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Previewing at Level 3

Refid: 10, Hu, Y. H. and Ruckenstein, E., Tunable Delocalization of Unpaired Electrons of Nitroxide Radicals for Sickle-Cell Disease Drug Improvements, *J Phys Chem B*, 2007

State: Excluded, Level: 2

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ARTICLE Review Form

Does this article POTENTIALLY apply to any of the Key Questions?

1. **NO, this article DOES NOT apply to any of the Key Questions** (check all of the following reasons that apply):

- no original data (include ineligible reviews in this category)
- in vitro only
- too small-case report or case series of < 20 unless it is PRIMARILY reporting toxicities
- not relevant to key questions
- other: specify



2. ARTICLE OF INTEREST (does not apply to key questions)

- Pull article for hand searching or reference
- Not relevant to project but please tag

[Clear Selection](#)

This article **MAY** apply to one or more of the Key Questions, **choose all that apply.** (identify which key question an article applies to AND the subquestion it applies to)

Key Question 1

What is the evidence regarding efficacy of hydroxyurea treatment for patients with SCD?

<p>Key Question 1</p> <p><input type="radio"/> Applies to KQ1</p> <p>Clear Selection</p>	<p>This is a study of patients with sickle cell anemia, taking HU alone or in combination and is a:</p> <p><input type="checkbox"/> Controlled trial or randomized trial of any size</p> <p><input type="checkbox"/> Case series/cohort involving > or = 20 patients</p> <p><input type="checkbox"/> Small Case series involving < 20 patients with sickle cell <u>but</u> leukemia or malignancy is mentioned as an outcome despite this being an effectiveness study</p> <p><input type="checkbox"/> Study of biomarkers in > or = 20 patients on HU</p>
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Key Question 2

What is the evidence regarding effectiveness of hydroxyurea treatment for patients with SCD?

<p>Key Question 2</p> <p><input type="radio"/> Article applies to KQ2</p> <p>Clear Selection</p>	<p>This is a study of patients with sickle cell anemia, taking HU alone or in combination and is a:</p> <p><input type="checkbox"/> Controlled trial or randomized trial of any size in a community or primary care setting</p> <p><input type="checkbox"/> Case series/cohort involving > or = 20 patients</p> <p><input type="checkbox"/> Small Case series involving < 20 patients with sickle cell <u>but</u> leukemia or malignancy is mentioned as an outcome despite this being an effectiveness study</p>
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Study of biomarkers in > or = 20 patients on HU

Key Question 3

What is the evidence regarding the short- and long-term harms of hydroxyurea treatment?

<p>Key Question 3</p> <p><input type="radio"/> Applies to KQ3</p> <p>Clear Selection</p>	<p>This study is:</p> <p><input type="checkbox"/> Any study design, any size, describing toxicities of HU <i>alone or in combination</i> in sickle cell anemia</p> <p><input type="checkbox"/> Observational studies (> or = 20) of HU <i>alone</i> in CML/ET/PV/HIV/psoriasis/etc. including description of toxicities</p> <p><input type="checkbox"/> Case report or small case series (<20) primarily describing toxicities of HU <i>alone</i> in these other diseases (CML/ET/PV/HIV/psoriasis/etc)</p> <p><input type="checkbox"/> Controlled trials or randomized trials (two or more arms): in CML/ET/PV/psoriasis where the comparison is HU vs. anything including placebo (must have at least 20 patients in the HU alone arm)</p> <p><input type="checkbox"/> Controlled trials or randomized trials (two or more arms): in HIV where the comparison is: HU vs. HIV drugs; HU vs. HU/HIV drugs; HU vs. no drug (must have at least 20 patients in the HU alone arm)</p>
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Key Question 4

What barriers to the use of therapies for treatment of SCD have been investigated and what is the evidence that these purported barriers influence use of these treatments?

<p>Key Question 4</p> <p><input type="radio"/> Applies to KQ4</p> <p>Clear Selection</p>	<p>This study is:</p> <p><input type="checkbox"/> Any study design with primary data about the <i>test of an intervention to overcome barriers to care</i> that interfere with 1) receipt of medication, 2) receipt of scheduled care, 3) adherence to medication</p> <p><input type="checkbox"/> Any study design in which <i>barriers to care</i> were investigated as affecting 1) receipt of medication, 2) receipt of scheduled care, 3) adherence to medication</p> <p><input type="checkbox"/> Any study design in which patients/providers/family report what they perceive to be barriers to 1) receipt of medication, 2) receipt of scheduled care, 3) adherence to medication</p> <p><input type="checkbox"/> Any study design with primary data about the existence of the barriers in our causal diagram*</p>
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*we are not collecting studies about the existence of a) cognitive difficulties, b) genotype differences, c) disease severity, d) comorbidities unless these are described specifically as barriers to care

11. Reviewer Comments

[Enlarge](#) [Shrink](#)

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Refid: 10, Hu, Y. H. and Ruckenstein, E., Tunable Delocalization of Unpaired Electrons of Nitroxide Radicals for Sickle-Cell Disease Drug Improvements, J Phys Chem B, 2007

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Key Question 4

What barriers to the use of therapies for treatment of SCD have been investigated and what is the evidence that these purported barriers influence use of these treatments?

This form is to be filled out for ALL studies applying to KQ4

1. Does study provide evidence: (check all that apply)

- for the existence of putative barrier (D)
- for patients/providers reports of barriers (C)
- that a (putative or other) barrier is a barrier (B)
- for the effectiveness of an intervention to overcome a barrier? (A)

2. Study Design

- RCT
- CCT
- Pre-post intervention evaluation
- Descriptive--quantitative
- Descriptive--qualitative
- Descriptive--Mixed

Clear Selection

<p>3. Nurses</p> <input type="checkbox"/> mixed or unspecified <input type="checkbox"/> inpatient <input type="checkbox"/> outpatient <input type="checkbox"/> ED <input type="checkbox"/> other	<p>4. Physicians</p> <input type="checkbox"/> unspecified or mixed <input type="checkbox"/> hematologists <input type="checkbox"/> ED doctors <input type="checkbox"/> internists <input type="checkbox"/> pediatricians <input type="checkbox"/> physicians-in-training <input type="checkbox"/> other	<p>5. Other Health Professionals</p> <input type="checkbox"/> PA <input type="checkbox"/> social worker <input type="checkbox"/> other	<p>6. Patients</p> <input type="checkbox"/> check here if this population is providing data Clear Selection	<p>7. Family/caregivers</p> <input type="checkbox"/> specify Clear Selection
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Population characteristics of each category identified above

