



(Gadoteridol) Injection, 279.3 mg/mL

STABILITY. SAFETY. EFFICACY.



MR Suite



Make the Switch

ProHance is the fastest-growing GBCA in the U.S.^{1,*}

GBCA = Gadolinium-based contrast agent.

*Source: IQVIA DDD: November 2019.

The individuals who appear are for illustrative purposes only. All persons depicted are models and not real healthcare professionals.



LIFE FROM INSIDE

Committed to Science,
Committed to You.™



MultiHance® (gadobenate dimeglumine) injection, 529 mg/mL and ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Indications and Usage for MultiHance® (gadobenate dimeglumine) injection, 529 mg/mL:

MultiHance (gadobenate dimeglumine) injection, 529 mg/mL is a gadolinium-based contrast agent indicated for intravenous use in:

- Magnetic resonance imaging (MRI) of the central nervous system (CNS) in adults and pediatric patients (including term neonates) to visualize lesions with abnormal blood-brain barrier or abnormal vascularity of the brain, spine, and associated tissues and
- Magnetic resonance angiography (MRA) to evaluate adults with known or suspected renal or aorto-ilio-femoral occlusive vascular disease

Indications and Usage for ProHance® (Gadoteridol) Injection, 279.3 mg/mL:

CENTRAL NERVOUS SYSTEM

ProHance (Gadoteridol) Injection, 279.3 mg/mL is indicated for use in MRI in adults and children over 2 years of age to visualize lesions with abnormal vascularity in the brain (intracranial lesions), spine, and associated tissues.

EXTRACRANIAL/EXTRASPINAL TISSUES

ProHance (Gadoteridol) Injection, 279.3 mg/mL is indicated for use in MRI in adults to visualize lesions in the head and neck.

IMPORTANT SAFETY INFORMATION for MultiHance and ProHance:

WARNING: NEPHROGENIC SYSTEMIC FIBROSIS

Gadolinium-based contrast agents (GBCAs) increase the risk for NSF among patients with impaired elimination of the drugs. Avoid use of GBCAs in these patients unless the diagnostic information is essential and not available with non-contrasted MRI or other modalities. NSF may result in fatal or debilitating systemic fibrosis affecting the skin, muscle and internal organs.

- The risk for NSF appears highest among patients with:
 - chronic, severe kidney disease (GFR < 30 mL/min/1.73m²), or
 - acute kidney injury.
- Screen patients for acute kidney injury and other conditions that may reduce renal function. For patients at risk for chronically reduced renal function (e.g. age > 60 years, hypertension or diabetes), estimate the glomerular filtration rate (GFR) through laboratory testing.
- For patients at highest risk for NSF, do not exceed the recommended MultiHance/ProHance dose and allow a sufficient period of time for elimination of the drug from the body prior to re-administration. (see **WARNINGS**)

MultiHance (gadobenate dimeglumine) injection, 529 mg/mL

Anaphylactic and anaphylactoid reactions have been reported, involving cardiovascular, respiratory, and/or cutaneous manifestations ranging from mild to severe. The possibility of a reaction should always be considered, especially in those patients with a history of a known clinical hypersensitivity or a history of asthma or other allergic disorders. Trace amounts of gadolinium may remain for months or years in the body organs including bone (highest concentration), brain, liver, spleen, kidneys and skin. Consequences of gadolinium retention in the brain have not been established. Pathologic and clinical consequences of retention in skin and other organs have been established in patients with impaired renal function. Minimize repetitive GBCA imaging studies, particularly close spaced studies when possible.

ProHance (Gadoteridol) Injection, 279.3 mg/mL

As with all paramagnetic agents, caution should be exercised in patients with deoxygenated sickle erythrocytes and renal insufficiency with or without hepatic impairment. The possibility of a reaction, including serious, life threatening, or fatal, anaphylactic or cardiovascular reactions, or other idiosyncratic reactions, should always be considered, especially in those patients with a history of a known clinical hypersensitivity or a history of asthma or other allergic disorders. Trace amounts of gadolinium may remain for months or years in the body organs including bone (highest concentration), brain, liver, spleen, kidneys and skin. Consequences of gadolinium retention in the brain have not been established. Pathologic and clinical consequences of retention in skin and other organs have been established in patients with impaired renal function. Minimize repetitive GBCA imaging studies, particularly close spaced studies when possible.

Please see full Prescribing Information and Patient Medication Guide for additional important safety information for/ regarding MultiHance (gadobenate dimeglumine) injection, 529 mg/mL at <https://www.braccoimaging.com/us-en/products/magnetic-resonance-imaging/multihance>

Please see full Prescribing Information and Patient Medication Guide for additional important safety information for/ regarding ProHance (Gadoteridol) Injection, 279.3 mg/mL at <https://www.braccoimaging.com/us-en/products/magnetic-resonance-imaging/prohance>

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/safety/medwatch/default.htm or call 1-800-FDA-1088.

MultiHance® (gadobenate dimeglumine) is manufactured for Bracco Diagnostics Inc. by BIPSO GmbH – 78224 Singen (Germany) and by Patheon Italia S.p.A., Ferentino, Italy.

ProHance® (Gadoteridol) is manufactured for Bracco Diagnostics Inc. by BIPSO GmbH – 78224 Singen (Germany).

MultiHance is a registered trademark of Bracco International B.V.

ProHance is a registered trademark of Bracco Diagnostics Inc.



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ProHance® (Gadoteridol) Injection, 279.3 mg/mL

At the Forefront of MRI

The ProHance Triad of Benefits provides assurance for patients and referring physicians.

- Minimal Gd retention^{2-5,*}
- No medically confirmed unconfounded NSF cases⁶
- Comparable tolerability to other GBCAs⁷⁻¹³

ProHance introduced the first macrocyclic GBCA in the U.S. with high stability.



(Gadoteridol) Injection, 279.3 mg/mL

STABILITY. SAFETY. EFFICACY.

NSF = nephrogenic systemic fibrosis.

*Based on animal studies exploring gadolinium retention in the brain and kidneys among macrocyclic agents.²⁻⁴

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ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Triad of Benefits

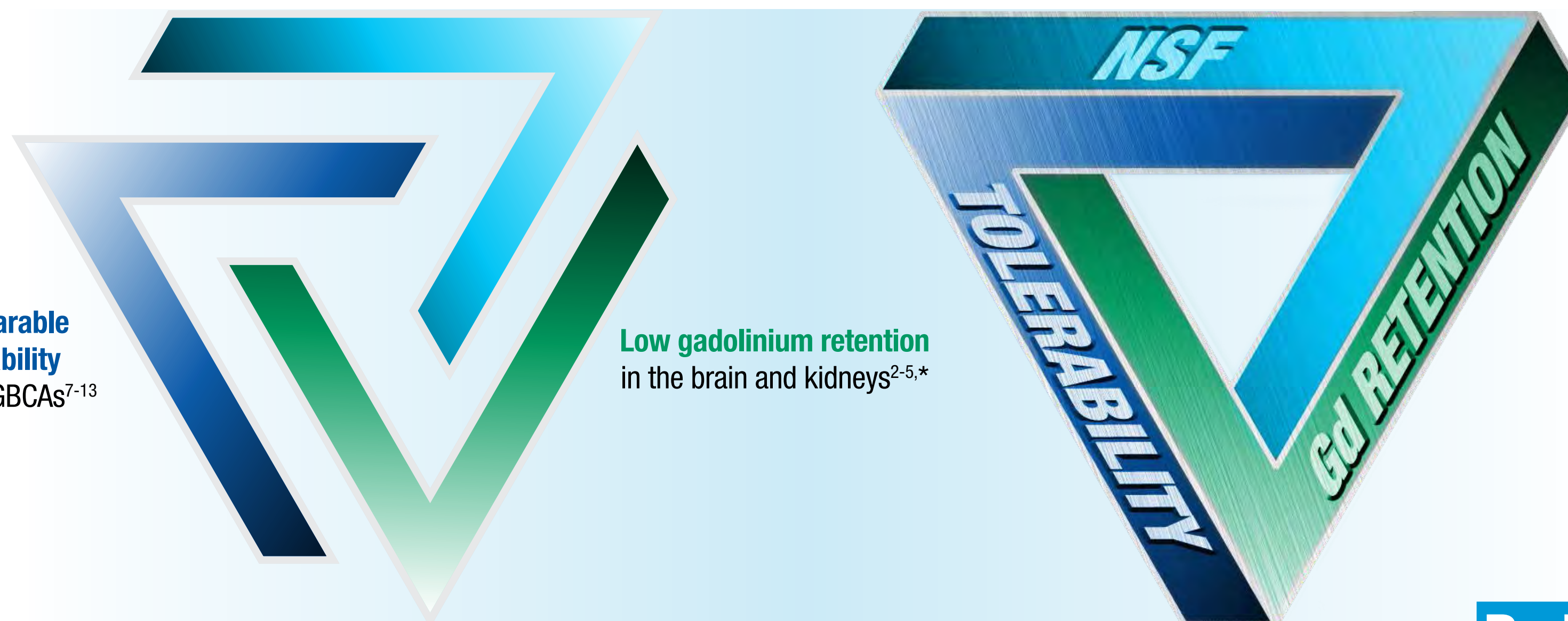
Enhancing diagnostic MRI

The ProHance Triad of Benefits provides assurance for patients and referring physicians in need of a GBCA.

