Welcome to

Training Module 7: Jumping to Conclusions II

Permission to use the pictures in this module has been provided by the artists and copyright holders. For details (artist, title), please refer to the end of this presentation.
Hasty Conclusions

We often draw conclusions without knowing the full truth.

- Reasons/advantages: ???

- Disadvantages: ???
We often draw conclusions without knowing the full truth.

- **Reasons/advantages:** saving time, makes one feel safe, may appear determined and competent to others ("A wrong decision is better than no decision.")

- **Disadvantages:** ???
Hasty Conclusions

We often draw conclusions without knowing the full truth.

- **Reasons/advantages:** saving time, makes one feel safe, may appear determined and competent to others ("A wrong decision is better than no decision.")

- **Disadvantages:** risk of making an incorrect and dangerous decision ...
### Jumping to Conclusions

In what kind of situations/When do we draw conclusions without knowing the full truth?

<table>
<thead>
<tr>
<th>When?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>... when the problem is very complex</td>
<td>???</td>
</tr>
<tr>
<td>... when we have some previous experience, from which we generalize</td>
<td>???</td>
</tr>
<tr>
<td>... when the decision does not really matter</td>
<td>???</td>
</tr>
</tbody>
</table>
### Jumping to Conclusions

In what kind of situations/When do we draw conclusions without knowing the full truth?

<table>
<thead>
<tr>
<th>When?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>... when the problem is very complex</td>
<td>When buying a car, it is impossible to compare all models and consider all parameters (price, mileage etc.). You have to make a selection.</td>
</tr>
<tr>
<td>... when we have some previous experience, from which we generalize</td>
<td>???</td>
</tr>
<tr>
<td>... when the decision does not really matter</td>
<td>???</td>
</tr>
</tbody>
</table>
### Jumping to Conclusions

In what kind of situations/When do we draw conclusions without knowing the full truth?

<table>
<thead>
<tr>
<th>When?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>... when the problem is very complex</td>
<td>When buying a car, it is impossible to compare all models and consider all parameters (price, mileage etc.). You have to make a selection.</td>
</tr>
<tr>
<td>... when we have some previous experience, from which we generalize</td>
<td>Over-generalizations can lead to prejudice (“seen one, seen ‘em all”).</td>
</tr>
<tr>
<td>... when the decision does not really matter</td>
<td>???</td>
</tr>
</tbody>
</table>
Jumping to Conclusions
In what kind of situations/When do we draw conclusions without knowing the full truth?

<table>
<thead>
<tr>
<th>When?</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>... when the problem is very complex</td>
<td>When buying a car, it is impossible to compare all models and consider all parameters (price, mileage etc.). You have to make a selection.</td>
</tr>
<tr>
<td>... when we have some previous experience, from which we generalize</td>
<td>Over-generalizations can lead to prejudice (&quot;seen one, seen ’em all&quot;).</td>
</tr>
<tr>
<td>... when the decision does not really matter</td>
<td>Choosing a type of a cake, color of socks, type of lunch etc. ...</td>
</tr>
</tbody>
</table>
## Hasty conclusions “in action”

<table>
<thead>
<tr>
<th>Domain</th>
<th>Example</th>
</tr>
</thead>
</table>
| Exaggerated worries about health/panic disorder | ➢ People with exaggerated worries about their health are often prematurely convinced that some minor and often unspecific symptoms (e.g. mole) indicate severe disorders (e.g. skin cancer).  
➢ People with panic disorder who observe rather harmless body signs (e.g. accelerated heart rate) may conclude they are suffering a severe physical breakdown (e.g. heart attack). |
### Is there any connection between the cigarette brand “Lucky Strike” and the atomic bombing of Japan?

<table>
<thead>
<tr>
<th>Legend</th>
<th>For and against</th>
<th>“Evidence”</th>
</tr>
</thead>
<tbody>
<tr>
<td>The design of the cigarette packet led to rumors that the brand “Lucky Strike” has something to do with the dropping of the atomic bomb on Japan.</td>
<td>For: ???</td>
<td><img src="image" alt="Japanese flag" /></td>
</tr>
<tr>
<td></td>
<td>Against: ???</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Is there any connection between the cigarette brand “Lucky Strike” and the atomic bombing of Japan?

