

Rickets and Osteomalacia Management

Adjudication Guideline

Rule Category: Medical

Approved by: Daman

Ref: No: 2013-MN-0010

Responsible:Medical Standards
& Research

Version Control: Version No. 3.1

Related Adjudication Guidelines: N/A

Effective Date: Revision Date: 08/02/2019 25/12/2024



Table of Contents

1.	Abst	Abstract		
	1.1	For Members	. 3	
	1.2	For Medical Professionals	. 3	
2.	Scop	oe	. 3	
3.	Adju	dication Policy	. 4	
		Eligibility / Coverage Criteria		
	3.2	Requirements for Coverage	. 5	
	3.3	Non-Coverage	. 5	
	3.4	Payment and Coding Rules	. 5	
4.	Deni	Denial codes		
5.	Appe	Appendices		
		References		
	5.2	Revision History	. 7	



1. Abstract

1.1 For Members

Rickets and Osteomalacia are the two disorders caused by insufficient level of vitamin D in the body. When vitamin D deficiency occurs in children, it is termed as rickets, whereas deficient mineralization of the growth plate in adult is termed Osteomalacia.

Rickets symptoms aches, bone pain, and sometimes enlargement occurs in bones at joints, such as the wrists. Fractures may occur without any known trauma.

In Osteomalacia, bone pain and muscle weakness are the classical symptoms. Fractures may also take place with little to no recognized trauma.

Causes of Rickets and Osteomalacia can be lack of vitamins D intake or less exposure to sunlight, hereditary defect in vitamin D metabolism or defect in end-organ response to vitamin D.

Diagnosis is made through clinical examination - blood, urine tests and radiological examination.

1.2 For Medical Professionals

Management of active Rickets, a condition normally associated with children, will be covered till 18 years of age only, as active rickets after this age are medically unlikely.

Osteomalacia is a similar condition occurring in adults normally associated to vitamins D deficiency.

Management of Rickets and Osteomalacia if medically necessary is covered for all health plans administered by Daman as per the terms and conditions.

2. Scope

The scope of the guideline is to specify the coverage details of Rickets and Osteomalacia management for all the plans administered by Daman.

damanhealth.ae PUBLIC | 11870R00 | 3 of 7



3. Adjudication Policy

3.1 Eligibility / Coverage Criteria

Rickets (0 to 18 years of age)

Rickets occurs primarily in growing children characterized by deficient mineralization in bones as result of vitamin D deficiency but can be associated with low calcium or low serum phosphates all of which leads to impaired growth and architectural disruption of long bone structure.

Types of Rickets:

1- Calcipenic Rickets

- > Nutritional Vitamin D deficiency or calcium deficiency Rickets
- Hereditary Vitamin D dependent Rickets (Pseudovitamin-D deficiency Rickets, Vitamin-D resistant Rickets)

2- Phosphopenic Rickets OR hypophosphataemic Rickets

- Nutritional Phosphate deficiency Rickets
- > Hereditary Hypophosphatemic Rickets
 - X-linked hypophosphatemic rickets.
 - Hereditary hypophosphatemic rickets with hypercalciuria
 - Hypophosphatemic Ricket-tumour Induced

Osteomalacia (18 years onward)

Osteomalacia refers to impaired mineralization of the bone matrix and occurs when the growth plates have fused. Vitamin D deficiency is the most common cause. Diagnosis is made via laboratory results with a low vitamin D level in the setting of low or normal calcium and an elevated intact PTH (Parathyroid Hormone) level. Once the underlying cause is addressed, a successful treatment regimen is possible: increased sunlight exposure, oral vitamin D, and calcium replacement.

Diagnostic/Evaluation factors

- Elderly
- Vitamin D-deficient diet
- Lack of sunlight exposure
- Family history of osteomalacia

damanhealth.ae PUBLIC | 11870R00 | 4 of 7



- Fractures
- Malabsorption syndromes
- Diffuse bone pain and tenderness
- Proximal muscle weakness
- Waddling gait

Types of Osteomalacia

- Vitamin D deficient
- Inherited or acquired disorders of phosphate wasting, or oncogenic osteomalacia

3.2 Requirements for Coverage

ICD-10 codes must be coded to the highest level of specificity.