No medically confirmed unconfounded cases of NSF in more than 28 million doses worldwide^{6,14}

Comparable tolerability to other GBCAs⁷⁻¹³

Low gadolinium retention in the brain and kidneys^{2-5,*}



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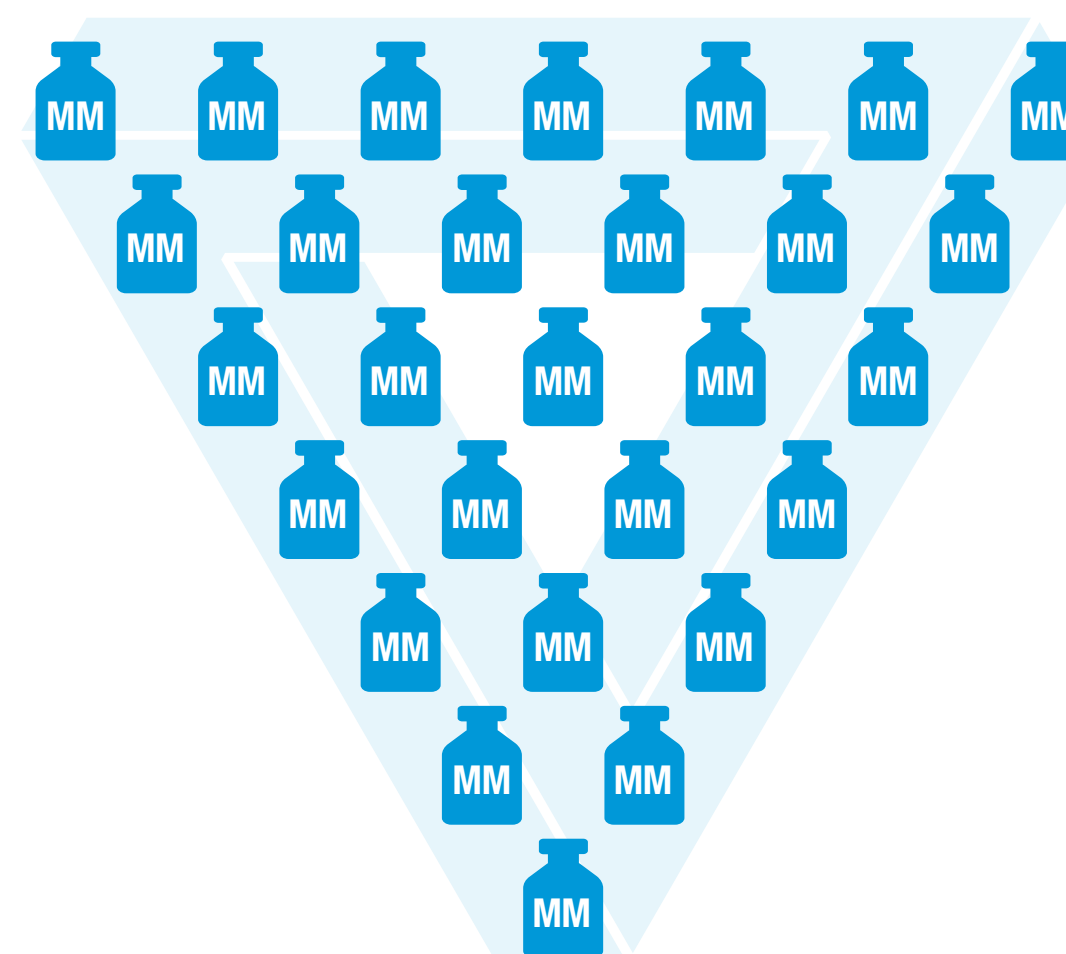
*Based on animal studies exploring gadolinium retention in the brain and kidneys among macrocyclic agents.²⁻⁴

ProHance® (Gadoteridol) Injection, 279.3 mg/mL

No Medically Confirmed Unconfounded NSF Cases⁶ 28 million doses worldwide¹⁴



Among macrocyclic agents, **ProHance has no medically confirmed unconfounded reports of NSF in the literature.**⁶



ProHance is classified as a Group II Agent by the American College of Radiology (ACR)^{15,*} **with greater than 28 million doses administered worldwide.**¹⁴

 = 1 million doses.

To date, the vast majority of NSF cases have been shown to occur following the administration of a standard-relaxivity, linear GBCA, and few medically confirmed unconfounded (single-agent) cases of NSF have been described following use of a macrocyclic agent.¹⁵



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*ACR classifies Group II Agents as those with few, if any, medically confirmed unconfounded cases of NSF.

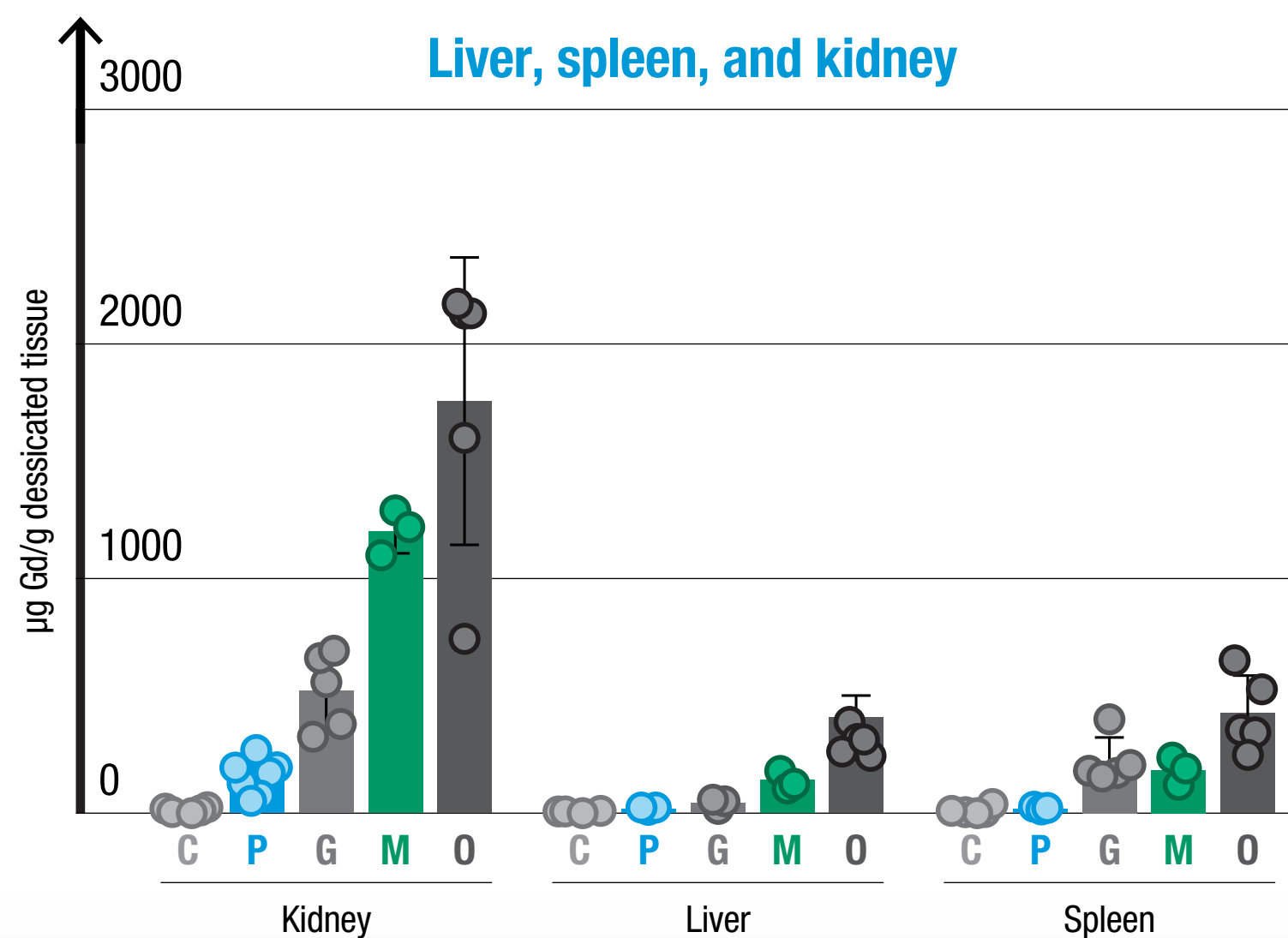
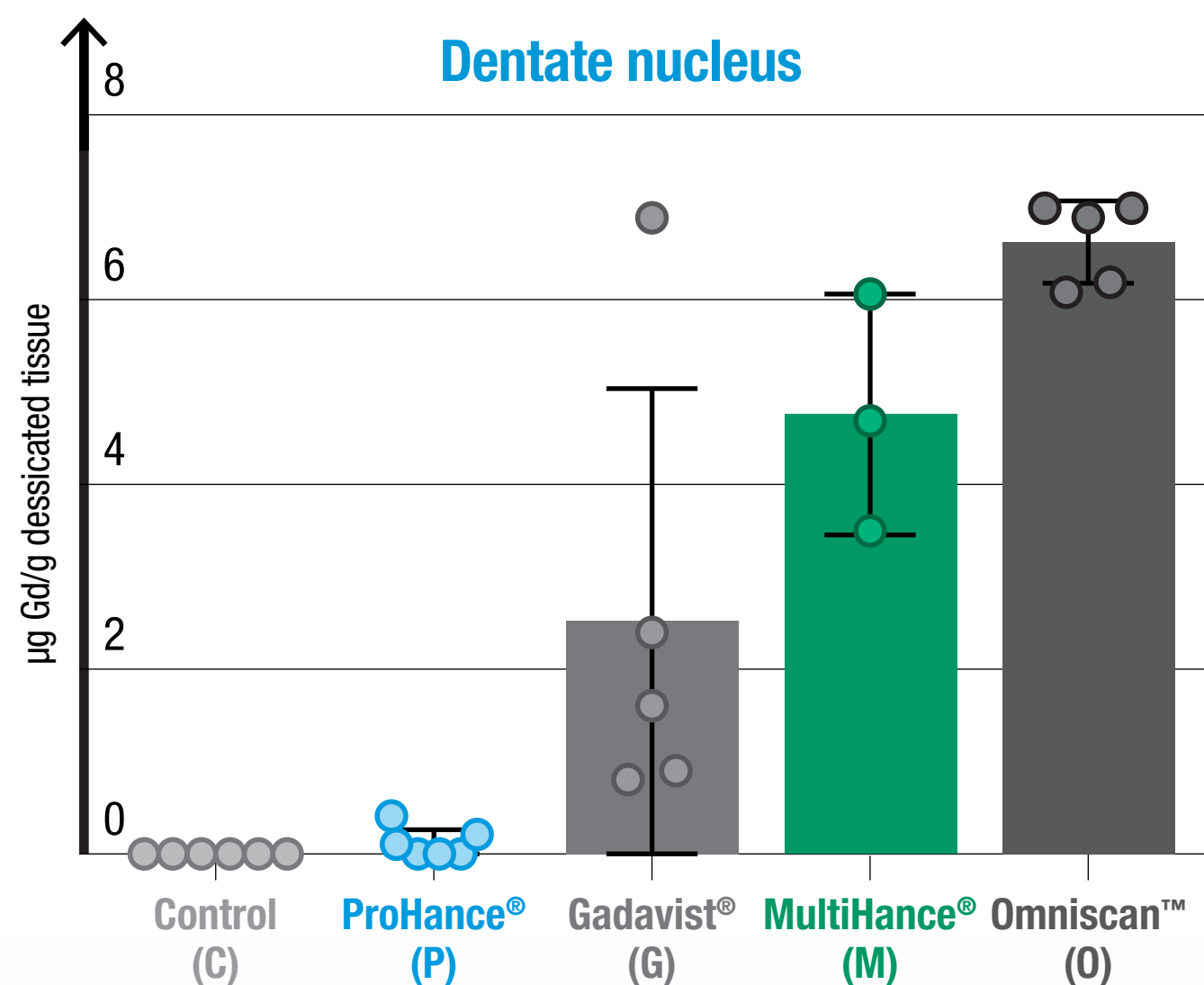
ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Low Gadolinium Retention

