

Natural Language Definition of OCD Concepts and Description Logic

$OCD \sqsubseteq OCRDs$.

$OCD \equiv Obsession \sqcup Compulsion$.

NL: OCD is classified within Obsessive-Compulsive and Related Disorders (OCRDs) and is defined as either an obsession, a compulsion, or both.

OCRDs	\sqsubseteq Cognitive disorder.
Body Dysmorphic Disorder	\sqsubseteq OCRDs.
Hoarding Disorder	\sqsubseteq OCRDs.
Trichotillomania	\sqsubseteq OCRDs.
Skin Picking Disorder	\sqsubseteq OCRDs.

<p>Obsession \equiv Intrusive thought \sqcup Intrusive image \sqcup Intrusive urge) \sqcap (\exists hasAssociatedAppraisal.ThoughtAppraisal).</p> <p>NL: An obsession is characterized by an intrusive thought, image, or urge causing distress, often emphasized by the individual's significant appraisal.</p> <p>Aggressive obsession \sqsubseteq Obsession.</p> <p>\equiv Aggressive intrusive thought \sqcup Aggressive intrusive image \sqcup Aggressive obsessive urge.</p> <p>NL: An aggressive obsession in OCD can manifest as an aggressive intrusive thought, image, or urge, characterized by the nature of aggression.</p>
<p>Compulsion \equiv (Behavior \sqcup Activity) \sqcap (\exists hasAssociateEmotion.Emotion) \sqcap (\exists hasAssociateImpairment.FunctionalImpairment) \sqcap (\exists hasAssociatedDuration.SeverityDurationLevel).</p> <p>NL: Compulsions in OCD are behaviors or mental acts performed in response to obsessions, characterized by distress, functional impairment, and significant time consumption, including both physical actions like checking doors and mental acts like praying.</p>

Aggressive Obsession	\sqsubseteq Obsession. \equiv Aggressive intrusive thought \sqcup Aggressive intrusive image \sqcup Aggressive obsessive urge.
Hoarding Obsession	\sqsubseteq Obsession. \equiv Hoarding obsessive thought \sqcup Hoarding obsessive image \sqcup Hoarding obsessive urge.
Contamination Obsession	\sqsubseteq Obsession. \equiv Contamination obsessive thought \sqcup Contamination obsessive image \sqcup Contamination obsessive urge.
Sexual Obsession	\sqsubseteq Obsession. \equiv Sexual obsessive thought \sqcup Sexual obsessive image \sqcup Sexual obsessive urge.

Symmetry Obsession	\sqsubseteq Obsession. \equiv Symmetry obsessive thought \sqcup Symmetry obsessive image \sqcup Symmetry obsessive urge.
Somatic Obsession	\sqsubseteq Obsession. \equiv Somatic obsessive thought \sqcup Somatic obsessive image \sqcup Somatic obsessive urge.
Religious Obsession	\sqsubseteq Obsession. \equiv Religious obsessive thought \sqcup Religious obsessive image \sqcup Religious obsessive urge.
Doubt Obsession	\sqsubseteq Obsession. \equiv Doubt obsessive thought \sqcup Doubt obsessive image \sqcup Doubt obsessive urge.

Intrusive thoughts \equiv (Thoughts \sqcap (\exists hasAssociateEmotion.Emotion) \sqcap (\exists hasAssociateImpairment.FunctionalImpairment) \sqcap (\exists hasAssociatedDuration.SeverityDurationLevel))

NL: Intrusive thoughts in OCD are obsessions accompanied by negative emotions such as distress, leading to functional impairment and defined by their duration and severity.

Intrusive Images \equiv Mental Image \sqcap Intrusive Thought

NL: An intrusive mental image, as a form of obsession in OCD, is an intrusive thought that manifests as a vivid visual image, causing distress.

Intrusive urge \sqsubseteq Urge

Intrusive urge \equiv (urge \sqcap (\exists hasAssociateEmotion.Emotion) \sqcap (\exists hasAssociateImpairment.FunctionalImpairment) \sqcap (\exists hasAssociatedDuration.SeverityDurationLevel))

NL: An intrusive urge in OCD is a compelling desire to perform distressing behaviors, significantly impacting daily life and characterized by its emotional association, functional impairment, and duration.

Morbid Thoughts	⊆ Thoughts
Intrusive Thoughts	⊆ Thoughts
Persistent Thoughts	⊆ Thoughts
Recurrent Thoughts	⊆ Thoughts
Aggressive Thoughts	⊆ Morbid Thoughts
Sexual Thoughts	⊆ Morbid Thoughts
Somatic Thoughts	⊆ Morbid Thoughts
Symmetry Thoughts	⊆ Morbid Thoughts
Religious Thoughts	⊆ Morbid Thoughts
Hoarding Thoughts	⊆ Morbid Thoughts
Contamination Thoughts	⊆ Morbid Thoughts
Doubt Thoughts	⊆ Morbid Thoughts
Aggressive Intrusive Thought	≡ Aggressive Thought ⊓ Intrusive Thought
Sexual Intrusive Thought	≡ Sexual Thought ⊓ Intrusive Thought
Contamination Intrusive Thought	≡ Contamination Thought ⊓ Intrusive Thought
Somatic Intrusive Thought	≡ Somatic Thought ⊓ Intrusive Thought
Symmetry Intrusive Thought	≡ Symmetry Thought ⊓ Intrusive Thought
Doubt Intrusive Thought	≡ Doubt Thought ⊓ Intrusive Thought
Religious Intrusive Thought	≡ Religious Thought ⊓ Intrusive Thought
Hoarding Intrusive Thought	≡ Hoarding Thought ⊓ Intrusive Thought
Intrusive Mental images	≡ Mental Image ⊓ Intrusive Thought
Aggressive Mental images	⊆ Mental images
Sexual Mental images	⊆ Mental images
Somatic Mental images	⊆ Mental images
Symmetry Mental images	⊆ Mental images

