

Included in this resource are articles that will assist you in improving fistula rates at your facility. For those project partners who are focusing their efforts on specific areas of the Fistula First project, the resources have been categorized according to change concept. Some of these articles will be pertinent to multiple change concepts.

General References and Resources

A Graft-free Hemodialysis Practice is Possible in a Community-Based Dialysis Unit Despite High Patient Co-Morbidities by Vo Nguyen, Chris Griffith, Kevin Robinson. Abstract presented at the 2001 ASN Annual Meeting.

How Can the Use of Arteriovenous Fistulas be Increased? - A series of opinion papers by Hayden Hemphill and Michael Allon, Klaus Konner, Jack Work and Joseph A. Vassalotti. From *Seminars in Dialysis*, Vol 16, No 3 (May-June): pp 214-223. Topics discussed include requirements for optimizing fistula success, pre-dialysis evaluation, where to locate the “first” AVF, modified Gracz technique by Konner, and vein mapping.

Increasing Arteriovenous Fistulas in Hemodialysis Patients: Problems and Solutions by M Allon and ML Robbins. From *Kidney Int* 2002 Oct; 62(4): pp 1109-24. (Abstract. Full Text available on line).

The Initial Creation of Native Arteriovenous Fistula: Surgical aspects and Their Impact on the Practice of Nephrology by Konner, K *Seminars in Dialysis* 2003 Aug; 16 (4): pp 291-298.

Nursing Issues Related to Patient Selection, Vascular Access, and Education in Quotidian Hemodialysis by Rosemary Leitch, Michaelene Ouwendyk, Evelyn Ferguson, Laurie Clement, Karen Peters, Paul Heidenheim, and Robert Lindsay. From *American Journal of Kidney Diseases*, 2003 (July) Vol 42, No 1, Suppl 1: pp S56-S60. Discusses methods of Cannulation for patients with AVFs who are utilizing frequent Daily/Nocturnal Hemodialysis. The article reviews training methods, patient education and assessment for patient safety.

Overcoming Barriers to AVF Creation and Use by Charmaine E. Lok and Matthew J. Oliver. From *Seminars in Dialysis*, Vol 16, No 3 (May-June): pp 189-196. Discusses key components of a vascular access program, outcome tracking, preoperative vessel evaluation, procedures to facilitate AVF maturation, and transposed brachiobasilic and other tertiary fistula placement.

Change Concept #1 Routine CQI review of vascular access

A Multidisciplinary Approach to Hemodialysis Access: Prospective Evaluation by M Allon, R Bailey, R Ballard, MH Deierhoi, K Hamrick, K Oser, VK Rhyne, ML Robbins, S Saddekni and ST Zeigler. From *Kidney Int* 1998 (Feb); 53(2): pp 473-9 (Abstract. Full text available on line).

Developing a Critical Pathway for Vascular Access Management by R. Breiterman-White. From *ANNA Journal*, 1997 Feb; Vol 24 (1): pp 70-76, quiz on 77.

How a Multidisciplinary Vascular Access Care Program Enables Implementation of the DOQI Guidelines. Part I by CR Duda, LM Spergel, J Holland, CT Tucker, SJ Bander and JP Bosch. From *Nephrology News Issues* 2000 Apr; 14(5): pp 13-7.

Lessons Learned. Implementing a Vascular Access Quality Improvement Program Part II by CR Duda, LM Spergel, J Holland, CT Tucker, SJ Bander and JP Bosch. From *Nephrology News Issues*. 2000 May 14(6): pp 29-32,37.

Change Concept #1 cont.

The Value of a Vascular Access Coordinator by LC Dinwiddie. From *Nephrology News Issues* 2003 May: pp 49-53.

