

## **Online Supplemental**

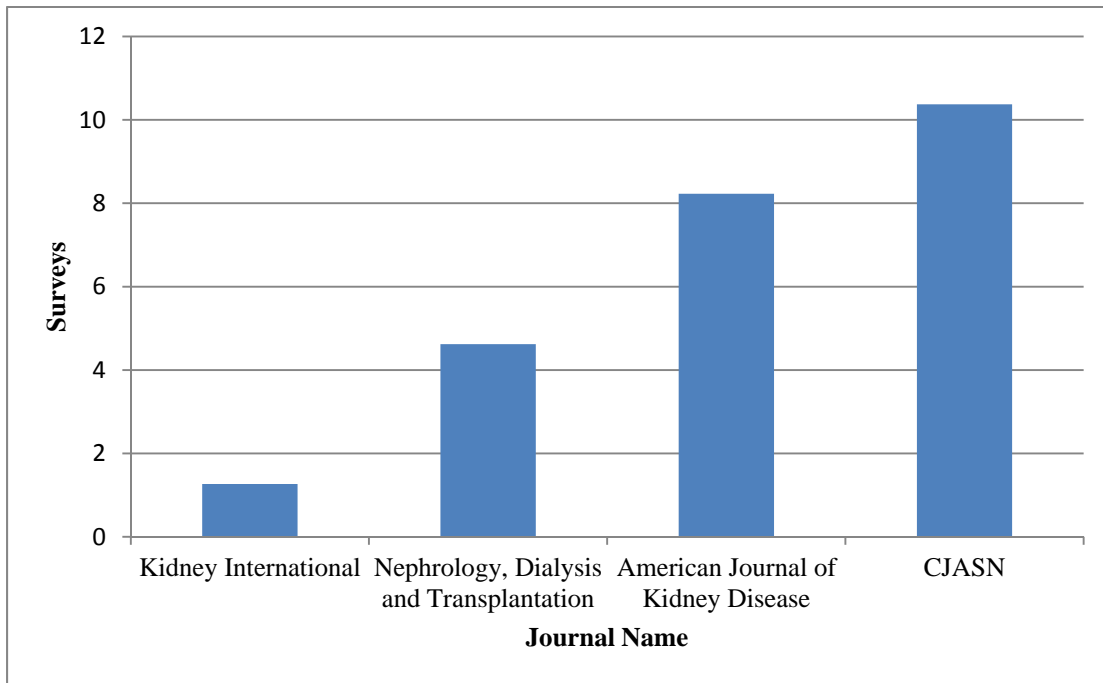
eFigure 1: Number of surveys published in 4 nephrology journals per 1000 citations from 2001-2011

eFigure 2: Number of surveys published per 1000 citations per year (2001 to 2011)

eTable 1: List of references and key characteristics guidelines

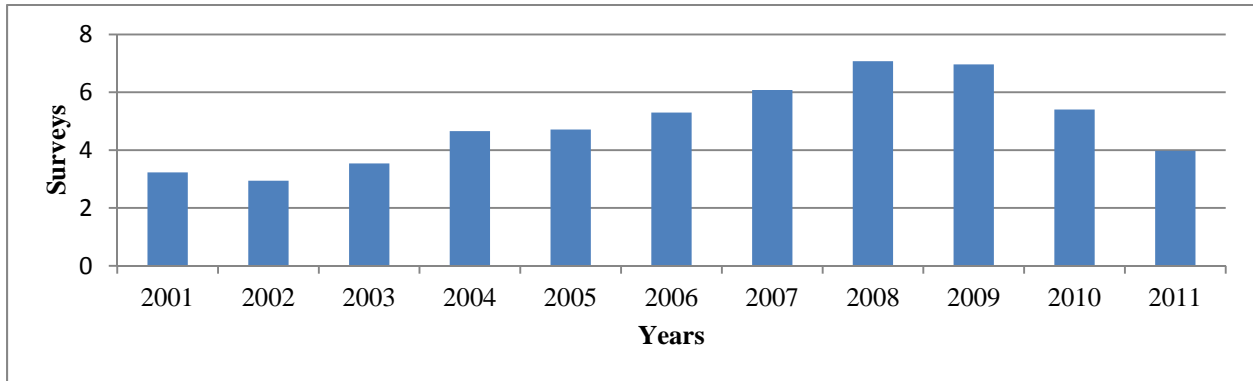
eAppendix 1: Data Abstraction Form

**eFigure 1:** Number of surveys published in 4 nephrology journals per 1000 citations from 2001-2011



$P < 0.001$ , Chi-square test.

