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## **Advance Care Planning in Hospice**



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Robert Hopkins, MD

## Communication in a 'Fact Resistant' World

**N**early every working day at least one patient tells me an anecdote gleaned from social media, the popular press or a blog.

Most of these are interesting, some are useful and many are completely without scientific basis. In the past week, patients have commented about new hypertension guidelines (Twitter); that I need to work smarter and not harder to avoid burnout which can adversely affect the care I deliver (NBC online news feed); and about 'legion dangers of childhood vaccines' (Facebook group). *How are we to respond to these 'pearls of wisdom' from our patients?* I thought it might be helpful to pass on some tips on communication with patients who need to be convinced to accept vaccines, based on a literature review I recently completed.

*#1: People often use mental shortcuts when making decisions.* We are constantly bombarded with data to which we often need to respond. While physicians have been trained to analyze facts, synthesize information and challenge our biases in order to make a decision, evidence-based decisions (although we do not always heed this process) are not easy or intuitive for many. Those who feel pressured to make a choice may decide based on the information that they recall most readily (termed availability bias). We also have the tendency to defend our 'knowledge' and beliefs, even in the face of overwhelming facts to the contrary (termed confirmation bias). We are more likely to affect change if we understand these heuristics.

*#2: Recognize your patient's goals and/or motivations.* A mother who wants to protect her child and who expresses concerns about vaccine safety may be more likely to accept an immunization if she understands the risk the disease poses and that you have vaccinated your children rather than by a review of the safety record of the vaccine. Common patient motivators may include a desire to protect

their family members, contribution to community health and preserving (or recovering) their own wellness. Trust that you are equally interested in the patient's motivation is essential. Unfortunately, persons with concrete conspiracy theories or ardent anti-science beliefs are unlikely to respond to our efforts to convince them to change. Spending time in debate is likely not an effective use of our limited time resources; although some may find it entertaining.

*#3: Learning style matters:* Medicine is grounded on making medical diagnoses; but the concept of 'diagnosis' as it applies to how our patients learn and how they are likely to respond to our communication is not as familiar to many clinicians. In addition to understanding motivation, ascertaining how our patients learn may provide additional opportunities to improve their health.

*#4: Humans are social creatures; with a tendency to 'run with the crowd.'* Many of our patients will tend to make decisions in the context of what they see as the 'norm' in their environment. Knowing your patients' 'milieu' (can refer to neighborhood, information source, family beliefs, or other contextual factors for specific individuals) can help you to approach your patients with the greatest likelihood of successful change.

*#5: Delivery is critical.* How we communicate with our patients about science may be as important as what we say. Irrespective of learning style, attacking a patient's questions or views with disbelief, scoffing comments or frank dismissal is likely to make the patient's expressed opinions more entrenched and less likely to be swayed to the goal you are trying to reach.

Teaching and encouraging patients and families requires a firm recommendation, knowledge of the facts and appreciation of their motivations; but, above all, we must communicate that we respect our patients as we expect them to respect us – especially when dealing with scientific resistance or hesitancy. **AMS**

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# Advance Care Planning in Hospice

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## Abstract

**A** serious medical illness or severe injury may leave an individual unable to make medical decisions for themselves.

Advanced care planning (ACP) involves learning about the types of health care decisions that might need to be made, considering these decisions ahead of time, and letting others know about these preferences often in the form of an advance directive. We conducted a survey about advance care planning among 20 hospice patients and assessed if they had an ACP, and if so, determined who had initiated the conversation and the context during which the ACP discussion was initiated. Our study revealed that a fourth of the survey participants did not have an ACP. Furthermore, only 3% of the participants had completed an ACP during their routine health care visit with only 26% reporting that their physician initiated the ACP conversation. Our study highlights

» **Advanced care planning (ACP) involves learning about the types of health care decisions that might need to be made, considering these decisions ahead of time, and letting others know about these preferences often in the form of an advance directive.<sup>1</sup>**

the need for physician discussion of ACP during routine health care visits in order to help patients make informed health care choices for themselves.

## Introduction

A diagnosis of a terminal medical illness or severe injury could place an individual in a situation where they are unable to make medical decisions for themselves. Advanced care planning (ACP) involves learning about the types of health care decisions that might need to be made, considering these decisions ahead of time, and letting others know about these preferences often in the form of an advance directive.<sup>1</sup> ACP entails an organized series of questions that allow the patients and their families to learn about the types of decisions that might need to be made at the end of life. Such decisions may include – appointing a surrogate decision maker, designating a code status, elaborating on individual preferences regarding artificial nutrition and hydration, use of antibiotics, dialysis as well as other comfort measures. Considering these decisions ahead of time and letting others know about these preferences in the form of an advance directive can effectively extend patient autonomy especially if the patient loses decision-making capacity, and alleviate stress on next of kin.

Some patients may require discussion regarding advance care planning multiple times during their care, especially if there is progression of disease or change in prognosis.

These decisions optimally need to be made before a diagnosis of a terminal illness or hospitalization and family members and the health care providers need to be aware of these preferences. However, patients often times do not make important end of life medical decisions until they are debilitated by their illness or medical condition. There are several potential causes for this observation including stigma surrounding ACP discussions and the inaccurate perception that only patients with life limiting illnesses should have an ACP in place. Provider discomfort or unfamiliarity with discussing end of life care could also contribute to the underutilization of ACP. Implementing ACP discussions should be a priority for health care providers as the impact of ACP on increasing the quality of end of life care has been well established within the medical literature.<sup>2</sup> Furthermore, having an ACP improves the patients' satisfaction with end of life care, which reduces stress, anxiety, and depression in surviving relatives.<sup>3</sup>

Patients on hospice have a diagnosed medical illness with a prognosis of six months (180 days) or less. Recent national studies indicate that the average time patients receive hospice care is only 72 days.<sup>4</sup> Ideally, ACP discussion needs to happen well before a patient is placed on hospice care. Yet, a large proportion of patients on hospice do not have an ACP.<sup>5</sup> Greater access to ACP has been called for by Centers of Disease Control and Prevention and has been identified as a public

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health issue.<sup>6</sup> We sought to assess the utilization of ACP among patients in a hospice program in the Central Arkansas region.

## Methods

We conducted a survey that sought to assess the use of advance care planning among 20 hospice patients during routine recertification visits. The survey was administered sequentially to hospice patients during their recertification visits. Informed consent was obtained either from the patient or their care givers prior to completion of the survey. The responses were obtained directly from the patients, patients' family members, or patients' caregivers that have regularly participated in the care of the patient. Patients who were unable to participate in the survey either due to inability to communicate, read/understand the questions or did not have a caregiver present who was able to answer the questions on the patients' behalf, were excluded from the survey. For those patients who reported that they did not have an ACP in place, a standardized ACP document was provided and instructions were given. The study design and protocol was submitted to the University of Arkansas for Medical Sciences Institutional Review Board as well as Baptist Health Institutional Review Board and an exemption was obtained.

## Results

The age range of the 20 patients who completed the survey were 49 to 94 years of age. Seventy-five percent of the respondents were female, and 25% were males. Ninety percent of the patients identified as white or Caucasian. Of those surveyed, 10% did not have a high school diploma, 45% had a high school diploma, and 30% reported having some college while only 15% reported that they had an undergraduate college degree. Twenty-five percent of the respondents did not have any form of ACP. Of those who had an ACP, 7% had it for less than a year, 20% had it in place for one to three years and 73% reported having completed an ACP for three or more years. Of those patients who have an ACP, only 3% had ACP completed during routine health care visit, 33% following a hospitalization, and 60% during other situations (estate planning, attorney recommendation, following counseling from spouse or a family member). Overall, 60%

of respondents reported that their physician discussed ACP to some extent with them, though, only 26% stated that their physician initiated the ACP conversation.

## Discussion

Our study showed that a fourth of the survey participants did not have an ACP. Twenty-six percent of patients stated that their physician initiated the ACP conversation and only 3% of the hospice patients had ACP completed during a routine health care visit. The majority of patients who had an ACP, had it completed following a hospitalization or following the diagnosis of a terminal illness. The findings highlight the need for physician discussion of ACP during routine health care visits.

Advance care planning begins with exploring patient preferences regarding health care decisions based on individual goals and values during a routine health care visit. Regular reevaluation of the ACP during follow up visits is essential, especially if there is progression of disease or change in prognosis. There are several barriers for not completing ACP during routine health care visits, including a lack of time and physician discomfort with facilitating these discussions during routine well check-ups. Indeed, Medicare has recognized the need for more ACP discussions to take place in the setting of clinical practice and has started reimbursing physicians and other qualified providers for advance care planning since January 2016.<sup>7</sup> Medicare now provides coverage for ACP discussions under Part B service or as a component of a beneficiary's annual wellness visit.<sup>7</sup> There is no limit to the number of times that ACP may be discussed and subsequently billed. Hence, physicians now have a financial incentive to incorporate ACP into their routine care.

There is a lack of formal education regarding ACP discussion among health care providers. Actor simulation models have been incorporated into medical education curriculum in order to adequately train health care providers on ACP discussions.<sup>8</sup>

While the results from the present study are limited due to a small convenient sample, it highlights the lack of ACP even in patients with advanced illness on hospice. Medicare reimbursement for ACP discussion along with increased health care provider awareness and

education may ensure completion of ACP during a routine health care visit.

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# CML presenting as priapism in young patient. Case presentation with current literature review.

Mihir Raval, MD, MPH<sup>1</sup>; Lin Hao, MD, PhD<sup>1</sup>; Rahul Ravilla, MD<sup>1</sup>; Appalanaidu Sasapu, MD<sup>1</sup>

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## Abstract

**P**riapism can be an initial presenting feature of Chronic Myeloid Leukemia (CML). We report a case of a 26-year-old male presenting to the emergency room with priapism for around 4 hours duration and blood work showing hyperleukocytosis. He underwent local urological treatment without improvement. The resolution of priapism was achieved by therapeutic leukapheresis, and hydroxyurea. Subsequently, he was diagnosed with CML and was started on Dasatinib. Authors are suggesting clinicians to be vigilant about rare presentation of CML as priapism and the need for multimodality treatment approach.

## Key words

CML, Hyperleukocytosis, Leukapheresis, Priapism, Dasatinib

## Introduction

Chronic myeloid leukemia (CML) is a myeloproliferative neoplasm. The characteristic underlying abnormality is fusion of two genes: BCR (22) and ABL1 (9) from reciprocal translocation between chromosome 9 and 22, t (9; 22) (q34; q11) resulting in abnormal chromosome 22 called Philadelphia chromosome (Ph) harboring the abnormal fusion gene BCR-ABL1. This translocation produces an abnormal fusion protein BCR-ABL1 (210kD oncoprotein- p210<sup>BCR-ABL1</sup>) that has enzymatic domain with tyrosine kinase (TK) activity, which is constitutively active due to BCR gene. This abnormal TK activity leads to uncontrolled production and proliferation of mature granulocytes mainly neutrophils that leads to different phases of the disease such as chronic phase (CP), accelerated phase (AP) or blast crisis phase (BC). CML accounts for total of 15-20% of leukemia in adults with annual incidence of

1-2/100,000 with male predominance (1.4:1).<sup>1</sup> There may be rare associated autosomal dominant familial predisposition.