Brain, kidney, liver, and spleen²

Data from an animal study, using ICP-MS, indicates...

ProHance demonstrated lower Gd retention at day 7 in the brain, kidney, liver, and spleen.²



“Macrocyclic contrast agent deposition is not universally lower than linear agents, with some macrocyclic agents apparently demonstrating higher tissue gadolinium deposition than what has been previously described in skin biopsy samples and recent reports of T1-weighted signal intensity changes.²”

—McDonald et al. 2017

Adapted from McDonald et al. *Radiology*. 2017²

ICP-MS = inductively coupled plasma mass spectrometry.



(Gadoteridol) Injection, 279.3 mg/mL

STABILITY. SAFETY. EFFICACY.



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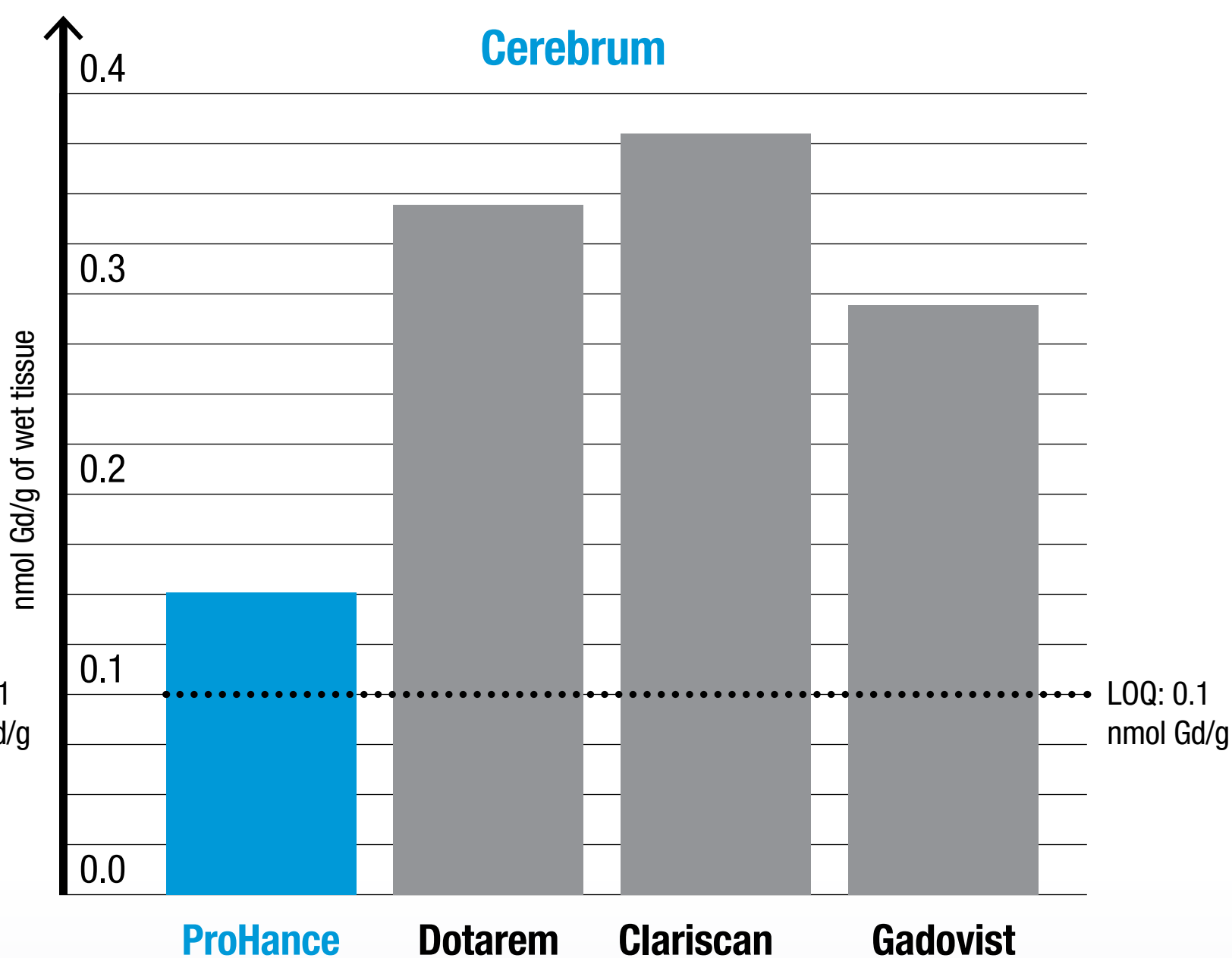
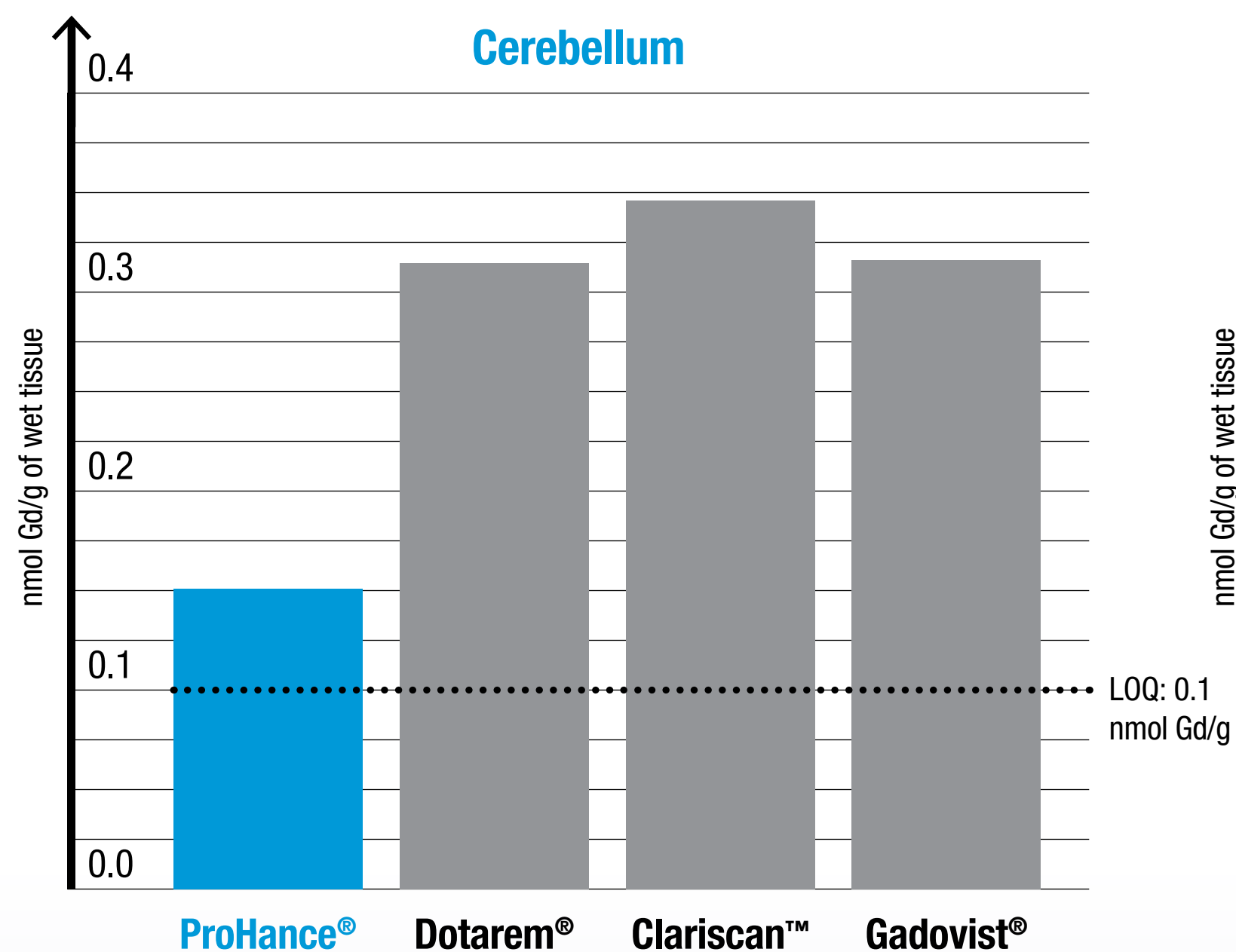
ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Low Gadolinium Retention

