Pearson

Pediatric Evaluation of Disability Inventory – Computer Adaptive Test (PEDI-CAT)

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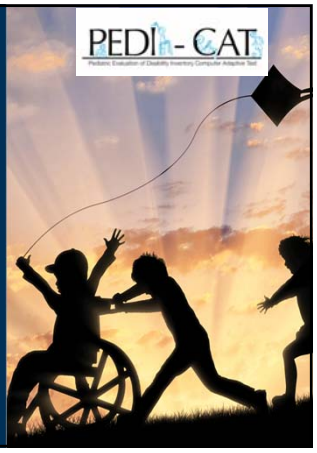
14th May 2020



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Agenda

1. Overview of PEDI-CAT
2. Overview of Q-Global
3. Availability and Pricing
4. Report Options
5. Conversion from current desk-top or iPad versions to Q-Global

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PEDI-CAT Overview

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Key Features

1. Published on Q-g in April 2020
2. Caregiver report
3. Diverse coverage
4. Computer adaptive
5. Automated score and report generation
6. No special environment or equipment required
7. Training-minimal. Manual included
8. Translations – May / June 2020

Languages
English (US)
Spanish (US)
French Canadian
English (Commonwealth)
Dutch

Languages cont'd
German
Swedish / Norwegian / Danish
Italian
Brazilian Portuguese

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Intended Populations

Infants, children and youth (birth up through 20 years of age) with a variety of physical, cognitive, and/or behavioral conditions

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Versions & Domains

- Versions
  - Content Balanced
  - Speedy-CAT
- ASD Scale
  - Content Balanced
  - Speedy-CAT
- Domains
  - Daily Activities
  - Mobility
    - Wheelchair sub-domain
  - Social/Cognition
  - Responsibility

Item bank of 276 items / 300 for ASD

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Applications

- Identification of functional delay
- Progress monitoring
- Reassessment (e.g. initial, interim, discharge and follow-up)
  - no minimum time must pass between assessments
- Goal-setting

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Content Examples

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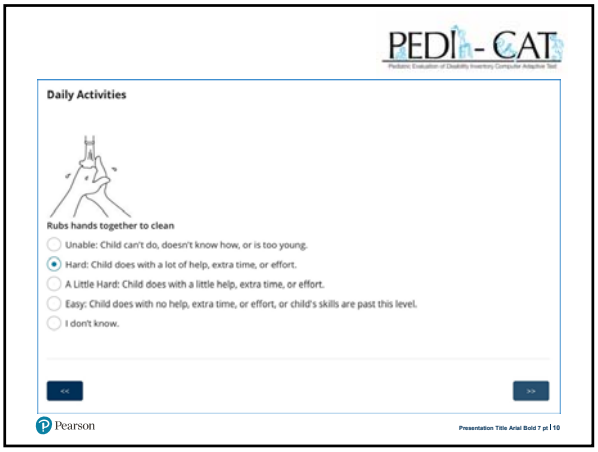

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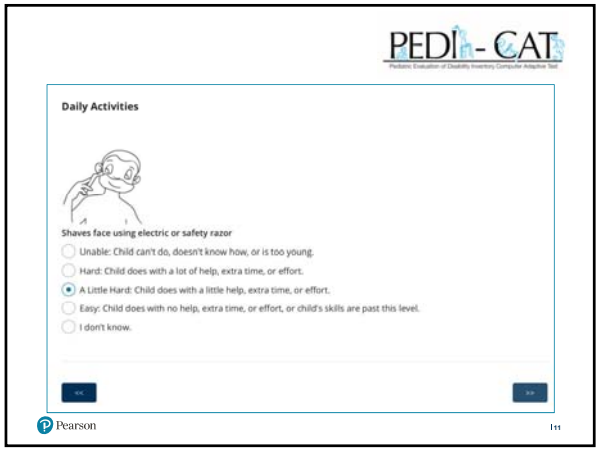

