



Information Quality Coordinator
U.S. Nuclear Regulatory Commission
TWFN-6B29
Washington, DC 20555

Delivered on June 2, 2022 via email to info.quality@nrc.gov

To Whom it May Concern:

I am writing today, on behalf of myself, thousands of patients represented by the Patients for Safer Nuclear Medicine Coalition, and the 620 individual signatories, to respectfully request that the Nuclear Regulatory Commission (NRC) correct inaccurate information that was published in the Federal Register on May 14, 1980 regarding nuclear medicine extravasations. While the incorrect information was published more than 40 years ago, it has been recently questioned since it is relied upon as an official government policy.¹ Additionally, this information that was adopted in 1980 by the Commission has been endorsed and used to support a Commission position since October 1, 2002, that affects thousands of licensees, even when evidence has been presented that the information is incorrect. Furthermore, the effects of this incorrect information and its impact to Commission policy have a clear and substantial impact every day by patients who undergo nuclear medicine treatments with inadequate oversight by the NRC. For that reason, it is urgent that the NRC consider and grant this request to protect patients from unnecessary radiation exposure. This request, submitted in accordance with the NRC's Information Quality Guidelines, seeks to correct the longstanding falsehood that nuclear medicine extravasations are "virtually impossible to avoid."

Information that is in Error and Requires Correction

During rulemaking on misadministration of nuclear medicine injections in 1980, the NRC stated that extravasations are "virtually impossible to avoid."² As a result, the NRC exempted all extravasations from medical event reporting requirements, regardless of the resulting radiation dose that was misadministered to the patient. The substance of this information is inaccurate. We now know that extravasations are avoidable.³ For example, a recent study demonstrated that the use of quality improvement methodologies can result in a statistically significant reduction in the rate of nuclear medicine extravasations.⁴ Additionally, medical professionals have drastically lowered the rate of other types of extravasation using quality control programs. As a result, extravasation rates for contrast media are as low as 0.24% of injections,⁵ compared to nuclear medicine extravasation rates that can be as high as 16% of injections.⁶ This data demonstrates that extravasations are, in fact, avoidable – making the NRC's 1980 statements inaccurate and in need of correction.

¹ Petition for Rulemaking PRM-35-22, available at: <https://www.regulations.gov/document/NRC-2020-0141-0001>.

² 45 Fed. Reg. 31701 (1980).

³ See Association for Vascular Access comments in response to PRM-35-22, at: <https://www.nrc.gov/docs/ML2101/ML21019A332.pdf>.

⁴ T. Z. Wong, et al., Quality Improvement Initiatives to Assess and Improve PET/CT Injection Infiltration Rates at Multiple Centers, 47 J. Nuclear Med. Tech. 326–331 (2019).

⁵ S. Shigematsu, et al. Practical Preventive Strategies for Extravasation of Contrast Media During CT: What the Radiology Team Should Do. Academic Radiology, in press, at: <https://www.sciencedirect.com/science/article/abs/pii/S1076633222000563#!>; T. M. Dykes, M. Bhargavan-Chatfield M & R.B. Dyer. Intravenous contrast extravasation during CT: a national data registry and practice quality improvement initiative. 12 J. Am. Coll. Radiology 183- 191 (2015); C.L.Wang, et al. Frequency, Management, and Outcome of Extravasation of Nonionic Iodinated Contrast Medium in 69,657 Intravenous Injections, 243 Radiology 80-87 (2007).

⁶ T. Z. Wong, et al., Quality Improvement Initiatives to Assess and Improve PET/CT Injection Infiltration Rates at Multiple Centers, 47 J. Nuclear Med. Tech. 326–331 (2019).



Recommended Correction to Incorrect Information

NRC should immediately issue a notice of interpretation in the *Federal Register* stating: 1) the statement that extravasations are “virtually impossible to avoid” is factually inaccurate; 2) as a result, the underlying rationale for exempting extravasations from reporting criteria is unjustified; and 3) the NRC should immediately modify 10 C.F.R. § 35.2 and 10 C.F.R. § 35.3045 to require reporting of extravasations resulting in a localized dose equivalent exceeding 0.5 Sv. These steps will eliminate the effect of the incorrect information published in 1980 and put NRC on the path to issuing evidence-based policies that protect patients.

Effect of the Incorrect Information

The incorrect information contained at 45 *Fed. Reg.* 31701 (1980) affects hundreds of thousands of patients like me every year. Extravasations harm patients in several ways. First, extravasations expose patients to unnecessary ionizing radiation when a radiopharmaceutical is injected into a patient’s healthy tissue. The higher the dose, the more likely it is that a patient will suffer some kind of physical harm; however, under current NRC rules, there is no obligation for providers to characterize or report the type of exposure that has occurred, even when these exposures grossly exceed existing dose thresholds for the reporting of other medical events. Patients are also negatively affected in other ways. As the NRC itself noted in 1980, “[t]he significance of a diagnostic misadministration goes beyond the unnecessary radiation exposure if it results in misdiagnosis.”⁷ Patients that are extravasated do not get the full benefit of the radiopharmaceutical that is injected, which can lead to misdiagnosis, inaccurate cancer staging, or choosing the wrong treatment.⁸ During therapeutic treatments, extravasations can negatively affect the lymphatic system and unprotected organs and result in delayed delivery of therapeutic doses to intended targets.

