

Parkinson's and Dementia: What's the Connection?



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Speakers

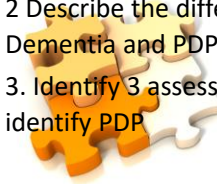
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Objectives

1. Describe 2 symptoms of Parkinson's Disease Psychosis (PDP)
- 2 Describe the difference between Dementia and PDP
3. Identify 3 assessment items that help identify PDP

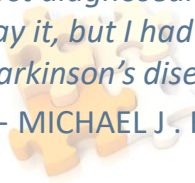


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“I feared Parkinson’s most when I least understood it — the early days, months, and years after I was first diagnosed. It seems strange to say it, but I had to learn to respect Parkinson’s disease.”

— MICHAEL J. FOX



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Overview of Parkinson’s Disease



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What is Parkinson’s Disease

- Parkinson’s disease is a progressive nervous system disorder that affects movement.
- Parkinson’s affects **nearly 1 million people in the United States** and **more than 6 million people worldwide**.
- Lifelong and progressive disease,
 - symptoms slowly worsen over time.
- Symptoms and progression vary from person to person
- Symptoms often begin on one side of your body and usually remain worse on that side, even after symptoms begin to affect both sides.

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Types of Parkinson's

- **2 types of Parkinson's symptoms:**
 - “movement disorder.”
 - **Tremors,**
 - **Slowness,**
 - **Stiffness/ Rigid**
 - **Walking and balance problems**
 - **Loss of automatic movements.**
 - **Speech changes**
 - **Writing changes**

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Types cont.

- **Non-Motor Symptoms (Complications)**
 - constipation, depression,
 - memory problems, loss of mental sharpness/acuity,
 - insomnia, vivid dreams,
 - and daytime sleepiness,
 - impaired bladder control,
 - drooling, impaired taste, and swallowing.
 - sexual dysfunction,
 - vision problems/dizziness,
 - sweating, body aches, and
 - generalized discomfort
 - delusions, hallucinations,
 - anxiety, pseudobulbar affect (inappropriate laughing and crying)

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What Causes Parkinson's Disease?

- Occurs when **brain cells that make dopamine, a chemical that coordinates movement, stop working or die**
- Cause of Decreased Dopamine
 - a **combination of environmental.**
 - pesticides and head injury,
 - in the early 1980s, a group of heroin users in California developed a form of Parkinson's after taking drugs contaminated with a toxin called MPTP.
 - and **genetic factors**
 - **Certain genetic mutations are linked to an increased risk of PD.**
 - researchers estimating that about 30 percent of Parkinson's risk is explained by genetics
 - **Aging is the greatest risk factor** for Parkinson's, and the average age at diagnosis is 60. Still, some people get PD at 40 or younger.
 - researchers project the number of people with Parkinson's will double by 2040
 - cells may be more susceptible to damage as they age
 - **Men are diagnosed** with Parkinson's at a higher rate than women

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Dementia



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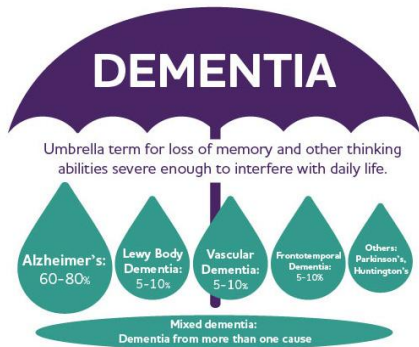
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Dementia Overview

- **Dementia** is a general term for loss of memory, language, problem-solving and other thinking abilities that are severe enough to interfere with daily life. Alzheimer's is the most common cause of dementia.
 - not a single disease; it's an overall term
 - covers a wide range of specific medical conditions
 - disorders are caused by abnormal brain changes (damage to brain cells)
 - can affect behaviors, feelings and relationships a well

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<https://www.alz.org/alzheimers-dementia/what-is-dementia?site=alzheimer%20s%20general.help%20those%20affected%20by%20Alzheimer's>

Parkinson's Disease Psychosis



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Parkinson's Disease Psychosis (PDP)

- Approximately 50% of people living with Parkinson's may experience hallucinations or delusions over the course of their disease.
- Parkinson's disease (PD) is the second most common neurodegenerative disease
- Causes of Hallucinations and Delusions
 - Side Effect of Dopamine therapy
 - Natural Progression of Disease
- What's it like through the resident's perception:
 - Seeing things that others don't see –
 - Like people either living or dead
 - Animals or other objects
 - Hearing noises that others don't
 - Music Conversations
 - Voices

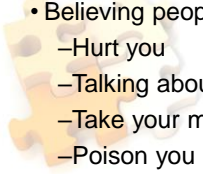


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Parkinson's Psychosis cont.