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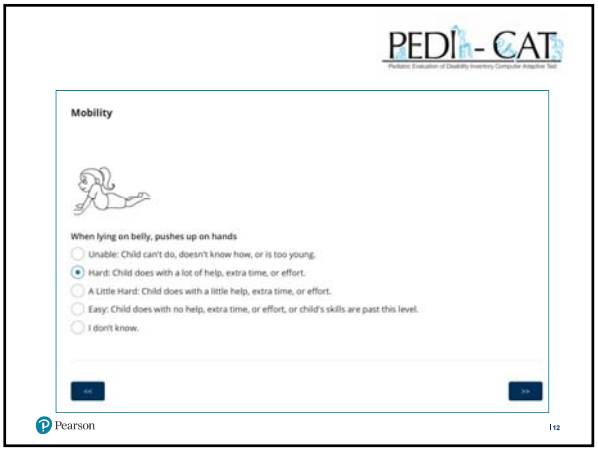

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PEDI-CAT

Mobility

Walks fast enough to cross two-lane street safely. Please do not consider use of walking aids (walker, crutches or canes).

- Unable: Child can't do, doesn't know how, or is too young.
- Hard: Child does with a lot of help, extra time, or effort.
- A Little Hard: Child does with a little help, extra time, or effort.
- Easy: Child does with no help, extra time, or effort, or child's skills are past this level.
- I don't know.

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PEDI-CAT

Mobility

Climbs up ladder of a slide

- Unable: Child can't do, doesn't know how, or is too young.
- Hard: Child does with a lot of help, extra time, or effort.
- A Little Hard: Child does with a little help, extra time, or effort.
- Easy: Child does with no help, extra time, or effort, or child's skills are past this level.
- I don't know.

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PEDI-CAT

Mobility

Walks with walking aid (e.g. walker, crutches or canes) from room to room in home (no stairs)

- Unable: Child can't do, doesn't know how, or is too young.
- Hard: Child does with a lot of help, extra time, or effort.
- (•) A Little Hard: Child does with a little help, extra time, or effort.
- Easy: Child does with no help, extra time, or effort, or child's skills are past this level.
- I don't know.

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PEDI-CAT

Mobility

Goes up and down curbs with manual wheelchair

- (•) Unable: Child can't do, doesn't know how, or is too young.
- Hard: Child does with a lot of help, extra time, or effort.
- A Little Hard: Child does with a little help, extra time, or effort.
- Easy: Child does with no help, extra time, or effort, or child's skills are past this level.
- I don't know.

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PEDI-CAT

Mobility

Moves from manual wheelchair to adult size chair

- (•) Unable: Child can't do, doesn't know how, or is too young.
- Hard: Child does with a lot of help, extra time, or effort.
- A Little Hard: Child does with a little help, extra time, or effort.
- Easy: Child does with no help, extra time, or effort, or child's skills are past this level.
- I don't know.

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PEDI-CAT

Social/Cognitive

Greets new people appropriately when introduced

- Unable: Child can't do, doesn't know how, or is too young.
- Hard: Child does with a lot of help, extra time, or effort.
- A Little Hard: Child does with a little help, extra time, or effort.
- Easy: Child does with no help, extra time, or effort, or child's skills are past this level.
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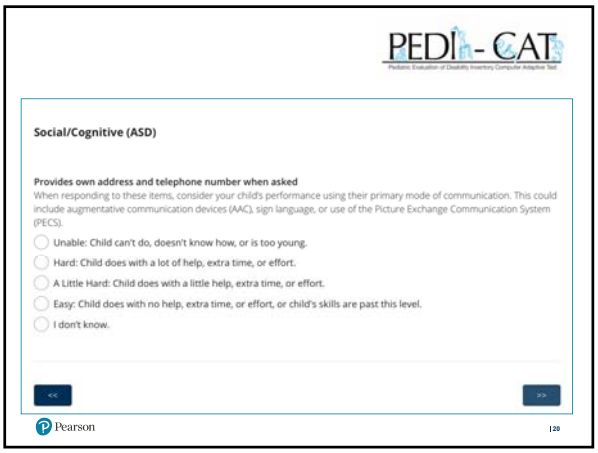

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Psychometric Summary

PEDI-CAT

US Sample

- –N=2205
- –Previously 21 age groups, now 59 age groups
  - – 0 to11 mths: 1 month intervals
  - – 1 to 1:11yrs: 2 month intervals
  - – 2 – 5:11yrs: 3 month intervals
  - – 6 to10:11 yrs = 4 month age bands
  - – 11 to 20:11 yrs = 1 year age bands
- –Clinical validation = 703 children with disabilities
- –Computer adaptive

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Computer Adaptive Testing

PEDI-CAT

- –Aka Tailored Testing
- –IRT is one of many methods to Adapt or Tailoring item administration and score generation
- –Computer-based testing that adapts to the examinee's ability level
- –Requires large item pools
- –Creates a brief, but precise assessment
- –Equal and at times Higher Reliabilities

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Q-global Overview

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What is Q-global?