Because extravasations are exempt from reporting requirements based on incorrect information in the *Federal Register*, patients are kept in the dark about their care and the NRC doesn’t have the information it needs to keep future patients safe. Without a requirement to report significant extravasations to the NRC, nuclear medicine providers have little incentive to lower their extravasation rates even though nuclear medicine extravasations are avoidable. Correcting this inaccurate information will eliminate a falsehood that has left patients vulnerable to unnecessary radiation exposure for more than 40 years.

Thank you for your consideration.

Sincerely,

Mary Farrell Ajango

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Young Survival Coalition on behalf of the Patients for Safer Nuclear Medicine Coalition

⁷ 45 *Fed. Reg.* 31702 (1980).

⁸ D. Osborne, et al. The Scientific and Clinical Case for Reviewing Diagnostic Radiopharmaceutical Extravasation Long-Standing Assumptions. *Front. Med.* (2021), at: <https://www.frontiersin.org/articles/10.3389/fmed.2021.684157/full>.

	First Name	Last Name	City	State
1	Emily	Abernathy	Matthews	North Carolina
2	Jane	Abernathy	charlotte	North Carolina
3	Carol	Adams	Doylestown	Pennsylvania
4	Heidi	Adams	Brentwood	Tennessee
5	Karen	Adams	Birmingham	Alabama
6	Samantha	Adcock	San Antonio	Texas
7	Heather	Addy	Boone	Iowa
8	Kristina	Agee	Dallas	Texas
9	Craig	Ajango	Carmel	Indiana
10	Mary	Ajango	Carmel	Indiana
11	Adrienne	Alanis	Azusa	California
12	Helen	Alberse	Morrisville	North Carolina
13	Michell	Aldas	West Palm Beach	Florida
14	Bruce	Allred	Tucson	Arizona
15	Sharon	Allred	Tucson	Arizona
16	Olivia	Amestoy	Seattle	Washington
17	Jen	Anand	Norwood	Massachusetts
18	Laura	Anderson	Norwood	New Jersey
19	Tallulah	Anderson	Bowie	Maryland
20	Debra	Anderson	Framingham	Massachusetts
21	Laura	Armour	Newton	Massachusetts
22	Ellen	Armstrong	Boca Raton	Florida
23	Mark	Artibee	Aurora	Colorado
24	Natalie	Artibee	Aurora	Colorado
25	Kristina	Auth	gordonsville	Virginia
26	Jean	Baker	Grand Junction	Colorado
27	Hernan	Barangan	Los Angeles	California
28	Alexis	Barks	San Luis Obispo	California
29	John	Barnes	Carmel	Indiana
30	Connie	Barnes	Morrisville	North Carolina
31	Nubia	Barraza	Glendale	Arizona
32	Alexandra	Barron	Auburn	Alabama
33	Austin	Barron	Auburn	Alabama
34	Christina	Barron	Auburn	Alabama
35	Shane	Barron	Auburn	Alabama
36	Christy	Batts	Raleigh	North Carolina
37	Kamran	Baygani	Westfield	Indiana
38	Susana	Bee	Houston	Texas
39	Cassandra	Beisel	Alexandria	Virginia
40	Erika	Bell	San Francisco	California
41	Melinda	Benefiel	Peoria	Arizona
42	Yolanda	Bermudez	Pomona	California
43	Fernando	Bernardez	Los Angeles	California
44	Mary-Clare	Bietila	Chicago	Illinois
45	Rachael	Bikbov	Lynnwood	Washington
46	Georgia	Blake	Arlington	Virginia

	First Name	Last Name	City	State
47	Heather	Blasko	Highland	Michigan
48	Rebecca	Block	Portland	Oregon
49	Shelby	Blondell	Linthicum	Maryland
50	Natasha	Bolick	Raleigh	North Carolina
51	Cristin	Bosko	Howell	New Jersey
52	James	Bostian	Morrisville	North Carolina
53	Louisa	Bound	Durham	North Carolina
54	Carl	Bouthillette	Bulverde	Texas
55	Christine	Brady	Cape Coral	Florida
56	Kelly	Braun	Rochester hills	Michigan
57	Veronica	Brotos	Altadena	California
58	Patrick	Brownell	Chatsworth	Georgia
59	ben	broyles	coral gables	Florida
60	Tonia	Bryant	Cary	North Carolina
61	Mindy	Buchanan	Gladstone	Oregon
62	Lisa Davis	Budzinski	Eustis	Florida
63	Lori	Bunton	Durham	North Carolina
64	Julianne	Burk	Fresno	California
65	Sheree	Burns	Macomb	Michigan
66	Jessica	Busse	Tiffin	Iowa
67	Yuri	C	Oakland	California
68	Keyla	Caba	Lawrenve	Massachusetts
69	Laura	Calascione-Nguyen	Kinnelon	New Jersey
70	Sarah	Caley	Durham	North Carolina
71	Bob	Callaway	Holly Springs	North Carolina
72	Gina	Callaway	Holly Springs	North Carolina
73	John	Cambier	Durham	North Carolina
74	Elizabeth	Campbell	Waltham	Massachusetts
75	Leah	Campbell	Mustang	Oklahoma
76	Randall	Canady	Cary	North Carolina
77	yang	Cao	cary	North Carolina
78	Jessica	Capaldi	Montrose	California
79	Yuri	Cárdenas	Oakland	California
80	Laura	Carfang	Boston	Massachusetts
81	Peter	Carlino	Charlotte	North Carolina
82	Jill	Casey	Lisle	Illinois
83	Mallory	Casperson	Berkeley	California
84	Chris	Cavanaugh	Fort Myers	Florida
85	Jae	Cecilio	San Jose	California
86	Brenda	Chang	Bloomington	Minnesota
87	Angelina	Chen	Cary	North Carolina
88	Wendy	Christie	Beverly Hills	Michigan
89	Karina	Churilov	ALPHARETTA	Georgia
90	Kim	Cochrane	Encinitas	California
91	Joseph	Colarusso	Encinitas	California
92	Kathy	Colarusso	Encinitas	California