**eFigure 2:** Number of surveys published per 1000 citations per year (2001 to 2011)



$P = 0.051$ , Cochran-Armitage test

**Note:** The Clinical Journal of the American Society of Nephrology began publishing journals in the year 2006.

**eTable 1:** List of references and key characteristics

|    | Author           | Year Published | Country(ies)/continent survey was conducted | Were reminders to repeat delivery of surveys used after the initial survey delivery? | Did the authors offer reimbursement for completion? | Did the authors state an eligibility list? | Was a previously published instrument used? | Pretesting | did the study report climimetric properties | Did the authors report that the study received REB approval? | Was the amount of missing data reported? | Were characteristics of respondents reported? | Was the survey instrument included, appended, or linked to the report? | Did they use a flowchart of survey responses? |
|----|------------------|----------------|---|--|---|--|---|------------|---|--|--|---|--|---|
| 1  | Gabolde et al.   | 2001           | Europe                                      | No   | No  | No   | No  | No         | No  | No   | No                                       | Minimally                                     | No   | No  |
| 2  | Miura et al.     | 2001           | Asia  | Not Reported   | No  | No   | No  | No         | No  | No   | Completely                               | Extensively                                   | Yes  | No  |
| 3  | Moss et al.      | 2001           | US  | Not applicable   | No  | Yes  | No  | Yes        | No  | Yes  | No                                       | Extensively                                   | Yes  | No  |
| 4  | Sekkarie et al.  | 2001           | US and Canada                               | Yes  | No  | No   | No  | No         | No  | No   | No                                       | Minimally                                     | Partially  | No  |
| 5  | Mendelson et al. | 2001           | US  | Yes  | No  | No   | No  | Yes        | No  | No   | No                                       | Extensively                                   | Partially  | No  |
| 6  | Wilson et al.    | 2001           | Multinational                               | Yes  | No  | No   | No  | Yes        | Yes   | No   | No                                       | Extensively                                   | Yes  | No  |
| 7  | Griva et al.     | 2002           | Europe                                      | No   | No  | Yes  | Yes   | No         | Yes   | Yes  | Partially                                | Extensively                                   | Partially  | No  |
| 8  | Jassal et al.    | 2002           | Europe                                      | Yes  | No  | Yes  | Yes   | Yes        | No  | Yes  | No                                       | Minimally                                     | Partially  | No  |
| 9  | Persson et al.   | 2002           | Europe                                      | No   | No  | No   | No  | Yes        | No  | Yes*   | Completely                               | No  | Partially  | No  |
| 10 | Mehrotra et al.  | 2002           | US and Canada                               | Yes  | No  | No   | No  | No         | No  | Yes  | Partially                                | Extensively                                   | Yes  | No  |
| 11 | Belasco et al.   | 2002           | Other                                       | No   | No  | Yes  | Yes   | No         | No  | Yes  | No                                       | Extensively                                   | Yes  | No  |
| 12 | Zimmerman et al. | 2003           | Canada                                      | Yes  | No  | No   | No  | Yes        | No  | Yes  | No                                       | Extensively                                   | No   | No  |
| 13 | Harwell et al.   | 2003           | US  | Yes  | No  | Yes  | No  | No         | No  | No   | Completely                               | Minimally                                     | No   | No  |