Population characteristics of PATIENTS only

<p>8. N</p> <p>Enlarge Shrink</p>	<p>9. Age</p> <p>Mean</p> <p>Median</p> <p>Range</p>	<p>10. Gender</p> <p>Male, n (%)</p> <p>Female, n (%)</p>	<p>11. Race</p> <p>White (non-hispanic), n (%)</p> <p>Black (non-hispanic), n (%)</p> <p>White hispanic, n (%)</p> <p>Black hispanic, n (%)</p> <p>Latino/Hispanic, n (%)</p> <p>Asian/Pacific Islander, n (%)</p> <p>Other (specify), n (%)</p>	<p>12. Genotype</p> <p>SS, n (%)</p> <p>SC, n (%)</p> <p>S β+ thalassemia, n (%)</p> <p>S β° thalassemia, n (%)</p> <p>other, define, n (%)</p>	<p>13. Substance use</p> <p>Alcohol user, n (%)</p> <p>Smoker, n (%)</p> <p>Illegal drug user, n (%)</p>	<p>14. Socioeconomic status</p> <p>Low, define</p> <p>n (%)</p> <p>Middle, define</p> <p>n (%)</p> <p>High, define</p> <p>n (%)</p>
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Population characteristics of NON-PATIENTS only

	describe	n	sex	race
15. Category 1				
16. Category 2				
17. Category 3				
18. Category 4				

Type of Barrier (check all that apply)

<p>System</p> <input type="checkbox"/> health system organization	<p>Patient</p> <input type="checkbox"/> age	<p>Provider</p> <input type="checkbox"/> provider race/ethnicity	<p>Other</p> <input type="checkbox"/> specify <input type="checkbox"/> specify
---	---	--	---


<input type="checkbox"/> insurance	<input type="checkbox"/> health beliefs	<input type="checkbox"/> speciality	
<input type="checkbox"/> costs	<input type="checkbox"/> risk tolerance	<input type="checkbox"/> respect for patients	specify 
<input type="checkbox"/> continuity of care	<input type="checkbox"/> depression	<input type="checkbox"/> outcome expectancy	specify 
<input type="checkbox"/> access to providers	<input type="checkbox"/> distrust	<input type="checkbox"/> familiarity	
<input type="checkbox"/> patient-provider communication	<input type="checkbox"/> self-efficacy	<input type="checkbox"/> practice Patterns	
<input type="checkbox"/> quality of pain management	<input type="checkbox"/> substance abuse	<input type="checkbox"/> risk tolerance	
	<input type="checkbox"/> preferences	<input type="checkbox"/> attitudes	
	<input type="checkbox"/> genotype	<input type="checkbox"/> time constraints	
	<input type="checkbox"/> knowledge	<input type="checkbox"/> knowledge	
	<input type="checkbox"/> SES	<input type="checkbox"/> resources	
	<input type="checkbox"/> burden	<input type="checkbox"/> monitoring burden	
	<input type="checkbox"/> family/social support	<input type="checkbox"/> training	
	<input type="checkbox"/> cognitive abilities	<input type="checkbox"/> self-efficacy	
	<input type="checkbox"/> disease severity	<input type="checkbox"/> inertia	
	<input type="checkbox"/> comorbid conditions		
	<input type="checkbox"/> pseudoaddiction		

For A, B, and C ONLY

23. Type of outcome measure (check all that apply)



- Attendance at scheduled provider visits
- Receipt of medications
- Adherence to medications

24. If outcome measure is about use of a medication/therapy: (check all that apply)

- hydroxyurea
- folate
- penicillin
- iron chelators
- transplant
- transfusion
- vaccines
- other drugs (arginine, azacitine, sodium butyrate, decitabine)
- dental care
- pain management regimen 
- other, specify
- not specified

For A and B ONLY

25. How was the Outcome Measured? (check all that apply)

- Patient report
- Provider report
- Family report
- Administrative data
- Biologic outcome, specify (e.g tooth decay, HgF, etc.) 
- Other, specify 

For A Only

26. Objective of intervention (concisely write in)

Enlarge Shrink

27. Description of the intervention including a brief description of any control population (concisely write in)

Enlarge Shrink

28. Reviewer interpretation of data from intervention studies:

- Improvement as a results of the intervention
- Partial improvement as a results of the intervention
- No improvement as a results of the intervention
- Worsening as a results of the intervention

For ALL KQ 4 Studies

29. Main Results (concisely write in)

Enlarge Shrink

30.

Comments

Enlarge Shrink

Click a link below to review this article at these other levels.

- [4. TRIAGE](#)
- [5. GENERAL](#)
- [6. KQs 1, 2, or 3](#)
- [7. Additional Arms](#)
- [8. KQ3 TOX Case Reports](#)
- [10. QUALITY--observational studies](#)
- [11. QUALITY--controlled trials](#)
- [12. QUALITY--qualitative studies](#)
- [13. QUALITY--surveys](#)
- [19. Renee data abstraction](#)

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Previewing at Level 11

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QUALITY FORM JADAD (quality for controlled trials)

1. Was the study described as randomized (this includes the use of words such as randomly, random, and randomization)? *In other words, was the allocation concealed?*

Hint: appropriate methods of randomization are computer-generated random numbers, random number tables (if unspecified, don't give them a +1 or a -1)

Yes

No

[Clear Selection](#)

2. If the answer to question #1 is "yes," then answer the following:

Was the method used to generate the sequence of randomization described and it was appropriate? (+1)

Was the method of randomization was described but it was inappropriate? (-1)

Neither a nor b

[Clear Selection](#)

3. Was the study described as double blind? *In other words, were the outcome assessors blind in addition to the patients?*

Yes

No

[Clear Selection](#)

4. If the answer to question #3 is "yes," then answer the following:

the method of double blinding was described and it was appropriate (+1)

the study was described as being blind but the method of blinding was inappropriate (-1)

[Clear Selection](#)

5. Was there a description of withdrawals and dropouts?

Yes

No

[Clear Selection](#)

Did the study report the number lost to follow-up?

Yes (enter "n")

No

6. Arm 1 [Clear](#)

7. Arm 2 [Clear](#)

8. Arm 3 [Clear](#)

9. Arm 4

Click a link below to review this article at these other levels.

