# **Thoughts**

* Name
  + MISS: multidimensional Interoceptive Sensibility Scale
  + MInI / MInti / Mint: Multidimensional Interoceptive Inventory / MInt scale
    - « The MInt Scale: A Fresh Validation of the Multidimensional Interoception Questionnaire »
  + MIM: Multidimensional Interoception Measure
  + The Crossmodal/Transmodal Multidimensional Interoception
* Be explicit about the context: “When sexually aroused…; In general, …; etc.”
* 3 conditions? Grouping the items by context (rows) \* by modality (column) \* totally at random.
  + Divided in 7 parts (modalities), 5 parts (Dimensions), or 6 (at random)
* Convergent validity: MAIA/IAS? PHQ4/Psychopathology?
* Do PCI registered report?
* Attention checks:
  + “In general, I am paying attention to the experiment I am currently doing”
  + “I can always accurately answer to the left to this question to show that I am reading it”
  + “I am very sensitive and attentive to the questions I am answering”
* Hypothesis:
  + Mostly an exploratory study, but one clear hypothesis that we can make is that if interoception is unimodal (cross-modal factor), the horizontal structure should be superior (less correlation between modalities and more between types). If the interoceptive domains are more independent, then within-modality correlations should be stronger.
  + “Good items” should have their structure unaffected by the manipulation (i.e., should have a clear phrasing that doesn’t introduce variability based on the context)
* Translation: French, Spanish (Sofia), Portuguese (Ana), German (Magda), Mandarin (Jing)

# **Version 1**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Context | Cardiac | Respiratory | Gastric | Genital | Skin | Thermoregulation | Colon & Bladder |
| Positive Arousal (Sexual) | Cognitive: "I always *know* when I am sexually aroused"  Feeling: "I always *feel in my body* if I am sexually aroused or not at all"  Embodied - specific: "My body is in a specific state when I am sexually aroused"  Embodied - different: "Being sexually aroused corresponds to a very different bodily feeling compared to other states" | “When I am sexually aroused, I always feel changes in the way my heart beats (e.g., faster or stronger)” | "When I am sexually aroused, I feel changes in the way I breath (e.g., faster, shallower, or less regular)" | "When I am sexually aroused, I feel changes in my stomach (e.g., bloating, rumbling, discomfort)" | "When I am sexually aroused, I notice specific sensations in my genital area (e.g., tingling, warmth, wetness)" |  | "When I am sexually aroused, I feel changes in my temperature (e.g., feeling warm or cold)"  "When I am sexually aroused, I feel my palms getting sweaty" | "When I am sexually aroused, I feel like I need to relieve myself" |
| Negative Arousal (Anxious) | Cognitive: "I always *know* when I am anxious"  Feeling: "I always *feel in my body* if I am anxious or not at all"  Embodied - specific: "My body is in a specific state when I am anxious"  Embodied - different: "Being anxious corresponds to a very different bodily feeling compared to other states" | “When I am anxious, I feel changes in the way my heart beats (e.g., faster or stronger)” | "When I am anxious, I feel changes in the way I breath (e.g., faster, shallower, or less regular)" | "When I am anxious, I feel changes in my stomach (e.g., bloating, rumbling, discomfort)" |  |  | "When I am anxious, I feel changes in my temperature (e.g., feeling warm or cold)"  "When I am anxious, I feel my palms getting sweaty"  "When I am anxious, I feel my mouth becoming dry" | "When I am anxious, I feel like I need to relieve myself" |
| Relaxed | Cognitive: "I always *know* when I am relaxed"  Feeling: "I always *feel in my body* if I am relaxed or not at all"  Embodied - specific: "My body is in a specific state when I am relaxed"  Embodied - different: "Being relaxed corresponds to a very different bodily feeling compared to other states" |  |  |  |  |  |  |  |
| Nociception & Pleasure | “I can easily tell when I am feeling ill (e.g., nauseous or sick)” | “I often feel painful sensations coming from my heart” | “I often feel like I have difficulties breathing normally” | "I often feel pain in my stomach" | “My genital organs are very sensitive to pleasant stimulations” | "My skin is very sensitive to painful stimulations (e.g., pinching)"  "My skin is very sensitive to pleasant stimulations (e.g., caressing)" |  | “I often experience a pleasant sensation when relieving myself”  “I often experience painful sensations when relieving myself” |