These 620 individuals request that the NRC correct inaccurate information that was published in the Federal Register on May 14, 1980 regarding nuclear medicine extravasations

	First Name	Last Name	City	State
93	Lorena	Colcer	Portland	Oregon
94	Coleen	Cole	Glen Cove	New York
95	Evamarie	Cole	Ozone Park	New York
96	Isabel	Collazo	Chicago	Illinois
97	Catherine	Collins	Miami Lakes	Florida
98	Thomas	Considine	Highland Park	Illinois
99	Caroline	Corum	Arlington	Virginia
100	Julie	Cottrill	Salem	West Virginia
101	Jean	Cozier	Chicago	Illinois
102	Lauren	Creel	Bend	Oregon
103	Chris	Crisman	Ponte Vedra Beach	Florida
104	KAREN	CROW	CARY	North Carolina
105	Michael	Crow	Cary	North Carolina
106	Renae	Crow	Columbia	Missouri
107	Susanne	Daniel	Mobile	Alabama
108	Ikhlas	Darkhalil	Leander	Texas
109	Heather	Davenport	Thompson's Station	Tennessee
110	Brianpolis	Davidson	Indianapolis	Indiana
111	Elizabeth	Davidson	Carmel	Indiana
112	Simon	Davies	Los Angeles	California
113	Elizabeth	Davis	Katy	Texas
114	Lisa	Davis	Ben Wheeler	Texas
115	Eva	Dawson	Egg Harbor Township	New Jersey
116	April	Debuysere	Schertz	Texas
117	Angela	Deeds	Forest	Virginia
118	Tammie	Denyse	Sacramento	California
119	Patrick	DePeters	Culver City	California
120	Roberta	Deutsch	New Bruanfels	Texas
121	Phyliss	DiLorenzo	Jersey City	New Jersey
122	Juline	DiSilvestro	Gibbstown	New Jersey
123	Jessica	Dobbs	Portland	Oregon
124	Michael	Dobbs	King city	Oregon
125	Mary Lynn	Donovan	Ann Arbor	Michigan
126	Taylor	Donovan	Stonington	Connecticut
127	Brenna	Dooley	Carpentersville	Illinois
128	Elizabeth	Dunn	Vincennes	Indiana
129	Jennifer	Dunne	Villa Park	California
130	NORMAN	DUNNE	VILLA PARK	California
131	Taylor	Duvall	Ellicott City	Maryland
132	Amy	Ecker	Wayne	New Jersey
133	Rachel	Edmiston	Raleigh	North Carolina
134	Janice	Elliott	Waterville	New York
135	Reham	Emad	Cairo	Texas
136	Dan	Entwistle	Thomasville	North Carolina
137	Alan	Etkin	Cary	North Carolina
138	Ricki	Fairley	Annapolis	Maryland

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	First Name	Last Name	City	State
139	Bonnie	Farrell	Muncie	Indiana
140	Cole	Farrell	Indianapolis	Indiana
141	Melissa	Fasnacht	Mankato	Minnesota
142	Daniel	Fass	NEW YORK	New York
143	James	Featherstone	Richmond	Virginia
144	Chelsea	Feiler-Dorman	Ladera Ranch	California
145	Tamika	Felder	Marlboro	Maryland
146	Kelsey	Feng	Riverside	California
147	Iyesha	Ferguson	Sacramento	California
148	Amanda	Ferraro	Manalapan	New Jersey
149	CarmenRose	Fiallo	Portland	Oregon
150	Colin	Fleming	Cary	North Carolina
151	Kathryn	Ford	Foley	Alabama
152	EMILY	FORT	Reston	Virginia
153	Leslie	Frank	Springfield	Virginia
154	Joseph	French	Avon	Indiana
155	Monique	French	Avon	Indiana
156	Laura	Friberg	Woburn	Massachusetts
157	Lily	Fuentez	Portland	Oregon
158	Frank	Funaro	New York	New York
159	Jason	Gallaway	Kaufman	Texas
160	Hilary	Gan	Los Angeles	California
161	Raquel	Garcia	San Antonio	Texas
162	Paula	Garcia de Quevedo	Nashville	Tennessee
163	Amy	Gardinier	Holly Springs	North Carolina
164	Blake	Garner	Alpharetta	Georgia
165	Collin	Garner	Atlanta	Georgia
166	Drew	Garner	Roswell	Georgia
167	Karen	Garner	Roswell	Georgia
168	Lisa	Garr	Rochester Hills	Michigan
169	Ronnie	Gasque	Murrells inlet	South Carolina
170	Cristina	Gatmaitan	San Antonio	Texas
171	Olivia	Gauthier	Arlington Heights	Illinois
172	Jacqueline	Gentry	Millsboro	Delaware
173	Eddie	George	High Point	North Carolina
174	Jennifer	George	Morrisville	North Carolina
175	Troy	George	Morrisville	New York
176	Melissa	Geraghty	Batavia	Illinois
177	Yannick	Gerard	Cary	North Carolina
178	Naomi	German	Carmel	Indiana
179	Nicholas	Giallourakis	Shaker Heights	Ohio
180	Nick	Giallourakis Jr	Avon Lake	Ohio
181	Amy	Gietzen	West Seneca	New York
182	Venus	Gines	Pearland	Texas
183	Lori	Ginsberg	Morrisville	North Carolina
184	Talia	Ginsberg	Morrisville	North Carolina