[4. TRIAGE](#)

[5. GENERAL](#)

[6. KQs 1, 2, or 3](#)

[7. Additional Arms](#)

[8. KQ3 TOX Case Reports](#)

[9. KQ4 Barriers](#)

[10. QUALITY--observational studies](#)

[12. QUALITY--qualitative studies](#)

[13. QUALITY--surveys](#)

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Previewing at Level 12

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QUALITY FORM Qualitative Research

1. How were the data generated? (Check all that apply)

- Field observation/participant observation
- In-depth interviews
- Focus groups
- Document analysis
- Other

2. Is there a description of the theoretical basis for the study?

- No
- To some extent
- Yes, with description of a named theory or presentation of a causal diagram

[Clear Selection](#)

3. Is there description of why these participants were selected?

- No
- To some extent
- Yes, with detailed description: *how these specific people are expected to contribute, conditions which make them eligible for study*

[Clear Selection](#)

4. Did the researchers compose the focus groups or interview setting to maximize data gathering (ensuring patient comfort, confidentiality, choice of appropriate interviewer or techniques for data gathering)?

- No or can't tell
- To some extent
- Yes, with detailed description

[Clear Selection](#)

5. Do the authors report theme exhaustion (continuing the discussion until no new themes emerge)?

- NA
- No
- To some extent
- Yes, with detailed description

[Clear Selection](#)

6. Has the author rendered transparent the processes by which data have been collected, analyzed and presented? (can be audited, verified)

- No

- To some extent
- Yes: *detailed description of theoretical, methodological and analytic decisions*

[Clear Selection](#)

7. Do the authors describe their own biases? (also called reflexivity)

- No
- To some extent
- Yes, with detailed description

[Clear Selection](#)

8. Is there any use of triangulation, i.e. gathering of additional data to provide a more complete picture of the participants' world and experiences? An additional piece of the puzzle?

- No mention
- To some extent
- Yes, with detailed description of the source of additional data and how it corroborates observed results

[Clear Selection](#)

9. Do the authors synthesize, interpret, or develop a concept, model, or theory based on the subjective data collected?

- No (just present raw material)
- To some extent (just synthesis of data)
- Yes, well-developed interpretation of how reports support model

[Clear Selection](#)

Click a link below to review this article at these other levels.

[4. TRIAGE](#)

[5. GENERAL](#)

[6. KQs 1, 2, or 3](#)

[7. Additional Arms](#)

[8. KQ3 TOX Case Reports](#)

[9. KQ4 Barriers](#)

[10. QUALITY--observational studies](#)

[11. QUALITY--controlled trials](#)

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Previewing at Level 13

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QUALITY FORM Surveys

1. What data collection methods were used in the study? (Check all that apply)

- Self-administered questionnaire
- Mailed questionnaire
- Group-administered setting
- Face-to-face interviews
- Telephone interviews
- Computer or computer assisted device (CAD)
- Other/unclear

2. Did the study describe the setting or population from which the study sample was drawn?

- No
- To some extent
- Yes, with detailed description: *setting (e.g., clinic), location, and dates*

[Clear Selection](#)

3. Were the inclusion or exclusion criteria described? (just saying "sickle cell disease" is insufficient)

- No
- To some extent
- Yes, with detailed description: *methods for selection of participants, or inclusion/exclusion criteria, or diagnostic criteria for enrollment*

[Clear Selection](#)

4. Does the study describe key characteristics of study participants at enrollment/baseline?

- No
- To some extent
- Yes, with detailed description: *ages, sex, genotype, relevant comorbidities which would influence outcomes*

[Clear Selection](#)

5. What is the survey completion rate?

- Can't calculate
- n/N
- %

[Clear Selection](#)

6. Is there a statement that the authors used a previously validated instrument?

- No

- To some extent (provides a reference)
- Yes, provides a reference and states that it was validated in the sickle cell population

[Clear Selection](#)

7.

Is there any discussion of the **validity** of the survey instrument (any one is sufficient)

- NA--this is NOT an option do not select this answer!
- No
- Yes. Only poor discussion of validity or good discussion with poor validity
- Yes, good definition and high validity

[Clear Selection](#)

Face / content validity	Degree to which an instrument accurately represents the skill or characteristic it is designed to measure, based on people's experience and available knowledge
Concurrent criterion validity	Degree to which an instrument produces the same results as another accepted or proven instrument that measures the same variable
Predictive criterion validity	Degree to which a measure accurately predicts expected outcomes
Construct validity	Degree to which a test measures the theoretical construct it intends to measure

8. Is there any discussion of the **reliability** of the survey instrument? (any one is sufficient)

- No
- Yes. Only poor discussion of reliability or good discussion with poor reliability
- Yes, good discussion and high reliability

[Clear Selection](#)

Intra-rater reliability	Degree to which measurements are the same when repeated by the same person
Inter-rater reliability	Degree to which measurements are the same when obtained by the different persons
Test-retest reliability	Degree to which the same test produces the same results when repeated under the same conditions
Equivalence reliability	Degree to which alternate forms of the same measurement instrument produce the same results
Internal consistency (inter-item) reliability	How well items reflecting the same construct yield similar results

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Previewing at Level 1

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1. Does this article POTENTIALLY apply to ANY of the Key Questions

YES--this article POTENTIALLY applies

NO--this article DOES NOT apply

[Clear Selection](#)

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Previewing at Level 8

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Key Question 3
Causality Form for Toxicity Case Reports

Case 1

1. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other

2. Age

years:

3. Sex:

- Male
- Female

Clear Selection

4. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

5. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other

Causality assessment

Yes No

- 6. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear
- 7. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear
- 8. Is there a reasonable response to drug withdrawal? Yes No Clear
- 9. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

10. Duration of Treatment

Enlarge Shrink

11. Time to occurene of toxicity



Enlarge Shrink

Case 2

DO NOT fill in this portion of the form if only 1 case is reported

12. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other

13. Age

years:

14. Sex:

- Male
- Female

Clear Selection

15. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

16. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other

Causality assessment

Yes No

- 17. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear
 - 18. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear
 - 19. Is there a reasonable response to drug withdrawal? Yes No Clear
 - 20. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear
21. Duration of Treatment

Enlarge Shrink

22. Time to occurene of toxicity

Enlarge Shrink

Case 3

DO NOT fill in this portion of the form if only 1 case is reported

23. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other



24. Age

years:



25. Sex:

- Male
- Female

Clear Selection

26. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

27. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other



Causality assessment

Yes No

- 28. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear
- 29. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear
- 30. Is there a reasonable response to drug withdrawal? Yes No Clear
- 31. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

32. Duration of Treatment



Enlarge Shrink

33. Time to occurene of toxicity



Enlarge Shrink

Case 4

DO NOT fill in this portion of the form if only 1 case is reported

34. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other

35. Age

years:

36. Sex:

- Male
- Female

Clear Selection

37. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

38. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other

Causality assessment

Yes No

39. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear

40. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear

41. Is there a reasonable response to drug withdrawal? Yes No Clear

42. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

43. Duration of Treatment

Enlarge Shrink

44. Time to occurene of toxicity

Enlarge Shrink

Case 5

DO NOT fill in this portion of the form if only 1 case is reported

45. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other

46. Age

years:

47. Sex:

- Male
- Female

Clear Selection

48. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

49. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other

Causality assessment

Yes No

- 50. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No
- 51. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No
- 52. Is there a reasonable response to drug withdrawal? Yes No
- 53. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No

54. Duration of Treatment

Enlarge Shrink

55. Time to occurene of toxicity

Enlarge Shrink

Case 6

DO NOT fill in this portion of the form if only 1 case is reported

56. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other



57. Age

years:



58. Sex:

- Male
- Female

Clear Selection

59. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

60. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other



Causality assessment

Yes No

- 61. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear
- 62. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear
- 63. Is there a reasonable response to drug withdrawal? Yes No Clear
- 64. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

65. Duration of Treatment

Enlarge Shrink

66. Time to occurene of toxicity

Enlarge Shrink

Case 7

DO NOT fill in this portion of the form if only 1 case is reported

67. What is the underlying disease?

- Sickle cell anemia

- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other



68. Age

years:



69. Sex:

- Male
- Female

Clear Selection

70. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

71. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other



Causality assessment

Yes No

72. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear

73. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear

74. Is there a reasonable response to drug withdrawal? Yes No Clear

75. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

76. Duration of Treatment



Enlarge Shrink

77. Time to occurene of toxicity



Enlarge Shrink

Case 8

DO NOT fill in this portion of the form if only 1 case is reported

78. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML

- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other

79. Age

years:

80. Sex:

- Male
- Female

Clear Selection

81. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

82. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other

Causality assessment

Yes No

- 83. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear
- 84. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear
- 85. Is there a reasonable response to drug withdrawal? Yes No Clear
- 86. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

87. Duration of Treatment

Enlarge Shrink

88. Time to occurrence of toxicity

Enlarge Shrink

Case 9

DO NOT fill in this portion of the form if only 1 case is reported

89. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia

- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other



90. Age
years:



91. Sex:
- Male
 - Female

Clear Selection

92. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

93. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other



Causality assessment

Yes No

- 94. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No
- 95. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No
- 96. Is there a reasonable response to drug withdrawal? Yes No
- 97. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No

98. Duration of Treatment



Enlarge Shrink

99. Time to occurrence of toxicity



Enlarge Shrink

Case 10

DO NOT fill in this portion of the form if only 1 case is reported

100. What is the underlying disease?

- Sickle cell anemia
- Thalassemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis

Other cancer

HIV

Other

101. Age

years:

102. Sex:

Male

Female

Clear Selection

103. Is the treated patient a child (under 18) or an adult?

Child

Adult

Clear Selection

104. What is the reported event?

Leg ulcer

Nail change

Rash

Cytopenia

Leukemia

Cytogenetic change

Other cancer

Birth defect

Other

Causality assessment

Yes No

105. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear

106. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear

107. Is there a reasonable response to drug withdrawal? Yes No Clear

108. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

109. Duration of Treatment

Vertical slider control for duration of treatment

Enlarge Shrink

110. Time to occurrence of toxicity

Vertical slider control for time to occurrence of toxicity

Enlarge Shrink

Case 11

DO NOT fill in this portion of the form if only 1 case is reported

111. What is the underlying disease?

Sickle cell anemia

Thalassemia

CML

Polycythemia vera

Essential thrombocythemia

Leukemia

Psoriasis

Other cancer

HIV

Other



112. Age

years:



113. Sex:

Male

Female

Clear Selection

114. Is the treated patient a child (under 18) or an adult?

Child

Adult

Clear Selection

115. What is the reported event?

Leg ulcer

Nail change

Rash

Cytopenia

Leukemia

Cytogenetic change

Other cancer

Birth defect



Other



Causality assessment

Yes No

116. Is the time relationship from drug administration to the event *plausible* for causality to be established?

Clear

117. Is there an absence of concurrent diseases or other drugs that may have caused the event?

Clear

118. Is there a reasonable response to drug withdrawal?

Clear

119. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation?

Clear

120. Duration of Treatment

Enlarge Shrink

121. Time to occurrence of toxicity

Enlarge Shrink

Case 12

DO NOT fill in this portion of the form if only 1 case is reported

122. What is the underlying disease?

Sickle cell anemia

Thalassemia

CML

Polycythemia vera

Essential thrombocythemia

Leukemia

Psoriasis

Other cancer

HIV

Other



123. Age



years:

124. Sex:

Male

Female

Clear Selection

125. Is the treated patient a child (under 18) or an adult?

Child

Adult

Clear Selection

126. What is the reported event?

Leg ulcer

Nail change

Rash

Cytopenia

Leukemia

Cytogenetic change

Other cancer

Birth defect

Other



Causality assessment

Yes No

127. Is the time relationship from drug administration to the event *plausible* for causality to be established?

Clear

128. Is there an absence of concurrent diseases or other drugs that may have caused the event?

Clear

129. Is there a reasonable response to drug withdrawal?

Clear

130. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation?

Clear

131. Duration of Treatment



Enlarge Shrink

132. Time to occurrence of toxicity



Enlarge Shrink

Case 13

DO NOT fill in this portion of the form if only 1 case is reported

133. What is the underlying disease?

Sickle cell anemia

Thalassemia

CML

Polycythemia vera

Essential thrombocythemia

Leukemia

Psoriasis

Other cancer

HIV

Other



134. Age

years:



135. Sex:

- Male
- Female

Clear Selection

136. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

137. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other



Causality assessment

Yes No

- 138. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No
- 139. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No
- 140. Is there a reasonable response to drug withdrawal? Yes No
- 141. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No

142. Duration of Treatment

Enlarge Shrink

143. Time to occurrence of toxicity

Enlarge Shrink

Case 14

DO NOT fill in this portion of the form if only 1 case is reported

144. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other



145. Age

years:



146. Sex:

- Male
- Female

Clear Selection

147. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

148. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other



Causality assessment

Yes No

- 149. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No Clear
- 150. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No Clear
- 151. Is there a reasonable response to drug withdrawal? Yes No Clear
- 152. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No Clear

153. Duration of Treatment

Enlarge Shrink

154. Time to occurrence of toxicity

Enlarge Shrink

Case 15

DO NOT fill in this portion of the form if only 1 case is reported

155. What is the underlying disease?

- Sickle cell anemia
- Thalassemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other