Q-global

1. **Pearson's web-based platform for test administration, scoring and reporting**
2. **Questionnaires, rating scales etc…**
3. **Depending on assessment, 3 different ways to administer:**
   - – Manual Entry (for paper admin)
   - – On-Screen administration (OSA)
   - – Remote on-screen administration (ROSA)
4. **PEDI-CAT will not have manual entry**

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Q-Global Key Points

Q-global

1. **Unique user access**
   - – 24/7
2. **All reports stored in 1 place**
3. **Manual in the resource library - free**
4. **Data compliance**
5. **Only pay for what you use**
6. **Management of organizational accounts**
7. **Time-saving**

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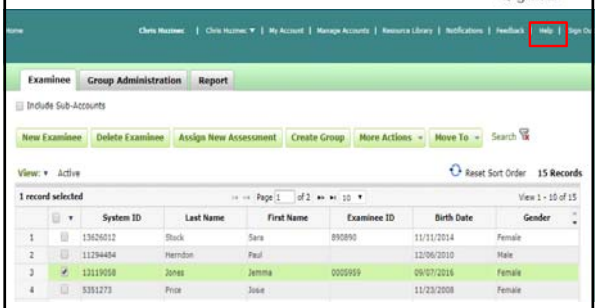
Q-Global Overview

Q-global



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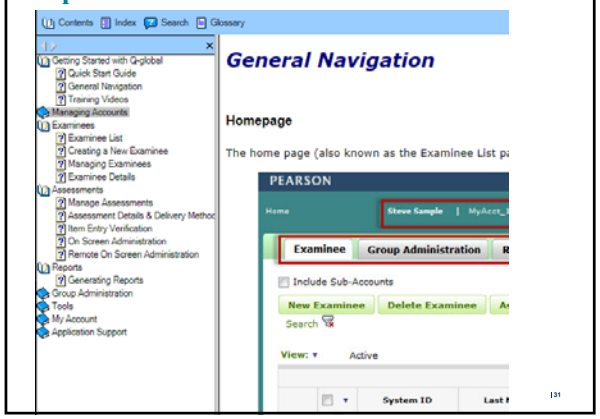
Help Function



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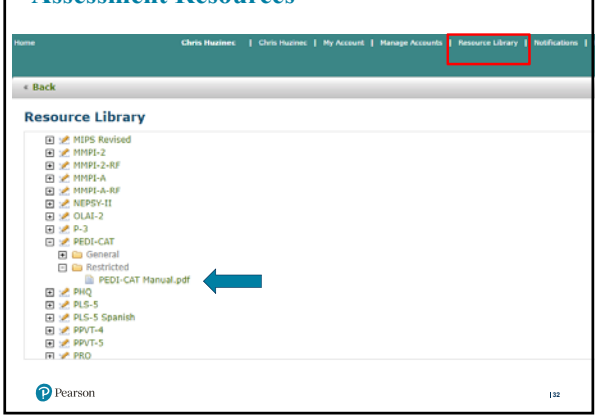
Assessment Resources



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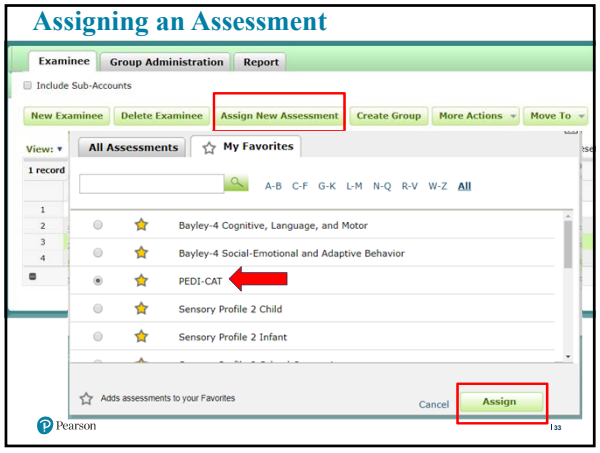
Assigning an Assessment