	First Name	Last Name	City	State
185	Jeanette	Girard	Fenton	Michigan
186	Connie	Girgenti	Cape Coral	Florida
187	Anson	Goldade	Bristol	Wisconsin
188	Brenda	Goldade	Bristol	Wisconsin
189	Donald	Goldade	Lone Rock	Wisconsin
190	Judith	Goldade	Lone Rock	Wisconsin
191	Brian	Goldstein	Hillsborough	North Carolina
192	Mary	Goldstein	Berkeley	California
193	Robin	Gols	Chicago	Illinois
194	Breanna	Gonzales	Oxnard	California
195	Miranda	Gonzales	Pasadena	Texas
196	Blanca	Gonzalez	Chicago	Illinois
197	Mari	Gonzalez	Chicago	Illinois
198	Yamari	Gonzalez	Chicago	Illinois
199	Emily	Gorvett	Dacula	Georgia
200	Danielle	Goshert	Benicia	California
201	Barbara	Greenlee	Palm Springs	California
202	Antoinette	Greer	Long Beach	California
203	Lindssy	Gresco	Lowell	Massachusetts
204	MaryAnne	Gucciardi	Chapel Hill	North Carolina
205	Daniel	Guerra Jr	Madison	Wisconsin
206	Donna	Gura	Rochester Hills	Michigan
207	Sheila	Hale	Temple	Texas
208	Heather	Hall	Sterling Heights	Michigan
209	Matthew	Hall	Golden	Colorado
210	Nancy	Hall	Golden	Colorado
211	Suzanne	Hall	Fort Wayne	Indiana
212	Katie	Halper	New York	New York
213	Taylor	Handloser	Fayette	West Virginia
214	Marg	Hanhan	Sugar Land	Texas
215	Emily	Hansen	South Jordan	Utah
216	Shawn	Harling	Wake Forest	North Carolina
217	Caryl	Harris	New Hope	Pennsylvania
218	Stephen	Harris	Sanford	North Carolina
219	Levi	Hawkins	Franklinville	New Jersey
220	Jennifer	Heater	Fremont	California
221	Katherine	Hedlund	Lake Orion	Michigan
222	Tamara	Herod	The Woodlands	Texas
223	Barbara	Herriman	Springfield	Virginia
224	Desa	Hiither	Lansing	Michigan
225	Elizabeth	Hiither	Albion	Michigan
226	Annie	Hiller	Fort Mill	South Carolina
227	Steve	Hilliard	Southgate	Michigan
228	Miles	Hoge	Richmond	Virginia
229	Mark	Hojel	Aspen	Colorado
230	Richard	Hojel	Austin	Texas

	First Name	Last Name	City	State
231	Marcia	Horn	Phoenix	Arizona
232	Steve	Horn	Long Beach	California
233	Tanya	Horning	Rougemont	North Carolina
234	Mehran	Hourmozdi	Carmel	Indiana
235	William	House	Alpharetta	Georgia
236	Brian	Huber	Sandy Springs	Georgia
237	Cindy	Hunchusky	Arlington	Texas
238	Jeanine	Ivory	South Holland	Illinois
239	Kavita	Jackson	Germantown	Maryland
240	Kristin	Jacobs	Wesley chapel	Florida
241	Cynthia	Jaeger	Mechanicsville	Virginia
242	Kathy	Jahn	Mt Pleasant	South Carolina
243	Catherine	James	Woodstock	New York
244	Karen	Janicki	Maple Valley	Washington
245	Vera	Jasnic	Crown Point	Indiana
246	Brady	Jens	Grand Junction	Colorado
247	Anthony	Jezior	Morrisville	North Carolina
248	Barbara	Jezior	Cary	North Carolina
249	Kathryn	Jezior	Morrisville	North Carolina
250	Lucia	Jezior	Parma	Ohio
251	Alexa	Johanningmeier	Roswell	Georgia
252	Irene	John	Macomb	Michigan
253	Ora	Johnson	Fort Worth	Texas
254	Ralph	Johnson	Washington	Washington DC
255	Rene'	Johnson	Westfield	Indiana
256	Marci	Johnson	Raleigh	North Carolina
257	Paul	Johnson	Westfield	Indiana
258	Hailey	Johnston	Lansing	Michigan
259	Luke	Johnston	New York	New York
260	Shiela	Johnston	Charlotte	North Carolina
261	Jenny	Jones	Mustang	Oklahoma
262	Lauren	Jones	Martinsville	Virginia
263	Molly	Judge	Bloomington	Indiana
264	Richie	Kahn	Durham	North Carolina
265	Elizabeth	Kamerer	Leeds	Massachusetts
266	Rakesh	Kapur	CARMEL	Indiana
267	Malik	Karimi	Atlanta	Georgia
268	Ramzanali	Karimi	Dunwoody	Georgia
269	Maimah	Karmo	Stone Ridge	Virginia
270	Megan	Katz	Morrisville	North Carolina
271	Kay	Kay's	Sun City	Arizona
272	Punita	Khanna	Los Angeles	California
273	SHARMILA	KHANORKAR	Longwood	Florida
274	Victoria	Killian	Canoga Park	California
275	Maya	King	Falls Church	Virginia
276	Jesse	Kingg	Cary	North Carolina

