

2017 RSNA Pediatric Bone Age Challenge
Dataset Description

Imaging Modality	X-ray Preferred name: digital radiography RadLex ID: RID10351
Annotation Pattern	Whole study label
Annotation methodology and structure	Method of annotation <ul style="list-style-type: none"> • Manual Annotation output <ul style="list-style-type: none"> • Spreadsheet (alphanumeric) Storage, Portability, Interoperability <ul style="list-style-type: none"> • Downloadable ZIP file (RSNA website)
Structure nomenclature and standards	<ul style="list-style-type: none"> • Skeletal age in months • Element ID: RDE123 • Name: Skeletal age • Definition: The estimated skeletal age in months • Question: • Values: <ul style="list-style-type: none"> ○ Minimum Value: 0 ○ Maximum Value: 216 ○ Step Value: 1 ○ Units: months
Data use agreement/licensing	<ul style="list-style-type: none"> • Non-commercial purpose • References to dataset
Imaging file/structure set format	PNG
Number of images	Training: 12,611 Validation: 1,425 Test: 200
Patient Demographics	Training: Female 0.46 (Mean age 127 months) Validation: Female 0.46 (Mean age 127 months) Test: Female 0.50 (Mean age 132 months)
Image Characteristics	Resolution <ul style="list-style-type: none"> • Normalized Pre-processing <ul style="list-style-type: none"> • None Burned-in PHI <ul style="list-style-type: none"> • No
Labeler demographics	Scope of annotation: multi-institutional <ul style="list-style-type: none"> • 2 Pediatric radiologists from each institution Clinical report
Responsibilities quality, privacy	Manual review of images to exclude PHI
Reference	Halabi S, et al. The Pediatric Bone Age Machine Learning Challenge. https://pubs.rsna.org/doi/10.1148/radiol.2018180736