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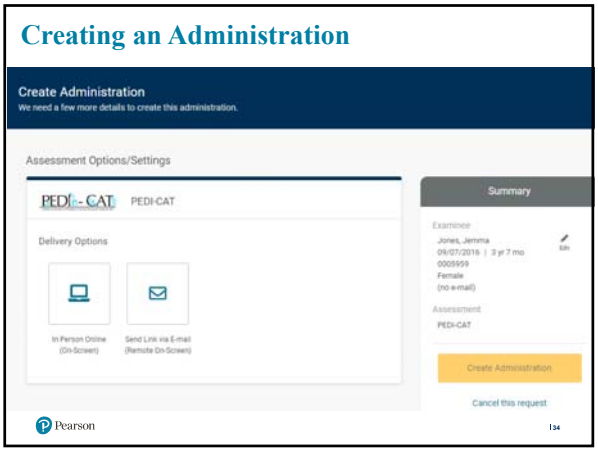
Creating an Administration



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Scheduling an Assessment

Q-global

1. Set a time-limit on caregiver completion
   – E.g. 30 days
2. Re-enter and administration if a connection drops
3. System Requirements
4. Remote questionnaires can be completed on any internet enabled device (4G etc)
5. Test Screen Lock

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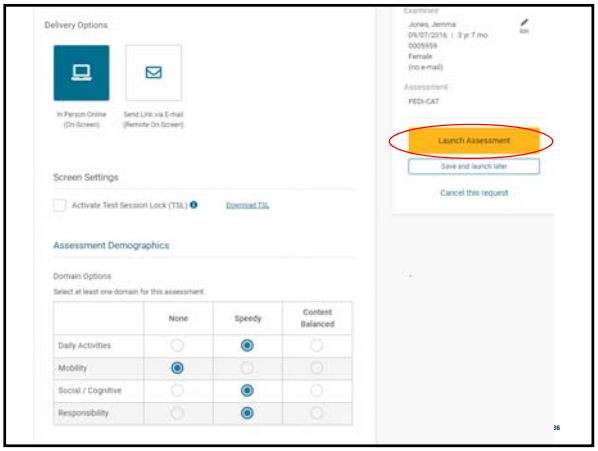

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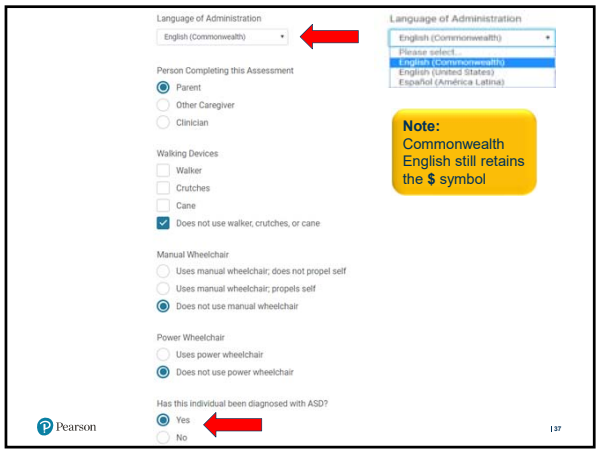

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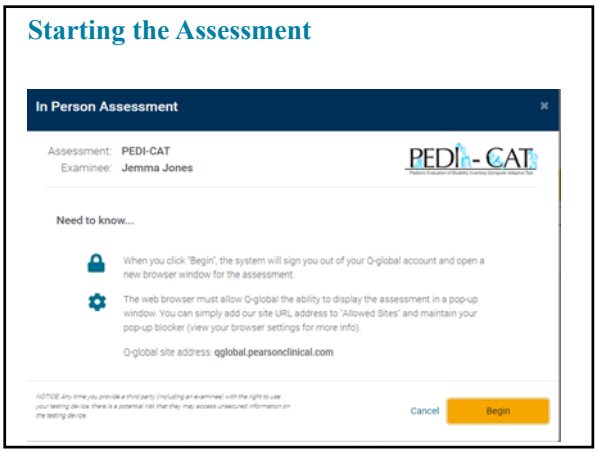