156. Age

years:



157. Sex:

- Male
- Female

Clear Selection

158. Is the treated patient a child (under 18) or an adult?

- Child

Adult

Clear Selection

159. What is the reported event?

Leg ulcer

Nail change

Rash

Cytopenia

Leukemia

Cytogenetic change

Other cancer

Birth defect



Other



Causality assessment

Yes No

160. Is the time relationship from drug administration to the event *plausible* for causality to be established? Clear

161. Is there an absence of concurrent diseases or other drugs that may have caused the event? Clear

162. Is there a reasonable response to drug withdrawal? Clear

163. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Clear

164. Duration of Treatment

Enlarge Shrink

165. Time to occurrence of toxicity

Enlarge Shrink

Case 16

DO NOT fill in this portion of the form if only 1 case is reported

166. What is the underlying disease?

Sickle cell anemia

Thalessemia

CML

Polycythemia vera

Essential thrombocythemia

Leukemia

Psoriasis

Other cancer

HIV

Other



167. Age

years:

168. Sex:

Male

Female

Clear Selection

169. Is the treated patient a child (under 18) or an adult?

Child

Adult

Clear Selection

170. What is the reported event?

- Leg ulcer
- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other

Causality assessment

Yes No

- 171. Is the time relationship from drug administration to the event *plausible* for causality to be established? Yes No
- 172. Is there an absence of concurrent diseases or other drugs that may have caused the event? Yes No
- 173. Is there a reasonable response to drug withdrawal? Yes No
- 174. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? Yes No

175. Duration of Treatment

Enlarge Shrink

176. Time to occurrence of toxicity

Enlarge Shrink

Case 17

DO NOT fill in this portion of the form if only 1 case is reported

177. What is the underlying disease?

- Sickle cell anemia
- Thalessemia
- CML
- Polycythemia vera
- Essential thrombocythemia
- Leukemia
- Psoriasis
- Other cancer
- HIV
- Other

178. Age

years:

179. Sex:

- Male
- Female

Clear Selection

180. Is the treated patient a child (under 18) or an adult?

- Child
- Adult

Clear Selection

181. What is the reported event?

- Leg ulcer

- Nail change
- Rash
- Cytopenia
- Leukemia
- Cytogenetic change
- Other cancer
- Birth defect
- Other



Causality assessment

- | | Yes | No |
|---|-----------------------|-----------------------------|
| 182. Is the time relationship from drug administration to the event <i>plausible</i> for causality to be established? | <input type="radio"/> | <input type="radio"/> Clear |
| 183. Is there an absence of concurrent diseases or other drugs that may have caused the event? | <input type="radio"/> | <input type="radio"/> Clear |
| 184. Is there a reasonable response to drug withdrawal? | <input type="radio"/> | <input type="radio"/> Clear |
| 185. Is there the existence of a rechallenge in this report or a demonstrated biological/pharmacological explanation? | <input type="radio"/> | <input type="radio"/> Clear |
| 186. Duration of Treatment | | |

Enlarge Shrink

187. Time to occurene of toxicity

Enlarge Shrink

Submit Data

Click a link below to review this article at these other levels.

- [4. TRIAGE](#)
- [5. GENERAL](#)
- [6. KQs 1, 2, or 3](#)
- [7. Additional Arms](#)
- [9. KQ4 Barriers](#)
- [10. QUALITY--observational studies](#)
- [11. QUALITY--controlled trials](#)
- [12. QUALITY--qualitative studies](#)
- [13. QUALITY--surveys](#)
- [19. Renee data abstraction](#)

Form took 1.0625 seconds to render
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Previewing at Level 2

Refid: 10, Hu, Y. H. and Ruckenstein, E., Tunable Delocalization of Unpaired Electrons of Nitroxide Radicals for Sickle-Cell Disease Drug Improvements, *J Phys Chem B*, 2007

State: Excluded, Level: 2

Keywords:

No keywords available

Increase Font Size

Decrease Font Size

Abstract:

Hydroxyurea is a drug recently approved to treat sickle cell diseases. Hydroxyurea benefits the patients by increasing the level of fetal hemoglobin via a nitroxide radical pathway. Here, we report an unpaired-electron-delocalization approach to tune the stability of nitroxide radicals. In this approach, the substitution by an unsaturated alkyl group containing conjugated C=C double bonds for the hydrogen on the nitrogen atom attached to the hydroxyl of hydroxyurea can significantly increase its ability to generate nitroxide radical. Furthermore, the increase can be remarkably enhanced by increasing the number of conjugated C=C double bonds. For a hydroxyurea derivative that contains two conjugated C=C double bonds, the reaction rate to generate its radical is 118 times faster than that of hydroxyurea, and for a hydroxyurea derivative containing 20 conjugated C=C double bonds, the reaction rate to form its radical is 238 times faster than that of hydroxyurea. For this reason, hydroxyurea derivatives with conjugated C=C double bonds may constitute new potential drugs for the treatment of sickle-cell diseases.

Increase Font Size

Decrease Font Size

Submit Data

ABSTRACT Review Form

Does this article **POTENTIALLY** apply to any of the Key Questions?

1. **NO, this article DOES NOT apply to any of the Key Questions** (check all of the following reasons that apply):

- not English
- no original data (include ineligible reviews in this category)
- animals only
- in vitro only
- case report or case series of less than 10 unless it is **PRIMARILY** reporting toxicities {see below for details}
- not relevant to key questions
- other: specify

2. **ARTICLE OF INTEREST** (does not apply to key questions)

- Pull article for hand searching
- Not relevant to project but please tag

[Clear Selection](#)

3. **UNCLEAR**

- can not determine from abstract alone OR no abstract available

[Clear Selection](#)

4. **This article MAY apply to one or more of the Key Questions** (choose all that apply, **ONLY** if you have not marked any of the options above)

- Key Question 1: What is the evidence regarding efficacy of hydroxyurea treatment for patients with SCD?
- Key Question 2: What is the evidence regarding effectiveness of hydroxyurea treatment for patients with SCD?
- Key Question 3: What is the evidence regarding the short- and

long-term harms of hydroxyurea treatment?

Key Question 4: What barriers to the use of therapies for treatment of SCD have been investigated and what is the evidence that these purported barriers influence use of these treatments? Specifically, what are barriers to use of treatments to increase hemoglobin F (hydroxyurea, sodium phenylbutyrate, arginine butyrate, decitibine, and 5-azacytidine); barriers to established therapies for disease-management (penicillin, folate, vaccinations, iron chelation, nutrition counseling, pain management, dental care, and chronic transfusions); and barriers to bone marrow transplantation?