| Meaning | "When something important is happening, I can feel it in my body" | "When something important is happening, I can feel immediately feel changes in my heart rate" | "When something important is happening, I can feel immediately feel changes in the way I breath" |  |  |  |  |  |
| Exteroception / Information gathering |  | “I only notice my heart when it is thumping in my chest”  “I often try to feel my heart with my hands (e.g., by putting my on my chest)” |  |  | "I often check the smell of my genital organs" |  | "I often check the smell of my armpits" | "I often check the colour of my urine"  "I often check the colour of my faeces" |
| Sensitivity | Items from “Relaxed” and “Nociception” | "I often notice changes in my heart rate"  "I am very sensitive to changes in my heart rate"  “I can always feel my heart beats, even when I’m calm” | "I often notice changes in the way I breath"  "I am very sensitive to changes in the way I breath" | "In general, I am very sensitive to what my stomach is doing” | “My genital organs are very sensitive to pleasant stimulations”  “I often notice very subtle changes in my genital organs” |  | “I am always very aware if my hands and feet are cold or warm” |  |
| Accuracy | “I can always accurately feel when I am about to cough”  “I can always accurately feel when I am about to sneeze”  “I can always accurately feel when I am about to vomit” | “I can always feel my heart beats”  “I can always feel if my heart rate is slow or fast” | “I can always feel how I am breathing (e.g., fast, slow, deep or shallow)” | “I can always accurately feel when I am about to fart”  “I can always accurately feel when I am about to burp” | “I often feel thirsty even if I drank recently”  “I don’t always feel the need to drink until I am really thirsty” | I can always accurately feel when something is going to be itchy” |  | “I often feel the need to urinate even when my bladder is not full.”  “I don’t always feel the need to urinate until my bladder is very full.” |

# **Version 2**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **State** | **Cardiac** | **Respiratory** | **Gastric** | **Genital** | **Skin & Thermoregulation** | **Colon & Bladder** |
| **Positive Arousal (Sexual)** | Cognitive: "I always *know* when I am sexually aroused"  Feeling: "I always *feel in my body* if I am sexually aroused or not at all"  Embodied - specific: "My body is in a specific state when I am sexually aroused"  Embodied - different: "Being sexually aroused corresponds to a very different bodily feeling compared to other states" | “When I am sexually aroused, I always feel changes in the way my heart beats (e.g., faster or stronger)” | "When I am sexually aroused, I feel changes in the way I breath (e.g., faster, shallower, or less regular)" | "When I am sexually aroused, I feel changes in my stomach (e.g., bloating, rumbling, discomfort)" | "When I am sexually aroused, I notice specific sensations in my genital area (e.g., tingling, warmth, wetness)" | "When I am sexually aroused, I feel changes in my temperature (e.g., feeling warm or cold)"  "When I am sexually aroused, I feel like some areas of my skin are getting sweaty (e.g., palms, back)"  "When I am sexually aroused, I feel my mouth becoming dry" | "When I am sexually aroused, I feel like I need to relieve myself (e.g., by urinating)" |
| **Negative Arousal (Anxious)** | Cognitive: "I always *know* when I am anxious"  Feeling: "I always *feel in my body* if I am anxious or not at all"  Embodied - specific: "My body is in a specific state when I am anxious"  Embodied - different: "Being anxious corresponds to a very different bodily feeling compared to other states" | “When I am anxious, I feel changes in the way my heart beats (e.g., faster or stronger)” | "When I am anxious, I feel changes in the way I breath (e.g., faster, shallower, or less regular)" | "When I am anxious, I feel changes in my stomach (e.g., bloating, rumbling, discomfort)" | "When I am anxious, I notice specific sensations in my genital area (e.g., contracting, dryness)" | "When I am anxious, I feel changes in my temperature (e.g., feeling warm or cold)"  "When I am anxious, I feel like some areas of my skin are getting sweaty (e.g., palms, back)"  "When I am anxious, I feel my mouth becoming dry" | "When I am anxious, I feel like I need to relieve myself (e.g., by urinating)" |