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	First Name	Last Name	City	State
277	Michaela	Kirby	Denver	North Carolina
278	Keith	Kirk	Encino	California
279	Jackson	Kiser	Roanoke	Virginia
280	Linda	Kish	Philadelphia	Pennsylvania
281	A	Kline	Fredericksburg	Virginia
282	Josh	Knowland	Cary	North Carolina
283	Kathryn	Knowland	Fletcher	North Carolina
284	Kati	Knowland	Cary	North Carolina
285	Peter	Knowland	Fletcher	North Carolina
286	Catherine	Knowles	Pensacola	Florida
287	Pam	Kohl	Raleigh	North Carolina
288	Tricia	Kolb	North Myrtle Beach	South Carolina
289	Marc	Korobkin	Milwaukee	Wisconsin
290	Charlene	Kozloff	Concord	North Carolina
291	Laura	Krebs-Holm	Austin	Texas
292	Loren	Kreher	Richmond Heights	Missouri
293	Susan	Kulik	Simsbury	Connecticut
294	Alec	Kupelian	Portland	Oregon
295	Lindsay	Laguna	Quincy	Massachusetts
296	Samantha	Lake	Coral Gables	Florida
297	Clio	Lang	Spring	Texas
298	Jamie	Larson	New Orleans	Louisiana
299	Beth	Larson-Steckler	Bismarck	North Dakota
300	Alexandra	Lato	Milwaukee	Wisconsin
301	Chris	Lato	Ixonia	Wisconsin
302	George	Lato	Muskego	Wisconsin
303	Kari	Lato	Ixonia	Wisconsin
304	Twyla	Lato	Muskego	Wisconsin
305	Emmanuel	Lawrence	Mechanicsville	Virginia
306	Gary	Lawson	Dallas	Texas
307	Wendy	Lawton	Fairview	Oregon
308	Sandra Chantel	LeBlanc	Bloomsburg	Pennsylvania
309	Devin	Lebrun	Durango	Colorado
310	Georgina	Lee	Santa Monica	California
311	Geraldine	Lee	Los Angeles	California
312	Debra	LeRoy	Llano	Texas
313	Desiree	LeRoy	Loveland	Colorado
314	Daniel	LeRoy	Llano	Texas
315	Vincent	leskowich	Oakhurst	New Jersey
316	Dena	Levin	RALEIGH	North Carolina
317	Catherine	Liggett	Parker	Colorado
318	Skyler	Lin	Los Angeles	California
319	Jessica	Lindley	Portland	Oregon
320	Jamie	Lindsay	Lake Lure	North Carolina
321	Monica	Lizarraga	Swarthmore	Pennsylvania
322	Harriet	Lloyd	New York City	New York

	First Name	Last Name	City	State
323	Joyce	Lofstrom	DES PLAINES	Illinois
324	Debora Estefania	Lopez	BRIDGMAN	Michigan
325	Nikki	Lott	AIKEN	South Carolina
326	Quentin	Lott	Aiken	South Carolina
327	Lucy	Lucía	Orlando	Florida
328	Jill	Lutz	Indian river	Michigan
329	Heather	Lynch	Rochester	Michigan
330	Keri	LynchRyan	Long Beach	New York
331	Ora	M Johnson	Fort Worth	Texas
332	Molly	MacDonald	Beverly Hills	Michigan
333	Miranda	MacKay	Shelby Twp	Michigan
334	Myisha	Malone king	Baltimore	Maryland
335	Karla	Mans Giroux	Hawthorn Woods	Illinois
336	Sarah	Marshall	Chicago	Illinois
337	Ginny	Mason	West Lafayette	Indiana
338	Lauri	Mast	Mesa	Arizona
339	Dee	Masters	Memphis	Tennessee
340	Chris	Matheus	Wilmington	North Carolina
341	Kevin	Matthews	Durham	North Carolina
342	Megan	McCann	ASTORIA	New York
343	Mary	McCormick	Noblesville	Indiana
344	Debbie	McCoy	Green Lane	Pennsylvania
345	Erin	McCoy	Penfield	New York
346	Noreen	McDonagh	Orland Park	Illinois
347	Marla	McGuire	San Diego	California
348	Will	McGuire	San Diego	California
349	Maggie	McGuirt	Raleigh	North Carolina
350	Lois	McKibbon	Daphne	Alabama
351	Lindsay	McNally	Boise	Idaho
352	MD	McNeill	Palm Coast	Florida
353	Lyndsey	McReynolds	Spring	Texas
354	Rosemary	Mendez	Houston	Texas
355	Anne Marie	Mercurio	Huntington	New York
356	Jennifer	Merschdorf	Ivoryton	Connecticut
357	Jennifer	Meshechek	Las Vegas	Nevada
358	Jan	Mewhinney	Carmel	Indiana
359	NANCY	MEYERS	Summerfield	North Carolina
360	Rachel	Mihalko	Cordova	Tennessee
361	Jacqueline	Miller	Mokena	Illinois
362	Kevin	Miller	Granite Bay	California
363	MARILYN	MILLER	AUBURN HILLS	Michigan
364	Kay	Mimms	Matteson	Illinois
365	Joseph	Mobilia	Sagamore Beach	Massachusetts
366	Jennifer	Moeller	West Bloomfield Township	Michigan
367	Mitch	Moeller	Foothill Ranch	California
368	Jerelyn	Moffet	Hillsborough	North Carolina