Notes on Key Question 4

We think that we will have evidence in the following three evidence subgroups. These are ordered by what we consider to be the strength of this evidence for answering the question.

1. Evidence to support interventions for overcoming barriers to treatments.
2. Evidence about how named barriers are associated with 1) use of therapies, 2) biological outcomes, or 3) access to therapies
3. Evidence which describes the existence of the purported barriers. This will include:
 - a. Description of the existence of elements from our causal diagram (whether described in the article as a "barrier" or not)
 - b. Description of barriers where the respondent states that something is a barrier in that it interferes with receipt of care or interferes with optimal health

CASE SERIES RULES

1. Include biomarker studies ONLY IF IN 10 OR MORE.
2. Include efficacy studies ONLY IF IN 10 OR MORE
3. Efficacy study exception: can include if there are LESS THAN 10 if the abstract specifically states they observed LEUKEMIA OR OTHER MALIGNANCY
4. Include studies of less than 10 if they are PRIMARILY describing toxicities (skin rashes, leg ulcers, leukemia)

5. Comments:

[Enlarge](#) [Shrink](#)

Form took 0.671875 seconds to render
 Form Creation Date: Not available
 Form Last Modified: Not available

Previewing Only: You cannot submit data from this form

Previewing at Level 5

Refid: 10, Hu, Y. H. and Ruckenstein, E., Tunable Delocalization of Unpaired Electrons of Nitroxide Radicals for Sickle-Cell Disease Drug Improvements, *J Phys Chem B*, 2007

State: Excluded, Level: 2

Submit Data

HYDROXYUREA TREATMENT FOR SICKLE CELL DISEASE

GENERAL FORM

Complete this form for all key questions.

1. This study is best described as (check all that apply):

- efficacy study: is in a controlled setting
- effectiveness study: is in a primary care setting, has less stringent eligibility criteria, reports on health outcomes rather than surrogate measures, describes how the drug is used in practice
- toxicity study

Study Characteristics

2. Study design

- RCT
- Cohort with a comparison arm
- Case series
- Case-control
- Case report--individually describes patients **do not continue filling out this form**
- Other

Clear Selection

3. Study location

- United States/Canada
- Europe
- Central/South America/Mexico
- Caribbean
- Middle East
- Southeast Asia
- Africa
- Other (specify) _____

4. Disease (check all that apply)

- Sickle cell anemia
- CML
- AML
- Polycythemia vera
- Essential thrombocytosis
- Psoriasis
- Solid tumors
- Thalassemia
- HIV
- Other _____

5. Study Duration



















- NA
- Planned duration of treatment (include units) _____

6. Recruitment Period

- Start date (mm/dd/yyyy) _____
- End date (mm/dd/yyyy) _____
- Duration (include units) _____





















STUDY inclusion/exclusion criteria

	Inclusion	Exclusion	Specify
7. Age (specify)	<input type="checkbox"/>	<input type="checkbox"/>	
8. Race (specify)	<input type="checkbox"/>	<input type="checkbox"/>	
9. Sickle Cell Anemia	<input type="checkbox"/>	<input type="checkbox"/>	_____
10. Sickle B+ thalassemia	<input type="checkbox"/>	<input type="checkbox"/>	_____
11. Sickle B* thalassemia	<input type="checkbox"/>	<input type="checkbox"/>	
12. Sickle α+ thalassemia	<input type="checkbox"/>	<input type="checkbox"/>	
13. SC genotype	<input type="checkbox"/>	<input type="checkbox"/>	
14. Splenomegaly	<input type="checkbox"/>	<input type="checkbox"/>	
15. Neutropenia	<input type="checkbox"/>	<input type="checkbox"/>	
16. Leukopenia	<input type="checkbox"/>	<input type="checkbox"/>	_____
17. Transfusion dependant	<input type="checkbox"/>	<input type="checkbox"/>	_____
18. Pregnancy	<input type="checkbox"/>	<input type="checkbox"/>	_____
19. Opioid Use	<input type="checkbox"/>	<input type="checkbox"/>	

- 20. Substance abuse _____ 
- 21. Concurrent treatment with an antisickling agent _____ 
- 22. Pain episodes (include number and time period) _____ 
- 23. Cardiovascular event including stroke (define) _____ 
- 24. Renal failure _____ 
- 25. Liver failure _____ 
- 26. Sepsis _____ 
- 27. Acute chest syndrome (include n if available) _____ 
- 28. HIV+ _____ 
- 29. Current medication use that can increase the toxicity of HU _____ 
- 30. Prior hydroxyurea treatment _____ 
- 31. Other (specify) _____ 
- 32. Other (specify) _____ 
- 33. Other (specify) _____ 
- 34. Other (specify) _____ 
- 35. Other (specify) _____ 
- 36. Other (specify) _____ 
- 37. Other (specify) _____ 
- 38. Other (specify) _____ 

39. Does this study contain more than 1 arm?
 Yes define arms (including control) below
 No proceed to patient characteristics--ONLY fill in ARM 1 information












Clear Selection

	Define (i.e., low dose HU, high dose HU, etc.)	Total N	Drug	Starting dose	Titration regimen
40. ARM 1 (HU or single arm)	_____ 	_____ 	_____ 	_____ 	_____ 
41. ARM 2	_____ 	_____ 	_____ 	_____ 	_____ 
42. ARM 3	_____ 	_____ 	_____ 	_____ 	_____ 
43. ARM 4	_____ 	_____ 	_____ 	_____ 	_____ 












Description of administered therapies:

ARM 1












ALWAYS use for HU
Use when only one set of data is available for study population

44. drugs(s) _____ 	45. # on MTD _____ 	46. Duration of therapy Months _____  mean _____  <input type="checkbox"/> median	47. concomittant therapy recieved _____ 	48. duration of observation Months _____  mean _____  median _____ 	49. Indicator of adherence Please Select _____ 	50. denominator for outcomes (ITT if available) _____ 	51. frequency of monitoring labs (write in) _____ 
--	--	--	---	--	---	---	---












ARM 2

52. drugs(s) _____ 	53. # on MTD _____ 	54. Duration of therapy Months _____  mean _____  <input type="checkbox"/> median	55. concomittant therapy recieved _____ 	56. duration of observation Months _____  mean _____  median _____ 	57. Indicator of adherence Please Select _____ 	58. denominator for outcomes (ITT if available) _____ 	59. frequency of monitoring labs (write in) _____ 
--	--	--	---	---	---	---	---