**Change Concept #2
Timely referral to nephrologist**

Assessment of a Policy to Reduce Placement of Prosthetic Hemodialysis Access by KD Gibson, MT Capt, TR Kohler, TS Hasukami, DL Gillen, M Aldassy, DJ Sherrard and CO Stehman-Breen. From *Kidney Int.* 2001 June; 59 (6): pp 2335-45 (Abstract. Full text available on-line.

National Kidney Foundation Practice Guidelines for Chronic Kidney Disease: Evaluation, Classification, and Stratification by A.Leverly, J. Coresh, E. Balk, A. Kausz, A. Levin, M. Steffes, R. Hogg, R. Perrone, J Lau, G Eknoyan. From *Ann Intern Med.* 2003 Jul; Vol 139 (2): pp 137-149. Defines the five-stage classification system of chronic kidney disease (CKD) and summarizes the major recommendations on early detection in adults. This information is particularly important for general internists and specialists

Prospective Validation of an Algorithm to Maximize Native Arteriovenous Fistulae for Chronic Hemodialysis Access by TS Huber, CK Ozaki, TC Flynn, WA Lee, SA Berceli, CM Hirneise, LM Carlton, JW Carter, EA Ross and JM Seeger. From *J Vasc Surg* 2002 Sep; 36(3): pp 452-9.

Vascular Access Surgery Managed by Renal Physicians: The Choice of Native Arteriovenous Fistulas for Hemodialysis by Pietro Ravini, MD, Daniele Marcelli, MD, and Fabio Malberti, MD. From *AJKD, 2002 (December), Vol 40, No 6: pp 1264-1276.*

**Change Concept #3
Early referral to surgeon for “AVF only” evaluation and timely placement**

The Clinical Utility of Doppler Ultrasound Prior to Arteriovenous Fistula Creation by KS Brimble, CG Rabbat, D Schiff and AJ Ingram. From *Seminars in Dialysis* 2002 Sep-Oct; 14(5): pp 314-317.

Effect of Preoperative Sonographic Mapping on Vascular Access Outcomes in Hemodialysis Patients by M Allon, ME Lockhart, RZ Lillo, MJ Gallichio, CJ Young, J Barker, MH Deierhoi and ML Robbin. From *Kidney Int* 60 (2001): pp 2013-2020.

Obese and Non-Obese Hemodialysis Patients Have a Similar Prevalence of Functioning Arteriovenous Fistula Using Pre-Operative Vein Mapping by JA Vassolotti, A Falk, ED Cohl, J Uribarri and V Teodorescu. From *Clin Nephrology* 2002 Sep; 58(3): pp 211-4. (Abstract only).

Role of Sonography in the Planning of Arteriovenous Fistulas for Hemodialysis by Marko Malovrh, *Seminars in Dialysis* 2003 Aug; 16 (4): pp 299-303.

A Strategy for Increasing Use of Autogenous Hemodialysis Access Procedures: Impact of Preoperative Noninvasive Evaluation by MB Silva, RW Jobson, PJ Pappas, Z Jamil, CT Araki, MC Goldbert, G Gwertzman and FT Padberg. From *J Vasc Surg* 1998; 27: pp 302-8.

Strategy for Maximizing the Use of Arteriovenous Fistulae by GA Beathard. From *Seminars in Dialysis* 2000 Sep-Oct; 13(5): pp 291-296.

Change Concept #3 cont.

Transition to All-Autogenous Hemodialysis Access: The Role of Preoperative Vein Mapping by RL Dalman, EJ Harris Jr, BJ Victor and SM Coogan. From *Ann Vasc Surg* 2002 Sep; 16(5): pp 624-30.

US Vascular Mapping Before Hemodialysis Access Placement by ML Robbin, MH Gallichio, MH Dieirhoi, CJ Young, TM Weber and M Allon. From *Radiology* 2000 Oct; 217(1): pp 83-8.

Venous Access: Women are Equal by N Caplin, MD Sedlacek, V Teodorescu, A Falk, and J Uribarri. From *Am J Kidney Dis* 2003 Feb; 41(2): pp 429-432. (Abstract only).

