

DBIC MRI User Manual

Siemens Prisma XA60

Powering System Up

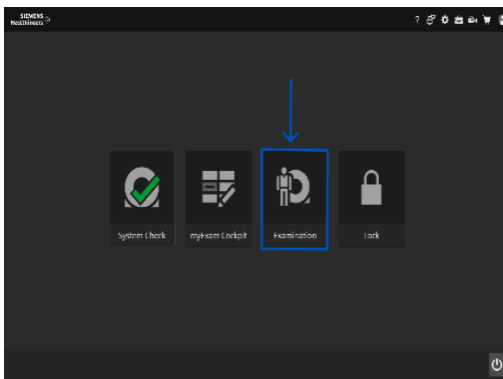
Power on system by pressing System On button on the Siemens System Control Box indicated by blue arrow.

After about 6 minutes of the booting process the gradient system will signal the system is ready with three gradient 'knocks'.

The Home screen will display on the monitor when system host computer is ready.

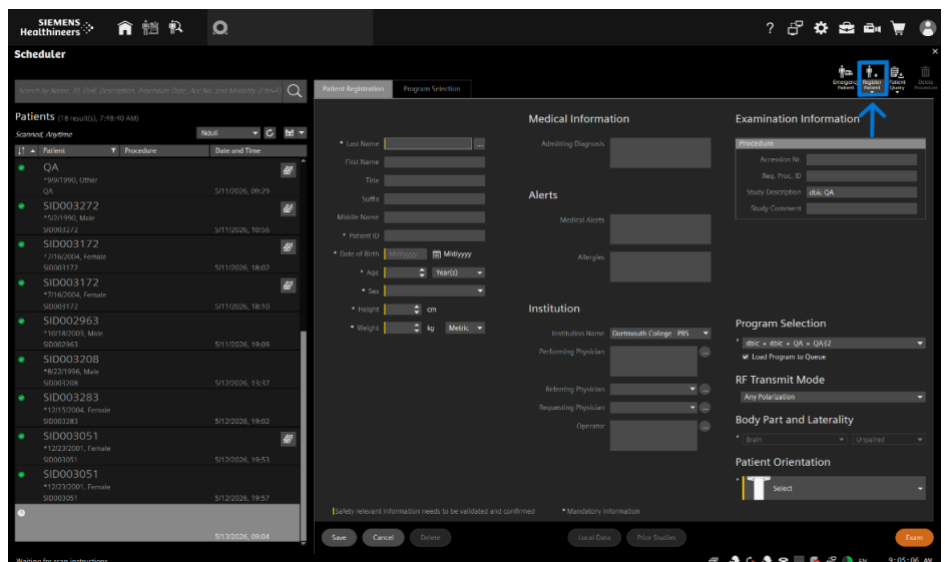


Home Screen and Participant Registration



Select the Examination icon to begin a new study.

Select Patient Registration to enter new Participant information.



SIEMENS Healthineers

Scheduler

Search by Name, ID, Date, Description, Procedure Date, Age, Sex, and Modality (Ctrl+F)

Scanned: Anytime

Patients (18 results, 7:48:40 AM)

Patient	Procedure	Date and Time
QA	*10/19/1990, Other	5/11/2026, 09:29
SID003272	*12/21/1990, Male	5/11/2026, 10:56
SID003172	*7/16/2004, Female	5/11/2026, 18:02
SID003172	*7/16/2004, Female	5/11/2026, 18:10
SID002963	*10/18/2003, Male	5/11/2026, 19:09
SID003208	*8/22/1996, Male	5/12/2026, 13:37
SID003283	*12/15/2004, Female	5/12/2026, 19:02
SID003051	*12/23/2001, Female	5/12/2026, 19:53
SID003051	*12/23/2001, Female	5/12/2026, 19:57

Medical Information

Last Name: [Field] First Name: [Field] Title: [Field] Suffix: [Field] Middle Name: [Field] Patient ID: [Field] Date of Birth: [Field] Age: [Field] Sex: [Field] Height: [Field] Weight: [Field] Metric: [Field]

Alerts

Institution

Institution Name: Dartmouth College - PBS

Performing Physician: [Field] Referring Physician: [Field] Requesting Physician: [Field] Operator: [Field]

Examination Information

Procedure

Accession No.: [Field] Reg. Proc. ID: [Field] Study Description: dbic QA Study Comment: [Field]

Program Selection

* dbic = dbic = QA = QA32

RF Transmit Mode

Any Polarization

Body Part and Laterality

* Brain * Unpaired

Patient Orientation

T Select

Save Cancel Delete Local Data Prior Studies Exam

Waiting for scan instructions.

Enter information in all fields with blue arrow.

Patient name and Patient ID will be SID#. Use Jedcap to generate Accession#.

Note Height and Weight can be toggled between Metric and US.

Enter Patient Orientation by clicking Select and then Head First Supine.

SIEMENS Healthineers

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Search by Name, ID, Date, Description, Procedure Date, Age, Sex, and Modality (Ctrl+F)

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SID003172	*7/16/2004, Female	5/11/2026, 18:10
SID002963	*10/18/2003, Male	5/11/2026, 19:09
SID003208	*8/22/1996, Male	5/12/2026, 13:37
SID003283	*12/15/2004, Female	5/12/2026, 19:02
SID003051	*12/23/2001, Female	5/12/2026, 19:53
SID003051	*12/23/2001, Female	5/12/2026, 19:57

Medical Information

Last Name: [Field] First Name: [Field] Title: [Field] Suffix: [Field] Middle Name: [Field] Patient ID: [Field] Date of Birth: [Field] Age: [Field] Sex: [Field] Height: [Field] Weight: [Field] Metric: [Field]

Alerts

Institution

Institution Name: Dartmouth College - PBS

Performing Physician: [Field] Referring Physician: [Field] Requesting Physician: [Field] Operator: [Field]

Examination Information

Procedure

Accession No.: [Field] Reg. Proc. ID: [Field] Study Description: dbic QA Study Comment: [Field]

Program Selection

* dbic = dbic = QA = QA32

RF Transmit Mode

Any Polarization

Body Part and Laterality

* Brain * Unpaired

Patient Orientation

T Select

Save Cancel Delete Local Data Prior Studies Exam

Waiting for scan instructions.

Select your study scan protocol in Program Selection. If yours is not listed select Other Examination.

