A Modern Addiction: **Social Networking** and Technology

June 7, 2016 Alexandra Lopez, MA, LCADC, SAC, ICCS, CPS, CCS, BCPC "We are addicted to our thoughts. We cannot change anything if we cannot change our thinking." — Santosh Kalwar, Quote Me Everyday

What We Call Modern Addictions ...

The best audiator of treatment avages is
The best predictor of treatment success is not clients' professed willingness to change
per se, but their ability to specify behaviors
they are willing to perform or avoid in order to effect change.
(Bertholet et al., 2009)
Major Steps Towards the Modern World
Re-naming the "Substance-Related Disorders"
category "Addiction and Related Disorders," a move which reflects both of the above
changes.
Newer Behaviors of Concern It has been over 13 years since pioneer Kimberley S.
Young adapted the DSM IV criteria for gambling
addictions to define Internet addiction. While her proposed diagnosis criteria have virally spread (to use
a familiar term related to social networking) all over the world, it seems that the scientific community is
not yet ready to reach a consensus as to what this type of addiction entails.
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Internet Addiction DSMV V draft released earlier this year revealed "work group members decided there was insufficient research data" to include Internet Addiction in the newly created "behavioral addictions" category.		
The Disease of Addiction: Lets start here		
Addiction is a broad term, which is used to describe an entire process by which people (or animals) become dependent on a particular substance or behavior in order to cope with life. This dependence becomes so important to the individual that they will persist in using the substance, or engaging in the behavior, even when it is harmful to themself, their family, and other important areas of their life.		

Addiction is a primary, chronic disease of brain reward, morbation, memory and related circuitys. Sysfunction in these circuits leads to characteristic biological, psychological, social and spiritual manifestations. This is reflected in an individual pathologically pursuing reward and/or relief by substance use and other behaviors. Addiction is now viewed by the scientific and medical community as a disorder of brain functioning that, like all other disorders of bodily organs, is significantly influenced and impacted by a wide variety of personal, environmental, psychological and physical factors. A Disease Model Addiction A Brain Disease		1
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In psychiatry, the only disorders that have been	
considered addictions are those involving alcohol	
or other drugs. Now, the American Psychiatric Association's Diagnostic and Statistical Manual of	
Mental Disorders include for the first time	
"behavioral addictions"—a change some say is long	
overdue and others say is still premature.	
All addictive substances and activities affect	
neurotransmitters, and these effects are the	
source of the associated "high." Dopamine is	
thought to be the primary neurotransmitter	
involved in all addictions. Dopamine is the neurotransmitter that regulates pleasure.	
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Its domain is satisfaction and euphoria.	
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How it works	
Within seconds of entering the	-
body, drugs cause dramatic changes	
to synapses in the brain. By	
bypassing the five senses and directly	
activating the brain's reward	
circuitry fast and hard, drugs can	
cause a jolt of intense pleasure.	

Drugs of abuse affect the brain in such a dramatic way that the brain must try to adapt. One way the brain compensates is to reduce the number of dopamine receptors at the synapse. As a result, after the user has "come down", they will need more of the drug next time they want to get high.

Tolerance



Anything that makes us feel good, including a compliment or a hug, elevates the dopamine in our brains. Scientists now regard dopamine as "the master molecule of addiction."

(Madeleine Nash,, 1997).

It is thought that addicts increase their usage or the amount they use in order to maintain the high levels of dopamine they have become habituated to through substance abuse. Genetic factors account for about half of the likelihood that an individual will develop addiction. Environmental factors interact with the person's biology and affect the earnt to which person the cost or their influence. Resiliencies the individual acquites (through parenting or later life experience) and rifect the event to which is an autoferations of addiction. Culture also plays a not in how addiction becomes actualized in persons with biological vulnerabilities to the development of addiction. Addiction is characterized by: Inability to consistently Abstain: Inability to consistently Abstain: Inability to consistently show and in the person of the consistent of the consistency of the consis		
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Impairment in Behavioral control;	· '	
• Craving; or increased "hunger" for drugs or		
rewarding experiences; • Diminished recognition of significant	• Diminished recognition of significant	
problems with one's behaviors and interpersonal relationships; and • A dysfunctional Emotional response.	interpersonal relationships; and	
• ASAM., 2011		

Process Addictions
What's the Connection?
Understanding the
Phenomena
The Addictive Process
In recent decades, researchers have
noticed that the concepts they evolved to explain how substance abuse works can
apply by analogy to other forms of
repeated dysfunctional behaviors even when these do not involve ingesting
any "addictive" substances.