Change Concept #4 Surgeon selection based on best outcomes, willingness, and ability to provide access services

Impact of Surgeon and Surgical Center Characteristics on Choice of Permanent Vascular Access by Ann M. O'Hare, R. Adams Dudley, Denise M. Hynes, Charles E. McCulloch, Daniel Navarro, Philip Colin, Kevin Stroupe, Joseph Rapp, and Kristen L. Johansen. From *Kidney International*, 2003; Vol 64: pp 681-689.

K/DOQI Clinical Practice Guidelines for Chronic Kidney Disease: Evaluation, Classification, and Stratification Full Text from *AJKD* 2002 Feb; Vol 39, No2, Suppl 1: ppS1-S266

K/DOQI Clinical Practice Guidelines for Chronic Kidney Disease: Evaluation, Classification, and Stratification: Guideline 2. Evaluation and Treatment. (p.S65).

K/DOQI Clinical Practice Guidelines for Vascular Access 2000. National Kidney Foundation. From *Am Journal Kidney Dis* 37; pp S137-S181, 2001 (sup I). Introduction.

Change Concept #5 Surgeons provide a full range of appropriate surgical approaches to AVF evaluation and placement

Aggressive Treatment of Early Fistula Failure by G Beathard. From *Kidney International* 2003 (Oct), Vol 64, (4) pp 1487-1494.

Arteriovenous Fistula Using Transposed Basilic Vein by PC Butterworth, TM Doughman, TJ Wheatley and ML Nicholson. From *Br J Sur* 1998 Dec; 85(12): pp 1721-2. (Abstract only).

The Brachiocephalic Elbow Fistula: A Useful Alternative Angioaccess for Permanent Hemodialysis by MH Bender, CM Bruyninckx and PG Gerlag. From *J Vasc Surg* 1995 Aug; 22(2): pp 195-96. (Abstract only).

Comparison of Transposed Brachiobasilic Fistulas to Upper Arm Grafts and Brachiocephalic Fistulas by MJ Oliver, RL McCann, OS Indirdason, DW Butterly and SJ Schwab. From *Kidney Int* 2001; 60: pp 1532-1539. (Abstract. Full Text available on line).

The Gracz Arteriovenous Fistula Evaluated. Results of the Brachiocephalic Elbow Fistula in Hemodialysis Angio-Access by MH Bender, CM Bruyninckx and PG Gerlag. From *Eur J Vasc Endovasc Surg* 1995 Oct; 10(3): pp 294-7 (Abstract only).

Change Concept #5 continued

Hemodialysis Vascular Access Survival: Upper-arm Native Arteriovenous Fistula by BS Dixon, L Novak and J Fangman. From *Am J Kidney Dis* 2002 Jan; 39(1): pp 92-101. (Abstract only).

The Upper Arm AV Hemoaccess: Long-term Follow-up by FJ Dagher. From *J Cardiovasc Surgery* 1086 Jul-Aug; 27(4): pp 447-9. (Abstract only).

Vascular Access Outcomes Using the Transposed Basilic vein Arteriovenous Fistula by Jonathan Segal, Liise Kayler, Peter Henke, Robert Merion, Sean Leavey, and Darrell Campbell. From *American Journal of Kidney diseases*, Vol 42, No 1 (July), 2003: pp 151-157. Reviews patient characteristics that affect long-term patency and characteristics that should be considered when exploring access options.

Vein Tranposition in the Forearm for Autogenous Hemodialysis Access by MB Silva, RW Hobson, PJ Pappas, PB Haser, CT Araki, MC Goldberg, Z Jamil and FT Padberg. From *J Vasc Surg* 2002 Dec; 26(6): pp 981-8. (Abstract only).