SIEMENS Healthineers

Scheduler

Search by Name, ID, Date, Description, Procedure Date, Age, Sex, and Modality (Ctrl+F)

Scanned: Anytime

Patients (18 results, 7:48:40 AM)

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SID003172	*7/16/2004, Female	5/11/2026, 18:10
SID002963	*10/18/2003, Male	5/11/2026, 19:09
SID003208	*8/22/1996, Male	5/12/2026, 13:37
SID003283	*12/15/2004, Female	5/12/2026, 19:02
SID003051	*12/23/2001, Female	5/12/2026, 19:53
SID003051	*12/23/2001, Female	5/12/2026, 19:57

Medical Information

Last Name: [Field] First Name: [Field] Title: [Field] Suffix: [Field] Middle Name: [Field] Patient ID: [Field] Date of Birth: [Field] Age: [Field] Sex: [Field] Height: [Field] Weight: [Field] Metric: [Field]

Alerts

Institution

Institution Name: Dartmouth College - PBS

Performing Physician: [Field] Referring Physician: [Field] Requesting Physician: [Field] Operator: [Field]

Examination Information

Procedure

Accession No.: [Field] Reg. Proc. ID: [Field] Study Description: dbic QA Study Comment: [Field]

Program Selection

* dbic = dbic = QA = QA32

RF Transmit Mode

Any Polarization

Body Part and Laterality

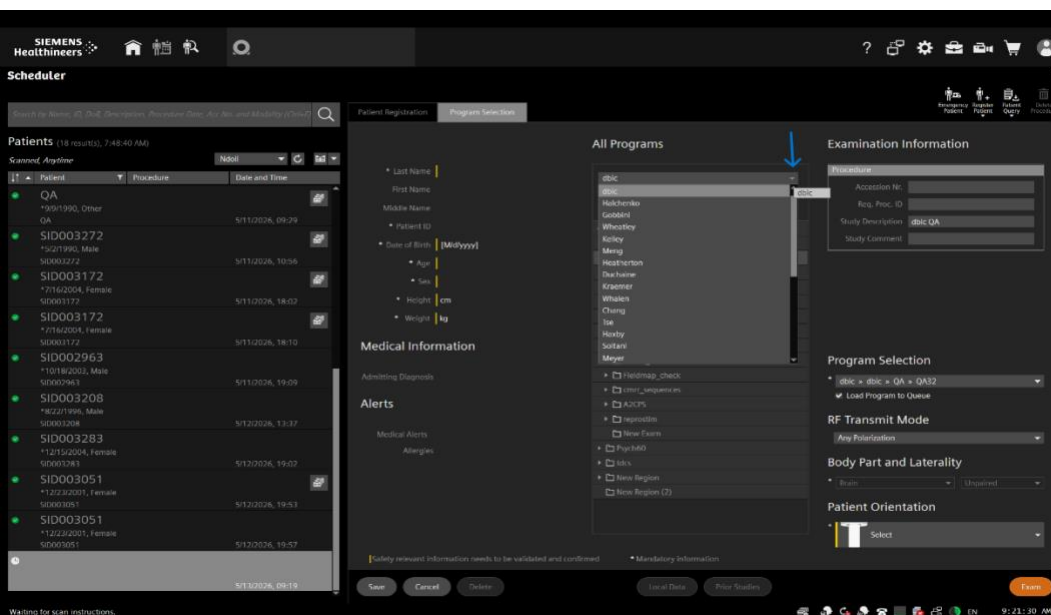
* Brain * Unpaired

Patient Orientation

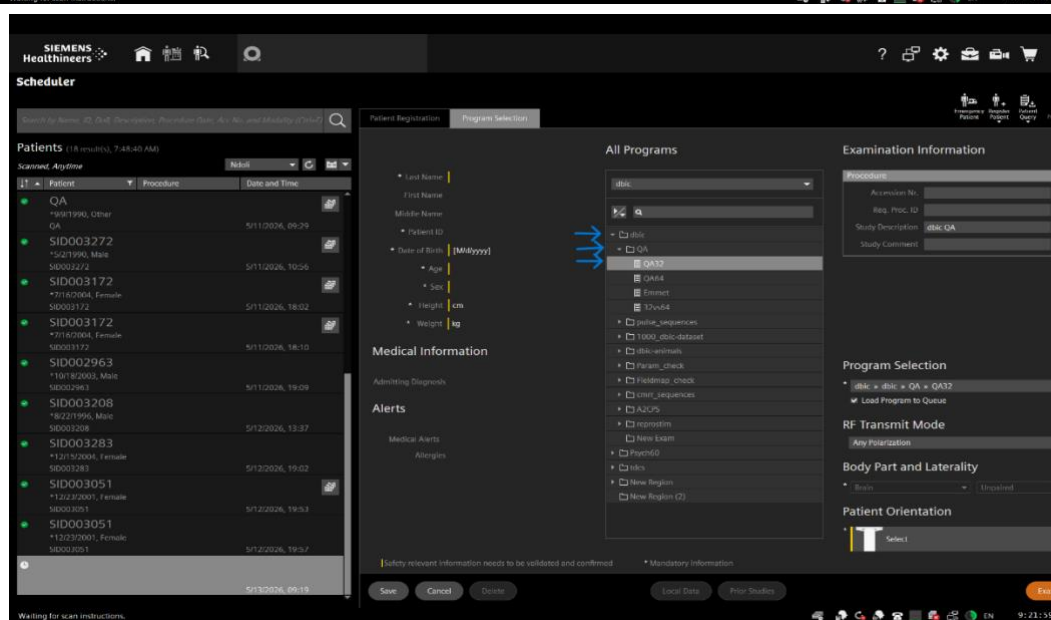
T Select

Save Cancel Delete Local Data Prior Studies Exam

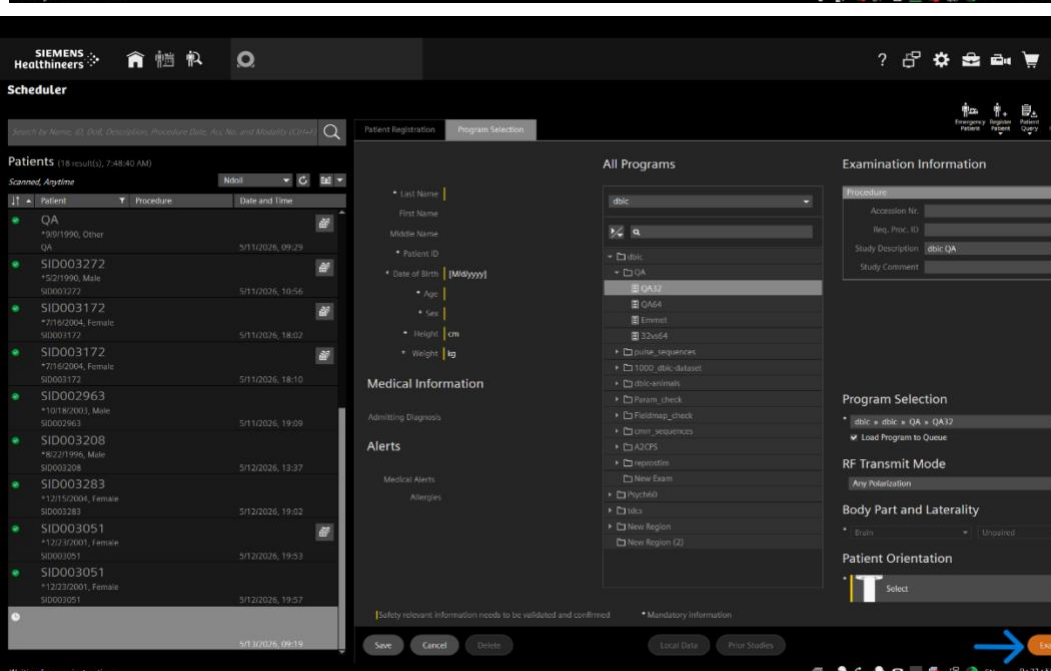
Waiting for scan instructions.



