**Figure S1**

A graphical example of a distraction trial during the presentation of a food image.

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**Figure S2**

Brain activation during the distraction from food in the AN group in the *homeostatic hunger>satiety* contrast. SPM *t*-map was rendered on a T1-weighted template image supplied with MRIcron.

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**Table S1:** Behavioral and physiological parameters of the CON and AN group

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **CON group**  **(*N* = 25)** | | **AN group**  **(*N =* 25)** | | ***P*** |
|  | Mean | SD | Mean | SD |  |
| Hunger ratings before water administration | 51.34 | 25.86 | 44.34 | 26.15 | .346 |
| Hunger ratings after water administration | 51.78 | 28.12 | 47.80 | 27.72 | .617 |
| Hunger ratings before glucose administration | 56.98 | 23.68 | 39.34 | 25.67 | .016 |
| Hunger ratings after glucose administration | 49.48 | 26.55 | 37.13 | 30.54 | .144 |
| Food craving during distraction in the water condition | 7.28 | 0.75 | 6.26 | 1.48 | .005 |
| Food craving during viewing in the water condition | 7.36 | 0.74 | 6.41 | 1.66 | .013 |
| Food craving during distraction in the glucose condition | 7.08 | 0.96 | 5.93 | 1.99 | .016 |
| Food craving during viewing in the glucose condition | 7.11 | 0.94 | 6.07 | 1.94 | .024 |
| Blood glucose before water administration (mg/dl) | 83.56 | 6.01 | 78.83 | 6.68 | .013 |
| Blood glucose 30 min. after water administration (mg/dl) | 82.00 | 5.19 | 78.40 | 5.76 | .025 |
| Blood glucose 60 min. after water administration (mg/dl) | 82.60 | 5.65 | 78.71 | 6.38 | .029 |
| Blood glucose before glucose administration (mg/dl) | 84.24 | 4.72 | 80.82 | 7.42 | .062 |
| Blood glucose 30 min. after glucose administration (mg/dl) | 146.84 | 18.43 | 138.68 | 31.53 | .295 |
| Blood glucose 60 min. after glucose administration (mg/dl) | 136.52 | 28.45 | 132.00 | 34.76 | .636 |

**Table S2:** Regression Analysis in the AN group with subjective craving levels during homeostatic hunger

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Contrast* | **Hemisphere** | **BA** | ***x*** | ***y*** | ***z*** | **No. of**  **voxels** | ***T-*value** | ***P-*value** |
| *distraction food - distraction neutral* | | | | | | | | |
| Dorsal striatum | L |  | -15 | -4 | 22 | 135 | 6.19 | < .001 |
|  | R |  | 21 | 5 | 26 | 116 | 6.00 | .002 |
|  |  |  |  |  |  |  |  |  |

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Results were uncorrected (voxel *P* < .001; cluster > 40 voxels, *P* < .05). BA = Brodmann area; L = left; R = right.