Most of the CML patients present in chronic phase where disease is asymptomatic and presents with leukocytosis on blood work and splenomegaly on physical examination. The most common presenting symptoms for CML includes fatigue, malaise, weight loss, night sweats, abdominal fullness, bleeding, abdominal pain, and discomfort. In around 12% CML patients, hyperleukocytosis (WBC >100 × 10<sup>9</sup>/L) may lead to leukostasis symptoms including shortness of breath, chest pain, headaches, confusion, cranial nerve palsy, retinal hemorrhage, myocardial ischemia, and priapism.<sup>2</sup> The peripheral blood and bone marrow (BM) examination are diagnostic in CML.

Priapism is a medical and surgical emergency that is characterized by prolonged and painful erection of the penis unassociated with sexual arousal or desire. It is a rare presentation with 1.5 /100, 000 person per year incidence.<sup>3</sup> Priapism can be associated with many causes including hematological and non-hematological etiology. The hematological diseases reported to present with priapism include CML, Sickle cell disease, Polycythemia Vera, Multiple myeloma, and some hypercoagulable states. The pathophysiology of priapism is hyperviscosity, venous stasis and venous obstruction from thrombi and microthrombi with increased production of cytokines and adhesion molecules leading to endothelial cell activation and sequestration.<sup>4,5</sup> Even though CML alone represents 50% of all cases of leukemia related priapism, only 1-2% of patients with CML have priapism as initial presentation of their disease. If untreated within 24-48 hours, priapism can cause irreversible damage with fibrosis leading to erectile dysfunction or future episodes of priapism.

We report a case of a young male who presented with priapism of around 4-hour duration and found to have CML.

## Case presentation

Twenty-six-year-old African-American male came to the emergency room with concern of pain in his scrotum with persistent erection and pressure for a duration of 4 hours. His vital signs showed blood pressure of 151/80 mmHg, Heart rate 97/min, Temperature 98.5 F, Oxygen saturation 99% on room air. His examination for all the systems were within normal limit except for the genitourinary system showing an evidence of erected penis with discomfort to palpation. His blood work showed white blood cell count (WBC) 410 × 10<sup>9</sup>/L (Normal range (N)= 3.6-9.5 × 10<sup>9</sup>/L), Hemoglobin (Hb) 9.8 g/dl (N=13.0-17.0 g/dl), Hematocrit (HCT) 29.0 % (N 40-50%), Platelets (PLT) 136 × 10<sup>9</sup>/L (N=150-450 × 10<sup>9</sup>/L), Absolute neutrophil count 199 × 10<sup>9</sup>/L (N =1.4-6.0 × 10<sup>9</sup>/L), differential showing blast of 3% (N <2%), promyelocyte 2% (N <2%), myelocyte 25%, metamyelocytes 15%, INR 1.3 (N <4), Prothrombin time (PT) 16.2 seconds (N= 12.0-14.7 Seconds), Activated partial thromboplastin time (PTT) 43.2 seconds (N= 23.0-36.9 Seconds), LDH 1081 IU/L (N=100-248 IU/L), relatively normal renal chemistry and liver function panel. Peripheral blood smear showed leukocytosis with left shifted granulocytes, blasts < 5%, and scattered nucleated RBC. He was seen in emergency room by Urology and corpora cavernosa blood was obtained with venous blood gas analysis showing PH of 6.8, PCO<sub>2</sub> of 150, FIO<sub>2</sub> of 21 with COHb of 0.6 and O<sub>2</sub>Hb of 12.3 suggesting ischemia. He underwent corpora cavernosa irrigation with phenylephrine and normal saline followed by admission to inpatient hematology service to evaluate for the hyperleukocytosis. The priapism pain was resolved with the irrigation but the erection persisted which required further treatment. He denied headaches, blurring of vision,

chest pain or shortness of breath. He did not use sildenafil or any other medications. Patient was suspected to have hyperleukocytosis from possible CML due to such dramatic presentation. He was started on hydration, allopurinol, hydroxyurea, and pain medications. His abdominal ultrasound showed splenomegaly. He underwent one session of leukapheresis with improvement in his symptoms and reduction of WBC count (Figure 1). His priapism resolved the next day. His bone marrow results were positive for CML with BCR-ABL1 (t 9:22) (No evidence of 8p11, 5q33, 4q11). He was started on Dasatinib 100 mg daily and then later discharged home when he was stable. He achieved complete hematological response at 3 months and tolerating the treatment well on further follow up.

## Discussion

We described a case of a young 26-year-old male presenting with priapism and hyperleukocytosis. We suspected hematological malignancy and initiated local measures including corpora cavernosa irrigation with the sympathomimetic followed by hospital admission for intravenous hydration, hydroxyurea, allopurinol and initiation of leukapheresis, which all lead to resolution of priapism. Once the diagnosis of CML was confirmed, we initiated systemic treatment with Dasatinib. He responded well to the treatment and achieved his 3 month milestone of complete hematological response.

This case report highlights the importance of recognizing priapism as initial presentation of hematological malignancy such as CML and multimodality treatment approach needed for the management. There are no clear guidelines on how to manage this condition. Management usually involves both systemic and local treatment. Chisick et al., described an algorithm to manage priapism in CML and emphasized the need for local and systemic treatment to address the priapism and prevent the long-term complications associated with it.<sup>6</sup> American urological association recommends initiating the systemic treatment for underlying disorder along with the local treatment. Systemic therapy includes the cytoreductive therapy such as high dose hydroxycarbamide/hydroxyurea and Tyrosine Kinase inhibitors (TKIs) with or without the addition of leukapheresis to reduce the hyperviscosity related effects.<sup>2,7</sup> Hydroxyurea dose of 2000-6000 mg in divided doses reduces the white cell count by 60% in 24-48 hours. Hydroxyurea should be started immediately when diagnosis of CML is suspected and continued till the white cell count comes down

**Figure 1. White cell count (Nx1000/uL ) vs. Treatment day**

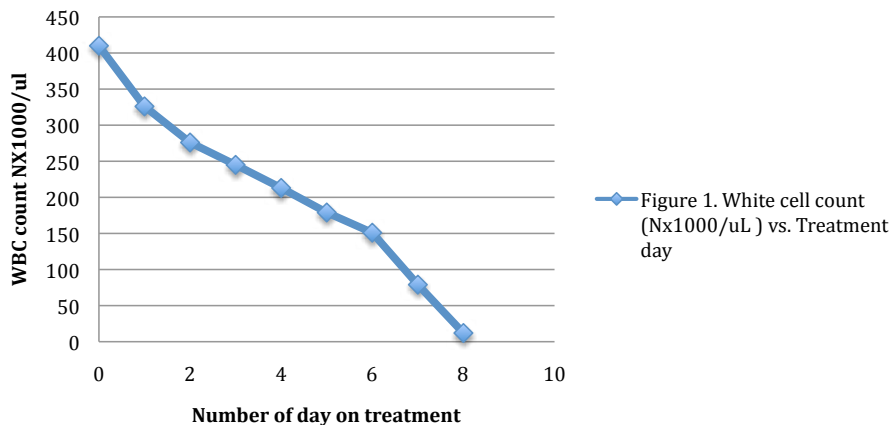


Figure 1. Graph showing white cell count in response to the treatment for CML in form of leukapheresis and initiation of cytoreductive treatment.

to a reasonable level. TKIs are started once the diagnosis of CML is confirmed. Imatinib, Nilotinib and Dasatinib are preferred TKIs commonly used.

A number of case series have reported the effectiveness of therapeutic leukapheresis in setting of priapism with hyperleukocytosis.<sup>7,8,9</sup> There is a question of whether the leukapheresis is a necessary modality in the management of hyperleukocytosis related priapism. There is no good evidence to support the indications for leukapheresis in setting of hyperleukocytosis but consensus evidence support integration of leukapheresis in multimodality approach. Rodgers et al, have published an excellent review article on management of priapism in CML setting.<sup>10</sup> First and second generation TKIs are now standard of care for the patient with CML and majority of patients achieve remission.

## Conclusion

Authors are reporting this case to add to the paucity of literature concerning priapism as initial presentation for CML. The authors support using multimodality approach including integration of leukapheresis for management of such entity. Further literature supporting the multimodality approach will lead to more universal adoption of management with development of treatment guidelines.

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# The Science of Adverse Childhood Experiences, Toxic Stress and Resilience

BY JANIE GINOCCHIO, MPA,  
and ALAN MEASE, MD, FAAP

Arkansas has the highest percentage of children with at least one adverse childhood experience (ACE), according to recent national data.<sup>1</sup> ACEs, or traumatic events that occur before age 18, are “the single greatest unaddressed public health threat facing our nation today,” according to Dr. Robert Block, a past president of the American Academy of Pediatrics.<sup>2</sup> Experiencing one or more ACEs, which include abuse, neglect, divorce, witnessing domestic violence, an incarcerated parent or a parent suffering from mental illness or substance abuse, significantly increases an individual’s risk for chronic disease, mental illness, substance abuse and premature death. In Arkansas, 60 percent of adults and 55.9 percent of children have experienced at least one ACE; nationally, 46.3 percent of children have at least one.<sup>1,3</sup>

Physicians see first-hand the negative outcomes associated with ACEs, and can play a crucial role in ACEs identification, treatment and prevention. However, knowledge

about and incorporating ACEs and resilience science into the clinical setting is not widespread in Arkansas. A recently formed statewide ACEs and resilience workgroup, co-founded by the Arkansas Foundation for Medical Care (AFMC) and the Arkansas Department of Health, is working to help health care providers incorporate ACEs awareness and trauma-informed care into their practices.

## ORIGINAL ACEs STUDY

Vincent Felitti, MD, and Robert Anda, MD, first introduced the term ACEs in their groundbreaking study published in 1998. The study, funded by Kaiser Permanente and the Centers for Disease Control and Prevention, surveyed 17,000 Kaiser Health plan enrollees about 10 types of childhood trauma. The traumas fell into three categories: abuse, neglect, and household dysfunction, which included divorce and parental incarceration, substance abuse or mental illness. Each positive response was one point, and points were totaled to reach an ACE score from zero to 10. The majority of those surveyed were white, college-educated and middle-aged.