Cerebellum and cerebrum^{3,4}

Data from the Bussi animal study, using ICP-MS, indicates...

ProHance outperformed all other macrocyclic agents with lower Gd retention in the brain, kidneys, and liver at up to four weeks.³



Gadolinium retention is seen following the administration of any of the GBCAs but there are differences among linear and macrocyclic agents.^{2-5,16,17}

- Linear agents have greater levels of Gd retention than macrocyclic agents
- Levels of Gd retention can vary among macrocyclic agents

Adapted from Bussi et al. *Insights into Imaging*. 2020.

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ICP-MS=inductively coupled plasma mass spectrometry; LOQ=limit of quantitation. Gadovist is the brand name in Europe for Gadavist® (Gadobutrol).



(Gadoteridol) Injection, 279.3 mg/mL

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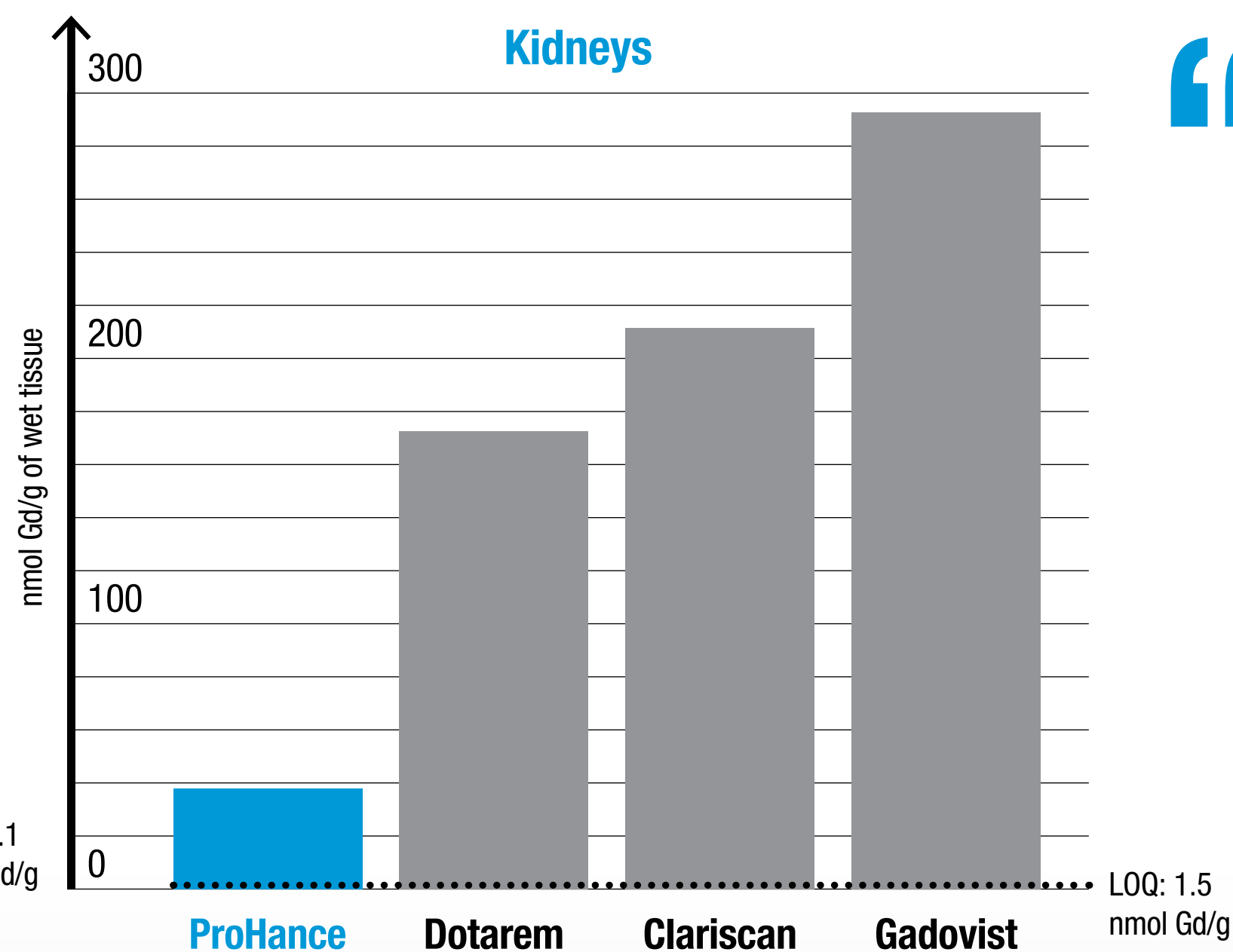
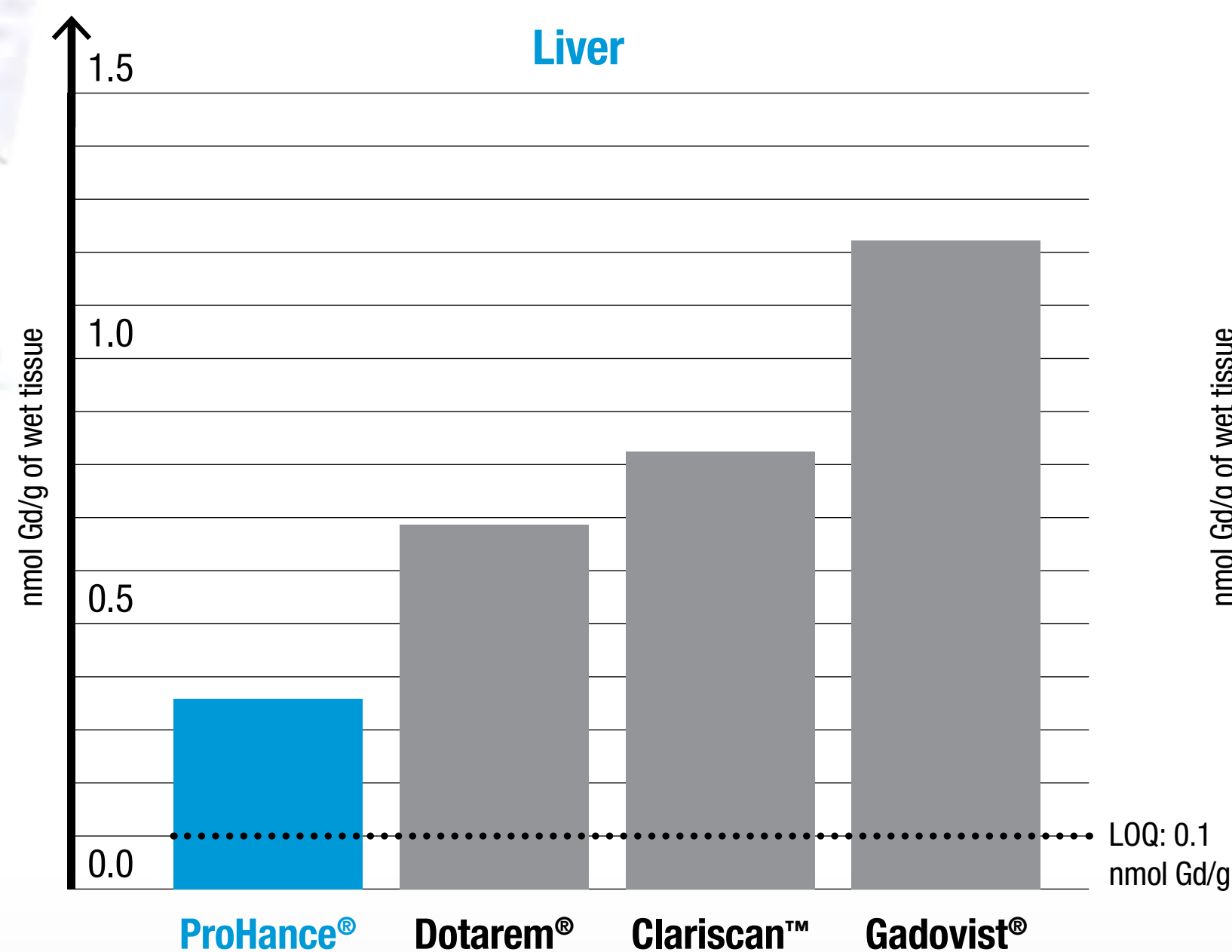
ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Low Gadolinium Retention