<table>
<thead>
<tr>
<th>Legend</th>
<th>For and against</th>
<th>“Evidence”</th>
</tr>
</thead>
</table>
| The design of the cigarette packet led to rumors that the brand “Lucky Strike” has something to do with the dropping of the atomic bomb on Japan. | **For:**  
- The Japanese flag consists of – similar to the packet – a red circle on a white background.  
- The golden circle could illustrate radioactive contamination.  
- “Lucky Strike” could be understood as “successful attack”.  
- Lucky Strike has changed the packet design during World War II. Before that, the white background was green.  

**Against:**  
???
| **Japanese flag** |
### Is there any connection between the cigarette brand “Lucky Strike” and the atomic bombing of Japan?

<table>
<thead>
<tr>
<th>Legend</th>
<th>For and against</th>
<th>“Evidence”</th>
</tr>
</thead>
</table>
| The design of the cigarette packet led to rumors that the brand “Lucky Strike” has something to do with the dropping of the atomic bomb on Japan. | **For:**  
- The Japanese flag consists of – similar to the packet – a red circle on a white background.  
- The golden circle could illustrate radioactive contamination.  
- “Lucky Strike” could be understood as “successful attack”.  
- Lucky Strike has changed the packet design during World War II. Before that, the white background was green.  

**Against:**  
- The golden circle was already on the old packet.  
- The packet design had already been changed in 1940/1941 for marketing reasons, whereas the dropping of the atomic bomb was in 1945.  
- The brand was established in the gold-digger times. The name “Lucky Strike” is registered since 1871. The early tobacco tin had a hammer pointing to heaven on it – a symbol for the “lucky strike” of a gold-digger. |  

Japanese flag
Is there any connection between the cigarette brand “Lucky Strike” and the atomic bombing of Japan?

No!
How do these conspiracy theories arise?
They are often more exciting than reality!

They are based on statements difficult to check or prove (e.g. the package stands for Japan and the golden wreath represents radioactive contamination).

They conceal alternative explanations (e.g. that “lucky strike” also refers to a discovery).

Legends are sometimes based on facts taken out of context. The significance of these details is also largely exaggerated. (The package was indeed changed during World War II, however, this does not per se speak in favor of the legend.)
There are numerous examples in history where minorities and outcasts were falsely blamed for uncontrollable, catastrophic events. For example, in medieval times a poor harvest was often blamed on witchcraft or religious minorities.

These simple explanations reduced tension and fear and provided the illusion of control.
Studies show that many people with psychosis (but not all!) make decisions on the basis of little information. This type of decision making can easily lead to errors, compared to a type involving careful consideration of all available information.
Why are we doing this?

- Studies show that many people with psychosis (but not all!) make decisions on the basis of little information. This type of decision making can easily lead to errors, compared to a type involving careful consideration of all available information.

- The perception of reality for many (but not all!) people with psychosis is altered. Unlikely interpretations are considered that most other people would disregard.
How jumping to conclusions promotes misinterpretations during psychosis – examples

<table>
<thead>
<tr>
<th>Event</th>
<th>Explanation during psychosis</th>
<th>Other explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food tastes strange.</td>
<td>Food has been poisoned.</td>
<td>Badly cooked, ingredients are off.</td>
</tr>
<tr>
<td>Your girlfriend smells different when she comes home in the evening.</td>
<td>You are convinced she cheated on you.</td>
<td>Your girlfriend has a new perfume and expects compliments rather than accusations!</td>
</tr>
<tr>
<td>The radio plays “Hero” by Mariah Carey a number of times.</td>
<td>This is a secret sign you are chosen to save the world.</td>
<td>Radio station plays pop music.</td>
</tr>
</tbody>
</table>

Can anyone contribute a short personal experience?
In the following exercises you will be shown different paintings. Please try to identify the correct title for each painting and rule out “misfits”.
Exercise

- In the following exercises you will be shown different paintings. Please try to identify the correct title for each painting and rule out “misfits”.

- Discuss the *pros and cons* for each of the interpretations.
In the following exercises you will be shown different paintings. Please try to identify the correct title for each painting and rule out “misfits”.