Locate scan protocol using down arrow tab. Select Investigator.



Select Experimenter and then StudyID-Study Name

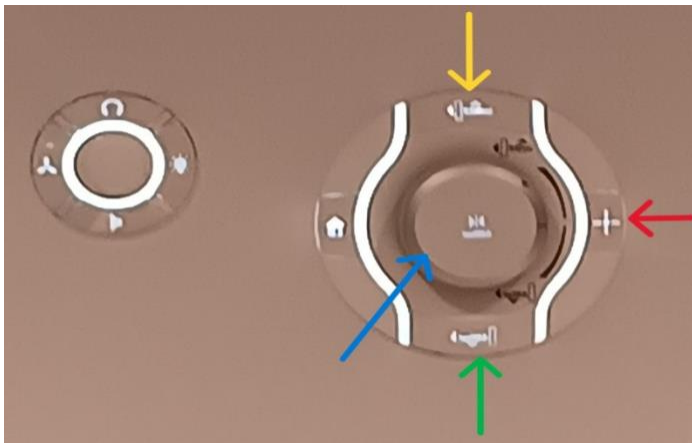


Select Exam this will launch the scan acquisition interface.

Placing Participant in Scanner

Participant must change into scrubs, complete MRI Safety and metal screening prior to entering the MRI magnet room / Zone IV. Fully explain what to expect (noise and potential warming) and how to alert you if they experience any discomfort (uncomfortable heating or muscle twitching) during scanning.

On prepared scan table have Participant lay down on their back with head toward the MRI bore. Be mindful of the Participants head and head coil as they lay back. Place cushion under Participant knees. Provide hearing protection and squeeze ball. Attach any required peripheral devices and head stabilizing cushions. Attach anterior portion of the head coil and ensure coil is properly connected to the scanner. Ensure Participant comfort and make any necessary adjustments. Check that all cables and cords are routed straight without any loops. Isolate cables and cords from Participants bare skin. Instruct Participant not to cross their arms or legs.



Use roller wheel (blue arrow) to raise and lower the scan table. Table can also be raised using button indicated by yellow arrow. Button at green arrow will lower the table.

Once table is at full height use roller wheel to move Participant into the scanner bore. Ask Participant to close their eyes and turn on laser light (red arrow) to landmark for isocenter.

Use roller wheel to move Participant until laser light reaches center mark of head coil.

Push laser light button to turn off laser light.

Use roller wheel to move Participant to isocenter.

Ensure Participants arms and legs are not making direct contact with bore of the magnet. If arms or legs are touching the walls of the bore use gray cushions to isolate Participant from the bore.

Check that Participant is comfortable and ready. Exit magnet room and activate RF door seal.



Starting Scan Acquisition

Communicating with Participant inside the scanner

Press ear icon to hear Participant.

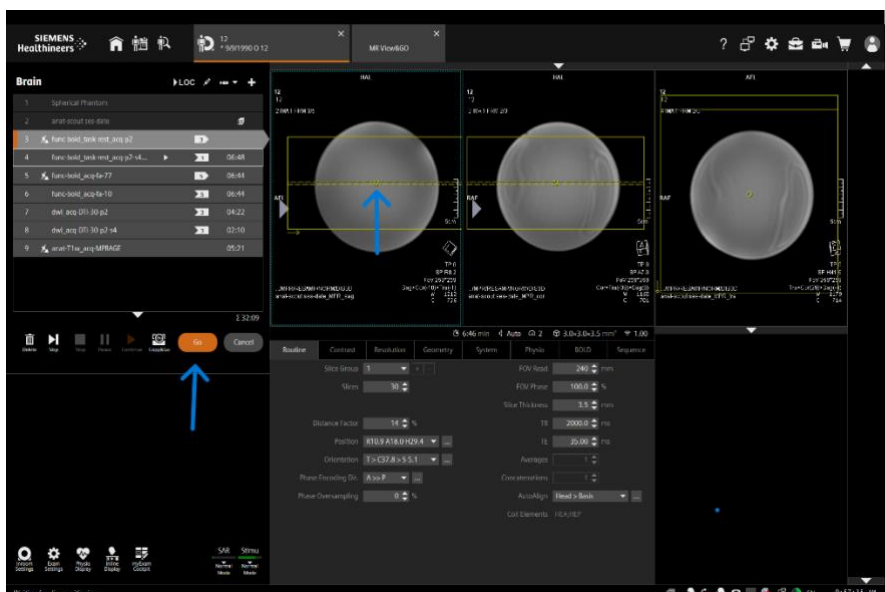
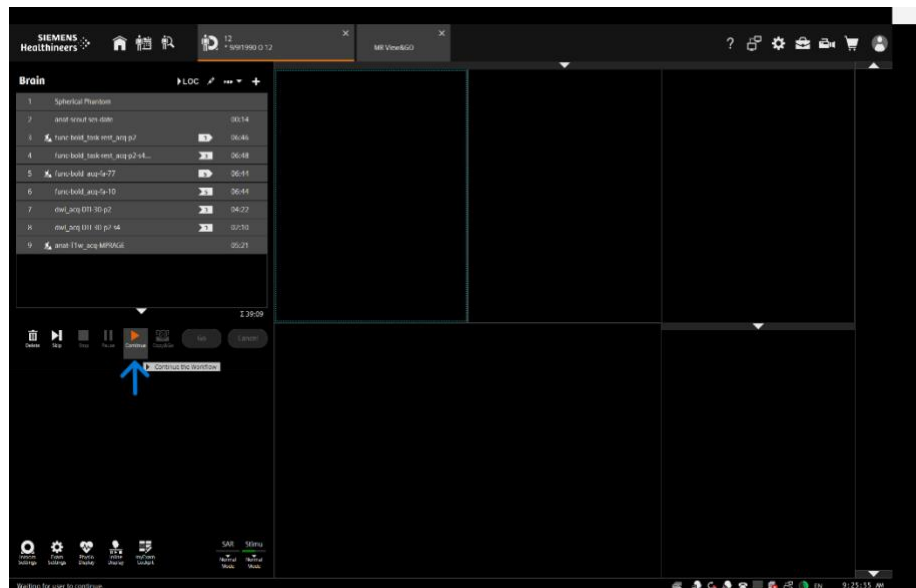
Press speaking icon to speak to Participant and release to listen.