Liver and kidneys^{3,4}

Data from the Bussi animal study, using ICP-MS, indicates...

ProHance outperformed all other macrocyclic agents with lower Gd retention in the brain, kidneys, and liver at up to four weeks.³



“ [ProHance] has a low molecular weight and other properties that would favor fewer interactions with the surrounding matrix and thus more rapid diffusion and clearance than is the case with [Gadovist] and [Dotarem].³ ”

—Bussi et al. 2020



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Adapted from Bussi et al. *Insights into Imaging*. 2020.

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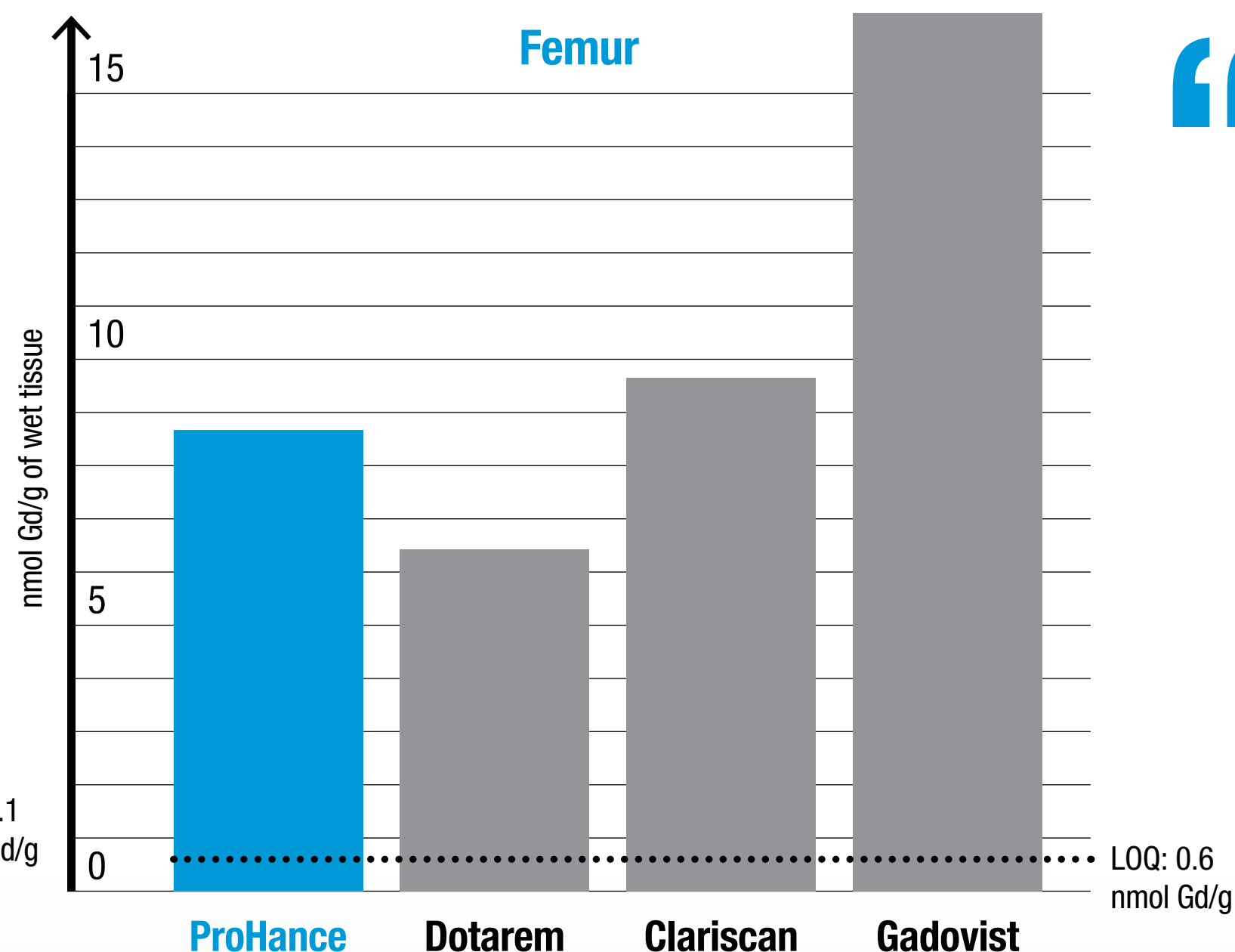
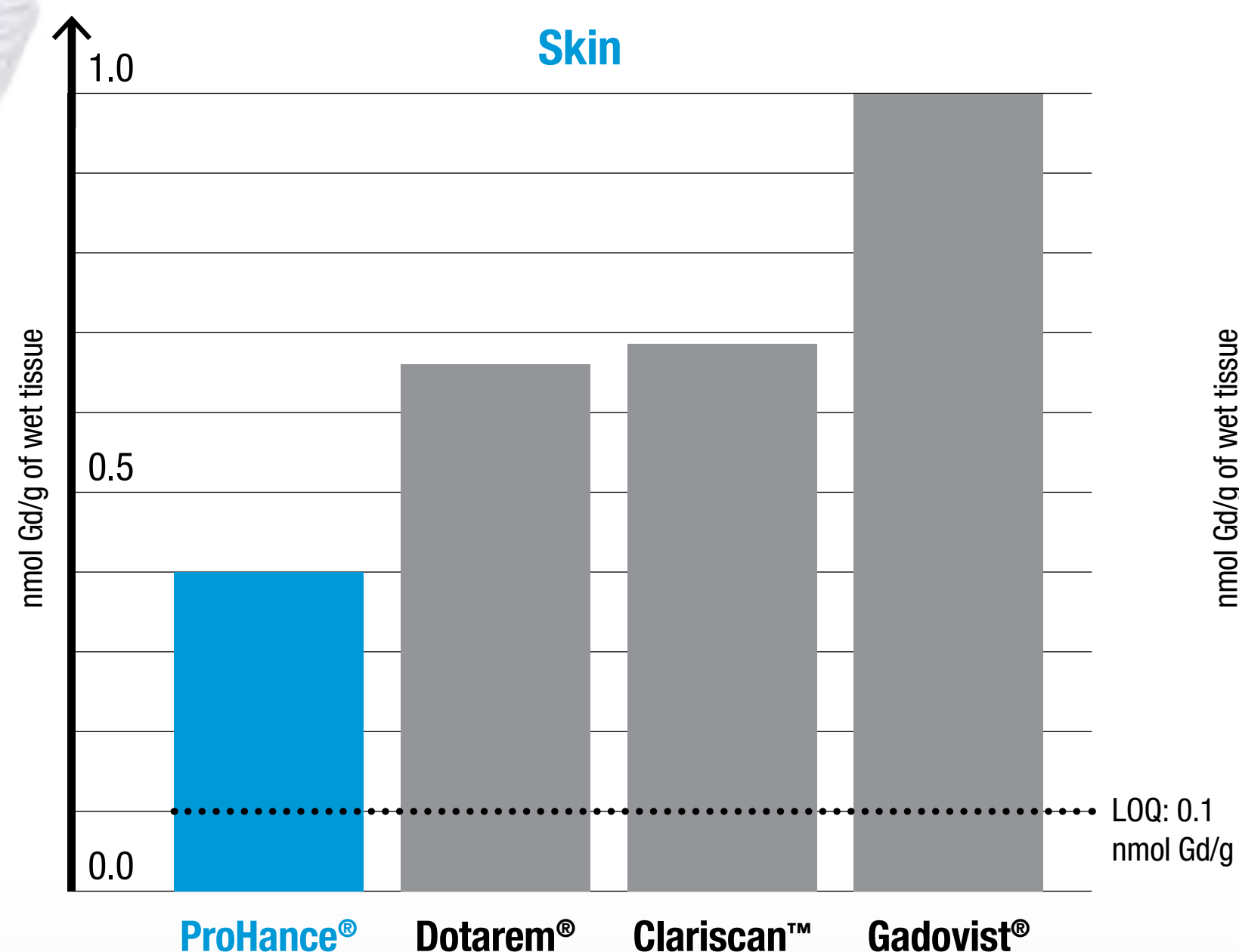
ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Low Gadolinium Retention

