Workstation self-assessment recommendations

The following sections outline the tests that are recommended to be performed. These include:

- TG-18QC test pattern at the beginning of each reporting session (approx. 2 min)
- Clinical image quality assessment once only when setting up the remote workstation environment (approx. 30 min)

TG18-QC test pattern

It is recommended that this pattern is uploaded onto the local PACS system, and viewed using their native PACS interface.

The following checklist must be completed at the beginning of each reporting session

General Image Quality	
No smearing	
No artefacts	
Borders and lines of the pattern are visible and straight	
Pattern appears to be centered in the active area of the display device	
Ramps continuous	
Luminance	
All 16 patches are distinctly visible	
5% patch visible	
95% Visible	
Resolution elements visible	
Horizontal line pairs visible	
Vertical line pairs visible	
Central line pairs visible	
Number of Letters Visible (at least 11 or "QUALITY CONT")	
Dark	
Mid-grey	
Light	

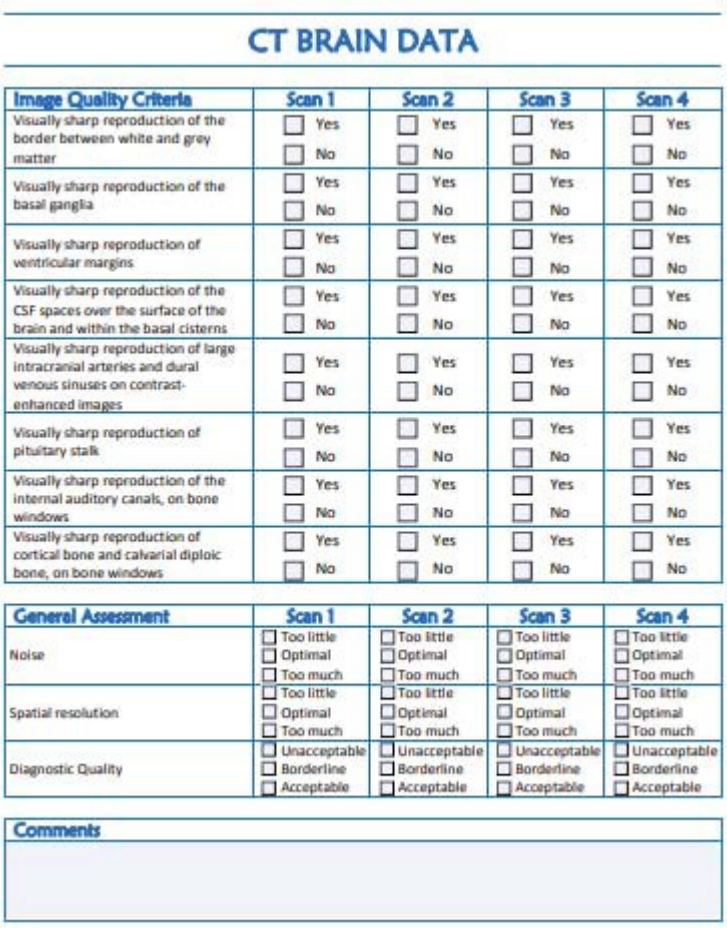
Please see attached powerpoint document for further information on assessing the TG18-QC test pattern.

Clinical image quality assessment

Use the RANZCRCT Image Review Self-Audit Worksheets to evaluate 2 images from each category, as appropriate:

- CT Brain
- CT C-Spine
- CT L-Spine
- CT Chest Adult
- CT Chest (Hi-Resolution)
- CT Abdomen & Pelvis

Using the self-assessment checklist, determine if diagnostic quality is acceptably reproduced using home diagnostic workstation.



CT BRAIN DATA

Image Quality Criteria	Scan 1	Scan 2	Scan 3	Scan 4
Visually sharp reproduction of the border between white and grey matter	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Visually sharp reproduction of the basal ganglia	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Visually sharp reproduction of ventricular margins	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Visually sharp reproduction of the CSF spaces over the surface of the brain and within the basal cisterns	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Visually sharp reproduction of large intracranial arteries and dural venous sinuses on contrast-enhanced images	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Visually sharp reproduction of pituitary stalk	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Visually sharp reproduction of the internal auditory canals, on bone windows	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Visually sharp reproduction of cortical bone and calvarial diploic bone, on bone windows	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

General Assessment	Scan 1	Scan 2	Scan 3	Scan 4
Noise	☐ Too little ☐ Optimal ☐ Too much	☐ Too little ☐ Optimal ☐ Too much	☐ Too little ☐ Optimal ☐ Too much	☐ Too little ☐ Optimal ☐ Too much
Spatial resolution	☐ Too little ☐ Optimal ☐ Too much	☐ Too little ☐ Optimal ☐ Too much	☐ Too little ☐ Optimal ☐ Too much	☐ Too little ☐ Optimal ☐ Too much
Diagnostic Quality	☐ Unacceptable ☐ Borderline ☐ Acceptable	☐ Unacceptable ☐ Borderline ☐ Acceptable	☐ Unacceptable ☐ Borderline ☐ Acceptable	☐ Unacceptable ☐ Borderline ☐ Acceptable

Comments

Your clinic can develop a clinically appropriate checklist dependent on the workload and what the reporting expectations are. For example, the Criteria for evaluating the TG18 anatomical images can be used.