Press ear icon again before scanning.



Check in with Participant for comfort and readiness.

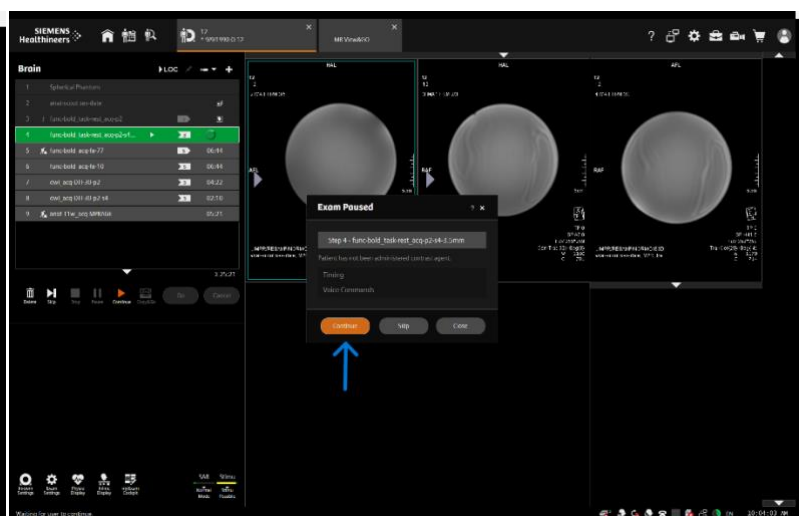
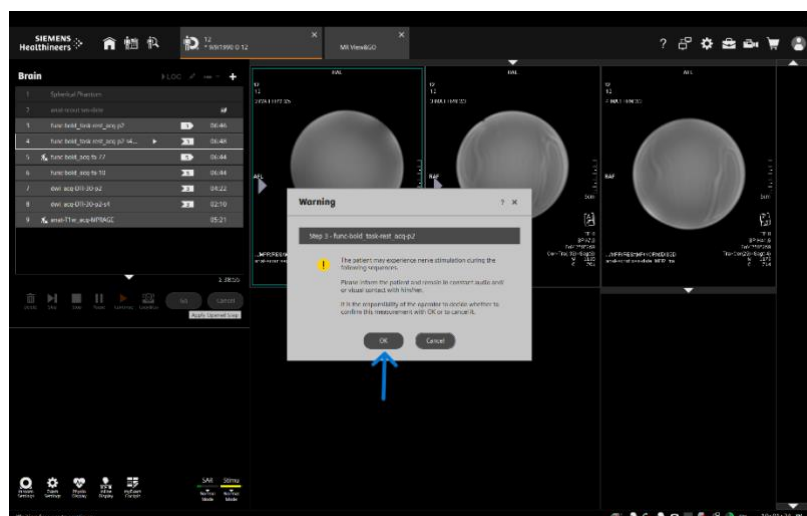
Select Continue to begin scan acquisition. The anat_scout will be acquired and automatically load into the three viewing panels. The next sequence will open displaying scan bounding box.



Left click and drag the circle in the center of the bounding box to adjust position of scan acquisition.

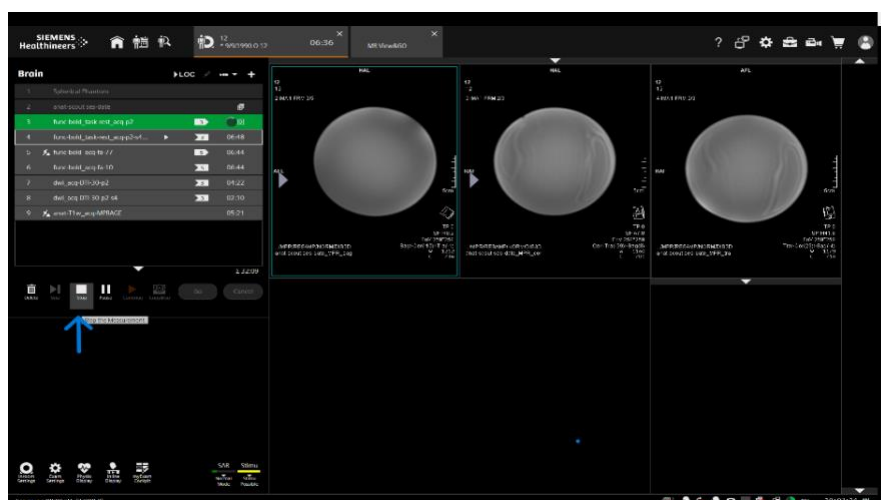
Once bounding box is in place select Go. The sequence will run.

Depending on protocol settings message boxes will pop up.



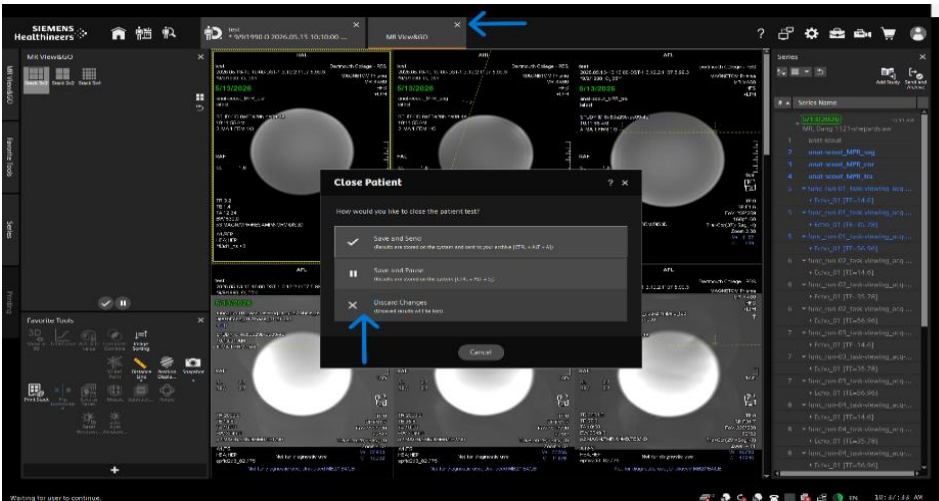
The image on the left is notification of potential nerve stimulation. The image on the right is notification that exam is paused awaiting User to begin the sequence. This is opportunity to communicate with Participant, give any instructions and check their comfort. Select OK and Continue to begin scan.