- Resident Perception cont.
 - Paranoia (psychotic disorder characterized by delusions of persecution.)
 - Believing people want to
 - Hurt you
 - Talking about you
 - Take your money
 - Poison you

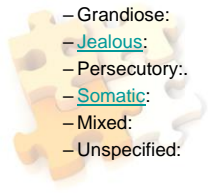


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★ Parkinson's Psychosis cont.

- False beliefs (Delusions)
 - Delusions are fixed beliefs that do not change, even when a person is presented with conflicting evidence.
 - Erotomaniac:
 - Grandiose:
 - Jealous:
 - Persecutory:
 - Somatic:
 - Mixed:
 - Unspecified:

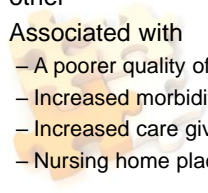


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Difference Between PDP and Dementia

- Psychosis and dementia often co-exist
- Development of one often signals the other
- Associated with
 - A poorer quality of life
 - Increased morbidity and mortality
 - Increased care giver burden
 - Nursing home placement



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★ **Delusions and hallucinations are prevalent across the dementias**

PDP – ~320,000 50% psychosis D – 28-50% H- 32-63%

Table 1. Delusions and hallucinations are prevalent across the dementias.

	No. of People in US With Dementia	Overall Psychosis Prevalence	Delusions Prevalence	Hallucinations Prevalence
Alzheimer's Disease Dementia ^{10,11}	~5.5 million	30%	10%-39%	11%-37%
Vascular Dementia ^{10,11,12}	~1.6 million	15%	14%-27%	5%-14%
Dementia With Lewy Bodies ^{10,11,13}	~435,000	75%	40%-57%	35%-78%
Parkinson's Disease Dementia ^{10,11,14}	~320,000	50%	28%-50%	32%-63%
Frontotemporal Dementia ^{10,15}	~80,000	10%	2.3%-6%	1.2%-13%

*2.4 million people in the US have dementia-related psychosis

https://morethancognition.neurologyreviews.com/wp-content/uploads/Understanding_the_Burden_The_Impact_and_Consequences_of_Dementia-Related_Psychosis_on_Patients_Caregivers_and_Society.pdf
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Recognition



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Recognition of Symptoms

- Identify current Diagnoses
- Observe the resident
- Review the documentation
- Interview the resident
 - Asking pertinent questions
- Interview the family

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Drawing Some Potential Conclusions

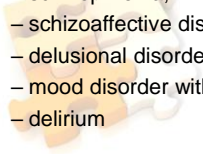
- Presence of at least one of the following symptoms:
 - Illusions – Hallucinations
 - False sense of presence – Delusions
- The above symptoms must be recurrent or continuous for at least 1 month and have occurred after the onset of PD.
- PD psychosis may occur with or without:
 - Insight
 - Dementia
 - Parkinson's disease treatment

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Exclusions

- Other potential medical and psychological causes of psychosis must be excluded before a diagnosis of PD psychosis is made.
 - dementia with Lewy bodies,
 - schizophrenia,
 - schizoaffective disorder,
 - delusional disorder,
 - mood disorder with psychotic features,
 - delirium



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Coding

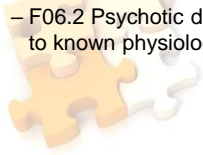


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Diagnoses Codes

- Diagnosis codes for PD Psychosis
 - G20 Parkinson's Disease
 - F06.0 Psychotic disorder with **hallucinations** due to known physiological condition
 - F06.2 Psychotic disorder with **delusions** due to known physiologic condition



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Documentation



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ASSESSMENT

Parkinson's Disease (PD) Psychosis Screening Tool for Long Term Care (LTC) Residents

To: _____ Date: _____

Who: (NCP/CPN/HRN) _____
 Facility staff has identified that your resident may be experiencing symptoms of PD psychosis. The information below may be helpful in determining a diagnosis.