Change Concept #6
Place secondary AVF in AV graft patients where indicated

Successful Conversion of Dialysis Grafts into Secondary AVF. A three Year Experience at Providence St. Peter Hospital Dialysis Program by Vo Nguyen, Chris Griffith, Nephrology, Memorial clinic, Surgical associates, Olympia, WA. Abstract presented at the 2000 ASN Annual Meeting in Toronto.

Change Concept #7
Place AVF in catheter patients where indicated

Change Concept #8
Cannulation training for AV fistulas

Constant Site (Buttonhole) Method of Needle Insertion into AVF by Zybutl Twardowski. From *Dialysis and Transplantation*, Vol 24, No 10 (Oct), 1995: pp 559-576.

The Arteriovenous Graft: How to Use It Effectively in the Dialysis Unit by DJ Brouwer and P Peterson. From *Neph News Issues* 2002 Nov; pp 41-49.

Cannulation Camp: Basic Needle Cannulation Training for Dialysis Staff by Deborah J. Brouwer, RN, CNN. From *Dialysis and Transplantation*, Vol 24, No 11 (November), 1995: pg 606.

Creation, Cannulation and Survival of Arteriovenous Fistulae: Data From the Dialysis Outcomes and Practice Patterns Study by HC Rayner, RL Pisoni, BW Gillespie, DA Goodkin, T Akiba, T Akizawa, A Saito, EW Young and FK Port. From *Kidney Int* 2003 Jan; 63(1): pp 323-330 (Abstract. Full text available on line).

Change Concept #8 cont.

Fistula Cannulation: The Buttonhole Technique by P Peterson. From *Neph Nursing J* 2002 Apr; 29(2): pg 195.

Flipping or Rotating Fistula Needles by Leslie Dinwiddie. From *ANNA Journal, Readers' Responses*, Vol 24, No 5 (Oct), 1997: pp 559-560.

**Change Concept #9
Perform monitoring and surveillance to ensure adequate access function**

Detecting Vascular Access Dysfunction by A Besarab, T Lubkowski, S Frinak, S Ramanathan and F Escobar. From *ASAIO J* 1997 Sep-Oct; 43(5): pp M539-43. (Abstract only).

Interventions to Promote Fistula Maturation by LC Dinwiddie. From *Neph Nursing J* 2002 Aug; 29(4): pg 377, pg 402.

Impact of Reintervention for Failing Upper Extremity Arteriovenous Autogenous Access for Hemodialysis by A Hingorani, E Ascher, S Kallakuri, S Greenbert and Y Khanimov. From *J Vasc Surg* 2001; 34: pp 1004-9. (Abstract. Full Text available on line).

K/DOQI Clinical Practice Guidelines for Vascular Access 2000. National Kidney Foundation. From *Am J Kidney Dis* 37;S137-S181 (supl I). II. Monitoring, Surveillance, and Diagnostic Testing, Guideline 11.

Physical Examination of the Dialysis Vascular Access by GA Beathard. From *Seminars in Dialysis* 1998 Jul-Aug; 11(4): pp 231-236.

Vascular Access Blood Flow Monitoring Reduces Access Morbidity and Costs by P McCarley, RL Wingard, Y Shyr, W Pettus, RM Hakim and TA Ikizler. From *Kidney Int* 2001 Sep; 60(3): pp 1164-72). (Abstract. Full text available on line).

**Change Concept #10 Education for caregivers and patients
(These are resources, not references)**

American Nurses Credentialing Center, Washington DC. Resource: American Nursing Association. Web:<http://www.nursecredentialing.org/index.htm>,

Definition of CME (Policies 1821-B-03; 1998-C02; 2002-B-09), Chicago IL. Resource: Accreditation Council for Continuing Medical Education. Web: <http://www.accme.org/index.asp>.

**Change Concept #11
Outcomes feedback to guide practice**

Increasing AV Fistula Creation: The Akron Experience by CL Spuhler, KD Schwarze and JJ Sands. From *Nephrology News Issues*, May 2002: pp 44-49.