***If during scanning the Participant activates the squeeze ball the alarm bell will make audible noise and blink. ***

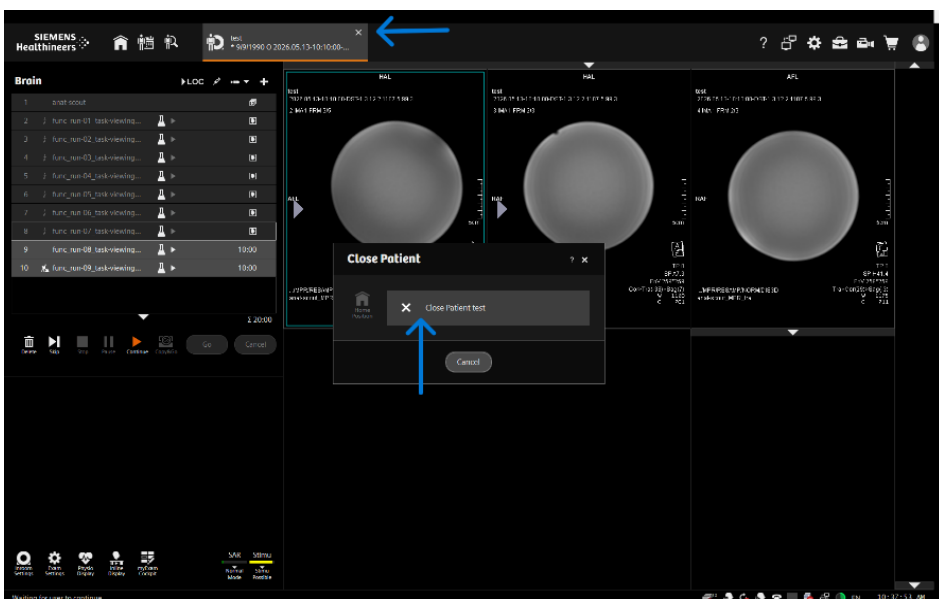


Immediately stop the scan by selecting Stop (left image blue arrow). Silence alarm by pressing button in the right image. Press Speak button to talk to Participant and release to listen. Immediately remove Participant from scanner to address any emergent issue.

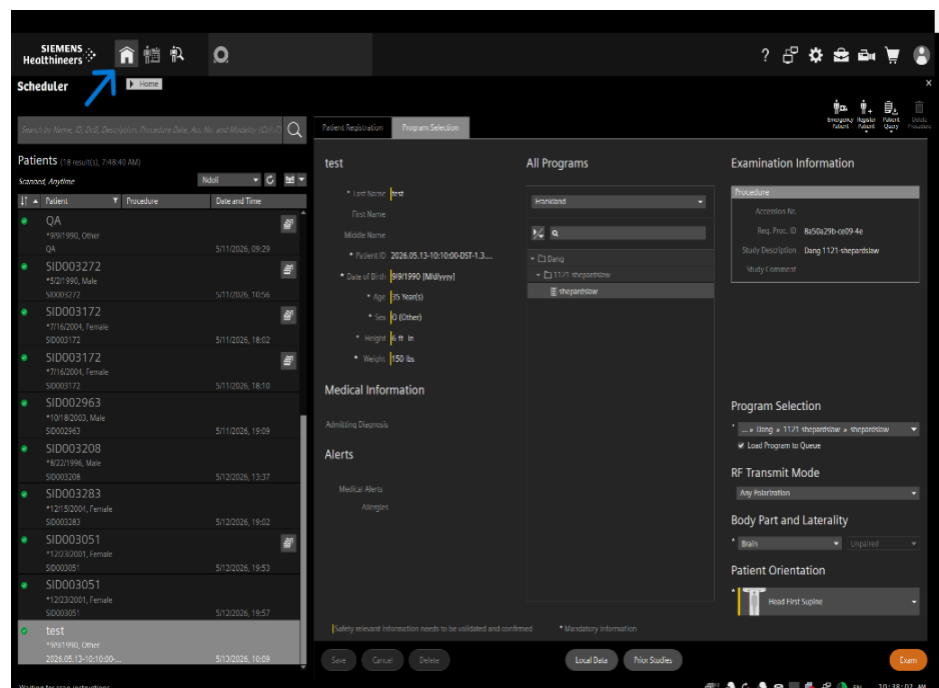
Completing Scan



When study is complete end and close image viewing and scanning windows. Viewer is closed by selecting the X at the top of the screen and then Discard Changes.

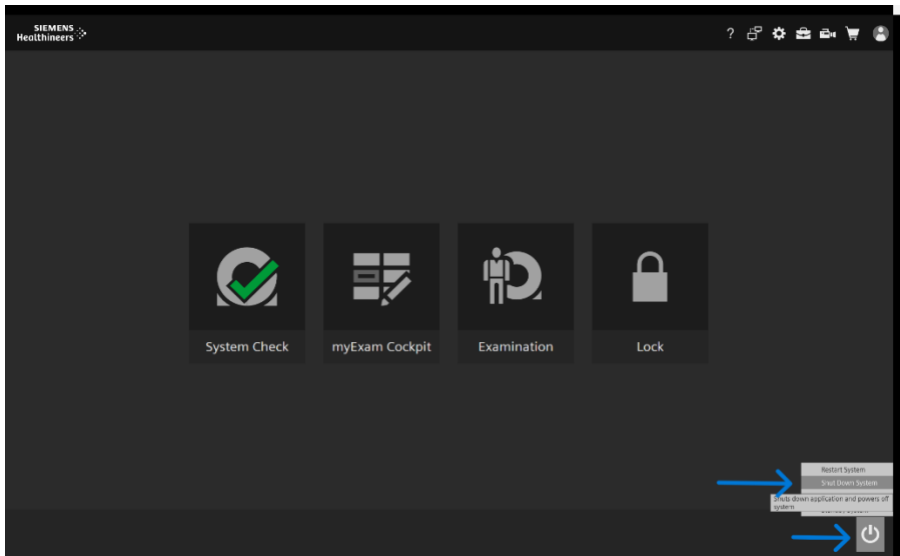


Scanning interface is closed by selecting the X at the top of the screen and then Close Patient Test.