Religious Mental images	\sqsubseteq Mental images
Hoarding Mental images	\sqsubseteq Mental images
Contamination Mental images	\sqsubseteq Mental images
Doubt Mental images	\sqsubseteq Mental images
Aggressive Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Sexual Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Contamination Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Somatic Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Symmetry Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Doubt Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Religious Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Hoarding Intrusive Image	\equiv Mental Image \sqcap Intrusive Thought
Persistent Mental Image	\sqsubseteq Mental Images
Recurrent Mental Image	\sqsubseteq Mental Images

Aggressive intrusive urge	≡ Feeling of Aggressive urge \sqcap Intrusive urge
Sexual intrusive urge	≡ feeling of Sexual urge \sqcap Intrusive urge
Contamination intrusive urge	≡ feeling of Contamination urge \sqcap Intrusive urge
Somatic intrusive urge	≡ feeling of Somatic urge \sqcap Intrusive urge
Symmetry intrusive urge	≡ feeling of Symmetry urge \sqcap Intrusive urge
Doubt intrusive urge	≡ feeling of Doubt urge \sqcap Intrusive urge
Religious intrusive urge	≡ feeling of Religious urge \sqcap Intrusive urge
Hoarding intrusive urge	≡ feeling of Hoarding urge \sqcap Intrusive urge
Persistent urge	\sqsubseteq urge
Recurrent urge	\sqsubseteq urge
Feeling of aggressive urge	\sqsubseteq urge
Feeling of contamination urge	\sqsubseteq urge
Feeling of sexual urge	\sqsubseteq urge
Feeling of somatic urge	\sqsubseteq urge
Feeling of symmetry urge	\sqsubseteq urge
Feeling of doubt urge	\sqsubseteq urge
Feeling of hoarding urge	\sqsubseteq urge
Feeling of religious urge	\sqsubseteq urge

Compulsive Behavior	⊆ Behavior.
Avoidance behavior	⊆ Behavior
Reassurance behavior	⊆ behavior
Physical compulsive behavior	≡ Physical activity ⊓ compulsion
Physical activity	⊆ Activity
Repeating rituals	≡ Compulsive behavior
Compulsive checking	≡ Compulsive behavior
Compulsive cleaning	≡ Compulsive behavior
Compulsive hoarding	≡ Compulsive behavior
Compulsive washing	≡ Compulsive behavior
Compulsive cleaning	≡ Compulsive behavior
Compulsive counting	≡ Compulsive behavior
Compulsive ordering	≡ Compulsive behavior
Mental compulsive behavior	≡ Mental act ⊓ Compulsion
Mental act	⊆ Activity
Mental praying	⊆ Mental act
Mental counting	⊆ Mental act
Compulsive checking	≡ Checking ⊓ Compulsion
Checking	⊆ Physical activity
Cleaning	⊆ Physical activity
Hoarding	⊆ Physical activity
Washing	⊆ Physical activity
Counting	⊆ Physical activity
Ordering	⊆ Physical activity

Environmental Factor	<input type="checkbox"/> Risk factor.
Social factor	<input type="checkbox"/> Risk factor
Suicide factor	<input type="checkbox"/> Risk factor
Genetic factor	<input type="checkbox"/> Risk factor
Temperamental factor	<input type="checkbox"/> Risk factor
Thought Appraisal	<input type="checkbox"/> Appraisal process
Inflated responsibility	<input type="checkbox"/> Thought appraisal
Overestimation of threat	<input type="checkbox"/> Thought appraisal
Perfectionism	<input type="checkbox"/> Thought appraisal
Over-importance	<input type="checkbox"/> Thought appraisal

Intolerance of uncertainty	<input type="checkbox"/> Thought appraisal
Assessment criteria	<input type="checkbox"/> diagnostic process
Severity control level	<input type="checkbox"/> Assessment criterion
Severity duration level	<input type="checkbox"/> Assessment criterion
Severity resistance level	<input type="checkbox"/> Assessment criterion
Severity distress level	<input type="checkbox"/> Assessment criterion
Severity interference level	<input type="checkbox"/> Assessment criterion
Normal routine impairment	<input type="checkbox"/> Functional impairment
Occupational impairment	<input type="checkbox"/> Functional impairment
Relationship impairment	<input type="checkbox"/> Functional impairment
Social impairment	<input type="checkbox"/> Functional impairment