Metacognitive Training (MCT)

MCT 3 B – Changing Beliefs

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Changing Beliefs

Human tendency to hang onto first impressions (e.g. prejudice, “the first impression is the only impression” attitude).
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- **Reasons:**

  - **Problems:**
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- **Reasons:** Laziness, “confirmation bias”*, thoughtlessness, helps to orient in a complex world, pride

- **Problems:** ???

* You only see what you want to see
Changing Beliefs

Human tendency to hang onto first impressions (e.g. prejudice, “the first impression is the only impression” attitude).

• **Reasons:** Laziness, “confirmation bias”*, thoughtlessness, helps to orient in a complex world, pride

• **Problems:** False judgments (e.g. racial prejudices) are maintained, false over-generalization (“seen one – seen them all”), someone is not given a second chance who might have deserved one

* You only see what you want to see
Quotes by people who made incorrect predictions

“Sensible and responsible women do not want to vote.”
Grover Cleveland, former President of the United States of America, 1905

“This 'telephone' has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no value to us.”
Western Union, leading company for financial services and communications, 1876

“It will take more than one generation until the first manned mission lands on the moon.”
Harold Spencer, Astronom, 1957 (the landing on the moon happened 12 years later)

“The horse is here to stay but the automobile is only a novelty – a fad.”
The president of the Michigan Savings Bank about investing in Ford Motor Co., 1903

“X-rays will prove to be a hoax.”
Lord Kelvin, President of the Royal Society, 1883

“The phonograph has no commercial value at all.”
Thomas Edison, famous American inventor, 1880s (phonograph = first device to record voices)
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We should be open-minded about new experiences – time changes and no one can foresee what the future brings.
Inflexibility “in action” (“tunnel vision”)

<table>
<thead>
<tr>
<th>domain</th>
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<tbody>
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<td>• Missing out new developments; sticking to outdated business strategies, selling outdated products (e.g. photographic films, typewriters); ignoring new technologies (e.g. a company that has no webpage on the internet).</td>
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Why are we doing this?

Studies show that many (but not all!) people with psychosis continue to cling to their opinion or belief about an event, even when confronted with information that challenges this belief.

This may lead to interpersonal problems and may obstruct a healthy, realistic view of the environment.
How rigidly held beliefs promote misinterpretation during psychosis – examples

- You do not exchange ideas with others because you expect/fear conflict or do not trust other people anymore.

- Disagreement or questioning is perceived as a hostile challenge.

- Information is derived from one source only (e.g. internet forums about conspiracy theories), with other more serious media (e.g. press agencies) not being considered.

Can anyone contribute a short personal experience?
The three pictures below belong to a certain category. What is the category?

If you are confident about the underlying category, give your answer.

You will get feedback ("yes" vs. "no").

Please suggest other items in the sequence to test your assumption.
Category: Food!

Common error: Most people only search for information that supports their assumption but do not look for contradictory information (due to the confirmation bias). In this case, the seemingly correct category is fruits. Often, no alternative considerations/thoughts are taken into account.

Examples from everyday life:

- one only reads newspapers consistent with one’s own opinion.
- one avoids contact with people who think differently instead of discussing opposing views with them.

This might lead to one-sided attitudes and even foster incorrect judgments.
Exercise

• Three pictures illustrating a scenario will be shown to you, along with various interpretations.
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• After each picture is shown, you will be asked to rate the plausibility or likelihood of each of the suggested interpretations. These have to be reassessed each time a new picture is revealed for that scenario.

• Please discuss with the group how confident you are in your rating.
What might have happened?
How probable do you find each option?

1. The man is a shark hunter and has just killed a shark.
2. The man is doing research on sharks.
3. The man is testing his new shark style surfboard.
4. The man just scared everyone away with a fake shark head.
Has your judgement changed with the new picture?

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How probable do you find each option?

1. The conductor is tense because he arrived late for rehearsal.
2. The conductor has just yelled at the man in the front row because he was singing out of tune.
3. The girl in the front row just told the man next to her that she has a crush on the conductor.
4. The conductor is nervous because he cannot find his baton.
Has your judgement changed with the new picture?

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How probable do you find each option?

1. The man has just built a fence for his dog.
2. The man is buying a guard dog.
3. The man has just escaped from the barking dog.
4. The man is playing with his neighbor’s dog.
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How probable do you find each option?

1. The woman is going to sell her clothes to a second hand shop.
2. The woman is going for a walk on a nice spring day.
3. The woman has just finished doing her laundry at a laundromat.
4. The woman is taking out the garbage.
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How probable do you find each option?