Return to the Home screen by selecting the Home icon. If studies are scheduled to follow leave system at Home screen. Remove Participant from scanner. Return peripherals and images coils to respective storage locations. Place disposables and linens in respective locations. Clean and reset magnet room for next use.

Powering System Down



If you are the last MR User of the day remove Participant from the scanner. Then power down the system by selecting the Shutdown Options icon and selecting Shutdown System.

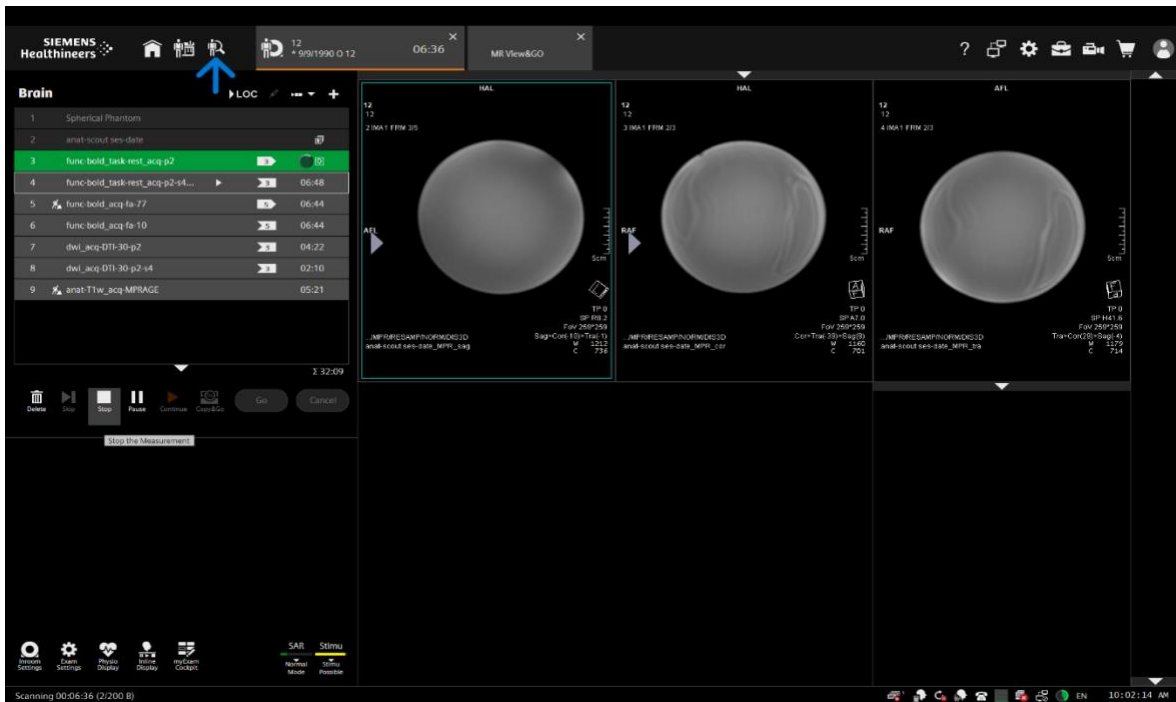
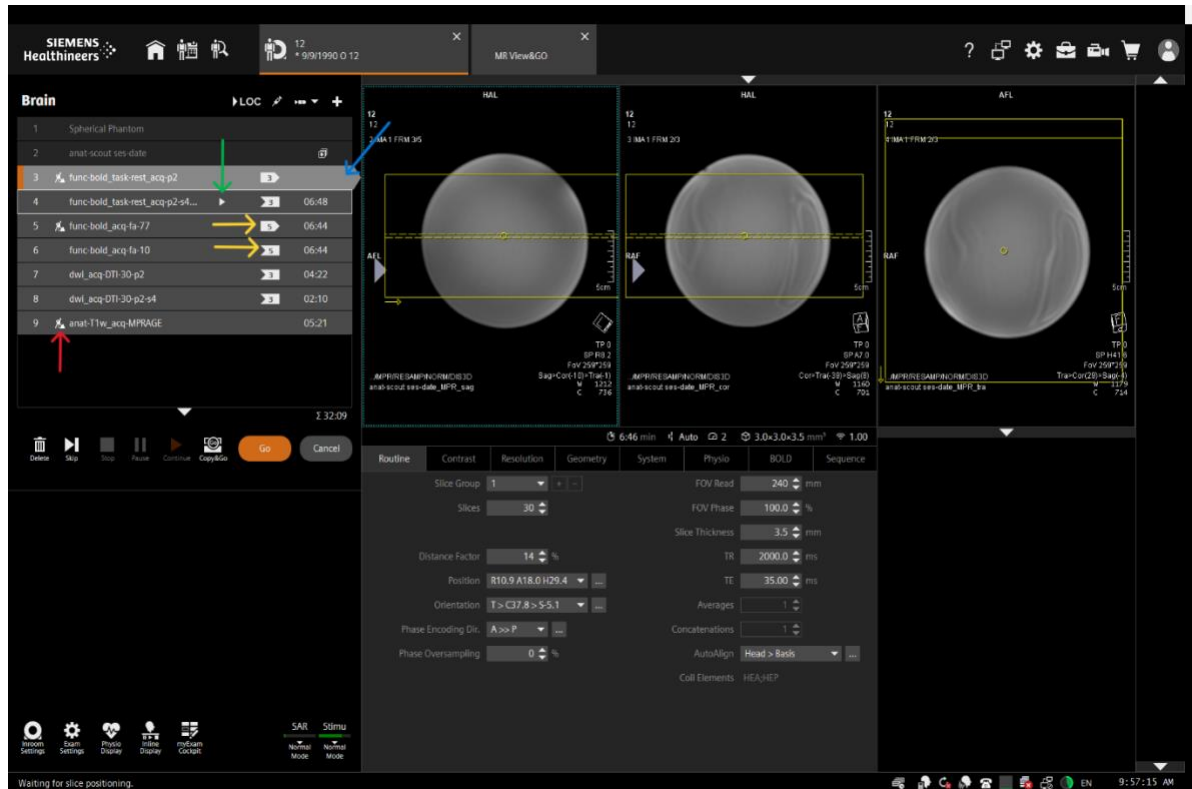
Shutdown takes about 6 minutes in this time return scan room to next use state.

Once system is powered down the MRI monitor will display No Input. Press the System Off button on Siemens System Control Box, indicated by blue arrow.

Check that all peripheral devices and equipment are turned off. Ensure that the magnet room door is sealed. Turn off all lights and monitors before leaving the suite.



Red arrow notes an imaging sequence that requires User planning action.