Discuss the *pros and cons* for each of the interpretations.

Please also state the degree of confidence in your judgment.
Exercise

- In the following exercises you will be shown different paintings. Please try to identify the correct title for each painting and rule out “misfits”.

- Discuss the *pros and cons* for each of the interpretations.

- Please also state the degree of confidence in your judgment.

- Pay special attention to features that clearly rule out one interpretation.
a. Good news
b. The dead child
c. The conscription
d. Sad message
a. Good news
b. The dead child
c. The conscription
d. Sad message
(Peter Fendi, 1838)
a. Education  
b. Soup at the monastery  
c. Before church service  
d. The conversion
a. Education
b. Soup at the monastery (Anton Mangold, 1888)
c. Before church service
d. The conversion
a. The war
b. Annunciation of the arrival of Christ
c. The black horse
d. The rocking horse
a. **The war** (Henri Julien F. Rousseau, 1894)
b. **Annunciation of the arrival of Christ**
c. **The black horse**
d. **The rocking horse**
a. Poisoning
b. Why did I marry him?
c. Suicide
d. The desperate mother
a. Poisoning
b. Why did I marry him? (Murray, ca. 1940)
c. Suicide
d. The desperate mother
a. Riot
b. Market day
c. The cockaigne
d. Childrens’ games
a. Riot
b. Market day
c. The cockaigne
d. **Childrens’ games** (Pieter d. Ä. Bruegel, 1560)
optional: Video Clip

- optional: Video clip presentations that address today’s topic are available at the following website: 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]
a. Forbidden gamble
b. Cheater with the diamond ace
c. The poison
d. The countess gambles away house and yard
a. Forbidden gamble
b. Cheater with the diamond ace (Georges de la Tour, 1630)
c. The poison
d. The countess gambles away house and yard
a. Ravaging the graveyard
b. Two men contemplating the moon
c. Vampire slayer
d. Eclipse of the sun
a. Ravaging the graveyard
b. Two men contemplating the moon
   (Caspar David Friedrich, 1819)
c. Vampire slayer
d. Eclipse of the sun
a. Rest at the edge of the wood
b. The escape
c. Exhaustion
d. The injured
a. Rest at the edge of the wood (F.G. Waldmüller, 1793-1865)
b. The escape
c. Exhaustion
d. The injured
a. Last meal
b. Feeding rabbits
c. Playmates
d. Easter Sunday
a. Last meal
b. **Feeding rabbits** (Felix Schlesinger, 1833-1910)
c. Playmates
d. Easter Sunday
a. Breath of death
b. The dying child
c. Lullaby
d. Mother at the cradle
a. Breath of death
b. The dying child
c. Lullaby
d. *Mother at the cradle* (Morisot Berthe, 1872)
a. Asking for a dance  
b. Neck massage  
c. Dressing  
d. Caught red-handed
a. Asking for a dance  
b. Neck massage  
c. Dressing (Joseph Caraud, 1868)  
d. Caught red-handed
a. The alcoholics
b. Reanimation
c. Cleaning women
d. Ironing women
a. The alcoholics
b. Reanimation
c. Cleaning women
d. Ironing women
(Edgar Degas, 1884)
a. After the harvest
b. Land of cockaigne
c. Beheaded chicken
d. Food poisoning
a. After the harvest
b. Land of cockaigne (Pieter d. Ä. Bruegel, 1567)
c. Beheaded chicken
d. Food poisoning
a. Sorcery
b. Amazement
c. The travelling preacher
d. The juggler
a. Sorcery
b. Amazement
c. The travelling preacher
d. The juggler

(Hieronymus Bosch, 1480)
a. Funeral feast
b. The prayer
c. Lunch
d. Harangue
a. Funeral feast
b. The prayer
c. **Lunch** (Albin Egger-Lienz, 1910)
d. Harangue
a. Girl drinking wine, with two suitors
b. The proposal
c. The twins
d. The festive dinner
a. Girl drinking wine, with two suitors (Jan Vermeer van Delft, 1660)

b. The proposal
c. The twins
d. The festive dinner
a. Carnival in Venice
b. Lady with opera glasses
c. The secret agent
d. Daemon
a. Carnival in Venice
b. Lady with opera glasses
   (Edgar Degas, 1834-1917)
c. The secret agent
d. Daemon
Module Jumping to Conclusions (7)
Transfer to everyday life

**Learning objectives:**

- When judgments are important and momentous, it is better to avoid hasty decisions and consider all relevant information ("better safe than sorry").
When judgments are important and momentous, it is better to avoid hasty decisions and consider all relevant information ("better safe than sorry").