| **Nociception, Pleasure** | "I always *feel in my body* if I am feeling ill or not at all"  “I can easily tell when I am feeling ill (e.g., nauseous or sick)” | “I often feel painful sensations coming from my heart” | “I often feel like I have difficulties breathing normally” | "I often feel pain in my stomach" | “My genital organs are very sensitive to pleasant stimulations” | "My skin is very sensitive to painful stimulations (e.g., pinching)"  "My skin is very sensitive to pleasant stimulations (e.g., caressing)" | “I often experience a pleasant sensation when relieving myself”  “I often experience painful sensations when relieving myself” |
| **Sensitivity** | Cognitive: "I always *know* when I am relaxed"  Feeling: "I always *feel in my body* if I am relaxed or not at all"  Embodied - specific: "My body is in a specific state when I am relaxed"  Embodied - different: "Being relaxed corresponds to a very different bodily feeling compared to other states"  "When something important is happening, I can feel it in my body" | "In general, I am very sensitive to changes in my heart rate"  "I often notice changes in my heart rate"  "I can notice even very subtle changes in the way my heart beats"  “I am always very aware of my heart beats, even when I am calm”  “I only notice my heart when it is thumping in my chest”  “I often try to feel my heart with my hands (e.g., by putting my hand on my chest)”  "When something important is happening, I can feel immediately feel changes in my heart rate" | "In general, I am very sensitive to changes in the way I breath"  "I often notice changes in the way I breath"  "I can notice even very subtle changes in the way my heart beats"  “I am always very aware of how I am breathing, even when I am calm”  “I often only notice how I am breathing when I am breathing very loudly”  "When something important is happening, I can feel immediately feel changes in the way I breath" | "In general, I am very sensitive to what my stomach is doing”  "I can notice even very subtle changes in what my stomach is doing"  “I am always very aware of what my stomach is doing, even when I am calm”  "I often check the smell of my own breath"  "I often check the smell of my farts"  "I often pay attention to the noises of my stomach" | "In general, I am very sensitive to changes in my genital organs"  "I can notice even very subtle changes in the state of my genital organs"  “I am always very aware of the state of my genital organs, even when I am calm” | "In general, my skin is very sensitive"  "I can notice even very subtle stimulations to my skin (e.g., very light touches)"  “I can notice even very subtle changes if my skin becomes dry or sweaty”  “I am always very aware if my hands and feet are cold or warm”  "I often check the smell of my armpits" | "In general, I am very sensitive to the way I am defecating"  "In general, I am very sensitive to the way I am urinating"  "I often check the colour of my urine"  "I often check the colour of my faeces" |
| **Accuracy** | “I can always accurately feel when I am about to cough”  “I can always accurately feel when I am about to sneeze”  “I can always accurately feel when I am about to vomit” | “I can always accurately feel if my heart rate is slow or fast” | “I can always accurately feel how I am breathing (e.g., fast or slow, deep or shallow)” | “I can always accurately feel when I am about to fart”  “I can always accurately feel when I am about to burp”  “I often feel thirsty even if I drank recently”  “I don’t always feel the need to drink until I am really thirsty”  “I often feel hungry even if I ate recently”  “I don’t always feel the need to eat until I am really hungry” | “I can always accurately perceive if my genital organs are in a state of arousal (e.g., hard, wet)” | “I can always accurately feel when something is going to be itchy”  “I can always accurately feel when I start to have fever”  “When something touches my skin, I can always accurately feel if it’s hot or cold” | “I often feel the need to urinate even when my bladder is not full”  “I don’t always feel the need to urinate until my bladder is very full” |