Skin and bone^{3,4}

Data from the Bussi animal study, using ICP-MS, indicates...

ProHance outperformed all other macrocyclic agents with lower Gd retention in the brain, kidneys, liver, and skin and was among the lowest in bone at up to four weeks.³



“ Considerably lower levels of retained Gd in brain and soft body tissues... after the administration of ProHance... than after equivalent cumulative doses of not only Dotarem and Gadovist but also the newly marketed GBCA, Clariscan administered under identical conditions.³ ”

—Bussi et al. 2020

Adapted from Bussi et al. *Insights into Imaging*. 2020.

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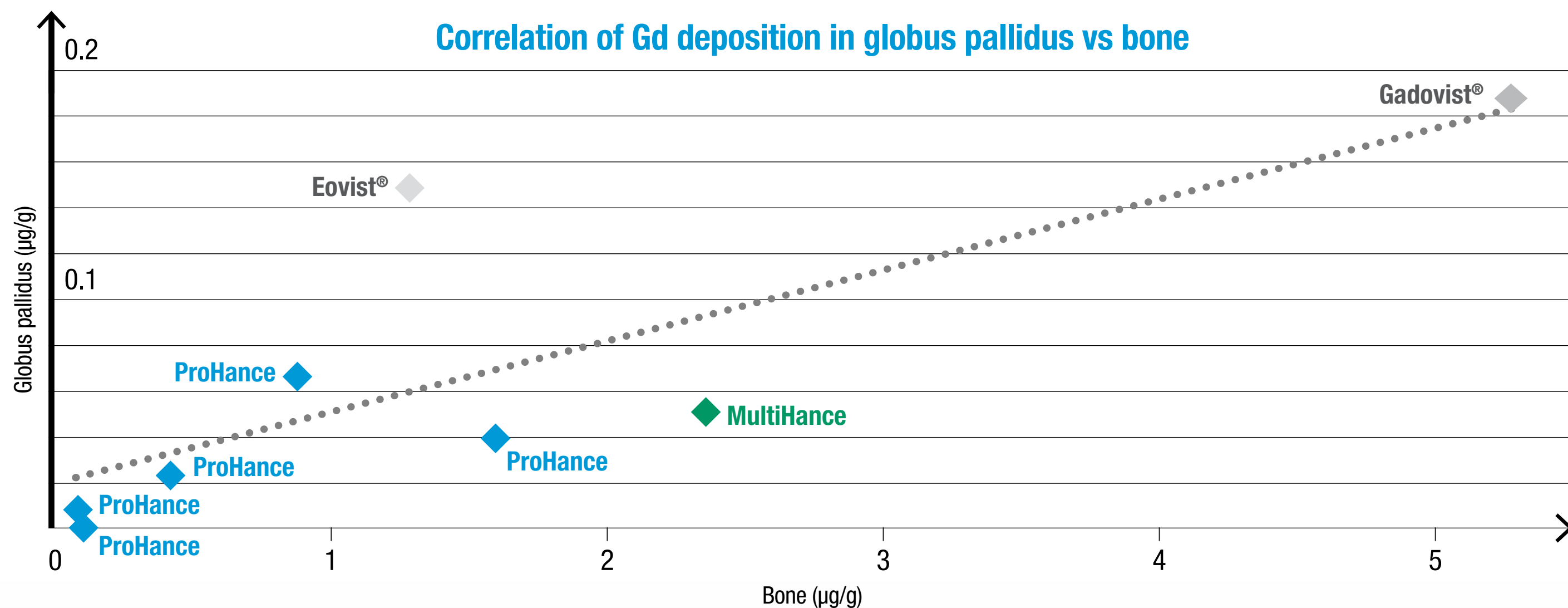
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ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Low Gadolinium Retention

Postmortem human brain⁵

Human data from a small-scale tissue sampling study using ICP-MS indicates that...
ProHance administration results in low residual gadolinium in the brain⁵



Adapted from Murata N, et al. *Invest Radiol.* 2016⁵

“Residual gadolinium has been found within the brain tissue of patients who received multiple doses of GBCAs over their lifetimes... Fortunately, there have been no reports to date to suggest these deposits are associated with histologic changes that would suggest neurotoxicity.¹⁵”

