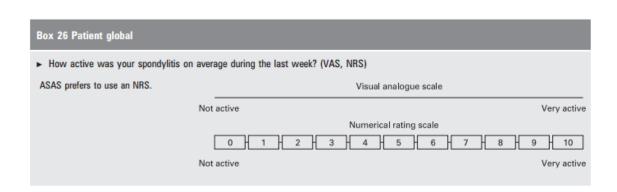
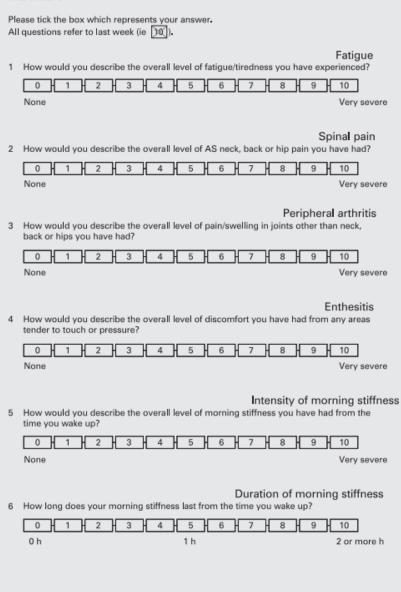
Box 25 Spinal pain ➤ Two questions (on average last week), visual analogue scale (VAS) or numerical rating scale (NRS): - How much pain of your spine due to AS do you have? - How much pain of your spine due to AS do you have at night? ASAS prefers to use an NRS. Visual analogue scale No pain Numerical rating scale 0 1 2 3 4 5 6 7 8 9 10 No pain Most severe pain



Box 28 BASDAI on a numerical rating scale¹⁸ (Adapted with permission from *J Rheumatol*.)

Alternatively, a VAS between 0 and 100 can be used, except question 6. ASAS prefers to use an NRS. Calculation of BASDAI: compute the mean of questions 5 and 6. Calculate the sum of the values of question 1—4 and add the result to the mean of questions 5 and 6. Divide the result by 5.





 $Q1 + Q2 + Q3 + Q4 + \left(\frac{Q5 + Q6}{2}\right)$

BASDAI = -

Box 29 Bath Ankylosing Spondylitis Functional Index (BASFI)19 (Adapted with permission from J Rheumatol.)

Items to be scored by the patient:

- ▶ Putting on your socks or tights without help or aids (eg, sock aid).
- ▶ Bending forward from the waist to pick up a pen from the floor without an aid.
- ▶ Reaching up to a high shelf without help or aids (eg, helping hand).
- Getting up out of an armless dining room chair without using your hands or any other help.
- ► Getting up off the floor without help from lying on your back.
- ▶ Standing unsupported for 10 min without discomfort.
- ▶ Climbing 12 to 15 steps without using a handrail or walking aid. One foot at each step.
- Looking over your shoulder without turning your body.
- ▶ Doing physically demanding activities (eg, physiotherapy, exercises, gardening or sports).
- ▶ Doing a full day's activities, whether it be at home or at work.

The BASFI is the mean of 10 item scores completed on a numerical rating scale.



Alternatively, a VAS between 0 and 100 can be used. ASAS prefers to use an NRS.

Box 41 Parameters used for the ASDAS²⁴

- 1) Total back pain (BASDAI question 2, see Box 28)
- 2) Patient global of disease activity (see Box 26)
- 3) Peripheral pain/swelling (BASDAI question 3, see Box 28)
- 4) Duration of morning stiffness (BASDAI question 6, see Box 28)
- C-reactive protein (CRP) in mg/litre (or erythrocyte sedimentation rate (ESR)).

Box 42 Calculation of the ASDAS²⁴

ASDAS_{CRP}: $0.121 \times \text{total}$ back pain+ $0.110 \times \text{patient}$ global+ $0.073 \times \text{peripheral}$ pain/swelling+ $0.058 \times \text{duration}$ of morning stiffness+ $0.579 \times \text{Ln}(\text{CRP+1})$.

ASDAS_{ESR}: $0.113 \times \text{patient global} + 0.293 \times \sqrt{\text{ESR}} + 0.086 \times \text{peripheral pain/swelling} + 0.069 \times \text{duration of morning stiffness} + 0.079 \times \text{total back pain.}$

ASDAS_{CRP} is preferred, but the ASDAS_{ESR} can be used in case CRP data are not available. CRP in mg/litre; all patient assessments on a 10 cm scale.

Box 44 ASAS 20 improvement criteria²⁵

- ► Four domains:
 - Patient global (see Box 26)
 - Pain (see Box 25)
 - Function (see Box 29)
 - Inflammation (mean of BASDAI questions 5 and 6, see Box 28).
- Improvement of ≥20% and ≥1 unit in at least 3 domains on a scale of 10.
- No worsening of ≥20% and ≥1 unit in remaining domain on a scale of 10.

Box 45 ASAS partial remission criteria²⁵

- ► Four domains:
 - Patient global (see Box 26)
 - Pain (see Box 25)
 - Function (see Box 29)
 - Inflammation (mean of BASDAI questions 5 and 6, see Box 28).
- A value not above 2 units in each of the domains on a scale of 10.