How to Manage the Psychological Risks of Trading

Brett Steenbarger and Adam Mann

www.brettsteenbarger.com

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In our article earlier this week, we made the distinction between trading to not lose vs. trading to win. We suggested that trading to not lose occurs when perceived risk varies greatly from actual risk. Under those conditions, we will fail to take advantage of genuine opportunities (if we perceive risk as greater than it really is) or we will lurch into markets when there is no opportunity (if we perceive less risk than is truly present).

Suppose we offer you a trading methodology that is 60% accurate across a variety of trading conditions over a period of many years. All you have to do is risk a prudent 2% of your capital on each trade and ride your edge. The method trades twice a week and, on a historical basis, has been solidly profitable every year for the past five years.

After performing your due diligence, you decide to follow the trading method. You begin with $100,000 of capital. To see what your results might look like in a year's time, Dr. Brett employed a random number generator that spit out numbers between 1 and 50. If the number came out to be 1-20, the trade was considered a loser and $2000 was deducted from the account. If the number was higher than 20, the trade was deemed a winner and $2000 was added to the account. That provided a random sequence of winners and losers with an overall 60/40 win/loss edge and risk per trade limited to 2% of starting capital. (Note: This is a simplified example. Commissions and other trading expenses were not deducted; in real life we would risk X% of portfolio value, not a fixed percentage of starting capital).

By August, here is what your trading results looked like:
The good news is that you're up money. Indeed, you've made 8% on your initial capital. Not sexy, perhaps, but better than the proverbial stick in the eye. The bad news is that, since March, you're actually down money. In fact, for most of the year so far you've been treading water. *Notice that, even with this built-in edge and prudent loss limits, there are psychological risks embedded in trading:*

- **The risk of boredom** - Many traders are attracted to trading because of the possibility of large P/L moves in a relatively short period of time. Our sound trading method offers little such excitement. Indeed, there are long periods of relatively flat performance. If the trader is trading for needs other than profitability (excitement, quick riches), he or she is apt to abandon the method after months of treading water.

- **The risk of drawdown** - Many traders equate a trading edge with a smooth equity curve. Not so! As we mentioned in the earlier article, even a method with a 60/40 win/loss ratio will experience a series of four losing trades 2-3 times on average per 100 trades. In the case of our random order of wins and losses, we wound up with months of drawdown, albeit modest. The trader who equates drawdown with failure will abandon even a good method.

- **The risk of drawup** - We made up that term, in case you wondered, but you get the point. If drawdown is the amount your portfolio loses value in a period of time, drawup is the amount your portfolio rises. In a relatively short period, we had a series of winners early in the year, putting the portfolio up 20%. A method with 60% winners has about a 13% chance of giving you streaks of four consecutive wins. Why is this a risk? After a big drawup, many traders become
overconfident and change their position sizing and trading frequency, negating their edge. Their expectations raised, they find it harder to get through the inevitable periods of flat performance.

So let's say you succumb to those risks and, by August, abandon the trading method. Here's how our random sequencing of winners and losers wound up the year:

Silly us. Just as we bailed out due to boredom, drawdown, and/or unfulfilled high expectations, the method gave us a streak of winning trades. By the end of the year, we would have been up over 30% on our initial capital.

This raises the most fundamental psychological risk of all:

- **The risk of sequencing** - Quite simply, even with a demonstrated edge and prudent loss limits, we cannot know in advance the sequencing of our winners and losers. The account is up handsomely for the year, but spent just as much time treading water as rising. Much of the method's gains were obtained in a relatively short period of time—*but we can't know what that precise time is going to be.* That means we have to endure down sequences and flat ones in order to get to the winning periods.

The risk of sequencing is a psychological risk even if you have an edge, and it is a risk whether you trade a mechanical system or in a totally discretionary manner. Quite simply, if you have X% odds of winning, you can determine the probability of
encountering streaks of wins and losses. If you perceive those streaks as abnormal events—even when they're statistically expectable—you will respond to them abnormally: with anxiety, self-doubt, and likely missed opportunity.

**Sequencing offers psychological risk because we tend to take those sequences personally.** When we have a string of wins, we think we have a hot hand. We think we've figured the market out. We feel overconfident, and we act accordingly. Conversely, when we have a string of losses, we think we're on a cold streak. We think we've lost our edge. We lose confidence, and we act accordingly. And if we have strings of alternating wins and losses? We think we're wasting our time, going nowhere. We feel bored, and we act accordingly.

The best psychological treatment aligns psychological risk—the risk we perceive—with actual market risk. We accomplish that by knowing—as precisely as possible—the historical performance of our trading methods. That is relatively easy when we're trading mechanical systems: many software programs will provide us with detailed reports of system performance, including drawdowns, the maximum number of successive winners and losers, and P/L curves.

What many traders don't know is that, they can obtain similar reports for their discretionary trading. Programs such as Trader DNA (www.traderdna.com) and platforms such as Neoticker (www.tickquest.com) and Ninja Trader (www.ninatradr.com) collate trading results for traders and calculate performance statistics, similar to those used to evaluate trading systems. These statistics can be collected for simulated as well as live trading, enabling traders to determine their edges before placing money at risk. (Disclaimer: We have no commercial ties to any of these firms or services).

The psychologist Donald Meichenbaum introduced a technique for stress management that he called stress inoculation. He found that exposing people to low levels of an anticipated stressor helped them cope with actual stresses when they occurred. Evaluating your performance—knowing your likely drawdowns, drawups, and flat performances in advance—is a kind of stress inoculation, preparing you for the outcomes you're likely to face **even when you trade well**. We are well acquainted with how emotions can disrupt trading; less well appreciated is how trading can play with our heads! As in medicine, a little inoculation can go a long way toward preventing major ills.

Bio:

Brett N. Steenbarger, Ph.D. is Associate Clinical Professor of Psychiatry and Behavioral Sciences at SUNY Upstate Medical University in Syracuse, NY and author of *The Psychology of Trading* (Wiley, 2003). As Director of Trader Development for Kingstree Trading, LLC in Chicago, he has mentored numerous professional traders and coordinated a training program for traders. An active trader of the stock indexes, Brett utilizes statistically-based pattern recognition for intraday trading. Brett does not offer
commercial services to traders, but maintains an archive of articles and a trading blog at www.brettsteenbarger.com and a blog of market analytics at www.traderfeed.blogspot.com. His book, Enhancing Trader Development, is due for publication this fall (Wiley).

Adam Mann is a technical writer with Wildwood Partners, LLC, an Arizona-based firm that researches and develops trading strategies across multiple markets. Over the course of eight years, Wildwood Partners has developed its own proprietary model that has demonstrated above average performance while trading a real time virtual account. It combines pattern recognition with breakout and trend following concepts.