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	First Name	Last Name	City	State
369	Lourdes	Monje	Philadelphia	Pennsylvania
370	Aimee	Montgomery	MORRISVILLE	North Carolina
371	Demeshia	Montgomery	Dayton	Ohio
372	Demi	Montgomery	Dayton	Ohio
373	Kyle	Montgomery	Morrisville	North Carolina
374	Hans	Moonen	London	Michigan
375	Ann	Moore	Austin	Texas
376	Heidi	Moore	Valley Glen	California
377	Joe Ann	Moorer	Forest Park	Georgia
378	Jessica	Moorhead	Philadelphia	Pennsylvania
379	Ann	Moravick	Chgastleston	South Carolina
380	Robert	Morgan	Bedford	Virginia
381	Will	Moss	Cary	North Carolina
382	Nancy	Moureau	HARTWELL	Georgia
383	Paul	Mozley	Collegeville	Pennsylvania
384	Callie	Mulligan	Arlington Heights	Illinois
385	Scott	Murley	Apex	North Carolina
386	Suzanne	Murley	Apex	North Carolina
387	Kaitlin	Murphy	Lynnfield	Massachusetts
388	Paige	Murphy-Young	Austin	Texas
389	Sara	Mursch	Newton	North Carolina
390	Rebeccah	Musson	Dallas	Texas
391	Amy	Myers	Moncure	North Carolina
392	M	N	Brooklyn	New York
393	Tiffany	Nagle	Franklin	Massachusetts
394	Russ	Nassof	Hendo	Nevada
395	Lyndsey	Needham	Rocky River	Ohio
396	Guido	Neels	Indianapolis	Indiana
397	Morgan	Newman	Norwalk	Iowa
398	Carol	Nichols	Clinton Twp.	Michigan
399	Kaya	Niemiec	Dayton	Ohio
400	Amanda	Nixon	Tulsa	Oklahoma
401	Susan	Norman	San Pedro	California
402	Joseph	Norris	Los Angeles	California
403	David	Norton	Red Bank	New Jersey
404	Janice	Nosakowski	Clinton Township	Michigan
405	Kerry	O'Connor	Eugene	Oregon
406	Megan	O'Neil	Studio city	California
407	Meridith	O'Connor	St. Louis	Missouri
408	Tiffany	ODonnell	Hershey	Pennsylvania
409	Dennis	ODonnell	Haddon Twp	New Jersey
410	Grace	Oleksyk	Bloomington	Illinois
411	Deborah	Oliver	Wilmington	North Carolina
412	Lisa	Orr	Reading	Massachusetts
413	Andrea	Owens	Indianapolis	Indiana
414	Ilias	Pajoheshfar	London	Hawaii

	First Name	Last Name	City	State
415	Allyson	Park	Coral Gables	Florida
416	Jessica	Parker	Philadelphia	Pennsylvania
417	Ashna	Pasricha	Tulsa	Oklahoma
418	Amish	Patel	Apex	North Carolina
419	Julianne	Paunescu	Alexandria	Virginia
420	Peter	Payne	Raleigh	North Carolina
421	Elaine	Pearson	Palm City	Florida
422	Tricia	Pennington	Cleveland	Tennessee
423	Lexi	Pereira	Toms River	New Jersey
424	Erin	Perkins	Cary	North Carolina
425	Ben	Perrin	Raleigh	North Carolina
426	Steven	Perrin	Durham	North Carolina
427	Jeff	Peterson	Philadelphia	Pennsylvania
428	Joseph	Peterson	Saltillo	Mississippi
429	Paige	Peterson	Albany	California
430	Scott	PETERZELL	Atlanta	Georgia
431	Christine	Pizana	Fort Worth	Texas
432	Barb	Polahar	Fairview Heights	Illinois
433	Shelley	Ponader	Indianapolis	Indiana
434	Frances	Porcher	Mt Pleasant	South Carolina
435	Fabienne	Potestivo	Addison Township	Michigan
436	Gavyn	Prem	Cross Plains	Wisconsin
437	Paige	Prem	Spring Green	Wisconsin
438	Lisa	Price	Billerica	Massachusetts
439	Paula	Puleo-Winsky	Warren	Michigan
440	Theresa	Quillinan	Pensacola	Florida
441	Sabrina	R	Scottsdale	Arizona
442	Elda	Railey	Auburn	Alabama
443	Tamara	Rains	Tulsa	Oklahoma
444	Ellen	Ralph	Tulsa	Oklahoma
445	Kimberly	Ram	Millington	New Jersey
446	Sun	Ramocan	aurora	Colorado
447	Nina	Raphael	LOS ANGELES	California
448	Emily	Rascher	Glenview	Illinois
449	Matt	Reavill	Plainfield	Illinois
450	Madison	Reed	Dublin	Ohio
451	LJ	REIBERT	BROKEN ARROW	Oklahoma
452	Karen	Reiner	Austin	Texas
453	Jamie	Reno	San Diego	California
454	Sharon	Rhoades	East Aurora	New York
455	Lee	Richardson	Maple Park	Illinois
456	Zenetta	Richardson	O Fallon	Illinois
457	David	Richman	Henderson	Nevada
458	Sharon	Riedinger	Fresno	California
459	HEATH	RIGSBY	MORAGA	California
460	Monique	Rigsby	Moraga	California