The results were surprising: 64 percent had at least one ACE; 37 percent had more than one, and people with one ACE were 87 percent likely to have two or more ACEs. When researchers compared respondents’ ACE scores with health insurance claims, they found those with ACEs were more likely to have poor health outcomes. Those with high ACE scores were more likely to experience negative effects, indicating a dose-response relationship. For example, an ACE score of six is associated with a shortened lifespan of 20 years, and a person with an ACE score of four is 400 percent more likely to develop chronic obstructive pulmonary disease.<sup>4</sup> ACEs are also associated with significantly higher risks for obesity, low impulse control, chronic disease, mental illness, substance abuse and suicide attempts.<sup>4</sup>

Subsequent ACE surveys, from other states with more diverse populations, mirrored the results of the original study. Other efforts, such as the Philadelphia ACEs study, have examined the role economic and community factors such as poverty and violence have as ACEs. Current evidence shows that it is not

necessarily the type of ACE, but the number of ACEs and the absence of protective factors that have the greatest impact on health outcomes.<sup>2</sup>

### TOXIC STRESS

Numerous studies have built upon Felitti and Anda's work and have helped identify how ACEs affect a child's developing mind and body. The current understanding is that ACEs activate a child's stress response system. Without protective factors such as a secure attachment to a parent or other adult, the stress response becomes chronic or toxic, which in turn affects the development of the brain and other organs. Fewer neural connections develop in the brain; the amygdala increases and the hippocampus decreases in size. These changes impair impulse control, cognitive and executive function, and increase the chance of developmental delays.<sup>5</sup> Children experiencing toxic stress may adopt coping behaviors that mimic the fight, flight or freeze response, leading to lower school engagement, behavior problems and potential involvement with the criminal justice system.

As children get older, they may adopt other high-risk coping behaviors such as overeating, tobacco use, and substance abuse, increasing the likelihood of chronic disease and early death. Attempts at behavior modification may not be successful in the long term if underlying ACEs are not treated.

ACEs and toxic stress can also affect the body on a genetic level. Relationships and social interactions — both positive and negative — have an influence on neuroendocrine response, which in turn can make epigenetic changes to gene expression.<sup>5</sup> These

epigenetic changes, which can make an individual genetically more susceptible to the negative effects of toxic stress, are transmitted to the next generation.

### WHAT PHYSICIANS CAN DO

The good news is, ACEs are preventable. Toxic stress is treatable through the development of protective factors and resilience, in individuals, the family and the community.<sup>5</sup> Physicians can play a critical role in the prevention and treatment of ACEs and toxic stress by incorporating knowledge of ACEs and toxic stress science into clinical practice. Treatment begins with screening both adult and pediatric patients for childhood trauma, and making referrals to community resources such as mental health professionals who specialize in trauma, maternal home visiting programs and parent support programs.

Physicians have a leadership role to play in helping build resilience in the greater community. By working collaboratively with policy makers, social service organizations, and local and state agencies, physicians can influence systems and services beyond the health care setting.<sup>8</sup>

The Arkansas ACEs/Resilience Workgroup is a statewide collaboration of more than 100 individuals, and 60 organizations and agencies. The workgroup is focusing on a comprehensive statewide plan to assist communities, local health units and health care providers in developing comprehensive, place-based changes to help communities address ACEs and flourish. For more information about the workgroup, contact Janie Ginocchio at [jginocchio@afmc.org](mailto:jginocchio@afmc.org) or 501-212-8644. ▲

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# Congenital Hand and Upper Extremity Differences: Evaluation and Treatment Principles

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## Abstract

**C**ONGENITAL HAND DIFFERENCES ARE FREQUENTLY ENCOUNTERED BY THE PRIMARY CARE PROVIDER.

These upper extremity differences have variable functional and social concerns. Some congenital hand deformities are associated with anomalies in other organ systems. These associations are important to remember when considering further testing and evaluation of these patients. There are also various hereditary patterns seen which may affect counseling of the parents. Treatment may include observation, therapy, splinting and referral to a pediatric hand surgeon. This article explores the evaluation and management of six common congenital hand differences: polydactyly, syndactyly, camptodactyly, trigger thumb, thumb hypoplasia, and radial deficiency.

## Introduction

Approximately 1-2% of newborns have congenital differences with 10% of these involving the upper extremity.<sup>1</sup> A study of the New York Congenital Malformations Registry found that the overall incidence of congenital differences involving the hand and upper extremity was 27.2 cases per 10,000 live births (0.27%)<sup>2</sup> The actual reported incidence varies due to the large variety in provider types who see these patients.

Classification of congenital hand anomalies is based on morphology and mode of embryologic failure. Categories include missing parts (failure of formation), webbed or fused parts (failure of separation), extra parts (duplication), or parts that are of abnormal size (overgrowth or undergrowth).<sup>3</sup> These classification systems have limitations as not every congenital hand difference perfectly fits into these schemes.

Embryologic development of the upper extremity is complete by six to eight weeks gestation. The majority of functional development of the hand occurs within the first 3 years of life including the development of grasp by 9 months, three digit pinching by 2 years, and patterns of hand eye coordination by 3 years. Early intervention around 12-18 months aims to maximize functional and social interaction.

Several studies have examined the accuracy and utility of prenatal detection of upper limb anomalies with obstetric ultrasound. In a series of 100,856 prenatal ultrasounds retrospectively assessed 642 babies had a postnatally confirmed upper limb anomaly. The sensitivity for prenatal ultrasound detection of an upper limb anomaly was 42%. Sensitivity was better for conditions affecting the entire upper extremity compared to those conditions only affecting the digits as expected. There is still much work to be done in this area.<sup>4</sup>

## Polydactyly (Figure 1A and B)

Ulnar or post-axial polydactyly describes an extra small finger. It is more common in African American children and most often has an autosomal dominant inheritance pattern. Frequently several people within the family have had the same diagnosis. There are typically no other associated anomalies in this population.<sup>5</sup> Surgical treatment includes suture ligation in the neonatal period or simple surgical excision at around six months of age.

Radial or pre-axial polydactyly refers to an extra thumb. However, thumb polydactyly is probably more accurately referred to as a "split thumb" since the duplicate thumbs are smaller in size and appearance when compared to the normal contralateral thumb. This diagnosis is not typically associated with other abnormalities. The goal of surgical treatment is to restore a well aligned, appropriately sized, and stable thumb. Reconstruction involves excision of one of the thumbs along with transferring tendons, ligaments, and other soft tissue or bony elements to the remaining thumb. Surgical treatment is usually performed between 6 months and two years of age.<sup>5</sup>

## Syndactyly

Syndactyly describes webbed fingers and can affect any of the digits although webbing between the ring and long finger is the most common (Figure 2). The connection between the fingers can be complete or partial and can be simple (skin only) or complex (bone and/or nail connections). The normal separation of the webbing between digits embryologically occurs between 6 to 8 weeks of gestation and failure of the process of apoptosis



Figure 1A.



Figure 1B.

results in syndactyly.<sup>5</sup> Syndactyly can be familial in some instances and is often more complex in that population. Complex syndactyly can be seen in certain syndromes like Apert's syndrome (associated craniofacial differences) or Poland's syndrome (shortened webbed fingers and absence or hypoplasia of the ipsilateral pectoralis muscles). Surgical treatment involves separation of the webbed digits between 6 months and 2 years of age and often requires skin grafting. Surgical treatment of simple syndactyly has very good functional and cosmetic results while complex syndactyly reconstruction results are much more variable.

### Camptodactyly

Camptodactyly describes a flexion contracture at the proximal interphalangeal joint and can be seen at birth or in adolescence. The congenital type is attributed to multiple causes including tightness of the skin, fascia, joint capsule, and tightness and/or abnormal insertions of the flexor digitorum superficialis tendon and lumbricals. With minimal contracture, function is usually very good.<sup>5</sup> In most patients, initial treatment includes stretching and splinting under the guidance of a therapist. Surgical releases may be indicated in patients with severe contractures greater than 60 to 90 degrees who do not improve with nonsurgical treatment. Unfortunately, the results of surgical treatment are unpredictable and can result in loss of flexion and joint stiffness in

some cases. This lack of predictability in outcomes often leads to the recommendation for nonsurgical treatment except in extreme cases.<sup>6</sup> Camptodactyly is rarely associated with other syndromes. In cases of severe camptodactyly involving multiple digits syndromes such as arthrogyrosis should be considered.

### Trigger Thumb

Trigger thumb is one of the most common abnormalities encountered in the child's hand. It generally presents between 6 months and 2 years of age and is not typically present at birth. It is not associated with trauma, injury, or other syndromes or abnormalities. Classically, the patient presents with the thumb fixed in flexion at the interphalangeal joint (95%) (Figure 3). Rarely, the thumb can be fixed in extension. There often is a palpable, nontender nodule on the palmar side at the flexion crease of the metacarpophalangeal joint called a Notta's nodule which correlates with an enlarged area in the flexor pollicis longus (FPL) tendon. The cause of this condition is thought to be a size mismatch between the FPL tendon and the pulley system of unknown etiology. Up to 50% of patients seen will have bilateral involvement. Several studies support a trial of nonsurgical treatment including observation and stretching. If resolution of functional range of motion at the joint has not occurred by two years of age or after a period of observation, surgical release of the pulley is very safe and effective.<sup>5</sup>

### Thumb Hypoplasia/Radial Deficiency

Hypoplasia of the thumb and radius are considered to be on the same spectrum of failure of

» **Surgical treatment includes suture ligation in the neonatal period or simple surgical excision at around six months of age.**

formation of the radial sided structures of the hand and forearm. Hypoplasia of the thumb can present subtly with a slightly smaller appearing thumb, poorly developed thenar musculature, and abnormal skin creases. It can also be quite obvious in the setting of a floating thumb or "pouce flottant" or complete absence of the thumb. These variations can be seen in the presence or absence of a hypoplastic or absent radius. Studies have shown that there is a risk of other abnormalities in association with hypoplastic thumbs. James et al showed that 86% patients with hypoplastic thumbs had other abnormalities with 59% also having radial dysplasia.<sup>7</sup> Another series looked at 26 patients with isolated thumb hypoplasia without radius abnormalities. Nine of the 26 were found to have other associated abnormalities.<sup>8</sup> Associated conditions and syndromes include Thrombocytopenia Absent Radius syndrome (TAR), VACTERL association (vertebral anomalies, anal atresia, cardiac anomalies, tracheoesophageal fistula, esophageal atresia, renal anomalies and limb anomalies), Holt-Oram syndrome (autosomal dominant, cardiac anomalies), Fanconi anemia (autosomal recessive, pancytopenia), and Blackfan – Diamond anemia.<sup>9</sup> These known associations should be considered in all patients who present with a hypoplastic thumb and/or radial longitudinal



Figure 2.



