

# IVP 16 Emotion

|   |  |                 |                   |                 |             |                   |
|---|--|-----------------|-------------------|-----------------|-------------|-------------------|
| Indications   | For hematuria, frequent UTI's, bladder ca, renal ca  |                 |                   |                 |             |                   |
| Diagnostic Task   | Detect masses, location of stones  |                 |                   |                 |             |                   |
| Scan mode   | Helical  |                 |                   |                 |             |                   |
| Position/Landmark   | 2cm superior to xiphoid/Inspiration  |                 |                   |                 |             |                   |
| Topogram  | AP 25 mA kV130   |                 |                   |                 |             |                   |
| kVp/Reference mass  | 130kv 200mas   |                 |                   |                 |             |                   |
| Rotation time/pitch   | 0.6/0.8  |                 |                   |                 |             |                   |
| Detector Configuration  | 16x1.2   |                 |                   |                 |             |                   |
| Table Speed/Increment   | 15.36  |                 |                   |                 |             |                   |
| Dose reduction  | CareDose 4D  |                 |                   |                 |             |                   |
| Allowed CTDI ranges*  | 7mGy-50mGy   |                 |                   |                 |             |                   |
| XR29 Dose Notification value  | 50mGy  |                 |                   |                 |             |                   |
|   | <b>250ml NaCL prior to non contrast scan</b>   |                 |                   |                 |             |                   |
|   | <b>no CT KUB if patient has had one in last 60 days and images available</b>   |                 |                   |                 |             |                   |
| Helical Set #1<br>Non contrast  | recon  | body part       | thickness spacing | kernel          | window      | recon destination |
|   | 1  | abd/pelvis      | 2mmx 2mm          | 31medium smooth | mediastinum | pacs              |
| <b>35ml Isovue 370 @2cc/sec-then 200ml NaCL @ 2ml/sec WAIT 13min</b>          |  |                 |                   |                 |             |                   |
| Helical Set 2<br>Venous phase<br>120sec delay<br>75ml Isovue 370 @<br>2ml/sec | recon  | body part       | thickness spacing | kernel          | window      | recon destination |
|   | 1  | abd/pelvis      | 2mmx 2mm          | 31medium smooth | mediastinum | pacs              |
|   | 2  | coronal abdomen | 2mmx2mm           | 31medium smooth | mediastinum | pacs              |
|   | 3  | sag abdomen     | 2mmx2mm           | 31medium smooth | mediastinum | pacs              |
|   | 4  | coronal MIP     | 5mmx2mm           | 31medium smooth | mediastinum | pacs              |
| Helical Set 3<br>5min<br>only done if ureters are<br>inadequately opacified   | recon  | body part       | thickness spacing | kernel          | window      | recon destination |
|   | 1  | abd/pelvis      | 1.5mmx 1.5mm      | 31medium smooth | mediastinum | pacs              |
| IV contrast volume/rate   | 110ml isovue 370/ 450ml saline   |                 |                   |                 |             |                   |
|   | Approximate Values for CTDIvol   |                 |                   |                 |             |                   |
|   | Patient size   | weight(kg)      | weight(lbs)       | CTDIvol(mGy)    |             |                   |
|   | SMALL  | 50-70           | 110-155           | 10-17           |             |                   |
|   | AVERAGE  | 70-90           | 155-200           | 15-25           |             |                   |
|   | LARGE  | 90-120          | 200-265           | 22-35           |             |                   |
| NOTE*   | *The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist. |                 |                   |                 |             |                   |