For starters
A Process Addiction is : A pathological
relationship to a mood-altering experience
A Chemical addiction is: A pathological relationship to a mood-altering <i>substance</i>
A process addiction is a condition in which a person is dependent upon
some form of behavior, such as love, sex, gambling, shopping, and even
technology – it is a blanket term for any behavioral addiction that does not
involve drugs or alcohol.
Chemical changes in the brain from the behaviors often associated with process
disorders produce a euphoric effect. The chemical changes and the individuals
response to the changes becomes addictive

For example: In a newly published study, scientists from The Scripps Research Institute have shown for the first time that the same molecular mechanisms that drive people into drug addiction are behind the compulsion to overeat.	
What is happening when you engage in these behaviors is you are activating chemicals in the pleasure center of your brain. These chemicals can include serotonin, dopamine and adrenaline. An intense hit of these chemicals can become addictive.	
Those who suffer from process addictions display the same characteristics and behavior patterns as those with substance addictions (including withdrawal symptoms). Because of this, psychological treatment and rehabilitation is necessary in order to overcome the addiction.	

What happens in addiction is lethally simpleThe reward pathways in the brain have been so overstimulated that the system basically turns on itself, adapting to the new reality of addiction, whether its cocaine or cupcakes. The Scripps Institute, 2010	
These findings confirm what we and many others have suspected," Kenny said, "that overconsumption of highly pleasurable food triggers addiction-like neuroadaptive responses in brain reward circuitries, driving the development of compulsive eating. Common mechanisms may therefore underlie obesity and drug addiction." The Scripps Institute, 2010	
Startling Stats	

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In a Chinese study, the prevalence rate of internet addiction was 6.0% among teen internet users. School, interpersonal, and	
anxiety problems were associated with a higher risk for internet	
addiction. Tanget al., 2014	
Poor self-rated health, unhappiness, and depression were	
significantly related with Internet addiction in male and female teens. Depressed girls had a much higher risk of internet	
addiction than boys who were experiencing similar feelings of	
depression. Ha et al., 2014	
Compared to control subjects, individuals classified as addicted to	
the Internet reported greater feelings of depression and rated their family functioning as more negative. <u>Şenormancı et al., 2014</u>	
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In a sample of Chinese youth, those with Internet addiction	
reported greater dissatisfaction with their families, greater parent-	
child conflict, and saw their parents as more punitive, and less supportive, warm. Youth who were addicted to the Internet were	
more likely to have divorced parents, be an only child, and live	
with a single parent. <u>Li, 2014</u>	
In a Chinese study, teens classified as highly addicted to the internet were twice as likely to also display self-injurious behavior.	
Xie et al., 2010	
1 2005 0 15	
In 2005, just 9 - 15 million people in the United States used the internet every day. Every three months the rate of use was	
increasing by 25%. Wieland et al., 2005	
10% of South Korean youth are considered to be at high risk for internet addiction. Park et al., 2009	
memer audiction. Faik et al., 2007	

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7% of Chinese elementary and middle school students suffer		
from internet addiction. The rate is higher in males (10%) than in		
females (4%). The rate is higher for rural students (8%) than for		
city students (5%). <u>Liu et al., 2010</u>		
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Just five minutes after meeting sleep and energy expert Dr		
Nerina Ramlakhan in her central London clinic, she delivers		
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Dr Ramlakhan works at the privately run Nightingale Hospital, and is a member of its technology addiction
treatment team.
Surely tiredness is a by-product of a busy modern life
children, work, hobbies etc - rather than that relaxing time spent watching Netflix in bed?
"The thing many of my patients have in common is the
fact that they are in front of screens all the time. Even when they try to sleep at night. It has become so
pervasive," she says.
They go to bed but can't sleep, or fall
asleep exhausted and wake up tired. People started telling me they couldn't
switch their brains off."
"We see a decrease in memory, a decline
in grades, they're not developing the part of their brain that's a muscle that needs to
be developed for singular focus,"
Social networks are massively
addictive. Most people check and
interact on social sites constantly
throughout the day. And they have no idea how much actual time they
spend on social media.