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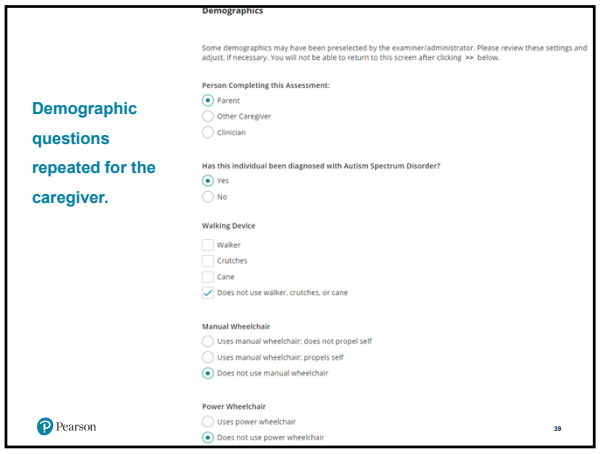

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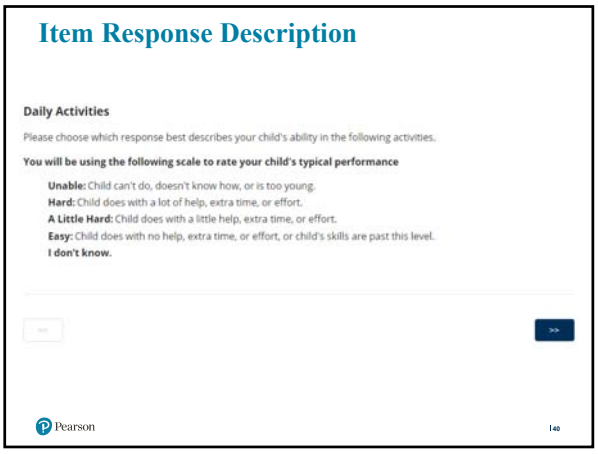

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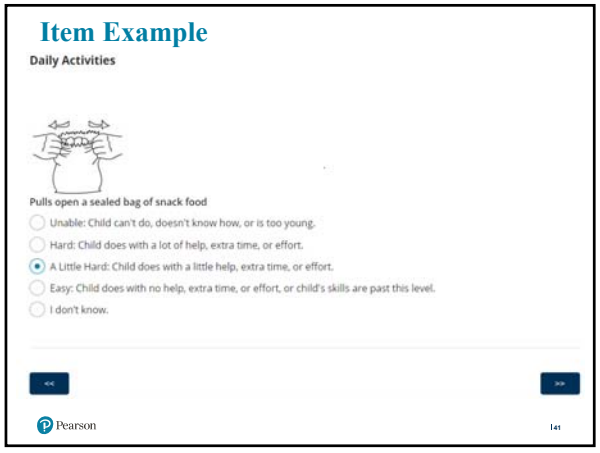

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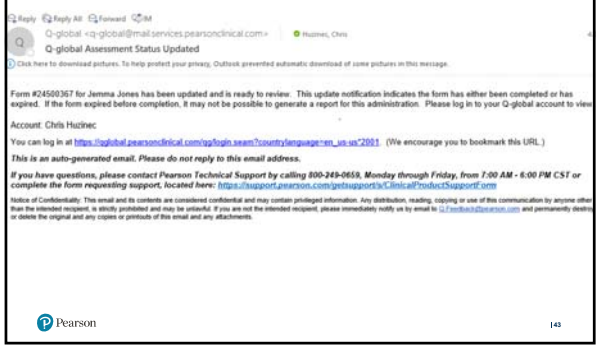
E-Mail After Assessment is Completed



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Generating a Report

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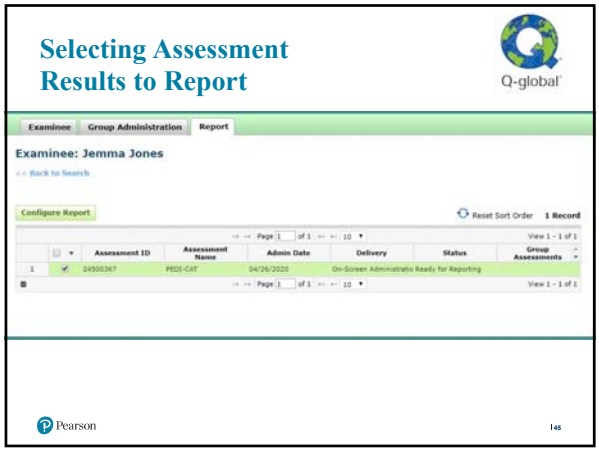
Selecting Assessment Results to Report