Figure 3.

deficiency. A thorough workup should include a complete musculoskeletal examination, cardiac auscultation, complete blood count, renal ultrasound and spinal radiographs. Consideration should be given to obtaining an echocardiogram as well.<sup>8</sup> Treatment for these patients is both surgical and nonsurgical. Splinting and stretching should be initiated early in patients with deformity associated with radial deficiency. Referral to a pediatric geneticist and a

pediatric upper extremity surgeon is recommended. Surgical treatment is considered in consultation with the family and is usually undertaken around 2 years of age at the earliest. Surgical options include tendon transfers and reconstructive procedures for the hypoplastic thumb, pollicization for the absent thumb (moving the index finger into the position of the thumb) and centralization procedures for the patient with radial deficiency and radial deviation of the hand relative to the forearm.<sup>9</sup>

### Conclusion

Congenital hand deformities are frequently first evaluated in the offices of primary care providers. It is important to recognize the various types of anomalies and to screen for associated conditions. Early referral to a pediatric hand specialist is important for institution of appropriate care and management.

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 Blagdon, Donald G.  
 Blair, Brian H.  
 Blake, Dennis N.  
 Blakely, Brent M.  
 Blankenship, James B.  
 Blankenship, William F.  
 Blankers, Christian G.  
 Blasier, R. Dale  
 Blaszk, Richard T.  
 Bledsoe, Gregory  
 Bledsoe, James H.  
 Bledsoe, Samuel  
 Blickenstaff, Kyle R.  
 Blue, Glen T.  
 Blue, Leon  
 Bodemann, Diane K.  
 Bodemann, Donald R.  
 Bodemann, Michael C.  
 Bodemann, Stephen L.  
 Bodenner, Donald L.  
 Boehm, Timothy M.  
 Boger, James E.  
 Bogomilov, Boris V.  
 Bolin, Elijah Holbrook  
 Bolyard, Keith J.  
 Bone, Sarah  
 Bonner, J. Darrell  
 Bonner, Mark A.  
 Bonnich, Janina B.  
 Booker, J. Gregory  
 Boone, Jamie  
 Boop, Bradley S.  
 Boop, Warren C. Jr.  
 Boos, Donald L. Jr.  
 Booth, Allison  
 Bordeaux, Ronald A.  
 Borg, C. Doug  
 Borg, Robert V.  
 Borja-Cacho, Daniel  
 Bormemeier, Renee A.  
 Bounds, Andrea  
 Bourland, Mary Evelyn  
 Bowen, Timothy E.  
 Bowen, W. Scott  
 Bower, Charles M.  
 Bowlin, Randal G.  
 Box, Ivan H.  
 Boyce, John M.  
 Boyd, Charles M.  
 Boyd, Curtis James III  
 Boyd, Dusty  
 Boyette, Jennings R.  
 Bozeman, Caleb B.  
 Bracey, John W.  
 Bracy, Calvin M.  
 Braden, Lawrence F.  
 Bradford, Daniel S.  
 Bradley, Joe F.  
 Bradley, Lucas  
 Bradshaw, Jody  
 Bradshaw, Mark S.  
 Bradsher, Robert W. Jr.  
 Braley, Richard E.  
 Branch, Harold W. Jr.  
 Branch, Kevin Drake  
 Branch, Vanessa H.  
 Brander, Brooke  
 Brandon, Kristen  
 Brandt, Jason  
 Branman, Rhys L.  
 Branim, Russell B.  
 Brashears, Larry B.

Brasseux, Stephen  
 Braswell, Thomas R.  
 Brathwaite, Jasmine  
 Brautnick, Lynsay LeighAnn  
 Bray, Shelly C.  
 Braza, Rudy  
 Breau, Randall L.  
 Breniman, Kevin D.  
 Brenza, Ryan John  
 Bressinck, Renie  
 Breving, Robert E. Jr.  
 Brewer, Jim Ed  
 Brewer, Vernon  
 Brezina, Daniel Edward  
 Brizzo, Diane Dahlstrom  
 Brimberry, Ronald K.  
 Brixey, Jonathan  
 Brock, Wade D.  
 Bromley, Howard  
 Brookover, Wesley Todd  
 Brooks, Homer E. III  
 Brooks, Janice W.  
 Brooks, R. Teryl Jr.  
 Brown, Carrie M.  
 Brown, Charles H.  
 Brown, Columbus IV  
 Brown, Craig J.  
 Brown, Darrell Jr.  
 Brown, Hunter L.  
 Brown, Mark A.  
 Brown, Mark C.  
 Brown, Matthew  
 Brown, Peggy J.  
 Brown, Richard E. Jr.  
 Brown, Scott H.  
 Brown, Shawn  
 Brown, Verona T.  
 Brown, William B.  
 Brownfield, Shannon H.  
 Bruce, Robert Raymond  
 Bruffett, Wayne L.  
 Brunner, John Harry  
 Brunt, Amy L.  
 Bruton, Ronald F.  
 Bryan, James W. IV  
 Bryant, D'Orsay D. III  
 Bryant, Derek M.  
 Bryant, G. Edward Jr.  
 Buchanan, Mark Edward  
 Buchanan, Robert  
 Buchman, Joseph K.  
 Buchmann, Robert F.  
 Buckley, Douglas A.  
 Buckley, J. Wayne  
 Budhraj, Meenakshi  
 Buffalo, Ryan P.  
 Buffington, Michael L.  
 Buford, Lonna  
 Buford, Joe L.  
 Buie, James H.  
 Bulkeley, William J.  
 Bumpass, David  
 Buonagura, Angela  
 Burda, John  
 Burdine, Lyle  
 Burford, Jeffrey  
 Burge, John P.  
 Burgess, Mary Joan  
 Burke, Bryan L. Jr.  
 Burks, Deland D.  
 Burks, Jennifer E.  
 Burks, Kelly D.  
 Burks, Willard  
 Burleson, Stanley W.  
 Burnett, Alexander F.  
 Burnett, Hugh F.  
 Burnman, Rhys L.  
 Burnham, Ashley L.  
 Burns, Jerry A.

Burns, Richard G.  
 Burns, Samuel  
 Burns, Stanley C.  
 Burnside, Wade W. Jr.  
 Burr, Natalie  
 Burrell, Roy Louis  
 Burrow, Thomas Andrew  
 Burrows, Daryl R.  
 Bursley, Deborah L.  
 Burson, George T.  
 Burt, Frederick N.  
 Burton, Bruce K.  
 Burton, Charles R.  
 Burton, Jamie  
 Burton, Mary Katherine  
 Busby, J. David  
 Busby, John R.  
 Busby, Megan  
 Bush, Jeremy A.  
 Bush, Martha  
 Buslig, Remel C.  
 Butler, Michael  
 Buxton, Gregory M.  
 Byrum, Jerry D.  
 Cabell, Adam  
 Caceda, Ricardo  
 Cagle, Roger E.  
 Cahill, Amy  
 Cai, Rongsheng  
 Cain, Martin W.  
 Cain, Thomas  
 Caldwell, Charles  
 Caldwell, Charles R.  
 Caldwell, David L.  
 Calhoun, J. Dale  
 Calhoun, J. Michael  
 Calhoun, Richard A.  
 Callaway, Jody C.  
 Callaway, Matthew  
 Callaway, Michael W.  
 Camferdam, Robert  
 Campanini, D. Scott  
 Campbell, Douglas T.  
 Campbell, Gilbert S.  
 Campbell, James A. Jr.  
 Campbell, James C. Jr.  
 Campbell, James W.  
 Campbell, Jenny M.  
 Campbell, John A.  
 Campbell, Lucas K.  
 Campbell, Patrick Thomas  
 Campion, Robert  
 Cannon, Jessica Daughn  
 Cannon, R. David  
 Canon, Stephen James  
 Cantrell, Charles Richard  
 Cantu, Rebecca Murphy  
 Cantwell, Janet S.  
 Caplinger, Kelsy J. III  
 Capocelli, Anthony L.  
 Cardine, Kari D.  
 Cardenas, Jaime A.  
 Cargile, Christopher S.  
 Carlisle, Annette  
 Carlton, Randall D.  
 Carlyle, Benjamin W.  
 Carney, Stephen E.  
 Carpenter, Dylan Price  
 Carrasco, Luis  
 Carrick, Garreth  
 Carrico, Jeremy  
 Carrington, Hunter  
 Carroll, John L.  
 Carroll, Peter J.  
 Carson, Michael Paul  
 Carson, Randall L.  
 Carter, D. Mike  
 Carter, James M.  
 Carter, Jerry L.