—ACR: 2018 position statement on GBCAs



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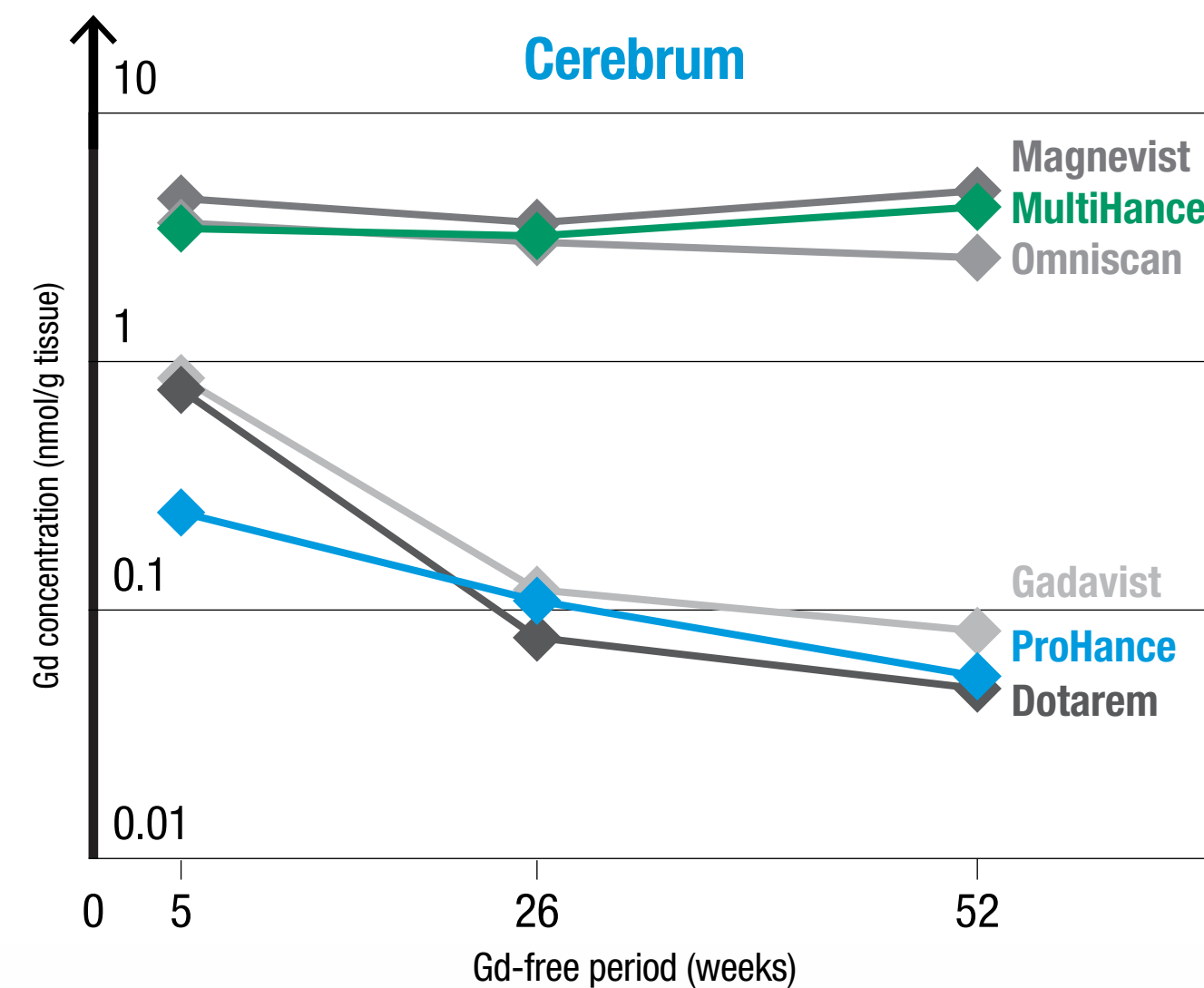
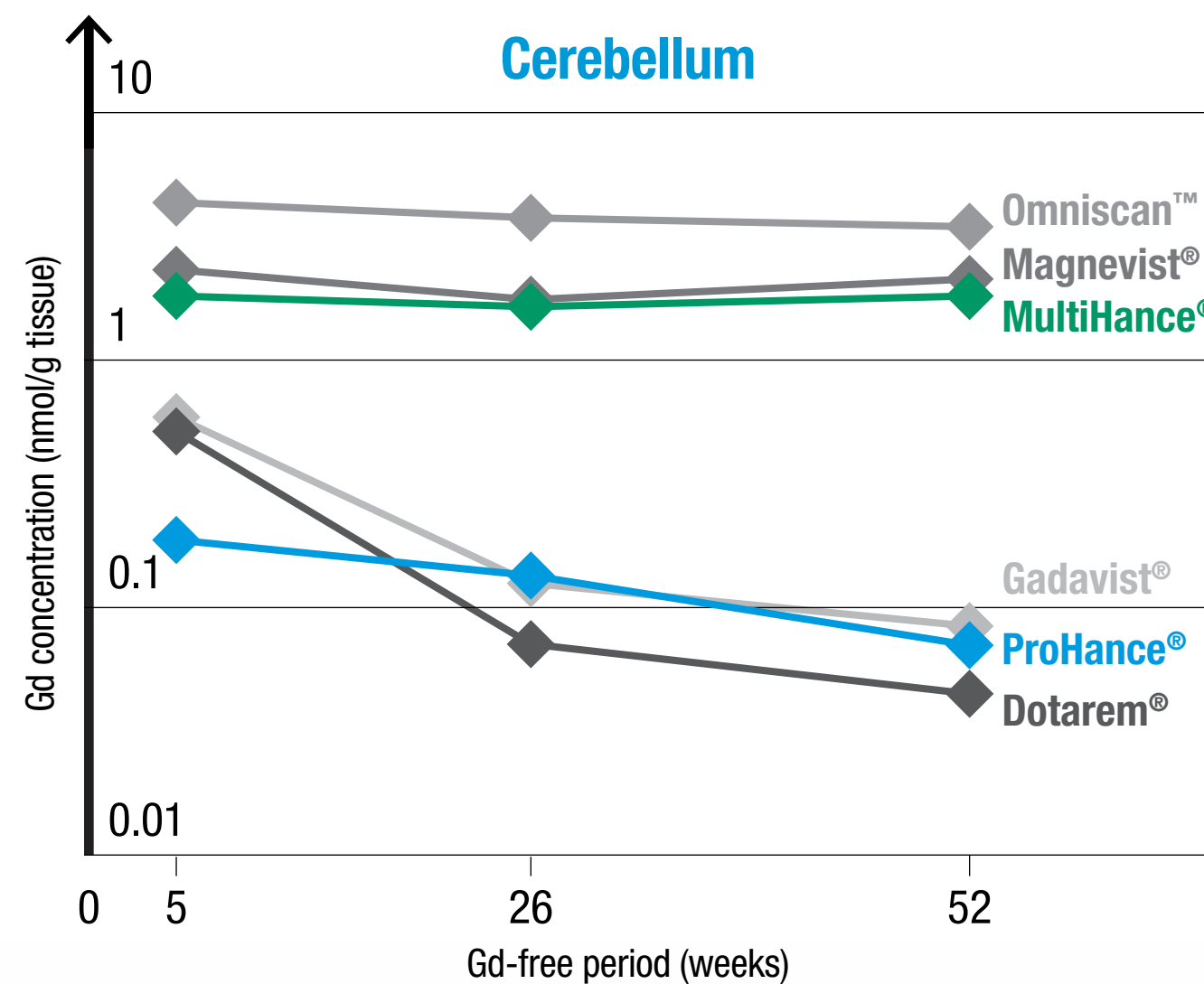
ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Rapid Gadolinium Clearance

Cerebellum and cerebrum¹⁸

Data from an extensive animal study, using ICP-MS, indicates...

Faster and greater elimination of ProHance at early timepoint (5 weeks) after last injection compared to all other macrocyclic GBCAs.¹⁸



“Gadolinium retention has not been directly linked to adverse health effects in patients with normal kidney function, and we have concluded that the benefit of all approved GBCAs continues to outweigh any potential risks.¹⁹”

—FDA: 2018 position on gadolinium retention

Adapted from Jost G, et al. *Radiology*. 2018¹⁸

ICP-MS = inductively coupled plasma mass spectrometry.



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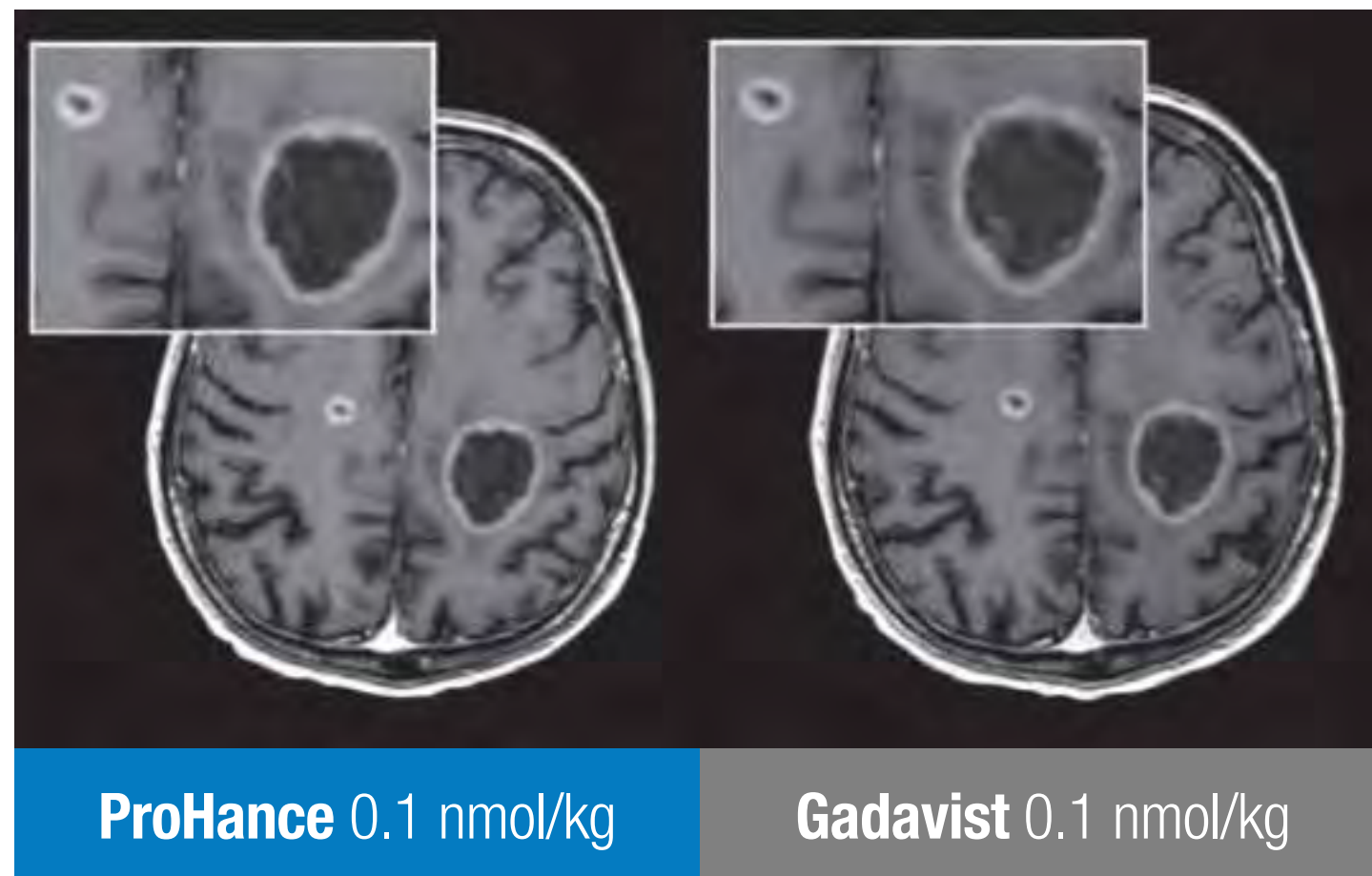
ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Proven Efficacy

Performances of Gadavist® and ProHance for visualization parameters are similar^{10,20}

Detection and characterization of CNS lesions with ProHance (gadoteridol) was non-significantly different when compared to Gadavist (gadobutrol)...