Icon noted by blue arrow navigates to the Patient or Participant Browser. This is where scan data archiving can be confirmed.

Icon of check mark within green circle indicates scan data is successfully archived.

The screenshot shows the Siemens Healthineers Patient Browser interface. The top bar includes the Siemens Healthineers logo, navigation icons, and a search bar. The main area is divided into two panels: 'Results' on the left and 'Series' on the right. The 'Results' panel displays a table with columns: Patient Name, Patient ID, Date of Birth, Study Date and Time, Accession, Study Archived, Corrected, Marked, and Study Description. A blue arrow points to a green circle with a checkmark icon in the 'Study Archived' column for the first row. The 'Series' panel displays a table with columns: Series Number, Series Description, # Ins..., Series..., and Series Date an. A blue arrow points to a green circle with a checkmark icon in the 'Series...' column for the first row.

Patient Name	Patient ID	Date of Birth	Study Date and Time	Accession	Study Archived	Corrected	Marked	Study Description
12	12	9/9/1990	5/12/2026 9:24:48 AM	A007446				Chang_Cheng 1124_HyperBra
SID003278	SID003278	12/15/2004	5/12/2026 7:04:22 PM	A007445				Psych60 1001_Psych60
SID002691	SID002691	4/17/2004	5/12/2026 6:06:11 PM	A007444				Psych60 1001_Psych60
SID003208	SID003208	8/22/1996	5/12/2026 1:41:41 PM	A007443				Chang_Cheng 1128_emotion_po
SID002963	SID002963	10/18/2000	5/12/2026 7:10:38 PM	A007442				Psych60 1001_Psych60
SID003172	SID003172	7/16/2004	5/12/2026 6:12:53 PM	A007441				Psych60 1001_Psych60
SID003272	SID003272	5/21/1990	5/12/2026 1:41:05 PM	A007440				Haxby_Xiaoxuan 1110_HyperBra
QA	QA	9/9/1990	5/12/2026 9:31:21 AM	qa32				dbic QA
QA64	QA64	9/9/1990	5/12/2026 8:52:48 AM	QA64				dbic QA
QA64	QA64	1/1/1990	5/12/2026 8:27:14 AM	qa64				dbic QA
SID001784	SID001784	6/13/1992	5/8/2026 10:38:48 AM	A007438				Chang_Cheng 1128_emotion_po
SID003273	SID003273	8/31/2003	5/7/2026 4:15:23 PM	A007437				Haxby_Xiaoxuan 1110_HyperBra
SID003272	SID003272	5/21/1990	5/7/2026 10:12:39 AM	A007436				Haxby_Xiaoxuan 1110_HyperBra
SID003282	SID003282	11/2/1992	5/6/2026 6:55:11 PM	A007435				Wager_Wager 1090_tdc
SID003269	SID003269	9/1/2007	5/6/2026 3:30:56 PM	A007434				Haxby_Xiaoxuan 1110_HyperBra
SID002090	SID002090	2/23/1983	5/6/2026 2:20:34 PM	A007433				Psych60 1001_Psych60
SID002972	SID002972	3/21/1994	5/5/2026 1:15:55 PM	A007432				Chang_Cheng 1128_emotion_po
SID003274	SID003274	3/12/2006	5/5/2026 10:48:28 AM	A007431				Wager_Wager 1090_tdc
P	P	9/9/1990	5/5/2026 9:42:41 AM					dbic QA
SID003205	SID003205	4/18/2007	5/4/2026 4:07:51 PM	A007430				Haxby_Xiaoxuan 1110_HyperBra
SID003281	SID003281	1/15/2006	5/4/2026 2:16:06 PM	A007429				Damo 1121_shepherdview
HPTest	HPTest	9/9/1990	5/4/2026 10:54:46 AM					Psych60 1001_Psych60
QA	QA	1/1/2000	5/4/2026 9:44:53 AM	qa				dbic QA
QA64	QA64	1/1/2000	5/4/2026 8:51:15 AM	qa64				dbic QA
QA64	QA64	1/1/2000	5/4/2026 8:46:30 AM	qa64				dbic QA
SID003259	SID003259	8/8/2006	5/12/2026 4:11:43 PM	A007428				Haxby_Xiaoxuan 1110_HyperBra
SID003274	SID003274	3/12/2006	5/12/2026 1:37:56 PM	A007427				Wager_Wager 1090_tdc
SID003278	SID003278	6/17/2005	4/30/2026 2:32:14 PM	A007425				Haxby_Xiaoxuan 1110_HyperBra
SID003269	SID003269	9/1/2007	4/30/2026 11:57:58 AM	A007424				Haxby_Xiaoxuan 1110_HyperBra
SID003276	SID003276	4/20/2007	4/30/2026 10:15:31 AM	A007423				Haxby_Xiaoxuan 1110_HyperBra
SID003073	SID003073	10/18/2000	4/29/2026 2:50:21 PM	A007422				Chang_Cheng 1128_emotion_po
SID003274	SID003274	3/12/2006	4/29/2026 1:03:21 PM	A007421				Haxby_Jane 1073_MonkeyAction
SID003268	SID003268	1/23/2005	4/29/2026 9:05:37 AM	A007419				Haxby_Jane 1073_MonkeyAction
SID003141	SID003141	5/1/2004	4/28/2026 6:17:35 PM	A007418				Wager_Wager 1090_tdc
SID003277	SID003277	5/28/2006	4/28/2026 10:13:16 AM	A007417				Wager_Wager 1090_tdc
SID003172	SID003172	7/16/2004	4/27/2026 3:26:01 PM	A007416				Haxby_Xiaoxuan 1110_HyperBra
SID003273	SID003273	8/31/2003	4/27/2026 1:13:48 PM	A007415				Haxby_Xiaoxuan 1110_HyperBra
SID003269	SID003269	9/1/2007	4/27/2026 11:39:52 AM	A007414				Haxby_Xiaoxuan 1110_HyperBra
QA	QA	1/1/1990	4/27/2026 9:28:13 AM					dbic QA
SID003274	SID003274	3/12/2006	4/24/2026 1:02:53 PM	A007413				Haxby_Xiaoxuan 1110_HyperBra
SID003259	SID003259	8/8/2006	4/24/2026 11:00:09 AM	A007412				Haxby_Xiaoxuan 1110_HyperBra
SID003272	SID003272	5/2/1990	4/24/2026 9:10:58 AM	A007411				Haxby_Xiaoxuan 1110_HyperBra
SID003258	SID003258	3/22/2007	4/24/2026 7:05:00 AM	A007410				Haxby_Jane 1073_MonkeyAction
SID003278	SID003278	6/17/2005	4/23/2026 3:04:13 PM	A007409				Haxby_Xiaoxuan 1110_HyperBra
SID003272	SID003272	5/2/1990	4/23/2026 12:35:15 PM	A007408				Haxby_Xiaoxuan 1110_HyperBra
SID003274	SID003274	3/12/2006	4/23/2026 11:09:57 AM	A007407				Haxby_Xiaoxuan 1110_HyperBra
SID003276	SID003276	4/20/2007	4/22/2026 3:10:11 PM	A007406				Haxby_Xiaoxuan 1110_HyperBra
SID002399	SID002399	5/11/1993	4/22/2026 1:22:00 PM	A007405				Chang_Cheng 1128_emotion_po
SID003275	SID003275	1/16/2005	4/21/2026 1:03:58 PM	A007404				Haxby_Xiaoxuan 1110_HyperBra
SID003259	SID003259	8/8/2006	4/21/2026 11:19:04 AM	A007403				Haxby_Xiaoxuan 1110_HyperBra
SID002843	SID002843	4/4/2000	4/21/2026 8:33:52 AM	A007401				Haxby_Jane 1073_MonkeyAction
SID003172	SID003172	7/16/2004	4/20/2026 3:26:14 PM	A007400				Haxby_Xiaoxuan 1110_HyperBra
SID003273	SID003273	8/31/2003	4/20/2026 1:05:29 PM	A007398				Haxby_Xiaoxuan 1110_HyperBra
SID003268	SID003268	1/23/2005	4/20/2026 11:47:35 AM	A007397				Haxby_Xiaoxuan 1110_HyperBra
SID003268	SID003268	1/23/2005	4/14/2026 4:05:10 PM	A007387				Haxby_Xiaoxuan 1110_HyperBra
SID003268	SID003268	1/23/2005	4/14/2026 3:16:03 PM	A007387				Haxby_Xiaoxuan 1110_HyperBra
QA	QA	1/1/2000	4/13/2026 10:24:11 AM	qa				dbic QA
SID003210	SID003210	4/8/2007	2/9/2026 6:31:34 PM	A007262				Wager_Wager 1090_tdc