RESIDENT IDENTIFICATION
 Resident Name: _____
 Room Number: _____

HISTORY
 The resident has been primarily diagnosed with Parkinson's Disease
 Screened by: _____ © ICD-10 code on chart _____

POTENTIAL MOTOR SYMPTOMS*
 Tremor
 Gait impairment
 Rigidity
 Non-volitional

PROPOSED NDSH-NHSI DIAGNOSTIC CRITERIA FOR PARKINSON'S DISEASE PSYCHOSIS*
 • Presence of at least 1 of the following symptoms:

- Delusions
- Hallucinations

 • False sense of presence

- Delusions

 • The above symptoms must be recurrent or continuous for at least 1 month and have occurred after the onset of PD

- Insight
- Catastrophe
- PD treatment

 • Other (past medical and psychological) cause of psychosis (eg. dementia with Lewy bodies, schizophrenia, schizoaffective disorder, delusional disorder) must exclude with psychotic features. delirium must be excluded before a diagnosis of PD psychosis is made

SYMPTOMS OF PD PSYCHOSIS
 Psychotic behaviors should be evaluated carefully to determine if they are in response to one or more of the following symptoms (check all that apply):

Major Phenomena:**
 Presence of hallucinations, feeling that someone is present when nobody is actually there
 Presence of delusions: fixation of a person or animal passing in the periphery
 Visual illusions: Misrepresentation of a real stimulus
 Hallucinations: Abnormal sensory perceptions when no real stimulus is present**

Minor Phenomena:**
 Olfactory: Smelling nonexistent odors/tastes
 Tactile: Feeling crawling/itching or moving on the skin
 Visual: Seeing people, animals, or objects that aren't there
 Auditory: Hearing sounds, such as music or people conversing
 Gustatory: Tasting chemicals or strong flavors in food
 Somatic: Feeling as if a part of the body is changing or dissolving

Delusions: Strong false beliefs despite evidence that the belief is not true*
 Persecutory: Belief that someone is trying to harm, mistreat, or deceive them
 Jealousy: Belief that a spouse is being unfaithful
 Reference: Belief that an ordinary event has special or personal meaning (between program is speaking about them personally)

Write how often do these episodes happen per week: _____
 Description of symptoms/impacts on resident: _____

ASSESSMENT

DIAGNOSTIC CODES RECOGNIZED FOR PD PSYCHOSIS*
 Coding conventions that are recognized for PD psychosis include (C20 PD) plus one of the following ICD codes:
 • F06.0 Psychotic disorder with hallucinations due to known physiological condition
 • F06.1 Psychotic disorder with delusions due to known physiological condition

WHEN INITIATING ANTI-PSYCHOTIC THERAPY FOR A RESIDENT WITH PD PSYCHOSIS, CONSIDER THE FOLLOWING GUIDANCE FROM THE CENTERS FOR MEDICARE AND MEDICAID SERVICES:**

F727 and F728 address unnecessary drugs and psychotropic drugs

- To be considered necessary, an anti-psychotic should:
 - Be clinically indicated to manage the symptoms of PD psychosis
 - Be appropriate for the resident's clinical conditions, age, and underlying causes of symptoms
 - Be selected based on assessment of relative benefits and risks vs. and preference and goals of the individual resident

F605 addresses chemical restraints

- To avoid being considered a chemical restraint, an anti-psychotic for PD psychosis should:
 - Be the standard of practice for PD psychosis
 - Be the least restrictive alternative to treat the resident's hallucinations and delusions associated with PD psychosis
 - Help the resident to function at the highest possible level

Coding must be to the highest level of specificity, and all coding decisions are ultimately the responsibility of each prescribing healthcare professional

This screening tool is provided by ACADA for only educational purposes. This tool is an example and may be used as part of a full assessment to help determine if patients are experiencing hallucinations and delusions associated with PD psychosis. Please use your clinical judgment when diagnosing a patient with PD psychosis.