Caruthers, Carol S.	Clifton, Ginger	Craig, Jeffrey A.	Deel, Amanda	Durham, Katherine J.	Felker, Gary V.	Frigon, Jacquelyn
Caruthers, Samuel B. Jr.	Clifton, Mildred M.	Craig, Sherrye	Deel, Mickey	Durvasula, Venkata Surya P	Felton, Daniel H. IV	Frindik, Joeshp P.
Carver, Joel D.	Clingenpeel, Rachel Anne	Cranfill, General L. III	Deepamala, Fnu	Dwyer, Gregory A.	Fendley, Herbert F.	Frisbie, Brenda
Case, Shannon L.	Clinton, Kimberly S.	Crary, Shelley	Deer, Philip III	Dyer, Cassie	Ferguson, Clay W.	Frisbie, Stephanie E.
Casey, Jennifer N.	Clogston, Charles W.	Crawford, Brendan David	Deer, Philip J. Jr.	Dyer, Mark A.	Ferguson, E. Scott	Frye, Richard Eugene
Cash, David L.	Clothier, Jeffrey L.	Crawford, Janet L.	Deere, Deborah	Dyer, William	Ferguson, Max Ann	Furlo, Bryan D.
Cash, J. Steven	Cloud, Joe A.	Crawley, Michael E.	Degges, Russell D.	Dykman, Thomas R.	Ferguson, Philip E.	Fuller, C. Dale
Cassady, Calvin R.	Cloud, Michael Carl	Crenshaw, John	DeGraff, Thomas III	Eads, Lou Ann	Ferguson, Scott F.	Fuller, C. James III
Cassat, Michael	Co, Jennifer M.	Criner, Owen K.	Deimel, George William IV	Eans, Thomas L.	Ferris, Brian D.	Fuller, Jon D.
Casteel, Helen	Cobb, Jock S.	Crocker, Thermon R.	del Castillo-Hegy, Michael	Earl, Kevin S.	Ferris, Ernest J.	Fulton, Cheryl
Caswell, John E.	Cobb, Joel C.	Cross, Amy W.	Delacey, Norbert W. Jr.	Easter, Rex M.	Fewell, Ronald D.	Furlow, Stacy H.
Cate, Chris M.	Coble, Andrew L.	Cross, C. Brian	Delap, Susan K.	Eastin, Carly Dean	Field, Halle Elizabeth	Furlow, William C.
Cates, Jack A.	Cockrill, H. Howard Jr.	Cross, Michael J.	Delgado, Pedro Lazaro	Eastin, Travis	Fielder, Charles R.	Fussell, Jill J.
Cathcart, Evelyn L.	Cockrum, Holly D.	Crow, Asa A.	Delk, John R. II	Eaton, Broderick	Fielder, David G.	Gabbie, Mark O.
Cathey, James D.	Coffman, Edwin	Crow, Joe W.	DeLoach, John M. Jr.	Eaton, James M.	Fields, Brad	Gaffey, Megan Mercedes
Cathey, Janet R.	Cogburn, Bob E.	Crow, Neil E. Jr.	DeLuca, Amy S.	Eble, Brian K.	Figures, Koya	Galbraith, Robert C.
Cathey, Steven L.	Cohagan, Donald L.	Crow, R. Lewis Jr.	DeLuca, Joseph A.	Eccles, Richard E.	Flip-Majewski, Beata Joanna	Galdamez, Amy
Cawich, Ian M.	Cohagan, Jeffrey O.	Crowell, Bernard G. Jr.	Deneke, Matthew G.	Eck, Gareth	Finch, Richard R.	Galloway, William W.
Cedeno, Philip	Coker, Dana	Crump, Mark R.	Deneke, William A.	Eckert, Michelle L.	Fincher, G. Glen	Gancarczyk, Kevin
Cenac, Joseph W. Jr.	Coker, Matthew J.	Cruz Leal, Wilson Javier	Dennis, Michael	Eckes, Anne M.	Fincher, S. Clark	Gandhi, Gautam
Cerrato, Deborah	Coker, Tom P.	Culp, R. Kirk	Denton, Meredith A.	Eckes, Darryl H.	Finck, John H.	Ganong, Kevin Donald
Cesare, Charles D. Sr.	Coker, Tom P.	Cummings, Kelly Frances	DeRossitt, James III	Eckles, Michael A.	Fink, Roger L. II	Gao, Ling
Cesare, Charles David Jr.	Colclasure, Joe B.	Cummins, J. Craig	Deshpande, Jayant Krishnan	Edala, Arpana	Fiser, Debra H.	Gao, Xiang
Chacko, Joseph G.	Colclasure, Joe C.	Cupp, Cecil W. III	Desikan, Raman	Edala, Thejovathi	Fisher, Richard T.	Garcia, Luis F.
Chakka, Mangaraju N.	Cole, Andrew A.	Curry, Angela K.	Devlin, Michael A.	Edattukaren, Varghese	Fisher, William P. Jr.	Garcia Saenz de Sici, Mauricio
Chakraborty, Indranil	Cole, Ezra Lee	Cushman, Katelyn Marie	DeYoung, Bruce	Edgington, William R.	Fish, Ted J.	Garcia-Casal, Xiomara Del C.
Chambers, Carlton L. III	Cole, Randall E.	Czerwinski, Witold P.	Dhall, Rohit	Edgar-Zarate, Courtney Leann	Fisher, Andrew	Gardner, Edward K.
Chambers, F. David	Cole, William Scott	D'Souza, Shirley N.	Dhanireddy, Bharat Reddy	Edmiston, Frank G.	Fithian, William III	Gardner, James L.
Chambers, Sue	Coleman, Doug	Daily, Jason G.	Dharamsey, Shabir	Edwards, Angela S.	Fitzgerald, Ryan T.	Gardner, Jerad Michael
Chambliss, James W.	Coleman, Michael D. Jr.	Daily, Joshua	Diamond, Corey L.	Edwards, Carl B.	Flaherty, Patrick J. III	Garg, Shashank
Chan, Kenneth	Coleman, Michael D. Sr.	Daily, Richard E.	Diaz, Edwin A.	Edwards, Christopher Wil	Flaming, Jay A.	Garapati, Butchaiah
Chance, Joshua C.	Coletta, Jason Charles	Dajani, Nafisa K.	Dickins, John R. E.	Edwards, Clinton B.	Fleck, Randolph Peter	Garner, B. Matt
Chandler, Adam	Colgrove, Michael	Dalabih, Abdallah	Dickinson, Jacob L.	Edwards, Frank D.	Fleck, Rebecca	Garner, Hershel
Chandler, Angela L.	Colleran, John A.	Dang, Minh-Tam	Dickson, Brian G.	Edwards, Gary S.	Fleeman, Patrick	Garner, Julea
Chandler, Kay H.	Collier, Steven F.	Dang, Shyam Mohan	Dickson, Scott M.	Edwards, Paul Kendall	Fletcher, James W. III	Garner, Kimberly
Chang, Chimin J.	Collins, Amy M.	Dang, Szymon	DiCocco, Jennifer Marie	Edwards, Raymond W.	Fletcher, Joyce Verna	Garner, William L.
Chappell, Carol W.	Collins, E. Morgan Jr.	Dard, Lester R.	Dietrich, Timothy	Edwards, Samuel Eric	Fletcher, Terry G.	Garnica, Adolfo
Chappell, Michael	Collins, Gary J.	Dare, Jason A.	Dillard, Bradley R.	Efevbokhan, Nephertiti	Fletcher, Thomas M.	Garrett-Shaver, Martha G.
Charlton, Justin	Collins, Kenneth P.	Dare, Shannon Stough	Dill, Kenneth	Ejofor, Moses C.	Flick, Michael	Garrison, Robert L. II
Chase, Patrick R.	Collins, Kevin Basil	Cone, John B.	Dillaha, Jennifer	El Sharawi, Nadir Raafat	Flor, Jaime Mirto	Gast, Kristie L.
Chastain, Richard	Collins, Kevin J.	Cone, John B.	Dilley, Meredith Anne	El Taoum, Katia	Florez, James P.	Gately, Stanley E.
Chatman, Ira D.	Collins, Laura R.	Confer, Stephen	Dinehart, Scott M.	El-Hassan, Nahed	Floss, Robert A.	Gath, Elizabeth C.
Chatterjee, Suzanna	Collins, Linda	Confer, Stephen	Dittmeyer, Kale	Elders, John G.	Flowers, Martha A.	Gathright, Molly
Chauhan, Mufiz A.	Collins, Ronnie Thomas II	Conley, Thomas D.	Divers, Stephen G.	Elkins, John S.	Floyd, Charles H.	Gati, Kenneth G.
Chauvin, Edgar J.	Collum, Grady R.	Connelley, Jay R.	Dixon, Jared	Elkins, Louis W. Jr.	Floyd, Mark A.	Gedosh, Edgar A.
Chavez, Jaime Rene	Collum, Grady R.	Conner, George L. III	Dixon, Jerry W.	Elliott, Douglas E.	Floyd, Rebecca R.	Gehl, Jerome J.
Cheairs, John T.	Combs, James B.	Connor, David Jr.	Dixon, R. Mark	Elliott, Wayne	Folk, Benjamin P.	Gentry, Rhonda W.
Chen, Chien	Conroy, Robert B.	Cook, Deborah Anne	Dodd, Doayne	Ellis, Eileen N.	Folton, Eudice E.	Gentry, W. Brooks
Chenaault, Kathryn T.	Cooper, Edward M.	Cook, John C.	Dodd, Lawrence D.	Elison, Jeffrey	Fonticella, Adalberto R.	Geoghagan, Jay D.
Cheney, Lori M.	Cooper, James B.	Cook, Kimra Kay	Dodd, N. Leland	Elser, Joseph	Ford, Barry G.	George, F. Joseph
Cheney, Maxwell G.	Cooper, Kara L.	Cook, William Adam	Dodson, John W. Jr.	Eltahawy, Ehab Abdalla	Ford, Mary	George, Masil
Cherry, James F.	Cooper, Scott	Cook, William Jason	Dout, Peter M.	Emerson, Steven L.	Ford, Michael R.	Geren, Blake N.
Chervinskiy, Sheva Khorrami	Cooper, William Allen	Cooke, Sam	David, Alex S.	Emery, Robert	Ford, Robert C. Jr.	Ghafoor, Abid U.
Chi, Jason C.	Cope, Michael	Cook, William Adam	Davidson, Andy M.	Engelkes-George, L. Dichelle	Forestiere, Lee A.	Ghaleb, Ahmed H.
Childs, Michael Adam	Coppola, Angelo G. Jr.	Cook, William Adam	Davidson, Charles D.	English, Jim	Forney, Joseph Wayne	Ghiassi, Courtney
Chin, Robert	Corbett, Janet Kay	Cooke, Sam	Davidson, Daniel S.	English, P. Timothy	Fortson, Christopher	Gibbs, Mark Y.
Chinn, Albert	Corbett, Mary	Cooke, Sam	Davies, Faith Elizabeth	Engstrom, Carl A.	Forward, Robert B.	Gibbs, Shelly
Chinwah, Justin Ezekwem	Cordell, Cari Lee	Cooke, Sam	Davis, Charles	Engstrom, Gregory	Foscue, David J.	Gibbs, William M. III
Chisholm, Dan P.	Corwin, Howard L.	Cooke, Sam	Davis, Charles	Ennen, Randy	Foster, Donald L.	Gibson, Lee Jr.
Chism, B. Scott	Cossey, Larry N.	Cooke, Sam	Davis, Cole Brian	Ennis, Jared S.	Foster, Jennifer	Giles, Wilbur M.
Choate, Robert B.	Costaldi, Mario E.	Cooke, Sam	Davis, J. Craig	Enns, Lindsay L.	Foster, Lance C.	Gill, Roop
Chock, Daniel P.	Cothern, Teresa Danielle	Cooke, Sam	Davis, J. Lynn	Enns, Michael W.	Foster, Thomas	Gillespie, Elaine
Chon, Woonjin James	Counce, James	Cooke, Sam	Davis, Jimmy Jr.	Enns, Wayne P.	Fowler, Christopher	Gilliam, Arnold E.
Chowdhary, Vikas	Council, Robert A. Jr.	Cooke, Sam	Davis, Ked	Epperson, Joel Rodman Jr.	Fox, Jessica	Gilliam, David L.
Chrisman, Freddy D.	Courtney, Sherry	Cooke, Sam	Davis, Orrin J.	Erbland, Marcia L.	Fox, Micheal H.	Ginger, John D.
Chu, Mark Y.	Courtney, Willis Jr.	Cooke, Sam	Davis, Paul W.	Ernieva, Anna I.	Fox, Thomas	Girkin, R. Gene
Chu, Tommy D.	Coussens, David M.	Cooke, Sam	Davis, Randall	Escobar, Guillermo A.	Fraiser, Lacy P.	Glascio, Garry B.
Chudy, Amail	Covas, Eve	Cooke, Sam	Davis, Rodney	Escue, Michael W.	Fraleigh, Patrick	Glasgow, Meriden A.
Churchill, David A.	Cover, George K.	Cooke, Sam	Davis, Scott A.	Esquivel, Maria Teresa	France, Gene L.	Glasier, Charles M.
Cilingiroglu, Mehmet	Cover, Kent J.	Cooke, Sam	Davis, Sheryl L.	Evans, David M.	France, James H.	Glover, Forrest D.
City, Jim C.	Covey, David C.	Cooke, Sam	Dawson, Justin D.	Evans, Jeffrey K.	Francis, Darryl R. II	Glover, W. Clyde
Clardy, Bryan H.	Covey, M. Carl Jr.	Cooke, Sam	Day, James A.	Ewing, Travis	Franks, Hayden	Glynn, Rose
Clardy, James A.	Cowherd, Kristy C.	Cooke, Sam	Day, John	Ezell, R. Scott	Franks, James F.	Godfrey, Lincoln A.
Clark, Cristina	Cowherd, Robert M.	Cooke, Sam	Day, Thomas	Fagin, Alice	Franks, Jason A.	Godier, Bernard
Clark, Daniel Cole	Cox, Roni	Cooke, Sam	De Bruyn, Van H.	Faith, Jennifer J.	Franks, Justin Oswald	Gokden, Murat
Clark, Joshua A.	Clements, Herman Ronald II	Cooke, Sam	De Castro, Igor	Fakouri, Joseph M.	Fraser, David B.	Gokden, Neriman
Clark, Richard B.	Cleveland, Elton R.	Cooke, Sam	De Mondesert, Eduardo A.	Falwell, K. Wade Sr.	Fraser, Eric A.	Golden, Kimberly J.
Clark, Rodney Lee Jr.	Clifton, E. Cliff	Cooke, Sam	De Silva, Shari M.	Fant, Jerri S.	Fravel, Jonathan F.	Golden, Kimberly K.
Clark, Terry		Cooke, Sam	De Silva, Shirin R.	Farber, Steven	Frazier, Elizabeth	Golden, Stephen C.
Clark, James S.		Cooke, Sam	Dean, David M.	Farmer, Joseph F.	Frazier, G. Thomas	Golden, William E.
Clary, Cathy J.		Cooke, Sam	Deaton, C. William Jr.	Farooq, Aamer	Frederick, William R.	Golinco, Michael
Clay, David		Cooke, Sam	Deaton, John M.	Farrar, Henry C. III	Freeland, Kristofer Thoma	Golleher, James H.
Claybrook, Kevin D.		Cooke, Sam	Deaver, Jeffrey	Farrar, Jason Eli	Freeman, Diane H.	Gonzalez, Floyd
Claycomb, Scott C.		Cooke, Sam	Decker, Harold A.	Farrar, Thomas Crowell	Freeman, William A.	Gonzalez, Misty
Clayton, Jeffery E.		Cooke, Sam	DeClerk, Thomas B.	Farris, Paul E.	Freeman, William H.	Gonzalez-Krellwitz, Laura Andrea
Clemens, Herman Ronald II		Cooke, Sam	Dedman, John D.	Farst, Karen J.	Freundt, Miriam Isabel E	Goodin, William H. Jr.
Cleveland, Elton R.		Cooke, Sam	Dedman, William D.	Featherston, John Scott		
Clifton, E. Cliff		Cooke, Sam	Deed, E. Ashley			