Example: Someone speaks very slowly and has a motionless facial expression. Mentally challenged? Neurological disease?

Be careful with hasty decisions:
It could also be that the symptoms are caused by medication side-effects.
Learning objectives:

- When judgments are important and momentous, it is better to avoid hasty decisions and consider all relevant information ("better safe than sorry").

- **Example:** Someone speaks very slowly and has a motionless facial expression. *Mentally challenged? Neurological disease?*

- Be careful with hasty decisions: *It could also be that the symptoms are caused by medication side-effects.*

- For events of minor importance, we may as well react quickly (e.g. choosing a type of yogurt, type of cake).
Learning objectives:

- When judgments are important and momentous, it is better to avoid hasty decisions and consider all relevant information ("better safe than sorry").
- **Example:** Someone speaks very slowly and has a motionless facial expression. *Mentally challenged? Neurological disease?*
- Be careful with hasty decisions:
  *It could also be that the symptoms are caused by medication side-effects.*
- For events of minor importance, we may as well react quickly (e.g. choosing a type of yogurt, type of cake).
- To err is human – be prepared for the possibility that you are wrong.
Learning objectives:

- When judgments are important and momentous, it is better to avoid hasty decisions and consider all relevant information ("better safe than sorry").
- **Example:** Someone speaks very slowly and has a motionless facial expression. *Mentally challenged? Neurological disease?*
- Be careful with hasty decisions: *It could also be that the symptoms are caused by medication side-effects.*
- For events of minor importance, we may as well react quickly (e.g. choosing a type of yogurt, type of cake).
- To err is human – be prepared for the possibility that you are wrong.
- Base important decisions on solid facts. Mere guesses are "bad advisers." Always consider the consequences of a wrong judgment.
What does this have to do with psychosis?

Many (but not all!) people with psychosis tend to jump to conclusions and form extreme judgments. This style of reasoning may be enhanced when one is under pressure and wants to let off steam.
Many (but not all!) people with psychosis tend to jump to conclusions and form extreme judgments. This style of reasoning may be enhanced when one is under pressure and wants to let off steam.

**Example:** Sheila declares that her doctor is in fact her ex-boyfriend who has been after her for years as a psychiatrist under a false identity.

**Background:** Both come from the same village and share the same first name.

**But:** This was due to chance.
Many (but not all!) people with psychosis tend to jump to conclusions and form extreme judgments. This style of reasoning may be enhanced when one is under pressure and wants to let off steam.

**Example:** Sheila declares that her doctor is in fact her ex-boyfriend who has been after her for years as a psychiatrist under a false identity.

**Background:** Both come from the same village and share the same first name.

**But:** This was due to chance.

Before making serious accusations, you should collect information from as many sources as possible and discuss different explanations with persons you trust.
for trainers:
Please hand out worksheets. Introduce our app “MCT & More” (download free of charge).

www.uke.de/mct_app
Pictures used in this module are reproduced with indirect (creative commons license) or direct permission of the artists listed below, for which we would like to express our gratitude! A full list can be obtained via www.uke.de/mkt. If we have involuntarily breached copyright, please accept our apologies. In this case, we kindly ask creators for their permission to use their work under the "fair use" policy.


<table>
<thead>
<tr>
<th>Name</th>
<th>Source</th>
<th>Picture Name/Name des Bildes</th>
<th>CC = used with corresponding creative commons license; PP = used with personal permission of artist</th>
<th>Description/Kurzbeschreibung</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oiseau '3'</td>
<td>flickr</td>
<td>LUCKY STRIKE</td>
<td>CC = genutzt unter creative commons Lizenz, PP = verwendet mit persönlicher Zustimmung des Künstlers</td>
<td>Lucky Strike cigarette box/ Zigarettenbox</td>
</tr>
</tbody>
</table>

All reproduced paintings are in the public domain because their copyright has expired (all artists died more than 70 years ago).