This tool has been approved by:

For additional information regarding PD psychosis, please visit www.martinsparkinsons.com.

References: 1. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 2. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 3. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 4. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 5. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 6. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 7. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 8. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 9. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950. 10. Piccini G, Di Lorenzo G, Di Lorenzo G, et al. ICD-10 clinical diagnostic criteria for Parkinson's disease. *Ann Intern Med*. 2004;140(12):947-950.

Care Planning



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LTC Nursing Care Plan – Parkinson's Disease (PD) Psychosis

Resident Name:	Room #:	Physician:	Date:			
Concerns & Problems	Resident/Family Nursing Goals	Assessment Date	Nonpharmacologic and/or Pharmacologic Interventions	Responsible Discipline	Reevaluation	Team Initials
Symptoms: Halo/haloation's, e.g. seeing or hearing things that are not there	Resident/Family <input type="checkbox"/> Stabilization, reduction, or resolution of symptoms/symptoms <input type="checkbox"/> Decreased frequency of symptoms/symptoms <input type="checkbox"/> Increased positive social interaction	Assess/respond to observations? <input type="checkbox"/> Identify problems through assessments of symptoms <input type="checkbox"/> Assess the history and consequences of symptoms <input type="checkbox"/> Clarify who is negatively affected	Assess/respond to observations? <input type="checkbox"/> Identify problems through assessments of symptoms <input type="checkbox"/> Assess the history and consequences of symptoms <input type="checkbox"/> Clarify who is negatively affected	At 30 Days _____ _____ _____	At 60 Days _____ _____ _____	At 90 Days _____ _____ _____
Delusions', e.g. paranoia	Nursing: <input type="checkbox"/> Engage in activities of daily living (ADLs) <input type="checkbox"/> Participate in PECT/PT as ordered to promote social functioning and psychosocial well-being <input type="checkbox"/> Maintain safe environment <input type="checkbox"/> Monitor risk for falls <input type="checkbox"/> Other	Ascertain causes for symptoms? <input type="checkbox"/> Resident has negative view of caregiver <input type="checkbox"/> Resident doesn't understand needs of caregiver <input type="checkbox"/> Resident is suffering from social isolation or sensory deprivation <input type="checkbox"/> Resident misinterprets situations	Ascertain causes for symptoms? <input type="checkbox"/> Resident has negative view of caregiver <input type="checkbox"/> Resident doesn't understand needs of caregiver <input type="checkbox"/> Resident is suffering from social isolation or sensory deprivation <input type="checkbox"/> Resident misinterprets situations	At 30 Days _____ _____ _____		
Observable behaviors		Conduct interventions matching causes of symptoms, behaviors, preferences, and level abilities? <input type="checkbox"/> Music therapy <input type="checkbox"/> Orientation training <input type="checkbox"/> Exercise <input type="checkbox"/> Art/cognitive activity	Conduct interventions matching causes of symptoms, behaviors, preferences, and level abilities? <input type="checkbox"/> Music therapy <input type="checkbox"/> Orientation training <input type="checkbox"/> Exercise <input type="checkbox"/> Art/cognitive activity	Quarterly _____ _____ _____	Quarterly _____ _____ _____	Quarterly _____ _____ _____
		Interventions addressed for: <input type="checkbox"/> Resident <input type="checkbox"/> Environment <input type="checkbox"/> Staff member <input type="checkbox"/> Family	Interventions addressed for: <input type="checkbox"/> Resident <input type="checkbox"/> Environment <input type="checkbox"/> Staff member <input type="checkbox"/> Family	PN: _____ _____ _____	PN: _____ _____ _____	PN: _____ _____ _____
		Assess and reevaluate whether symptoms and quality of life have improved since intervention	Assess and reevaluate whether symptoms and quality of life have improved since intervention			
		Pharmacologic Interventions: <input type="checkbox"/> Administer medications per order <input type="checkbox"/> Observe for effectiveness of medications <input type="checkbox"/> Observe for adverse reactions <input type="checkbox"/> Monitor/diagnose medications <input type="checkbox"/> Consult healthcare provider for any drug/dose changes	Pharmacologic Interventions: <input type="checkbox"/> Administer medications per order <input type="checkbox"/> Observe for effectiveness of medications <input type="checkbox"/> Observe for adverse reactions <input type="checkbox"/> Monitor/diagnose medications <input type="checkbox"/> Consult healthcare provider for any drug/dose changes			