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|----|-------------------|------|---------------|--------------|-----|-----|-----|-----|-----|------|------------|-------------|-----------|-----|
| 14 | Holly et al.      | 2003 | US            | Yes          | Yes | Yes | Yes | Yes | No  | Yes  | No         | Extensively | Partially | No  |
| 15 | Johansen et al.   | 2003 | US            | Not Reported | No  | Yes | No  | No  | No  | Yes  | Partially  | Extensively | No        | No  |
| 16 | Pradel et al.     | 2003 | US            | No           | No  | Yes | No  | Yes | No  | Yes  | Partially  | Extensively | No        | No  |
| 17 | McLaughlin et al. | 2003 | Canada        | Yes          | Yes | No  | No  | Yes | Yes | Yes  | Partially  | Extensively | No        | No  |
| 18 | Conesa et al.     | 2004 | Europe        | No           | No  | Yes | No  | Yes | No  | No   | Partially  | Extensively | Yes       | No  |
| 19 | lennerling et al. | 2004 | Europe        | Yes          | No  | Yes | No  | Yes | No  | Yes  | No         | Minimally   | Partially | No  |
| 20 | Ayanian et al.    | 2004 | US            | Yes          | Yes | No  | No  | Yes | No  | Yes  | Completely | Extensively | Partially | No  |
| 21 | Berman et al.     | 2004 | US            | No           | No  | No  | Yes | No  | Yes | Yes  | No         | Extensively | Partially | No  |
| 22 | Israni et al.     | 2004 | US            | Yes          | No  | Yes | No  | No  | No  | Yes  | No         | Extensively | Yes       | Yes |
| 23 | Bajwa et al.      | 2004 | US            | No           | No  | No  | Yes | No  | Yes | No   | Completely | Extensively | Yes       | No  |
| 24 | Giraldi et al.    | 2004 | Europe        | No           | No  | No  | No  | No  | No  | No   | No         | Extensively | Partially | No  |
| 25 | Conesa et al.     | 2004 | Europe        | No           | No  | Yes | Yes | No  | Yes | No   | Completely | Extensively | Yes       | No  |
| 26 | Goldfarb et al.   | 2005 | US            | Yes          | No  | No  | No  | No  | No  | Yes  | No         | Extensively | No        | No  |
| 27 | Stothers et al.   | 2005 | Canada        | Yes          | No  | Yes | No  | Yes | Yes | Yes  | Partially  | Extensively | Partially | No  |
| 28 | Gunda et al.      | 2005 | Europe        | Yes          | No  | Yes | No  | No  | No  | No   | Completely | Minimally   | Yes       | No  |
| 29 | Cohen et al.      | 2005 | US            | Yes          | No  | No  | Yes | No  | No  | Yes  | Completely | No          | Partially | No  |
| 30 | Geddes et al.     | 2005 | Europe        | No           | No  | Yes | No  | No  | No  | Yes* | Completely | Minimally   | Yes       | No  |
| 31 | Taylor et al.     | 2005 | US            | No           | No  | Yes | No  | No  | No  | No   | Partially  | Extensively | Yes       | No  |
| 32 | Vigneau et al.    | 2005 | Europe        | Yes          | No  | Yes | No  | No  | No  | No   | Completely | No          | No        | No  |
| 33 | Morelon et al.    | 2005 | Europe        | No           | No  | No  | No  | Yes | No  | No   | No         | Minimally   | No        | No  |
| 34 | Cunningham et al. | 2006 | Australasia   | Yes          | No  | Yes | No  | No  | No  | No   | Completely | Extensively | Yes       | No  |
| 35 | Ricci et al.      | 2006 | Multinational | No           | No  | No  | No  | No  | No  | No   | Partially  | Minimally   | No        | No  |
| 36 | Zimmerman et al.  | 2006 | Canada        | No           | No  | Yes | No  | Yes | No  | Yes  | Completely | Extensively | partially | No  |
| 37 | Belasco et al.    | 2006 | Other         | No           | No  | Yes | Yes | No  | Yes | Yes  | No         | Extensively | Partially | No  |
| 38 | Lea et al.        | 2006 | US            | No           | Yes | Yes | No  | No  | No  | No   | No         | Extensively | No        | No  |
| 39 | Miura et al.      | 2006 | Asia          | No           | No  | No  | No  | No  | No  | Yes  | No         | Extensively | Yes       | No  |
| 40 | Shalkham et al.   | 2006 | US            | No           | No  | No  | No  | No  | No  | No   | No         | No          | No        | No  |
| 41 | Boulware et al.   | 2006 | US            | Yes          | Yes | Yes | No  | Yes | No  | Yes  | Partially  | Extensively | No        | No  |