ARM 3

60. drugs(s) _____ 	61. # on MTD _____ 	62. Duration of therapy Months _____  mean _____  <input type="checkbox"/> median	63. concomittant therapy recieved _____ 	64. duration of observation Months _____  mean _____  median _____ 	65. Indicator of adherence Please Select _____ 	66. denominator for outcomes (ITT if available) _____ 	67. frequency of monitoring labs (write in) _____ 
--	--	--	---	---	---	---	---

ARM 4

68. drugs(s) _____ 	69. # on MTD _____ 	70. Duration of therapy Months _____  mean _____  <input type="checkbox"/> median	71. concomittant therapy recieved _____ 	72. duration of observation Months _____  mean _____  median _____ 	73. Indicator of adherence Please Select _____ 	74. denominator for outcomes (ITT if available) _____ 	75. frequency of monitoring labs (write in) _____ 
--	--	--	---	---	---	---	---

Patient Population Characteristics

Fill out PATIENT characteristics for each arm. If the study is a TRIAL, ALWAYS use arm 1 for data on the HU group. If the study is not a trial use arm 1 ONLY for data abstraction

ARM 1
ALWAYS use for HU group
Use when only one set of data is available for study population

DATA ENTRY INSTRUCTIONS: for ALL ARMS, report percentages in (), do not use the % within the (); report ranges in (-).

Table for ARM 1 with columns: 76. Age, 77. Gender, 78. Race, 79. Genotype, 80. Haplotype, 81. Substance use, 82. Socioeconomic status, 83. Blood, 84. Crises. Each cell contains a list of variables with input fields for mean, median, range, and percentage.

ARM 2

DATA ENTRY INSTRUCTIONS: for ALL ARMS, report percentages in (), do not use the % within the (); report ranges in (-).

Table for ARM 2 with columns: 88. Age, 89. Gender, 90. Race, 91. Genotype, 92. Haplotype, 93. Substance use, 94. Socioeconomic status, 95. Blood, 96. Crises. Each cell contains a list of variables with input fields for mean, median, range, and percentage.

ARM 3

DATA ENTRY INSTRUCTIONS: for ALL ARMS, report percentages in (), do not use the % within the (); report ranges in (-).

Table for ARM 3 with columns: 100. Age, 101. Gender, 102. Race, 103. Genotype, 104. Haplotype, 105. Substance use, 106. Socioeconomic status, 107. Blood, 108. Crises. Each cell contains a list of variables with input fields for mean, median, range, and percentage.

ARM 4

DATA ENTRY INSTRUCTIONS: for ALL ARMS, report percentages in (), do not use the % within the (); report ranges in (-).

Table for ARM 4 with columns: 112. Age, 113. Gender, 114. Race, 115. Genotype, 116. Haplotype, 117. Substance use, 118. Socioeconomic status, 119. Blood, 120. Crises. Each cell contains a list of variables with input fields for mean, median, range, and percentage.

		Islander, n (%) Other (specify), n (%)					(k/mm ³), mean or median Absolute neutrophil count (cells/ μ l), mean or median	median Chest syndrome mean or median Ulcer mean or median
--	--	---	--	--	--	--	--	---

124. Comments

Enlarge Shrink

Submit Data

Click a link below to review this article at these other levels.

- 4. TRIAGE
- 6. KQs 1, 2, or 3
- 7. Additional Arms
- 8. KQ3 TOX Case Reports
- 9. KQ4 Barriers
- 10. QUALITY-observational studies
- 11. QUALITY-controlled trials
- 12. QUALITY-qualitative studies
- 13. QUALITY-surveys
- 19. Renee data abstraction

Form took 0.59375 seconds to render
 Form Creation Date: Not available
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Previewing at Level 6

Refid: 10, Hu, Y. H. and Ruckenstein, E., Tunable Delocalization of Unpaired Electrons of Nitroxide Radicals for Sickle-Cell Disease Drug Improvements, J Phys Chem B, 2007

State: Excluded, Level: 2

Submit Data

Efficacy/Effectiveness AND Toxicity

Complete this form for Key Questions 1, 2 and 3 where applicable.

Categorical Outcomes

Efficacy/effectiveness outcomes:	Toxicities
1 any acute chest	11 neutropenia
2 any acute painful event	12 thrombocytopenia
3 death	13 reticulocytopenia
4 symptomatic stroke	14 anemia
5 definitive new changes on MRI	15 leukemia
6 transfusion	16 other neoplasm
7 crisis requiring hosp	17 leg ulcer
	18 skin rash/nail alterations
	19 hair loss
	20 gastrointestinal upset
	21 cytogenetic or oncogenic abnormalities
	22 fetal abnormalities
	23 spontaneous abortion
8 other <input type="text"/>	24 other <input type="text"/>
9 other <input type="text"/>	25 other <input type="text"/>
10 other <input type="text"/>	26 other <input type="text"/>

3. Outcome (select number from list above)

Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
4. ARM 1 arm identification should be identical to that in the GENERAL form	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5. ARM 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6. ARM 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7. ARM 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

8. Outcome (select number from list above)

Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
9. ARM 1 arm identification should be identical to that in the GENERAL form	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10. ARM 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11. ARM 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
12. ARM 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

13. Outcome (select number from list above)

Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
14. ARM 1 arm identification should be identical to that in the GENERAL form	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15. ARM 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
16. ARM 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
17. ARM 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

18. Outcome (select number from list above)

Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
19. ARM 1 arm identification should be identical to that in the GENERAL form	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

20. ARM 2							
21. ARM 3							
22. ARM 4							

23. Outcome (select number from list above)

Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
24. ARM 1 arm identification should be identical to that in the GENERAL form							
25. ARM 2							
26. ARM 3							
27. ARM 4							

28. Outcome (select number from list above)

Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
29. ARM 1 arm identification should be identical to that in the GENERAL form							
30. ARM 2							
31. ARM 3							
32. ARM 4							

33. Outcome (select number from list above)

Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
34. ARM 1 arm identification should be identical to that in the GENERAL form							
35. ARM 2							
36. ARM 3							
37. ARM 4							

38. Outcome (select number from list above)







Please Select

	n (with outcome)	%	effect estimate relative to	CI	n per year (if applicable)	p-vaule	denominator for this outcome (if different)
39. ARM 1 arm identification should be identical to that in the GENERAL form							
40. ARM 2							
41. ARM 3							
42. ARM 4							