	First Name	Last Name	City	State
461	Barbra	Rill	Rochester Hills	Michigan
462	Michael A	Riotto	Jamison	Pennsylvania
463	Phyllis	Rodgers	Chicago	Illinois
464	Dennis	Rodgers	CHICAGO	Illinois
465	Rachelle	Rolf	Omaha	Nebraska
466	Adriel	Rose	Ephrata	Pennsylvania
467	Eric	Routh	Cary	North Carolina
468	Olivia	Rowan	Natick	Massachusetts
469	Alyssa	Rowell	Morro Bay	California
470	Corey	Rowland	Platte city	Missouri
471	Jean-Pascal	Rugiero	Los Angeles	California
472	Kelley	Ryan	Hillsborough	North Carolina
473	Libby	Ryan	Blackwood	New Jersey
474	Williams	Ryan	Rancho Santa fe	California
475	Marcia	Ryder	Brentwood	Tennessee
476	K	S	Richmond	Virginia
477	Markus	Saba	Fishers	Indiana
478	Nicole	Safran	New York	New York
479	Barry	Safrit	GREENSBORO	North Carolina
480	Angki	Sager	Cary	North Carolina
481	Constance	Samples	Ocala	Florida
482	Fitzgerald	Samuel	Vista	California
483	Helen	San Miguel	Bakersfield	California
484	Heidi	Sandreuter	Cary	North Carolina
485	Madelyn	Saner	Rochester	Minnesota
486	Jamie	Santer	Stamford	Connecticut
487	Katherine	Santer	Stamford	Connecticut
488	Aleeta	Sasarak	Easthampton	Massachusetts
489	Patricia	Sauter	OREGON	Wisconsin
490	Mackenzie	Scannell	Coral Gables	Florida
491	Jeannie	Schmidt	Salem	Virginia
492	Casey	Schuller	Monclova	Ohio
493	Marilyn	Schultz	Holt	Michigan
494	Kenneth	Schumann	San Francisco	California
495	Jennifer	Schwartz	Davenport	Florida
496	Esther	Sciammarella	Chicago	Illinois
497	Stephanie	Scoletti	Allison Park	Pennsylvania
498	Shay	Seaborne, CPTSD	WILMINGTON	Delaware
499	Tamar	Sekayan	San Luis Obispo	California
500	Cari	Seward	Elberon	Virginia
501	Kelly	Shanahan	South Lake Tahoe	California
502	Mariterie	Sheram	Pearl City	Hawaii
503	Charles	Shook	Raleigh	North Carolina
504	Andrew	Shores	Raleigh	North Carolina
505	Kelly	Shultz	Philadelphia	Pennsylvania
506	Katie	Sikora	Portland	Oregon

These 620 individuals request that the NRC correct inaccurate information that was published in the Federal Register on May 14, 1980 regarding nuclear medicine extravasations