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|----|--------------------|------|---------------|--------------|-----|-----|-----|-----|-----|-----|------------|-------------|-----------|-----|
| 42 | Mendelssohn et al. | 2006 | Canada        | Yes          | No  | Yes | No  | Yes | No  | Yes | No         | Extensively | Partially | No  |
| 43 | Davison et al.     | 2006 | US and Canada | Yes          | No  | No  | Yes | No  | No  | Yes | No         | Extensively | Partially | No  |
| 44 | Juurgensen et al.  | 2006 | US            | No           | No  | Yes | No  | Yes | No  | no  | No         | Extensively | Yes       | No  |
| 45 | Housawi et al.     | 2007 | Multinational | No           | No  | Yes | No  | Yes | No  | No  | Completely | Minimally   | partially | No  |
| 46 | Hutichinson et al. | 2007 | Europe        | Yes          | No  | No  | No  | No  | No  | No  | No         | Minimally   | No        | No  |
| 47 | Klersy et al.      | 2007 | Europe        | No           | No  | Yes | Yes | No  | Yes | Yes | No         | Extensively | No        | No  |
| 48 | Visser et al.      | 2007 | Europe        | Yes          | Yes | No  | No  | Yes | No  | Yes | Partially  | Extensively | Partially | No  |
| 49 | Weisbord et al.    | 2007 | US            | No           | No  | Yes | Yes | No  | Yes | No  | Partially  | Extensively | No        | No  |
| 50 | Hyre et al.        | 2007 | US            | Not Reported | No  | Yes | Yes | No  | Yes | Yes | Partially  | Extensively | Yes       | No  |
| 51 | Lai et al.         | 2007 | Asia          | Not Reported | No  | Yes | Yes | No  | Yes | Yes | Completely | Extensively | Partially | Yes |
| 52 | Tagay et al.       | 2007 | Europe        | No           | No  | Yes | Yes | No  | Yes | No  | Completely | Extensively | Partially | No  |
| 53 | Cukor et al.       | 2007 | US            | No           | Yes | No  | Yes | No  | yes | Yes | No         | Extensively | No        | No  |
| 54 | Overberger et al.  | 2007 | US            | No           | No  | No  | No  | No  | No  | Yes | No         | No          | Yes       | No  |
| 55 | Weisbord et al.    | 2007 | US            | No           | No  | Yes | Yes | No  | No  | Yes | No         | Minimally   | Partially | No  |
| 56 | Banas et al.       | 2008 | Europe        | No           | No  | No  | No  | No  | No  | Yes | Completely | Extensively | Partially | No  |
| 57 | Fan et al.         | 2008 | Europe        | No           | No  | No  | Yes | No  | No  | Yes | No         | Extensively | No        | Yes |
| 58 | Kranenburg et al.  | 2008 | Europe        | No           | Yes | No  | Yes | Yes | No  | No  | No         | Extensively | Yes       | No  |
| 59 | Parekh et al.      | 2008 | US            | No           | No  | No  | No  | Yes | No  | Yes | Completely | Extensively | No        | No  |
| 60 | Rios et al.        | 2008 | Europe        | No           | No  | No  | No  | Yes | Yes | No  | Completely | Extensively | No        | No  |
| 61 | Accetta et al.     | 2008 | US            | Yes          | No  | Yes | Yes | Yes | No  | No  | Partially  | Minimally   | Yes       | No  |
| 62 | Agarwal et al.     | 2008 | US            | No           | Yes | Yes | No  | Yes | Yes | Yes | Completely | Extensively | Yes       | No  |
| 63 | Argentero et al.   | 2008 | Europe        | No           | No  | Yes | Yes | Yes | Yes | No  | Partially  | Extensively | No        | No  |
| 64 | Waterman et al.    | 2008 | US            | Yes          | No  | Yes | No  | Yes | Yes | Yes | Completely | Extensively | Yes       | No  |
| 65 | Young et al.       | 2008 | Canada        | No           | No  | Yes | Yes | Yes | Yes | Yes | No         | Extensively | Yes       | Yes |
| 66 | Berns et al.       | 2008 | US            | Yes          | No  | No  | No  | No  | No  | No  | Partially  | No          | Yes       | No  |