1. The man on the left is robbing the other man.
2. The man is giving his friend a chocolate gun.
3. The man on the left is asking the other man if he lost a gun.
4. The man on the left is playing “cops and robbers” with his friend.
Has your judgement changed with the new picture?

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Optional: Videoclip

Video clip presentations that address today’s topic are available at the following web site:
http://www.uke.de/mct_videos

After the video, you may discuss how it is related to today’s topic.

[for trainers:
Some movie clips contain language that may not be appropriate for all audiences and across all cultures. Please carefully pre-screen videos before showing]
How probable do you find each option?

1. The father laughs because his daughter went swimming fully clothed.
2. The father punished his daughter by sending her outside without an umbrella.
3. The girl is sweating because she is late and worries about being punished.
4. Against her father’s advice, the girl left the house without an umbrella.
Has your judgement changed with the new picture?

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How probable do you find each option?

1. The diver is looking for the king’s jewels that dropped into the water.
2. The diver hooks fish onto the king’s fishing rod so that the king enjoys fishing.
3. The king called his servant to carry the basket of fish.
4. The king supervises the diver’s expedition to the bottom of the sea.
Has your judgement changed with the new picture?

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How probable do you find each option?

1. The man has just introduced his son to a neighbor.
2. The friends say good-bye after a joint holiday camp.
3. The man asks the boys to reconcile after a quarrel.
4. The man wants to walk on the pavement but the boys obstruct his way.
Has your judgement changed with the new picture?

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How probable do you find each option?

1. The serenade of the young man has disturbed his girl-friend’s father.
2. The young man is on his way to a band rehearsal.
3. The young man has just played a little song for his father’s birthday.
4. The street musician is angry because he got no money for his last song.
Has your judgement changed with the new picture?

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How probable do you find each option?

1. The man is an undercover cop spying on someone through the window.
2. The man is fixing a crack on his house.
3. The man is washing his old dirty house.
4. The man has just built a house and is now painting it.
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Transfer to everyday life

Learning Objectives:

• Sometimes, events turn out very differently than expected: Quick decisions often lead to wrong conclusions.
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- Sometimes, events turn out very differently than expected: Quick decisions often lead to wrong conclusions.

- You should always consider different interpretations/hypotheses and adjust your beliefs accordingly.

- Seek as much information as possible to verify your judgment.
What does this have to do with psychosis?

During psychosis, people may maintain false beliefs and ignore counterarguments. In some cases, this may have dramatic consequences.
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Example: Latisha slashes her colleague’s tires!

Background: Latisha feels harassed.

But: Although some colleagues had really made snide remarks about Latisha, she had lumped them together and got completely involved in her conspiracy theory. She over-looked that some colleagues had behaved perfectly fairly towards her.
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Background: Latisha feels harassed.

But: Although some colleagues had really made snide remarks about Latisha, she had lumped them together and got completely involved in her conspiracy theory. She over-looked that some colleagues had behaved perfectly fairly towards her.

It is difficult to keep one’s cool when feeling threatened. So, be cautious about your judgments and ask people you trust for advice!
Thank you for your attention!

for trainers:
Please hand out worksheets. Introduce our app COGITO (download free of charge).

www.uke.de/mct_app
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<table>
<thead>
<tr>
<th>Name Photographer/Artist</th>
<th>Source/Quelle</th>
<th>Picture Name/Name des Bildes</th>
<th>Description/Kurzbeschreibung</th>
</tr>
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<tbody>
<tr>
<td><em>madalena-pestana</em> (Tired of rules)</td>
<td>Flickr.com</td>
<td>after the flowers, the fruits - I</td>
<td>Prune/Pflaumen</td>
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<td>ian_ransley</td>
<td>Flickr.com</td>
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<td>Flickr.com</td>
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<td>Ayelie</td>
<td>Flickr.com</td>
<td>Juice bubbles</td>
<td>Orange juice/Orangensaft</td>
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<td>Benny-Kristin Fischer</td>
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<td>Various picture sequences shark, choir, laundry, robbery, rain, king, toy car, musician, construction of house, some motives are adapted from the Wechsler Intelligence Scale/Verschiedene Bildersequenzen Haikopf, Chor, Wäscherie, Überfall, Regenwetter, König, Spielzeugauto, Musiker, Hausbau, einige Motive sind angelehnt an Aufgaben des Wechsler Intelligenztests</td>
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