/visual rhetoric/designing effective powerpoint pre sentations/index.html

<u>Technical Writing:</u> <u>https://contentwriters.com/blog/what-is-technical-writing/</u>



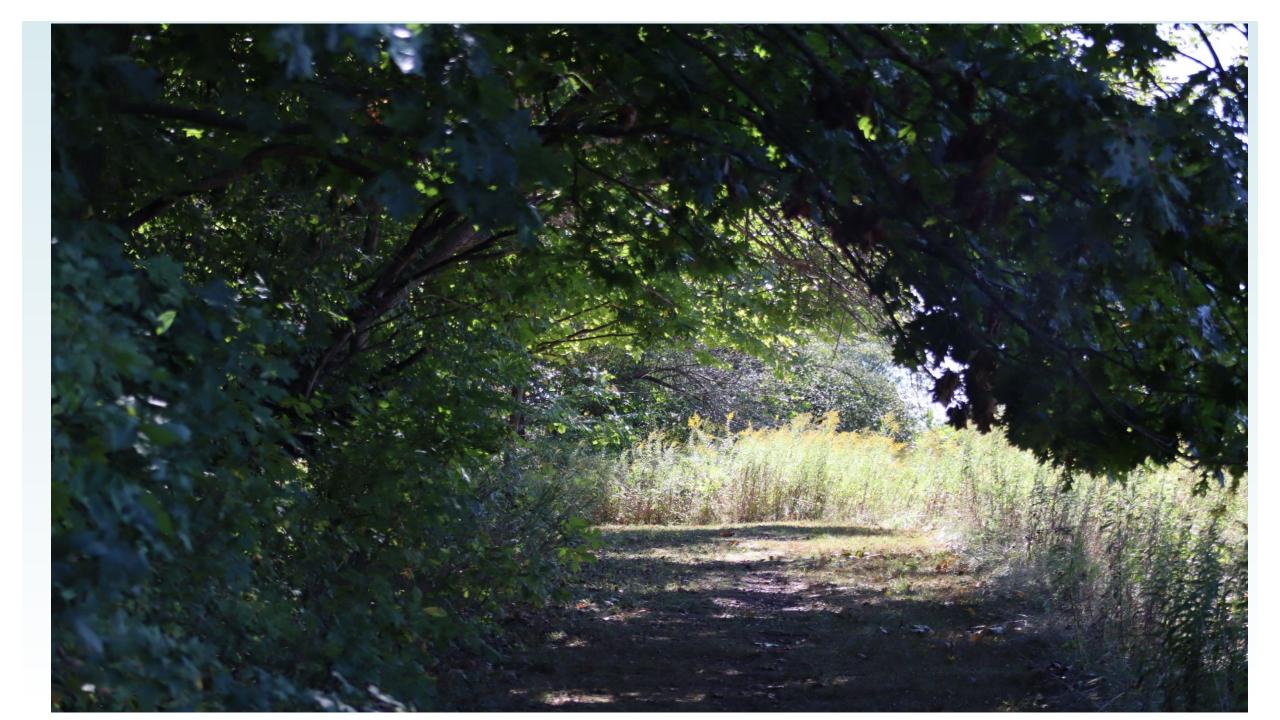




Recap

- Defined technical writing
- Dispelled some writing myths
- Reviewed steps to begin writing
- Explored examples for:
 - Presentation
 - Skills checklists
 - Job Aids/Training materials
 - Policies and procedures
 - Plan of correction
 - Plan of care
- Identified resources





References and other Resources

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- Cleary, Y. (2012). Online Support for Students' Writing Skills Development in a Technical Communication Introductory Module (Vol. 2). IGI Global.
- Cusimano, J. M. (1995, August 1). Turning blue-collar workers into knowledge workers. *Training & Development*, v49(n8), 47.
- Technical writing, presentational skills, and online communication; professional tools and insights. (2012). Reference & Research Book News, 27(3). <u>https://link.gale.com/apps/doc/A291873935/BRIP?u=uphoenix&sid</u> <u>=ebsco&xid=58620413</u>
- Meloncon, L. (2017). Contingent Faculty, Online Writing Instruction, and Professional Development in Technical and Professional Communication. *Technical Communication Quarterly*, 26(3), 256–272. <u>https://doi.org/10.1080/10572252.2017.1339489</u>