Minimal differences in relaxivity between ProHance and Gadavist do not demonstrate clinical differences in routine neuroradiological applications of CNS MRI.^{10,20}



61-year-old man with brain metastases from primary lung cancer. Two lesions clearly seen in both exams show no differences in contrast enhancement or in the morphology of lesions.²⁰

Adapted from Maravilla KR, et al. *AJNR Am J Neuroradiol.* 2015²⁰



51-year-old woman with glioblastoma multiforme. Rim-enhancing mass in right thalamus with extension into the posterior interhemispheric region is clearly seen in both examinations. No differences in contrast enhancement or in the morphology of lesions are apparent.²⁰

The TRUTH study showed no significant difference by any reader for any of the 5 endpoints:²⁰

- Global diagnostic preference
- Lesion border delineation
- Definition of disease extent
- Visualization of lesion internal morphology
- Lesion contrast enhancement



(Gadoteridol) Injection, 279.3 mg/mL

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These are representative images from reference studies, individual results may vary.

ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Tolerability of ProHance

Triple dose approved⁷

ProHance is well tolerated, with low overall rates of adverse events in controlled clinical studies occurring in < 1.5% of patients.^{7,12,13}

Contrast Agent*	No. of Patients	Headache (%)	Nausea (%)	Taste Perversion (%)	Rash (%)
ProHance⁷	1,251	<1.0	1.4	1.4	<1.0
Dotarem ^{®9}	2,867	0.4	0.6	<0.2	0.2
Gadavist ^{®10}	6,809	1.5	1.1	0.4	0.3

ProHance:
**The only agent still
 FDA approved for
 triple dosing⁷**

Safe for use in children (> 2 years of age) and those with renal insufficiency⁷

- Indicated for use in MRI in children (> 2 years of age) to visualize lesions with abnormal vascularity in the brain (intracranial lesions), spine, and associated tissue

*Clinical trials are conducted under widely varying conditions, and thus adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.



(Gadoteridol) Injection, 279.3 mg/mL

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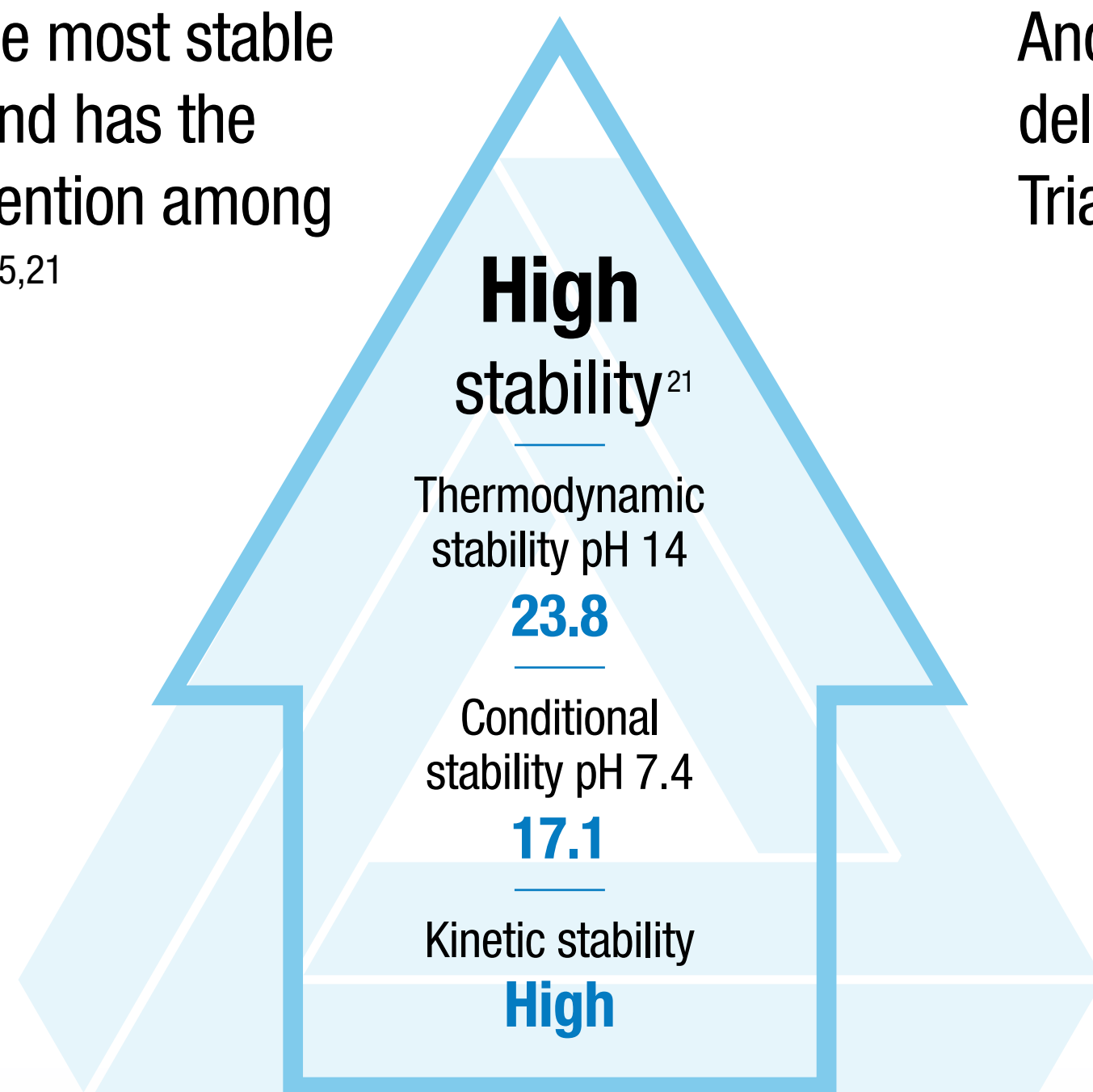
MR Suite

ProHance® (Gadoteridol) Injection, 279.3 mg/mL

High-Stability Macrocyclic GBCA

Not all macrocyclic GBCAs are created equal

ProHance is one of the most stable macrocyclic GBCAs and has the lowest gadolinium retention among macrocyclic agents.^{2-5,21}



And only ProHance delivers the Triad of Benefits:

No medically confirmed unconfounded cases of NSF in more than 28 million doses worldwide^{6,14}



Comparable tolerability to other GBCAs⁷⁻¹³

Low gadolinium retention in the brain and kidneys^{2-5,*}



(Gadoteridol) Injection, 279.3 mg/mL

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MultiHance® (gadobenate dimeglumine) injection, 529 mg/mL and ProHance® (Gadoteridol) Injection, 279.3 mg/mL

Indications and Usage for MultiHance® (gadobenate dimeglumine) injection, 529 mg/mL:

MultiHance (gadobenate dimeglumine) injection, 529 mg/mL is a gadolinium-based contrast agent indicated for intravenous use in:

- Magnetic resonance imaging (MRI) of the central nervous system (CNS) in adults and pediatric patients (including term neonates) to visualize lesions with abnormal blood-brain barrier or abnormal vascularity of the brain, spine, and associated tissues and
- Magnetic resonance angiography (MRA) to evaluate adults with known or suspected renal or aorto-ilio-femoral occlusive vascular disease

Indications and Usage for ProHance® (Gadoteridol) Injection, 279.3 mg/mL:

CENTRAL NERVOUS SYSTEM

ProHance (Gadoteridol) Injection, 279.3 mg/mL is indicated for use in MRI in adults and children over 2 years of age to visualize lesions with abnormal vascularity in the brain (intracranial lesions), spine, and associated tissues.

EXTRACRANIAL/EXTRASPINAL TISSUES

ProHance (Gadoteridol) Injection, 279.3 mg/mL is indicated for use in MRI in adults to visualize lesions in the head and neck.

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 - acute kidney injury.
- Screen patients for acute kidney injury and other conditions that may reduce renal function. For patients at risk for chronically reduced renal function (e.g. age > 60 years, hypertension or diabetes), estimate the glomerular filtration rate (GFR) through laboratory testing.
- For patients at highest risk for NSF, do not exceed the recommended MultiHance/ProHance dose and allow a sufficient period of time for elimination of the drug from the body prior to re-administration. (see **WARNINGS**)

MultiHance (gadobenate dimeglumine) injection, 529 mg/mL

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You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/safety/medwatch/default.htm or call 1-800-FDA-1088.

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ProHance is a registered trademark of Bracco Diagnostics Inc.

All other trademarks and registered trademarks are the property of their respective owners.



ProHance® (Gadoteridol) Injection, 279.3 mg/mL

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