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|----|------------------|------|---------------|-----|-----|-----|-----------|-----|-----|------|------------|-------------|-----------|-----|
| 67 | Pradel et al.    | 2008 | US            | Yes | No  | Yes | No        | Yes | No  | Yes* | Partially  | Extensively | Partially | No  |
| 68 | Reese et al.     | 2008 | US            | No  | No  | Yes | No        | Yes | Yes | Yes  | Partially  | Extensively | Partially | No  |
| 69 | Abdel et al.     | 2009 | US            | No  | No  | Yes | Yes       | No  | No  | Yes  | Partially  | Extensively | Partially | No  |
| 70 | Aasebo et al.    | 2009 | Europe        | No  | No  | No  | Yes       | No  | Yes | Yes  | Partially  | Extensively | Yes       | No  |
| 71 | Bouvier et al.   | 2009 | Europe        | Yes | No  | Yes | Yes       | No  | No  | No   | Partially  | No          | Yes       | No  |
| 72 | Couchoud et al.  | 2009 | Multinational | Yes | No  | No  | No        | No  | No  | No   | Partially  | Minimally   | Yes       | No  |
| 73 | Vamos et al.     | 2009 | Europe        | No  | No  | Yes | No        | Yes | No  | Yes  | Partially  | Extensively | Partially | No  |
| 74 | Wong et al.      | 2009 | Australasia   | Yes | No  | Yes | No        | Yes | No  | Yes  | Completely | Extensively | No        | No  |
| 75 | Bond et al.      | 2009 | US            | Yes | No  | Yes | Yes       | No  | No  | No   | Partially  | No          | Partially | Yes |
| 76 | Hurley et al.    | 2009 | US            | Yes | No  | Yes | No        | Yes | No  | Yes  | Completely | Extensively | Yes       | No  |
| 77 | Irving et al.    | 2009 | Australasia   | Yes | No  | Yes | Yes       | Yes | No  | Yes  | Partially  | Extensively | Yes       | Yes |
| 78 | Israni et al.    | 2009 | US            | Yes | Yes | Yes | No        | Yes | Yes | Yes  | Partially  | Extensively | Yes       | No  |
| 79 | Charles et al.   | 2009 | US            | Yes | Yes | Yes | No        | No  | No  | Yes  | Completely | Extensively | Yes       | No  |
| 80 | Cukor et al.     | 2009 | US            | No  | No  | No  | Yes       | No  | Yes | No   | Completely | Extensively | Partially | No  |
| 81 | Agarwel et al.   | 2009 | US            | No  | Yes | Yes | No        | Yes | Yes | Yes  | Completely | Extensively | Yes       | No  |
| 82 | Cafazzo et al.   | 2009 | Canada        | Yes | No  | Yes | Yes       | No  | Yes | Yes  | No         | Extensively | Partially | Yes |
| 83 | Bollee et al.    | 2010 | Europe        | No  | No  | No  | No        | No  | No  | No   | Partially  | Extensively | Yes       | No  |
| 84 | Davison et al.   | 2010 | Canada        | Yes | No  | Yes | No        | No  | No  | No   | No         | Extensively | Partially | No  |
| 85 | Kurella et al.   | 2010 | US            | No  | No  | Yes | Yes       | No  | No  | Yes  | Partially  | Extensively | Partially | No  |
| 86 | Xi et al.        | 2010 | US and Canada | Yes | No  | Yes | No        | Yes | No  | Yes  | Partially  | Extensively | Yes       | No  |
| 87 | Abdel et al.     | 2010 | US            | Yes | No  | Yes | No        | Yes | No  | Yes  | Partially  | Extensively | Yes       | No  |
| 88 | Davison et al.   | 2010 | Canada        | No  | No  | Yes | No        | Yes | Yes | Yes  | No         | Extensively | Partially | No  |
| 89 | Diamant et al.   | 2010 | Canada        | No  | No  | Yes | Yes       | No  | Yes | Yes  | Partially  | Extensively | Partially | No  |
| 90 | Evans et al.     | 2010 | US            | No  | No  | Yes | No        | Yes | No  | No   | No         | Minimally   | No        | No  |
| 91 | Hizo-abes et al. | 2010 | Canada        | Yes | No  | Yes | Partially | Yes | Yes | Yes  | Partially  | Extensively | Partially | Yes |
| 92 | Weinstein et al. | 2010 | US and Canada | No  | No  | No  | No        | Yes | No  | No   | Completely | Extensively | Yes       | No  |
| 93 | Wong et al.      | 2010 | US            | Yes | No  | Yes | No        | Yes | No  | Yes  | Completely | Extensively | Yes       | No  |
| 94 | Allen et al.     | 2011 | Multinational | Yes | No  | Yes | No        | Yes | No  | Yes  | Partially  | Extensively | No        | Yes |