Goodman, Brian	Hall, Ben H.	Headrick, Daniel E.	Holder, Kasey M.	Huskison, William T.	Johnson, Anthony D.	Kapoor, Nidhi
Goodman, R. Cole Jr.	Hall, Gregory S.	Hearnsberger, H. Graves III	Holder, Keith F.	Hussey, Michael	Johnson, Ben D.	Karas, Robert C.
Goodson, Bradley	Hall, Monica L.	Hearnsberger, John E.	Holland, Jay D.	Hutchins, Laura J.	Johnson, Brad R.	Kauffman, Paul
Goodson, Timothy C.	Hall, Ray H. Jr.	Heaser, Amita	Holland, Keitha D.	Hutchins, Steven W.	Johnson, Clifton R.	Kaur, Ratinder Jit
Goodwin, Johnathan David	Hall, Richard	Heath, Kevin	Hollenbach, Seth	Hutchinson, Clinton T.	Johnson, David M.	Kazakevicius, Rimantas
Goodwin, Julia	Hall, Ryan Edwin	Hebbar, Prabhat	Hollingsworth, Amanda Irene	Hutchison, Michele Rebecca	Johnson, Deborah A.	Kazemi, Noojan
Gordon, Alfred Y. Jr.	Hall, Scott A.	Heberlein, Wolf Eckhard	Hollis, Thomas H. Sr.	Hutson, Harold G.	Johnson, Dianne F.	Keane, James Cooper
Gordon, Amy N.	Halpain, Ashley	Hedberg, Curtis L.	Holloway, J. Douglas	Hutson, Sanford E. III	Johnson, Donna D.	Keisker, Henry W.
Gordon, Eric H.	Halsted, Jeffrey	Heder, Guy W.	Holmes, Williams C. Jr.	Hutson-Fincher, Martha A.	Johnson, Jeffrey W.	Kellar, Jeffrey
Gordon, O. T. Jr.	Halter, Steven J.	Hedges, Harold H. III	Holston, John S.	Hutter, Dawn	Johnson, John S.	Kelley, David Wayne
Gordon, Otis T.	Hamby, Jeffrey	Hedges, Harold H. IV	Holt, Danny B.	Ibrahim, Manar S.A.	Johnson, Kelly A.	Kelley, Morris
Goree, Johnathan Heck	Hamid, Zulekha	Hefley, Bill F. Sr.	Holt, Jason	Ilyas, Mohammad	Johnson, Larry A. Jr.	Kelly, James E. III
Gorman, James W.	Hammerly, Milton	Hefley, William F. Jr.	Holt, Stephen D.	Imamura, Bryan R.	Johnson, Larry G.	Kelly, Owen L.
Gorukanti, Narendhar Rao	Hammonds, Lonnie Mark Jr.	Heifner, John K.	Homsi, Samer	Imamura, Michiaki	Johnson, Lee M.	Kelly, Thomas C.
Goss, Erin B.	Hampton, Jerrod	Heim, Eric Anthony	Honghiran, Ted	Imran, Adil	Johnson, LyMette	Kemp, C. Len
Goss, Stephen L.	Hamrick, Justin	Heim, Stephen	Hood, C. Ted	Inamdar, Sumant	Johnson, M. Bruce	Kemp, Charles E.
Goulden, Peter Anthony	Han, Jin-Young	Heinemann, Phyllis E.	Hood, Michael	Ingram, Jim M.	Johnson, Martin L.	Kemph, Monica
Gowindarajan, Rangaswamy	Hanby, Charles K.	Heinzelmann, Andrew D.	Hood, Michael Philip	Ingram, Ralph N.	Johnson, Miles M.	Kenchaiah, Sathish
Goyal, Sunali	Hanley, Larry L.	Heinzelmann, Peter R.	Hood, O. Kincannon	Insuasti Beltran, Giovanni	Johnson, Paulette S.	Kendall, Jerry R.
Goyne, Hannah	Hannah, J. Todd	Henderson, Francis M.	Hoover, Melanie D.	Irby, Elizabeth	Johnson, Philip H.	Kendall, William B.
Graham, Charles J.	Hannon, Martin A.	Henderson, John C.	Hopkins, Frederick	Irby, Jill	Johnson, Robert D.	Kendrick, Anna
Graham, D. Melissa	Haraway, Stuart D.	Henderson, Nathan	Hopkins, Robert H. Jr.	Irish-Clardy, Katherine A.	Johnson, Roehl W.	Kendrick, Michael
Graham, James	Harber, Harley J.	Henderson, Vickie L.	Hoque, Md Shadiqui	Ironside, J. Brett	Johnson, Sandra M.	Kennedy, Joshua Loren
Grammer, W. Cody	Hardcastle, R. Lowell	Henderson, Nathan	Horan, Roger	Irwin, James	Johnson, Spencer L.	Kennedy, Robert B.
Grant, Adam Peter	Hardee, Matthew	Hendrickson, Jon R.	Hord, Marion E.	Irwin, Jamie C.	Johnson, Timothy S.	Kerin, Douglas
Grant, Karen G.	Harden, V. Anthony	Hennigan, Cheryl L.	Hornbeck, Robert G.	Irwin, Peter J.	Johnston, Alan	Kerr, Robert L.
Gray, Dalton L. II	Hardin, Brian H.	Henning, Theodore J.	Houchin, Vonda G.	Isaacson, Michael L.	Johnston, Dale E.	Kessinger, Rovena
Gray, Franklin J.	Hardin, Christopher	Henrich Lobo, Rodolfo	Hough, Aubrey J. Jr.	Iskandar, Sandia	Johnston, Kenneth R.	Key, J. Michael
Gray, Irol Torin	Hardin, Phillip R.	Henry, D. Andrew	Houk, Richard W.	Ison, Keith A.	Johnston, S. Greg	Khalil, Mazen Younis
Grazziutti, Monica L.	Hardin, Robert P.	Henry, G. Morrison	Houn, Houn-Yee David	Israel, Michael	Joiner, Amy	Khalil, Omer
Grear, Danna F.	Hardin, Ronald D.	Henry, James T.	House, Aniel H. Jr.	Izard, Ralph S. Jr.	Jones, Charles Jr.	Khalilii Boroojeni, Parisa
Grear, Tim W.	Hardin, Thad Ridge	Henry, Lance B.	House, Samuel J.	Jacks, David C.	Jones, Charles Irving III	Khan, Abrar
Green, Adam	Hardister, Robert	Henry, Morriss M.	Hout, Judson N.	Jackson, Brian D.	Jones, Charles W. Jr.	Khan, Ali Safdar
Green, Benny J.	Hardman, Mary P.	Henry, Paul M.	Howard, Antonio Tom	Jackson, C. David	Jones, David	Khan, Ikram
Green, Horace L.	Hardy, Kyle G.	Henry, Richard Y.	Howard, Charles E.	Jackson, Carole	Jones, Edward J.	Khan, Mohammad A.
Green, Roger L.	Hardy, Sarah Beth	Henry, Robert A.	Howard, Don G.	Jackson, Charles	Jones, Gail Reede	Khan, Mohammed Imran
Green, Terri Y.	Hargrove, Joe L.	Henry, W. Bradley	Howard, Don N.	Jackson, Charles A.	Jones, Greg T.	Khan, Nasim
Green, William R.	Hargus, Karen A.	Henry-Tillman, Ronda S.	Howard, Mary K.	Jackson, Edward L.	Jones, Jermy	Khasawneh, Khaled R.
Greenburg, Patrick	Haridas, Aarop	Henson, Clinton H.	Howe, H. Joe	Jackson, George W.	Jones, John C.	Khatir, Nudrat
Greenfield, William W.	Harms, Steven E.	Hernandez, Jacinto	Howell, Coburn S. Jr.	Jackson, J. Presley	Jones, John Kenneth	Kientz, John L. B. Jr.
Greenway, C. Don	Harp, John H.	Hernandez, Julian	Howell, James T. Sr.	Jackson, Jabez F. Jr.	Jones, K. Bruce	Kilambi, Nirmal K.
Greer, G. Stephen	Harper, Willie Earl Jr.	Herrera-Verdugo, Octavio	Hoyt, Jonathan L.	Jackson, Matthew P.	Jones, Karen D.	Killgore, Kenneth M.
Gregory, J. Minor	Harrell, Russell L.	Herron, Jerry M.	Hristoskova, Rossitza E.	Jackson, Richard J.	Jones, Marcella P.	Killingsworth, Stephen M.
Gregory, Jennifer S.	Harrell, Adam B.	Hester, Christian C.	Hronas, Theodore	Jackson-Lockyer, Margo	Jones, Melanie D.	Killough, Larry R.