43. Continuous Outcomes at last observation

time point of last ovbervation

Efficacy/effectiveness	Toxicities
27 Hb F %	47 platelet count
28 % F cells	48 neutrophil count(ANC)
29 hemoglobin	49 sperm count
30 MCV	50 sperm motility
31 reticulocyte count	
32 white blood cell count	
33 transcranial doppler velocity	
34 height	
35 weight	
36 head circumference	
37 Total days in hosp	
38 Time to first crisis	
39 Time to first acute chest	
40 Time to neoplasm	
41 Daily pain severity	
42 Number of transfusions	

43 Units (RBC) transfused	
44. other 	45. other 
45. other 	52. other 
46. other 	53. other 

46. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
47. ARM 1 arm identification should be identical to that in the GENERAL form							
48. ARM 2							
49. ARM 3							
50. ARM 4							

51. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
52. ARM 1 arm identification should be identical to that in the GENERAL form							
53. ARM 2							
54. ARM 3							
55. ARM 4							

56. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
57. ARM 1 arm identification should be identical to that in the GENERAL form							
58. ARM 2							
59. ARM 3							
60. ARM 4							

61. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
62. ARM 1 arm identification should be identical to that in the GENERAL form							
63. ARM 2							
64. ARM 3							
65. ARM 4							

66. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
67. ARM 1 arm identification should be identical to that in the GENERAL form							
68. ARM 2							
69. ARM 3							
70. ARM 4							

71. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
72. ARM 1 arm identification should be identical to that in the GENERAL form	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
73. ARM 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
74. ARM 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
75. ARM 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

76. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
77. ARM 1 arm identification should be identical to that in the GENERAL form	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
78. ARM 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
79. ARM 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
80. ARM 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

81. Outcome (select number from list above)

Please Select

	units	mean	SD	median	range	Estimate of effect (diff, RR, HR, OR); relative to arm2	Significance
82. ARM 1 arm identification should be identical to that in the GENERAL form	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
83. ARM 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
84. ARM 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
85. ARM 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

86. What characteristics predict benefit?

Enlarge Shrink

87. What characteristics predict toxicity?

Enlarge Shrink

88. The article reports the outcomes by the following groups.

- age
- genotype
- ethnicity/race
- disease
- resource-poor

89.

Comments:

Enlarge Shrink

Click a link below to review this article at these other levels.

- [4. TRIAGE](#)
- [5. GENERAL](#)
- [7. Additional Arms](#)
- [8. KQ3 TOX Case Reports](#)

[9. KO4 Barriers](#)
[10. QUALITY--observational studies](#)
[11. QUALITY--controlled trials](#)
[12. QUALITY--qualitative studies](#)
[13. QUALITY--surveys](#)
[19. Renee data abstraction](#)

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Previewing at Level 10

Refid: 10, Hu, Y. H. and Ruckenstein, E., Tunable Delocalization of Unpaired Electrons of Nitroxide Radicals for Sickle-Cell Disease Drug Improvements, *J Phys Chem B*, 2007

State: Excluded, Level: 2

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QUALITY FORM Observational Studies

1. Did the study describe the setting or population from which the study sample was drawn?

- No
- To some extent
- Yes, with detailed description: *setting (e.g., clinic), location, and dates*

[Clear Selection](#)

2. Were the inclusion or exclusion criteria described? (just saying "sickle cell disease" is insufficient)

- No
- To some extent
- Yes, with detailed description: *methods for selection of participants, or inclusion/exclusion criteria, or diagnostic criteria for enrollment*

[Clear Selection](#)

3. Does the study describe the key characteristics of study participants at enrollment/baseline?

- No
- To some extent
- Yes, with detailed description: *age, sex, genotype, relevant comorbidities which can influence outcomes*

[Clear Selection](#)

4. Was the intervention described? (intervention may be a drug or an intervention to overcome a barrier)

- NA
- No
- To some extent
- Yes, with detailed description: *how intervention was administered (dose, titration schedule), who does intervention, instructions for patients*

[Clear Selection](#)

5. Was there a description of adherence to the drug or the completeness of the intervention?

- No
- To some extent
- Yes, with description of method of assessment, *number completing intervention, and how adherence was measured*
- NA

[Clear Selection](#)

6. Do the authors report an adjusted or stratified estimate of the treatment effect *if* this study compared two or more groups

- NA
- No

- To some extent
- Yes: *multivariate analyses accounting for all potential confounders*

[Clear Selection](#)

7. Do the authors report at least one objective outcome from the intervention?

- No
- To some extent
- Yes: *method of assessment is objective, replicable, relevant to the intervention*
- NA

[Clear Selection](#)

8. Did the study report the number of participants lost to follow-up?

- No
- To some extent (number only)
- Yes, with description of reasons for loss: *number lost and reason for loss*
- NA

[Clear Selection](#)

9. What was the percentage of participants who were lost to follow-up?

- Not reported
- n/N
- %
- NA

[Clear Selection](#)

Click a link below to review this article at these other levels.

[4. TRIAGE](#)

[5. GENERAL](#)

[6. KQs 1, 2, or 3](#)

[7. Additional Arms](#)

[8. KQ3 TOX Case Reports](#)

[9. KQ4 Barriers](#)

[11. QUALITY--controlled trials](#)

[12. QUALITY--qualitative studies](#)

[13. QUALITY--surveys](#)

[19. Renee data abstraction](#)

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Previewing at Level 4

Refid: 10, Hu, Y. H. and Ruckenstein, E., Tunable Delocalization of Unpaired Electrons of Nitroxide Radicals for Sickle-Cell Disease Drug Improvements, *J Phys Chem B*, 2007

State: Excluded, Level: 2

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TRIAGE FORM

Use this form **ONLY**:

1. If you have reviewed an article for data abstraction and have found that the article **SHOULD NOT** be reviewed {choose the appropriate reason below}, or
2. If article requires **group discussion** before data abstraction.

1. This article should NOT be reviewed at this time ofr the following reason(s):

- insufficient data to address question, or very minimal description of study population (e.g. provides no relevant outcome data or no details about the included patients or no description about the intervention except that it was hydroxyurea)
- study is a case series <100 patients
- study is a case report but there is no description of duration of use of hydroxyruea OR no description of dose
- study addresses pregnancy
- triage for group discussion about relevance

[Clear Selection](#)

2.

Comment: please write a sentence about the article if it may be a useful article for the discussion



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[5. GENERAL](#)

[6. KQs 1, 2, or 3](#)

[7. Additional Arms](#)

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[9. KQ4 Barriers](#)

[10. QUALITY--observational studies](#)

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[12. QUALITY--qualitative studies](#)

[13. QUALITY--surveys](#)

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