Additional notes

Under CMS 4557 a comprehensive care plan must be developed within 7 days after completion of the comprehensive assessment. This care plan should be prepared by an interdisciplinary team that includes, but is not limited to, the attending physician, a registered nurse with responsibility for the resident, a nurse aide with responsibility for the resident, a member of food and nutrition services staff, and, to the extent practicable, the resident, the resident's representatives, and other appropriate staff or professionals in disciplines determined by the resident's needs or as requested by the resident. This care plan should be reviewed and revised by the interdisciplinary team after each assessment, including the comprehensive and quarterly reassessments.¹

Additional notes:

This planning tool is provided by ACADIA for educational purposes only. Please use your clinical judgment for establishing a full comprehensive nursing care plan for patients with Parkinson's Disease Psychosis.

This tool has been approved by:



For additional information regarding PD psychosis, please visit www.nadonaltc.com.

Baltesova, E., Savitsky, M., & Pincus, J. (2019). Clinical criteria for psychosis in Parkinson's disease: report of an NINDS, NIMH workgroup. *Mov Disord*, 34(12), 2104-2114.

2. Cohen-Mansfield, J. (1998). Pharmacologic interventions for psychotic symptoms in dementia. *Current Psychiatry Reports*, 2(3), 190-194.

3. Chou, S., Liu, C., & Li, L. (2014). Non-pharmacological interventions for psychotic symptoms in dementia: a systematic review. *Journal of Clinical Pharmacy and Therapeutics*, 39(1), 1-11.

4. Centers for Medicare & Medicaid Services. (2019). *Revised Medicare Coverage of Services for Long-Term Care Facilities*. Baltimore, MD: CMS Dept. of Health and Human Services.

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Panel Members



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Summary

- Educate your staff to recognize potential symptoms of PD Psychosis and dementia
- Initiate an assessment for new admissions or newly diagnosed residents with Parkinson’s Disease
- Create a Policy and Procedure for documentation and care planning
- Train your staff in handling the behavior episodes as directed by the resident and family

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Resources

- <https://www.michaeljfox.org/parkinsons-101?msclkid=d9c3b9792e36126b4fae4ee579133d8>
- <https://www.mayoclinic.org/diseases-conditions/parkinsons-disease/symptoms-causes/svc-20376055>
- https://www.nuplazid.com/hallucinations-and-delusions?utm_source=bing&utm_medium=cpc&utm_campaign=Nuplazid%20DTP%20Unbranded%202019%20-%20Condition_BMM&utm_term=+Parkinsons%20+information&utm_content=Info%20Broad&qclid=CIDas_GzjeUCFQPYDQodwVoGtQ&qclsrc=ds
- <https://movementdisorders.uchicago.edu/2011/09/29/parkinsons-treatment-tips-on-psychosis-and-hallucinations/>
- <https://www.alz.org/alzheimers-dementia/what-is-dementia#:~:text=Dementia%20is%20a%20general%20term,help%20those%20affected%20by%20Alzheimer's.>

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- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC394190/#:~:text=In%20addition%20to%20psychosis%2C%20the,dementia%20and%20mild%20cognitive%20impairment.>
- https://morethanrecognition.neurologyreviews.com/wp-content/uploads/Understanding_the_Burden_The_Impact_and_Consequences_of_Dementia-Related_Psychosis_on_Patients_Caregivers_and_Society.pdf



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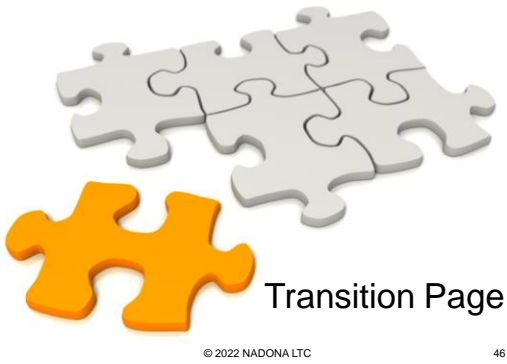
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