Gregory, Jo Anne	Harrendorf, Cagle	Hester, Joe D.	Hruby, Paul M.	Jacobs, Emily	Jones, Renee Andrewnet	Killough, Timothy
Gregory, Julia	Harrington, Mariann	Hester, Karen C.	Hubach, Cindy A.	Jacobs, Richard F.	Jones, Roy S.	Kim, Elizabeth
Gresham, Edward A.	Harrington, Sarah Elizabeth	Hester, Richard	Hubbard, Michael	Jaeger, Matthew	Jones, S. Michael	Kim, Peter J.
Grewal, Shaun Gobind Si	Harris, Brock	Heullitt, Gerald	Hubbard, William S.	Jaeger, Nolan	Jones, Shaletha	Kim, Thomas
Griffey, Michael A. II	Harris, Brock	Heullitt, Lindsay	Hubbard, William S.	Jaffar, Muhammad	Jones, Stacie M.	Kimball, Shane P.
Griffin, David D.	Harris, John E.	Hickman, Michael P.	Huckabee, Mary Elizabeth	Jagana, Rajani	Jones, Stacy	Kincheloe, A. Dale
Griffin, Frankie M.	Harris, Julie A.	Hicks, David C.	Huddleston, Stephen	Jaggers, Robert	Jones, Steve A.	King, Joe D.
Griffin, James E.	Harris, Murray T.	Hiegel, Kevin D.	Hudec, Wayne A.	Jaggers Bryson, Jill	Jones, Tina	King, John Smith
Griffin, Nancy L.	Harris, Thomas	Higginbotham, Hugh B.	Hudson, Amy R.	Jain, Nishank	Jones, William N.	King, Mark S.
Griffin, Rodney L.	Harris, W. Turner	Highfill, Gary	Hudson, Stephen A.	James, Charles A.	Jord, David	King, Michael
Griffin, Stacy	Harrison, Melody Kaye	Highsmith, Heather Young	Hudson, Thomas F. III	James, Laura P.	Jordan, F. Richard	King, W. David
Griffith, Raymond	Harrison, Rick W.	Hightower, Michael D.	Huggins, Freddie J.	Janes, Robert H. Jr.	Jordan, Randy A.	King, William R.
Griffiths, Richard F.	Harrison, William E.	Hightower, Randall	Hughes, Alan W.	Janik, Jordan Kent	Joseph, Aubrey S.	Kinslow, Ivory
Griggs, William L. III	Harrison, Yulanda Bell	Hill, Chad	Hughes, Alan W.	Janos, Aaron L.	Joseph, Jacob K.	Kirchner, Jeffrey J.
Grimes, H. Austin	Hart, Thomas M.	Hill, Donald F.	Hughes, Bradley R.	Jansen, Joseph R.	Joshi, Manish	Kirchner, JoAnn E.
Grynwald, Jeffrey Jr.	Harter, Scott	Hill, Joy W.	Hughes, Brian T.	Jansen, Mark T.	Jouett, W. Ray	Kirsch, Jeffrey P.
Guajardo Salinas, Gustavo	Hartzell, Larry	Hill, Robert L.	Hughes, James A.	Jasin, Hugo E.	Joyce, F. E.	Kiser, Thomas S.
Eugenio	Harvey, Bryan M.	Hill, Roger D.	Hughes, Joe E.	Jauss, Kewen Z.	Juarez, Dianna Lea	Kittel, Michael T.
Gui, Lizhen	Harvey, Jerry L.	Hill, William D.	Hughes, L. Milton	Jayaraman, Vilasini D.	Judkins, Daniel	Kizziar, Jim C.
Guidry, Elizabeth Allen	Harville, Terry O.	Hilman, Michael G.	Hughes, Laurie O.	Jean, Alan B.	Julian, Amy N.	Kleinbeck, Seth M.
Guinn, Donald R.	Haselow, Dirk Thomas	Hinkle, Jay	Hughes, Robert P. Jr.	Jean, James L.	Justiss, Richard D.	Kleinhenz, Robert W.
Guinn, Nicholas	Hashmi, Abeer	Hinkle, Richard A. Jr.	Hughes, Ronald D.	Jeffers-Vancil, Teresa	Justus, Michael G.	Klepper, Charles R.
Guise, Joseph B.	Hashmi, Salman	Hinton, Emily A.	Hui, Anthony N.	Jeffrey, Jay R.	Kachowski, Larisa	Klimberg, V. Suzanne
Gullett, Robert R. Jr.	Hass, Farrell D.	Hinton, Thomas W.	Hulet, Cidney Scott	Jenkins, Bobby J.	Kaddoura, Salahuddin	Klimova, Alla
Gullic, Phillip T.	Hatch, Allan B.	Hitt, W. C. Jr.	Hull, Cheryl A.	Jenkins, Bradley N.	Kaemmerling, Raymond E.	Klopfenstein, Keith
Gupta, Punkaj	Hatfield, Patrick M.	Hix, Robert S.	Hull, Robert R.	Jenkins, Mary Ellen	Kagy, Lori M.	Kluck, C. Wesley Jr.
Gustafson, Jon	Hatfield, Samantha	Ho, Stephanie A.	Hulsey, Matthew D.	Jennings, Bryan T.	Kagy, Matthew K.	Knappe, Whitfield L.
Gutkovich, Roman	Hathcock, Stephen	Hoang, Bryan	Humphrey, Landon	Jennings, Charles A.	Kahler, Stephen G.	Knecht, Kenneth
Gwathney, Michael P.	Hatwell, Russell E.	Hobart-Porter, Nicholas	Humphreys, Robert P.	Jennings, Holly H.	Kajikenova, Oumitana	Knife Chief, Sarah Cortney
Haas, David C.	Haustein, Matthew	Hobbs, Charlotte A.	Hundley, Randal F.	Jennings, R. Duke	Kakadia, Sunikummasr	Knight, Daniel A.
Hacioglu, Yalcin	Havdala, Jack S.	Hodges, J. Timothy	Hungerford, James Lucas	Jennings, Thomas	Kakati, Bobby	Knox, Robert B.
Hackler, Joseph William	Hawkins, Kristi A.	Hodges, Michael E.	Hunley, Thomas E.	Jensen, Joseph C.	Kalaga, Ravishankar Ven	Knox, Thomas E.
Hagaman, Michael S.	Hawkins, William L.	Hodges, Veryl Dennis	Hunt, James E. Jr.	Jensen, Peter Scott	Kaler, Ron A.	Koch, Clarence W. Jr.
Hagans, James III	Haws, Karl W.	Hof, C. William	Hunt, Jennifer	Jeter, John	Kaler, Ronald J.	Kocher, David B.
Haggard, John L.	Hayden, William F.	Hoffman, John D.	Hunt, Randall E.	Jethava, Yogesh Shantila	Kamalov, German	Koehler, Andrew M.
Hagler, James L.	Hayes, John M.	Hoffmann, Thomas H.	Hunt, Terry	Jetton, Christina A.	Kamel, Mohamed	Koehler, Peter O.
Hagood, Noland H. Jr.	Hayes, Richard L.	Hogan, Scott M.	Hunter, Cassandra	Jewell, Sarah Witt	Kanaan, Alissa	Kohler, Kumaar
Hahn, Herbert L.	Hayes, Robert A. Jr.	Hoge, Marlin B.	Hurdle, Quincee Maxine	Jewell, Shannon A.	Kandasamy, Srikanthan	Kona, Sashi Kumar
Haider, Sajjad	Hayes, William J.	Hogue, Ernest L.	Hurlbut, Kevin M.	Jimenez, Jorge F.	Kane, James J.	Konis, George
Haines, Lynn H.	Haynes, W. Ducote	Hohertz, Brian Lynn	Hurlbut, Kimberly	Jiu, John B.	Kanfi, Alisa	Konrad, Joseph
Halal, Ahmed Moussa Ka	Hays, David A.	Hoke, W. Scott	Hurst, Adam	Jo Kamimoto, Jorge Luis	Kannout, Fareed	Koonce, Thomas W.
Hale, Jeffrey A.	Hays, Deborah A.	Holcomb, Sarah	Hurst, Mallory	Johann, Donald Joseph Jr.	Kaphle, Upendra Raj	Kopparapu, Anil Kumar
Hale, Kevin D.	Hayward, Malcolm L. Jr.	Holder, Devon L.	Hurst, William R.	John, Christopher L.	Kaplan, Bertram D.	Korourian, Soheila
Halfacre, James Anthony Jr.	Hazzard, Marion P.	Holder, Jason	Hurt, Robbie Linn	Johnson, Amanda	Kaplan, Ryan L.	Kosinski, T. Joseph