Small triangle with gray circle notes data that has not been successfully archived.

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Patient Name	Patient ID	Date of Birth	Study Date and Time	Accession	Study Archived	Corrected	Marked	Study Description
SID003278	SID003278	6/17/2005	4/30/2026 2:32:14 PM	A007425				Haxby_Xiaoxuan 1110_HyperBra
SID003269	SID003269	9/1/2007	4/30/2026 11:57:58 AM	A007424				Haxby_Xiaoxuan 1110_HyperBra
SID003276	SID003276	4/20/2007	4/30/2026 10:15:31 AM	A007423				Haxby_Xiaoxuan 1110_HyperBra
SID003073	SID003073	10/18/2000	4/29/2026 2:50:21 PM	A007422				Chang_Cheng 1128_emotion_po
SID003274	SID003274	3/12/2006	4/29/2026 1:03:21 PM	A007421				Haxby_Jane 1073_MonkeyAction
SID003268	SID003268	1/23/2005	4/29/2026 9:05:37 AM	A007419				Haxby_Jane 1073_MonkeyAction
SID003141	SID003141	5/1/2004	4/28/2026 6:17:35 PM	A007418				Wager_Wager 1090_tdc
SID003277	SID003277	5/28/2006	4/28/2026 10:13:16 AM	A007417				Wager_Wager 1090_tdc
SID003172	SID003172	7/16/2004	4/27/2026 3:26:01 PM	A007416				Haxby_Xiaoxuan 1110_HyperBra
SID003273	SID003273	8/31/2003	4/27/2026 1:13:48 PM	A007415				Haxby_Xiaoxuan 1110_HyperBra
SID003269	SID003269	9/1/2007	4/27/2026 11:39:52 AM	A007414				Haxby_Xiaoxuan 1110_HyperBra
QA	QA	1/1/1990	4/27/2026 9:28:13 AM					dbic QA
SID003274	SID003274	3/12/2006	4/24/2026 1:02:53 PM	A007413				Haxby_Xiaoxuan 1110_HyperBra
SID003259	SID003259	8/8/2006	4/24/2026 11:00:09 AM	A007412				Haxby_Xiaoxuan 1110_HyperBra
SID003272	SID003272	5/2/1990	4/24/2026 9:10:58 AM	A007411				Haxby_Xiaoxuan 1110_HyperBra
SID003258	SID003258	3/22/2007	4/24/2026 7:05:00 AM	A007410				Haxby_Jane 1073_MonkeyAction
SID003278	SID003278	6/17/2005	4/23/2026 3:04:13 PM	A007409				Haxby_Xiaoxuan 1110_HyperBra
SID003272	SID003272	5/2/1990	4/23/2026 12:35:15 PM	A007408				Haxby_Xiaoxuan 1110_HyperBra
SID003274	SID003274	3/12/2006	4/23/2026 11:09:57 AM	A007407				Haxby_Xiaoxuan 1110_HyperBra
SID003276	SID003276	4/20/2007	4/22/2026 3:10:11 PM	A007406				Haxby_Xiaoxuan 1110_HyperBra
SID002399	SID002399	5/11/1993	4/22/2026 1:22:00 PM	A007405				Chang_Cheng 1128_emotion_po
SID003275	SID003275	1/16/2005	4/21/2026 1:03:58 PM	A007404				Haxby_Xiaoxuan 1110_HyperBra
SID003259	SID003259	8/8/2006	4/21/2026 11:19:04 AM	A007403				Haxby_Xiaoxuan 1110_HyperBra
SID002843	SID002843	4/4/2000	4/21/2026 8:33:52 AM	A007401				Haxby_Jane 1073_MonkeyAction
SID003172	SID003172	7/16/2004	4/20/2026 3:26:14 PM	A007400				Haxby_Xiaoxuan 1110_HyperBra
SID003273	SID003273	8/31/2003	4/20/2026 1:05:29 PM	A007398				Haxby_Xiaoxuan 1110_HyperBra
SID003268	SID003268	1/23/2005	4/20/2026 11:47:35 AM	A007397				Haxby_Xiaoxuan 1110_HyperBra
SID003268	SID003268	1/23/2005	4/14/2026 4:05:10 PM	A007387				Haxby_Xiaoxuan 1110_HyperBra
SID003268	SID003268	1/23/2005	4/14/2026 3:16:03 PM	A007387				Haxby_Xiaoxuan 1110_HyperBra
QA	QA	1/1/2000	4/13/2026 10:24:11 AM	qa				dbic QA
SID003210	SID003210	4/8/2007	2/9/2026 6:31:34 PM	A007262				Wager_Wager 1090_tdc