Alle abgebildeten Kunstwerke sind gemeinfrei („public domain“), da die Schutzfrist des Urheberrechts unseres Wissens abgelaufen ist („public domain“; alle Künstler verstarben vor mindestens 70 Jahren). Alle Reproduktionen gelten ebenfalls als gemeinfrei.
# Jumping to conclusions "in action"
– Urban legends –

<table>
<thead>
<tr>
<th>Legend</th>
<th>Conspiracy theorists</th>
<th>“Evidence”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegedly the moon landing in 1969 never took place and was merely a fake.</td>
<td>Arguments pro?</td>
<td></td>
</tr>
</tbody>
</table>

---

A photograph showing a astronaut on the moon with an American flag.
<table>
<thead>
<tr>
<th>Legend</th>
<th>Conspiracy theorists</th>
<th>“Evidence”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegedly the moon landing in 1969 never took place and was merely a fake.</td>
<td>Alleged motives of the USA:</td>
<td></td>
</tr>
<tr>
<td>1. “Technological victory” in space travel competition with the Soviet Union, which had successfully launched a satellite into space earlier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Distraction from the Vietnam-War</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. NASA itself faked the moon landing for fear of governmental budget cutback</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Jumping to conclusions “in action” – Urban legends –

<table>
<thead>
<tr>
<th>Legend</th>
<th>For and Against</th>
<th>“Evidence”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegedly the moon landing in 1969 never took place and was merely a fake.</td>
<td><strong>For: ???</strong></td>
<td><img src="image_url" alt="Image of astronauts on the moon" /></td>
</tr>
</tbody>
</table>
## Jumping to conclusions “in action” – Urban legends –

<table>
<thead>
<tr>
<th>Legend</th>
<th>For and Against</th>
<th>“Evidence”</th>
</tr>
</thead>
</table>
| Allegedly the moon landing in 1969 never took place and was merely a fake. | **For:**  
1. “Waving flag”: impossible because there is no atmosphere/weather on the moon  
2. Pictures of starless sky and varying shadows indicate a film studio production  
3. In astronaut Armstrong´s radio message: He responds too quickly to president Nixon. Radio signals need more time to be transmitted to earth than it took Armstrong to answer | ![Moon Landing Image] |
### Jumping to conclusions “in action”
– Urban legends –

<table>
<thead>
<tr>
<th><strong>Legend</strong></th>
<th><strong>For and Against</strong></th>
<th><strong>“Evidence”</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegedly the moon landing in 1969 never took place and was merely a fake.</td>
<td><strong>Against: ???</strong></td>
<td>![Image of NASA astronaut on the moon]</td>
</tr>
<tr>
<td><strong>Legend</strong></td>
<td><strong>For and Against</strong></td>
<td><strong>“Evidence”</strong></td>
</tr>
<tr>
<td>------------</td>
<td>---------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Allegedly the moon landing in 1969 never took place and was merely a fake.</td>
<td><strong>Against:</strong></td>
<td></td>
</tr>
<tr>
<td>1. The waving of the flag was caused by ramming the pole into the moon’s surface and a supporting mounted crossbar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Night photographies cannot capture weak light sources due to exposure times → no stars</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. The varying shadows were caused by the uneven moon surface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. The interview had been edited in order to cover the original time delay between Nixon’s and Armstrong’s dialog</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Legend For and Against “Evidence”*
Was the moon landing faked by the US Government?

No!

Director Roland Emmerich (Independence Day): “The moon landing (...) was just too good. Such a thing was impossible to stage in the 1960s. Even with today’s equipment this would pose problems.”

Source: German television station ZDF: „Vorsicht Verschwörung“ (Beware conspiracy)
How did this urban legend and other conspiracy theories arise?
How did this urban legend and other conspiracy theories arise?

- They are often more compelling than reality.

- They are based on facts that are hard to check and people believe them easily (e.g., waving flag suggests that pictures were taken on earth).

- They conceal alternative explanations (e.g., the starless sky can be explained by the technical limitations of night photography).

- Urban legends take facts out of context and push them to the limit.