3.3 Non-Coverage

- Daman does not cover management of Rickets & Osteomalacia for the visitors plan.
- Daman does not cover management of active Rickets above the age of 18.
- Daman does not cover management of Rickets and Osteomalacia for experimental or clinical trial purposes.

3.4 Payment and Coding Rules

Please apply regulator payment rules and regulations and relevant coding manuals for ICD and regulator drug codes.

damanhealth.ae PUBLIC | 11870R00 | 5 of 7



4. Denial Codes

Code	Code description
CODE-014	Activity/diagnosis is inconsistent with the patient's age/gender
MNEC-004	Service is not clinically indicated based on good clinical practice, without additional supporting diagnoses/activities
MNEC-005	Service/supply may be appropriate, but too frequent
MNEC-003	Service is not clinically indicated based on good clinical practice
PRCE-002	Payment is included in the allowance for another service
PRCE-010	Use bundled code

5. Appendices

5.1 References

- http://emedicine.medscape.com/article/985510treatment
- http://emedicine.medscape.com/article/412862overview
- http://www.dynamed.com/topics/dmp~AN~T114165/Rickets#Types
- https://www.fda.gov/Drugs/DevelopmentApprovalProcess/FormsSubmissionRequirements/ElectronicSubmissions/DataStandardsManualmonographs/ucm071754.htm
- https://bestpractice.bmj.com/topics/en-gb/517

damanhealth.ae PUBLIC | 11870R00 | 6 of 7



5.2 Revision History

Date	Change(s)
15-07-2013	Release of V1.1
01-11-2018	Release of V2.1 General contents update Mapping CPT and Drugs Created system support
09-01-2019	Release of V3.0 • Content update
25-12-2024	Release of V3.1 General content update Template updated

Disclaimer

By accessing these Daman Adjudication Guidelines, you acknowledge that you have read and understood the terms of use set out in the disclaimer below:
The information contained in this Adjudication Guideline is intended to outline the procedures of adjudication of medical claims as applied by the National Health Insurance Company – Daman PJSC (hereinafter "Daman"). The Adjudication Guideline is not intended to be comprehensive, should not be used as treatment guidelines and should only be used for the purpose of reference or guidance for adjudication procedures and shall not be construed as conclusive. Daman in no way intererse with the treatment of patient and will not bear any responsibility for treatment decisions interpreted through Daman Adjudication Guideline. Treatment of patient is and remains at all times the sole responsibility of the treating Health care Provider. This Adjudication Guideline does not grant any rights or impose obligations on Daman. The Adjudication Guideline and all of the information it contains are provided "as is" without warranties of any kind, whether express or implied which are hereby expressly disclaimed.

obligations on Daman. The Adjudication Guideline and all of the information it contains are provided "as is" without warranties of any kind, whether express or implied which are nereuy expressly disclaimed.

Under no circumstances will Daman be liable to any person or business entity for any direct, indirect, special, incidental, consequential, or other damages arising out of any use of, access to, or inability to use or access to, or reliance on this Adjudication Guideline including but without limitation to, any loss of profits, business interruption, or loss of programs or information, even if Daman has been specifically advised of the possibility of such damages. Daman also disclaims all liability for any material contained in other websites linked to Daman website.

This Adjudication Guideline is subject to the laws, decrees, circulars and regulations of Abu Dhabi and UAE. Any information provided herein is general and is not intended to replace or supersede any laws or regulations related to the Adjudication Guideline as enforced in the UAE issued by any governmental entity or regulatory authority, or any other written document governing the relationship between Daman and its contracting parties.

This Adjudication Guideline is developed by Daman and is the property of Daman and may not be copied, reproduced, distributed or displayed by any third party without Daman's express written consent. This Adjudication Guideline incorporates the Current Procedural Terminology (CPT®), which is a registered trademark of the American Medical Association ("AMA") and the CPT codes and descriptions belong to the AMA. Daman reserves the right to modify, alter, amend or obsolete the Adjudication Guideline at any time by providing one month prior notice.

damanhealth.ae PUBLIC 11870R00 7 of 7