Cornell Information Science published research earlier this month that looked at (among other things) the difficulty some people have in quitting Facebook and other social networks. They even have a label for the failure to quit: "social media reversion."	
The addictive aspect of social networking is associated with FOMO ~ fear of missing out. Everyone is on Facebook. They're posting things, sharing news and content and talking to each other 24/7.	
The biggest tool in the social media addition toolbox is algorithmic filtering. Sites like Facebook, Google+ and, soon, Twitter, tweak their algorithms, then monitor the response of users to see if those tweaks kept them on the site longer or increased their engagement. We're all lab rats in a giant, global experiment. From: http://www.computerworld.com/article/3014439/internet/social-media-addiction-isa-bigger-problem-than-you-think.html	

The use of algorithms for making social streams increasingly addictive explains a lot. It explains why Facebook (which has been tweaking its addiction algorithm the longest) now gets more than a billion users a day. It explains why Google never let you turn off algorithmic stream filtering all the way. And it explains why Twitter wants to algorithmically filter feeds, despite the general objection of users. From: http://www.computerworld.com/article/3014439/internet/social-media-addiction-isa-bigger-problem-than-you-think.html	
Social media addiction is real, and it can damage careers, degrade life and even harm relationships.	
Diagnosis Where Do We Fit In?	

In-depth understanding of addictive processes must begin with the general and common features of addiction and move to the specifics of the addictive expression in a specific individual. Whether the addiction is single or multiple, substance or process, legal or illegal or an unstable and shifting combination of all the above, certain recurring and recognizable common features distinguish addictive from non-addictive processes.	
The fundamental idea that clients are experiencing a loss of control over a significant aspect of their behavior does provide useful insights into how the problem works and how to assess and treat it.	
Discussion and targeted research of process disorders is relatively recent. In 1997 Brown pointed out how problem gambling, for example, shares a number of features with substance addictions:	

• cognitive distortions and deficits in decision-
making • rituals to trigger arousal
low treatment success rates (but frequent
spontaneous cures) • decline in enjoyment over time
• perceived loss of control.
Today we know that in clients with
process addictions we will assess:
• salience, obsession, abnormal or pathological importance of the substance
or behavior • persistence, rigidity, inflexibility and
repetition of the particular addictive
behavior
relative immunity to adverse consequences and
resistance to learned modification of behavior And very often
An interrelated system of psychological defenses which, like a string of military forts, function in
concert to protect the individual from the full realization and acknowledgement of the self- and
other- harmful nature of his addiction and hence provide cover and concealment for the continued
expression of the addictive process.

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The DSM 5
and the Future of Addictive
Disorders
The essential feature of behavioral
addictions is the failure to resist an
impulse, drive, or temptation to perform an act that is harmful to the person or to
others
Each behavioral addiction is characterized by a
Each behavioral addiction is characterized by a recurrent pattern of behavior that has this essential
feature within a specific domain. The repetitive engagement in these behaviors ultimately interferes
with functioning in other domains. In this respect,
the behavioral addictions resemble substance use disorders. Individuals with substance addictions
report difficulties in resisting the urge to drink or use drugs.

So far, only one behavior has made
the cut: gambling
In the previous DSMIV, Pathological or
compulsive gambling was categorized as an
impulse control disorder. Impulse Control
Disorders have been increasingly viewed as part
of the family of addictions.
Assessment
&
Treatment
reachient

An individual struggling with a Process
Addiction can relate to the common
themes of substance induced disorders.
These themes include guilt , shame ,
remorse, grandiosity, loss, hopelessness
and more. Oftentimes they will lie
constantly to cover up the addiction, deny
there is a problem and seek to shift blame
to others.
The best predictor for a client having a given
process addiction is evidence for their already
having another process addiction. Such
addictions overlap, conceal and substitute
for one another, and may sabotage
treatment for one addiction if any others
are not identified and addressed.
Treatment readiness is critical to the
process- and often complicated to assess.
Even though a particular process addiction
may be causing a client considerable harm,
the client may not specify it as an acute
problem for a number of reasons.
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Understanding the Stages of Change
Model by DiClemente is critical to client
care.