|                      |                 |      |               |     |     |     |     |     |     |      |            |             |           |    |
|----------------------|-----------------|------|---------------|-----|-----|-----|-----|-----|-----|------|------------|-------------|-----------|----|
| 95                   | Hobson et al.   | 2011 | Europe        | Yes | No  | Yes | No  | Yes | No  | Yes* | Completely | Extensively | Yes       | No |
| 96                   | Sanner et al.   | 2011 | Europe        | Yes | No  | Yes | No  | Yes | No  | No   | Partially  | Extensively | No        | No |
| 97                   | Song et al.     | 2011 | US            | No  | Yes | Yes | Yes | No  | Yes | Yes  | Partially  | Extensively | Partially | No |
| 98                   | Toussant et al. | 2011 | Australasia   | No  | No  | Yes | No  | No  | No  | Yes  | Completely | Extensively | No        | No |
| 99                   | Fadem et al.    | 2011 | US            | No  | No  | No  | No  | No  | No  | No   | Partially  | Extensively | No        | No |
| 100                  | Foster et al.   | 2011 | US            | No  | No  | Yes | Yes | Yes | No  | Yes  | Completely | Extensively | Partially | No |
| 101                  | Garonzik et al. | 2011 | US            | No  | No  | Yes | No  | No  | No  | No   | Partially  | No          | No        | No |
| 102                  | Palacio et al.  | 2011 | Multinational | No  | No  | Yes | No  | No  | No  | No   | No         | No          | Yes       | No |
| *Stated not required |                 |      |               |     |     |     |     |     |     |      |            |             |           |    |



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## A) Survey Characteristics

A1. Year of Study: \_\_\_\_\_

A2. Year survey was sent: \_\_\_\_\_

A3. Country of Study: \_\_\_\_\_

A3. Who was the target of the survey?

Patients

Healthcare Workers (i.e. nephrologist, nurse, social worker)

Family Member

A4. Was the survey cross-sectional or longitudinal?

Cross-sectional (*only administered once*)

Longitudinal (*data collected multiple times on same group of people*)

A5. Mode of administration:

Self-Administered (*Paper or Internet*) (*If answered YES proceed to A5.1*)

Phone

Face to Face (*Interview*)

Combination of Methods

Other: \_\_\_\_\_

**A5.1. If self-administered, was it:**

Paper

Internet

Combination of Paper and Internet

**A6. Geographical scope of survey:**

Single Unit (*i.e. a specific dialysis unit within a hospital*)

Single Center (*i.e. one hospital*)

Single City (*i.e. multiple centers in the same city*)

Region within a Country

National

Multinational

Not Reported

Other: \_\_\_\_\_

**A7. Focus of Survey:**

- Knowledge
- Attitudes/Opinions/Perceptions
- Behaviors or Practice
- Not Reported
- Other: \_\_\_\_\_

**A8. Topic of survey:**

- Quality of life
- Dialysis
- Transplantation
- Medication
- Other: \_\_\_\_\_

**A9. Method of FIRST delivery (i.e. pre-notice letter):**

- Postal
- Email
- Electronic (i.e. survey advertised on a website)