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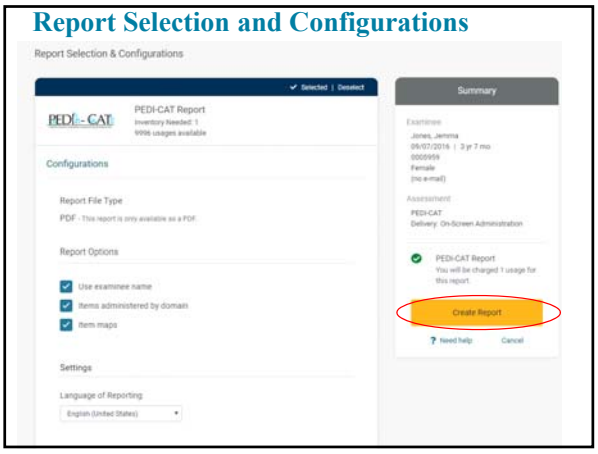
Report Selection and Configurations



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Scores Provided

PEDI-CAT

- –Normative scores: T-Scores and Percentiles
- –Scaled scores:
  - – Criterion referenced, not age-related.
  - – Can be used out of age.
- –Fit score: provides information about whether responses to questions were close to expected.
- –Item Maps

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Report

PEDI-CAT

Pediatric Evaluation of Disability Inventory Computer Adaptive Test

Pediatric Evaluation of Disability Inventory Computer Adaptive Test (PEDI-CAT)
PEDI-CAT Report
Stephen M. Haley, Wendy Coster, Helene M. Dumas, Maria A. Fragala-Pinkham, Richard Moed

Examinee Information

Name:	Jemma Jones
ID:	0005959
Birth Date:	09/07/2016
Gender:	Female

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Summary Scores and Item Analysis

SUMMARY

Normative Scores

Domain	Date	Scaled score	SE	T-Score	Percentile	Fit	# Items	Proxy	Device*	Wheelchair**	Type***
Daily Activities	05/01/2020	55	0.61	<10	<5	1.97	32	Parent	0	0	2
Mobility	05/01/2020	62	0.58	<10	<5	-0.23	30	Parent	0	0	2
Social/Cognitive	05/01/2020	61	0.67	<10	<5	-2.92	30	Parent	0	0	2
Responsibility	05/01/2020	48	0.87	29	<5	0.96	30	Parent	0	0	2

*: 0 = No walking device; 1 = Walker; 2 = Crutches; 3 = Cane
**: 0 = No wheelchair; 1 = Manual wheelchair (does not propel self); 2 = Manual wheelchair (propels self); 3 = Power wheelchair
***: 1 = Speedy; 2 = Content-Balanced

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Items Administered by Domain

ITEMS ADMINISTERED BY DOMAIN

Daily Activities

Pulls open a sealed bag of snack food	A little hard
Tucks in shirt or blouse	A little hard
Puts on winter, sport, or work gloves	A little hard
Puts on socks	A little hard
Puts on and buttons a front-buttoning shirt	A little hard
Cuts vegetables or meat with a fork and table knife	Hard

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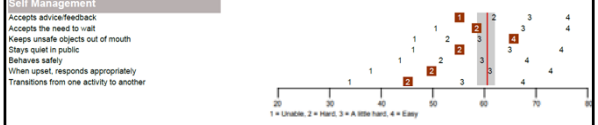
Item Maps

PEDI-CAT

ITEM MAP: Social/Cognitive

Scaled score = 61, SE = 0.67, Fit = -2.92



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Availability and Pricing

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Pricing

PEDI-CAT

- **Reports**
  - £2 per administration/report
- **Manual**
  - Free
- **No expiration on usages**
- **Usage only consumed on report generation**
- **Languages**
  - Includes all languages (when available)

Q-global

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Conversion from current desk-top or iPad versions to Q-Global

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Conversion

1. Continue to use your current license until expiration
2. Updates no longer be supported
   - iPad Dec 2021
   - Desktop TBD
3. Free to set up a Q-global account
4. Use desk-top and Q-global?
5. Training options
6. Support

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Contact

www.Pearsonclinical.co.uk
(search PEDI-CAT)

www.pearsonclinical.co.uk/ContactUs

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Contact

shelley.hughes@pearson.com

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There's so much more to learn

Find out more about us at
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