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Because the understanding must	
usually precede the behavior change,	
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clinicians can't force the process, they	
can only seek to help it along.	
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(DiClemente, 2003)	
Some theorists believe that tolerance for one	
kind of behavioral addiction breeds increased	
tolerance for other kinds (cross-tolerance).	
Problem gambling, for example, frequently	
occurs in concert with other process	
addictions, particularly an involvement with	
risky sexual practices. Process addictions go	
together, substitute for one another and	
reinforce one another. (Carnes et al., 2005)	
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People who abuse substances are four to 10	
times more likely than the general population	
to have a gambling problem. Most commonly	
the substance abuse predates the process	
addiction, but sometimes the process	
addiction begins first, or both concerns arise	
simultaneously.	
(Kausch, 2003).	

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Since a process addiction so often appears	
n tandem with other substance or process	
addictions, this entire constellation of	
problems must to some extent be treated as a	
package when determining what is to be	
attempted in treatment.	
attempted in treatment.	
(Carnes et al., 2005)	
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Although we know that substance	
addiction looks much like the process	
addictions, clinicians should be careful	
not to apply substance abuse and	
addiction tools to the assessment of process	
addictions.	-
Some tools for assessment may include	
Some tools for assessment may memae	<u> </u>
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Some Helpful	
Some Helpful	-
Some Helpful Interventions	
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• motivational interviewing (Miller & Rollnick)
• the matching of therapy to the client's current state of change
• brief counseling focused on clearly defined solutions
Cognitive RestructuringGiven the frequency of addiction substitution,
cognitive-behavioral clinicians need to ensure that clients understand the ways in which a range of
addictions may interact (Carnes et al. 200
Recovery
Recovery from process addictions is a
phenomenon that goes on to a great extent
independently of the clinician. Indeed, it can be said that recovery is the process that prompts
clients to seek treatment in the first place—if they seek it at all—not something the clinician
conjures up.

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Abortono	
Abstinence may or may not be a realistic and suitable treatment goal.	
As a professional. You must be willing to reassess personal theoretical models. With	
some process addictions, particularly eating	
disorders, abstinence could be highly undesirable.	
(Behrendt et al., 2008)	
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Sometimes it is sufficient to settle for a significant reduction in the amount of harm the client's	
process/behavior is causing, or to substitute less harmful behaviors for the problematic ones.	
Factors like the clinician's theoretical	
orientation, the client's willingness to change, and the perceived underlying causes of the	
problem all come into play here.	
The professional should	
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 understand the motivation for behavior; establish a baseline of the behavior, encouraging a 	
decrease; 3) address the client's cognitive distortions;	
4) establish underlying causes of stress and distress;	
5) address underlying depression; 6) evaluate and improve coping skills;	
7) restructure free time; and 8) determine the outcome, and prevent relapse.	

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Relapse
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Process Addictions
Troccoor radictions
Recovery in process addictions can become complex
and often overwhelming since the behaviors that have
made an individuals life "unmanageable" are often
normal and even routine in the social context of
everyday life. It is also critical to recognize that
there is still significant stigma in regards to these
disorders. And in many cases, society does not
believe that they exist. They are not yet on our radar as epidemic
radar as epidemie
Even if treatment succeeds in reducing or
eliminating a process addiction, there is a
risk of "replacement" process addictions
arising after therapy if the broad range of
potential and actual problem behaviors
has not been addressed.
The first seen addressed.

A lack of physical limits makes relapse common- especially when we are working with eating disorders. Also common is the tendency to selfmedicate.	common- especially when we are working with eating disorders. Also common is the tendency to self-
common- especially when we are working with eating disorders. Also common is the tendency to self-	common- especially when we are working with eating disorders. Also common is the tendency to self-

There will always be controversy—as there should be—when any forms of inherently normal human behaviors such as eating or sex are clinically designated as pathological.	
While the power to "label" must always be carefully wielded to avoid turning social,	
religious or moral judgments into diagnoses equal care must be taken not to avoid researching and creating diagnostic criteria for these otherwise healthy behaviors should they go awry.	
"It's probably weird to think about an addiction like it's a sentient being, but that's how it feels. Like it's something living inside you. Something you can't get rid of because killing it means killing you." Ellen Hopkins, Identical	



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