- Hand-delivered
- Fax
- Not reported
- Other: \_\_\_\_\_

**A10. Were reminders to repeat delivery of surveys used after the initial survey delivery?**

- Yes
- No
- Not Reported

**A10.1 If yes to above, how many reminders were given? \_\_\_\_\_**

**A11. Did the authors report using Tailor Design Method<sup>†</sup> to maximize recruitment?**

- Yes
- No
- Other Method: \_\_\_\_\_

**A12. Did the authors report a form of reimbursement for completion of the survey or prior to the completion of the survey?**

- Yes



No

**A12.1 If yes to above, what type of reimbursement was given? (i.e. \$5 donation to charity, \$5 gift card):**\_\_\_\_\_

## **B. CHARACTERISTICS OF SURVEY RESPONDENTS**

**B1. Who was the target population? (be specific i.e. transplant surgeons):**\_\_\_\_\_

**B2. Who was actually surveyed?**\_\_\_\_\_

**B3. Professional affiliation (if employee) of population surveyed:**

Nephrologist

Surgeon

General Physician

Pharmacist

Physiotherapist

Nutritionist

Administrator

Other:\_\_\_\_\_

Not reported

Not Applicable

**B4. Type of patient (if patient) surveyed:**

- Dialysis patients
- Transplant recipients
- Living donors
- Families of Patients
- General Public
- Other: \_\_\_\_\_
- Not Reported
- Not Applicable

**C. QUALITY ASSESSMENT**

**C1. Is the question or objective of the study explicitly stated? Must include at least population of interest and focus or scope of the survey:**

- Yes
- No

**C2. Did the authors state an eligibility list? (i.e. inclusion and exclusion list):**

- Yes
- No

Other: \_\_\_\_\_

**C3. How were potential respondents selected (sampling method)?**

Convenience (*i.e. survey administered to conference attendees*)

Random

Stratified

Cluster

Not Reported

Other: \_\_\_\_\_

**C4. Was a previously published instrument used? *Select yes even if it is modified.***

Yes

No

**C5. With regards to survey development, were any of the following mentioned?**

Domains Outlined

Item Generation

Item Reduction

Techniques such as semi-structured or in-depth interviews or focus groups

Assessment of clinical sensibility

- Assessment of clarity
- Pre-testing or pilot testing
- Some testing done, but details are not clear

**C6. Were the following psychometric characteristics of the instrument reported?**

- Face (content) validity
- Construct validity
- criterion validity
- Inter-rater reliability
- Intra-rater Reliability
- Simply states survey instrument has been validated
- Simply states survey instrument is reliable
- Test-retest reliability

**C7. Did the authors report that the study received research ethics board (REB) approval?**

- Yes
- No
- Stated “not required”

Not Reported

**C8. Did the authors report source of funding?**

Yes

No

#### **D. REPORTING AND ANALYSIS**

**D1. Was study design (survey) explicitly explained in title?**

Yes

No

**D2. Number of surveys returned Total for survey, not subgroups if reported:** \_\_\_\_\_

**D3. Was response rate reported correctly?**

Yes

No

Not Reported

**D4. Reported Response Rate Total for survey, not subgroups if reported:** \_\_\_\_\_

**D5. Number of surveys included in the analysis. If included on a question-by-question basis, enter the highest number used:** \_\_\_\_\_

**D6. Did they use a flow diagram of survey responses?**

Yes

No

**D7. What methods of dealing with incomplete surveys were used?**

|   | Yes                      | No                       | Not Reported             |
|---|--------------------------|--------------------------|--------------------------|
| All surveys were complete                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Excluded all incomplete surveys from the analysis | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Included responses on an item-by-item basis       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**D8. Was the amount of missing data reported?** Completely = report # of respondents who contributed data for each question; Partially = reported for some questions.

Completed

Partially

No

**D9. What type(s) of analysis were used?**

Descriptive (i.e. mean)

Inferential (any statistical test to compare groups that is NOT regression)

Regression

Not reported

Other: \_\_\_\_\_

**D10. If they used regression, did they report 95% CI around the adjusted risk or odds?**

Yes

No

**D11. Did the statistical analysis match their primary objective?**

Yes

No

Not Clear

**D12. Was the survey instrument included, appended, or linked to the report?**

Yes

No

Partially