	First Name	Last Name	City	State
507	Alison	Silberman	New York	New York
508	James	Simmons	Charleston	South Carolina
509	Diane	Simmons	Charleston	South Carolina
510	Michael	Skwarok	Madison	Wisconsin
511	Andrea	Slane	Los Angeles	California
512	Brian	Slane	Temecula	California
513	Susan	Slane	Temecula	California
514	William	Slattery	Garden City	New York
515	James	Sliney	Bronx	New York
516	Jim	Sliney Jr	Bronx	New York
517	Anne	Smalling	Austin	Texas
518	Mary Lou	Smith	Plano	Texas
519	Michelle	Smith	Frisco	Texas
520	Shannon	Smith	Valencia	California
521	Margaret	Smith	Naples	Florida
522	Sindre	Solvang	Loveland	Colorado
523	Michelle	Solverson	Stoughton	Wisconsin
524	Kristy	Sorensen	Austin	Texas
525	Frank	Soto	Katy	Texas
526	Marc	Speck	Temecula	California
527	Gina	Spehn	Rochester	Michigan
528	Timothy	Spencer	Scottsdale	Arizona
529	Reggie	Spinello	Glen cove	New York
530	Serena	Spinello	Glen Cove	New York
531	Annabeth	Sprecher	Lone Rock	Wisconsin
532	Melissa	Sprecher	Lone Rock	Wisconsin
533	Talena	Sprecher	Lone Rock	Wisconsin
534	James	Stack	Arlington	Massachusetts
535	John	Stanton	Jonesboro	Arkansas
536	Josephine	Steinauer	Omaha	Nebraska
537	Ashley	Steubing	San Antonio	Texas
538	Dianne	Stevens	Windsor	Connecticut
539	Wendy	Stevens	Raleigh	North Carolina
540	Jessica	Stinson	Atmore	Alabama
541	Sean	Sullivan	Pitman	New Jersey
542	Tj	Sutton	Hammond	New York
543	Jane	Sweeney	Watertown	Wisconsin
544	DIANE	TALBERT	Waldorf	Maryland
545	Constance	Teeters	Winnabow	North Carolina
546	Dave	Teeters	centreville	Virginia
547	Amy	Teets	Sewickley	Pennsylvania
548	Robin	Teets	Sewickley	Pennsylvania
549	Alex	Teets	Sewickley	Pennsylvania
550	Isabel	Teets	Sewickley	Pennsylvania
551	Karla	Terza	Tayson	Virginia
552	Adrienne	Theune	Orlando	Florida

	First Name	Last Name	City	State
553	Sine	Thieme	Durham	North Carolina
554	Ginny	Thomas-Wilson	Richland Hills	Texas
555	Bruce	Thompson	Acworth	Georgia
556	Michelle	Thompson	Johns Creek	Georgia
557	Brian	Thompson	Johns Creek	Georgia
558	Stacey	Tinianov	San Fransisco	California
559	Alique	Topalian	Cincinnati	Ohio
560	Nisha	Trivedi	South San Francisco	California
561	Tara	Trout	Brooklyn	New York
562	Tom	Tshontikidis	Agua Dulce	California
563	Jay	Tyler	Rancho Santa Fe	California
564	Annmarie	Uliano	Boston	Massachusetts
565	Karen	Utley	Clute	Texas
566	Rebecca	Vacha	Surprise	Arizona
567	Philip	Valenti	Kaneohe	Hawaii
568	Toni	Valenti	Monument	Colorado
569	Patricia	Valenti	Kaneohe	Hawaii
570	Lisa	VALLINO	ST LOUIS	Missouri
571	Robert	Van Arnam	Cary	North Carolina
572	Richard	Vanek	Cary	North Carolina
573	Roland	VanRens	Dan Diego	California
574	Karuna	Veellino	Portland	Maine
575	Mike	Veliquette	Fair Oaks	California
576	julianna	Vergakis	Massapequa	New York
577	Susan	Villhauer	Suwanee	Georgia
578	John	Viscovic	Florham Park	New Jersey
579	Kimberly	Vitu	rochester hills	Michigan
580	Richard	Waechter	Chapel Hill	North Carolina
581	Jim	Wagner	New York	New York
582	CJ	Walker	Glen Allen	Virginia
583	EVA	WALKER	Lancaster	Pennsylvania
584	Gary	Walker	Fremont	California
585	Lisa	Walker	N Massapequa	New York
586	Emily	Ward	Seal Beach	California
587	Nancy	Warden	Winston Salem	North Carolina
588	Missy	Warren	Cary	North Carolina
589	Nick	Warren	Dublin	Georgia
590	Lynda	Weatherby	Seattle	Washington
591	Mary	Welker	Julian	North Carolina
592	Nancy	Wenderhold	New York	New York
593	John	White	Franklin	Tennessee
594	Megan	Whitman	New York	New York
595	Shelly	Whitsitt	Arlington Heights	Illinois
596	Christine	Wichmann	West Bend	Wisconsin
597	Terry	Wilcox	Vienna	Virginia
598	Vickie	WILKERSON	SHREVEPORT	Louisiana

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	First Name	Last Name	City	State
599	Kat	Willcox	Colorado Springs	Colorado
600	David	Williams	Holly Springs	North Carolina
601	Payton	Williams	Thomasville	North Carolina
602	Richard	Williams	High Point	North Carolina
603	Tanya	Williams	Cypress	California
604	Whitney	Williams	Thomasville	North Carolina
605	Julie	Williams	Auburn Hills	Michigan
606	Carole	Wilson	Raleigh	North Carolina
607	Denise	Wilson	Cary	North Carolina
608	James	Wilson	Raleigh	North Carolina
609	John	Witkowski	Suwanee	Georgia
610	Kerry	Wong	Mamaroneck	New York
611	Wayne	Wong	Rockaway	New Jersey
612	Annie	Wood	Fayetteville	Georgia
613	Carolyn	Wood	Fayetteville	Georgia
614	Carrie	Woodman	Sunfiels	Michigan
615	Christine	Wynn	San Bernardino	California
616	Susan	Zager	Los angeles	California
617	Tian	Zhu	Cary	North Carolina
618	Faith	Zimmerle	Ladera Ranch	California
619	Mary Ann	Zock	Post Mills	Vermont
620	Donna	Zurick	Philadelphia	Pennsylvania