Kota, Manjusha	Levy, Paul Steven	Mabrey, William T.	Massanelli, Gregg L.	McLeod, Kevin	Montgomery, Corey O.	Naylor, David L. Jr.
Kothari, Atul	Levy, Rebecca Anne	Mabry, Andrea	Masse, Courtney	McMasters, Joel	Montgomery, Earl W.	Neal, Jeffrey
Kovaleski, Thomas M.	Lewellen, Thomas L. Sr.	Mabry, Charles D.	Massey, Adam C.	McNamara, Timothy	Montgomery, F. Renee'	Neaville, Gary A.
Kradel, R. Paul	Lewing, Hugh S.	Mac Dade, A.	Massey, James Y.	McNee, Valerie	Montgomery, Holly	Neaville, Gregory W.
Kraichoke, Saran	Lewis, David M.	MacBruce, Daphne Karen	Massey, V. Rudolph	Meacham, Donald F.	Montgomery, Jeffrey	Nehus, Ezechiel R.
Kraletii, Shashank	Lewis, George L.	Machado, Bruno Lopes Can	Massoll, Nicole	Meacham, Kenneth R.	Montgomery, Lori E.	Neis, John Paul
Kramp, Lyndsey	Lewis, Gregory	Mack, Mendy	Masters, Chadwick J.	Meade, Arturo E.	Montiel, Patricia	Neis, Paul R.
Krause, Michelle W.	Lewis, Jacob	MacKercher, Peter A.	Matchett, W. Jean	Meador, Annette P.	Montoya, Gregory R.	Nelsen, David A. Jr.
Kriesel, Ben J.	Lewis, Johnathan W.	Mackey, Daniel W.	Mathews, Grant K.	Meadors, Lacy G.	Moody, Carole G.	Nelson, Alvah J. III
Krisht, Ali F.	Lewis, Paul Spencer Jr.	Mackey, Michael	Mathews, J. Steven	Meadors, John	Moody, Melody L.	Nelson, David G.
Kronof, Ned O.	Li, Ruizong	MacLeod, Rachel Carlisle	Mathur, Pankaj	Means, Kevin M.	Moody, Michael N.	Nelson, Garrett
Kruger, Laura Leigh	Lieblong, Justin B.	MacLeod, Robert	Mathews, Joseph W.	Mears, Bill F.	Moon, Steven L.	Nelson, Kristen M.
Kueter, Joseph C.	Lienhart, Kristen L.	Maddox, Randolph	Mauch, E. Jane	Mears, Simon	Mooney, Donald K.	Nelson, Richard A.
Kuhn, Ronald G.	Liggin, Rebecca L.	Magann, Everett	Maxson, Robert	Mecum, Gideon S.	Moore, Burton A.	Nelson, Tyler J.
Kulkarni, Lina	Lile, Henry A.	Magee, David K.	Maxwell, James R.	Medeiros, Felipe Almada	Moore, Donald	Nesmith, James D.
Kumar, Manoj	Lile, Scott A.	Magee, James Shipman	Maxwell, Teresa	Medel, Noel M.	Moore, J. Malcolm Jr.	Neuhauser, Jeffrey H.
Kumar, Sudhir	Lim, Paolo	Magie, Jimmie J.	May, Robert H. Jr.	Medlock, Rickey D.	Moore, J. Suzanne	Neville, Kathleen A.
Kumarapeli, Asangi Rashmi K	Lim, William N.	Magie, Stephen K.	Mayfield, M. Bradley	Meek, James C.	Moore, James F.	Nevins, William H.
Kumpuris, Andrew G.	Lin, Ching-Shan	Magill, Daniel	Mays, Joann B.	Meek, Mary	Moore, Jesse D.	New, Kenneth O.
Kuo, Karen	Linam, William	Maglothlin, Douglas L.	McAdams, Edward	Meena, Nikhil	Moore, Jessica	Newbern, D. Gordon
Kusenberger, Don L.	Lincoln, Ben M.	Magness, C. R.	McAfee, Dewey	Meggors, William B.	Moore, John	Newbolt, Evan
Kyle, Richard S.	Lincoln, Candy Suzanne	Magness, Jack L. Jr.	McAlister, Matthew K.	Mego, David M.	Moore, John David	Newcomb, T.L.
Kyser, J. Floyd	Lincoln, Lance	Magre, Ann-Marie	McBee, Sara	Mehaffey, Gregory	Moore, Laura	Newman, Mark S.
Laakman, Robert W.	Lindberg, Rani Lynn	Mahan, Meredith	McCallum, Jennifer A.	Mellon, Dorothy L.	Moore, Pittman	Newsum, Jon Kirby
Labbate, Lawrence Avelin	Lindsey, Brad L.	Maheshwari, Ekta	McCann, Ronald K. Jr.	Mellor, Roy D. II	Moore, Richard	Newton, Fred E.
Lack, Michael D.	Lipke, Jay M.	Mahmoud, Fade	McCarley, James Robert	Meloy, Anthony	Moore, Robert B.	Newton, James Arthur Jr.
Laffoon, Gregory A.	Lipsmeyer, Eleanor A.	Makhoul, Hanan	McCarthy, Kathryn	Melton, Clinton G.	Moore, Samuel	Ngengwe, Raphael
Laffoon, Scott L.	Lipsmeyer, Keith M.	Makhoul, Issam	McCarthy, Richard E.	Mendelsohn, Lawrence A.	Moore, Thomas C.	Nguyen, Duong H.
Lai, Robert	Little, Seth	Malak, Sharp F.	McCarty, Gordon E. Jr.	Mendiratta, Priya	Moose, John I.	Nguyen, Larry L.
Laine, Victoria	Litviller, Scott Eric	Maline, Michael G.	McCarty, Jennifer Lynn	Menendez, Moises A.	Moreno Vera, Mauricio	Niba, Suh N.
Lal, Anjana	Liu, Hannah Yaqian	Mallard, Gregory W.	McCarty, Thomas	Meredith, James T. Jr.	Morgan, Christopher O.	Nicholas, Richard W. Jr.
Lambert, John S.	Livingston, Sean Michael	Mallory, John A.	McCasland, Leslie	Meredith, Samuel G. Jr.	Morgan, Gareth John	Nichols, David R.
Lambert, Kenneth J.	Lloyd, Richard A.	Malone, Emily R.	McChristian, Jimmy W.	Merrill, Amelia Younker	Morgan, Joseph	Nichols, Scott R.
Lambiotte, Louis O.	Lo, Monica	Malone, Matthew Phillip	McChristian, Paul L.	Merritt, Edward Jr	Morgan, Sofie Rahman	Nicholson, Julia
Lamps, Laura W.	Lochala, Richard M.	Malte, Brian Imbao	McClain, Charles M. III	Merritt, Tina	Morris, Barbara K.	Niegos, Frederick B.
Lancaster, Ted S.	Lochala, Roddy S.	Mancino, Michael J.	McClain, Charles M. Jr.	Mertz, John D.	Morris, Bishawn W.	Niemeyer, Joselin G.
Landberg, Karl H.	Locke, Stephen W.	Mandoff, Victor L.	McClard, Helen P.	Meserow, James	Morris, Mohy G.	Nimmo, Teresa Allison
Landers, Hubert Macon Jr	Lockwood, Frank M.	Manning, Lance A.	McClinton, Christopher Mar	Messias, Erick	Morris, W. Dale	Nix, Kasey
Landers, James H.	Lockwood, Matthew	Manning, Nirvana A.	McClure, Travis K.	Metrailer, Aaron	Morris-Besancon, Robin	Nix, Matthew
Landgren, Robert C.	Loiacano, Dale	Manning, Thomas A. III	McClurkan, Michael B.	Mette, Stephen Alfred	Morrison, Debra F.	Nix, Richard A.
Landrum, Leslie G.	Lollar, Kevin Wayne	Manolagas, Stavros C.	McConnell, Jason Paul	Meyer, Brian E.	Morrison, Joshua Barton	Nix, Thomas
Landrum, Samuel E.	Long, Yuan Yuan	Mansour, Munthir Mohammed	McConnell, John D.	Meyer, Lawrence H.	Morrison, Lynnette	Nixon, D. Allen Jr.
Landrum, William L.	Lopez, Maya Liza Conce	Manus, Stephen C.	McCord, Virginia L.	Meziere, Tom L.	Morse, Michael	Nixon, David T.
Lane, John	Lorio, Jerry J.	Mapes, Raelene Ann	McCourtney, Bill R. I.	Myhre, Jill Marie	Morse, Miriam Gwenyth	Noel, Stacey W.
Lane, Lydia	LoRusso, Frank J.	Maraboyina, Sanjay	McCowan, Jon	Mian, Amir Rafique	Morshedi, Richard Grant	Nokes, Steven
Lang, Nicholas P.	Lotia, Mitesh Pravin	Maram, Silpa	McCoy, James R.	Middleton, Toni L.	Morton, William J.	Nolder, Abby Renee
Lang, Sean Michael	Lott, Britton Bennett	Marcus, Herschel C.	McCracken, Gail Ann	Miedema, Mark Louis	Mortoti, Samuel Selasie	Nolen, John R. Jr.
Langford, Timothy D.	Loudermilk, Jon	Markell, Kristin L.	McCrary, George A.	Migally, Karl Sheriff Bos	Moseley, Claiborne L. II	Nolen, Lauren
Langston, James D.	Louvrin, Soren	Marks, Stephen R.	McCrary, Matthew P.	Miles, David	Moseley, Mark Allen Jr.	Nolen, Michael T.
Langston, Lloyd G.	Love, Tommy L. Jr.	Marotte, Jeffrey B.	McCrary, Robert F. Jr.	Millar, Paul H. Jr.	Moseley, Pope Lloyd	Nolewajka, Andre J.
Lansford, Bryan K.	Lovett, Angela R.	Marotti, A. Scott	McCraw, Barry W.	Miller, Charles H.	Moseley, Thomas H. Jr.	Noonan, Robert F.
Larey, Mark E.	Lowery, Benjamin R.	Marotti, Tonya L.	McDaniel, Craig A.	Miller, Forrest B. Jr.	Mosley, David H.	Norris, B. Blake
Large, Erin Elizabeth	Lowery, Curtis L. Jr.	Marrero, Ralph J.	McDonald, James E.	Miller, Jack Steve	Moss, Michele	Norris, E. Lloyd
Larrimer, Margaret	Lowery, Lisa A. J.	Marsh, James D.	McDonald, James E. II	Miller, James L.	Motwani, Pooja	Norris, Lloyd P.
Larrimer, Zachary	Lowery, Robert D.	Marsh, Michael A.	McDonald, Judy L.	Miller, Jeffrey J.	Moulton, Allyson	Northcutt, Carl E.
Larson, John	Lowery, Robert S.	Martin, Cade	McDonnell, Bryan D.	Miller, Joseph	Moursi, Mohammed M.	Norton, Brian
Laryea, Jonathan	Lowery, Ronald L.	Martin, Damon G. H.	McElmurry, Stephen E.	Miller, Laurence H.	Moyo, Nomathamsanqa	Norton, George A.
Latch, Rebecca L.	Lowrey, Douglas H.	Martin, Dan A.	McElreath, David P.	Miller, Michael M.	Muench, Richard	Norwood, Donald B. Jr.
Laudadio, Jennifer	Lowry, James L.	Martin, Dawn M.	McElroy, Kellye C.	Miller, Oren Francis	Muesse, Jason Leonard	Norvs, James William
Lavender, Robert C.	Lowry, Michael	Martin, Jana M.	McFarland, Mike S.	Miller, Robert Jr.	Muldoon, Robert T.	Novack, Amanda J.
Lawlis, Christopher Bre	Lowther, Laura M.	Martin, Joshua Gordon	McGee, Brian	Murfee, Robert M.	Murphy, Robert M.	Nowlin, James Bill
Lawrence, Brent	Loyd, Gregory M.	Martin, Kenneth A.	McGhee, Linda M.	Murphy, David S.	Murphy, Fred Y.	Ntambi, James Alfred
Lawrence, Brooks	Lu, Ellen	Martin, Kristin	McGhee, Michael A.	Murphy, Fred Y.	Murphy, Michael A.	Nuckolls, J. William
Lawrence, Frank M.	Lu, Eugene	Martin, Robert	McGowan, Robert J. Jr.	Murphy, Michael A.	Murphy, Robert A.	Nugent, Richard R.
Lawrence, George S.	Lucas, Reginald A.	Martin, Sara R.	McGowan, W. Blake	Murphy, Robert A.	Murphy, Seamus	Nunez, Aaron
Lawson, J. Larry	Lue, Cummins	Martin, Terri L.	McGowan, William J.	Murphy, Seamus	Murphy, Tena E.	Nutt, Angela K.
Lawton, Brian	Lueders, Andrew J.	Martin, William C.	McGrath, A. Joseph Jr.	Murphy, Tena E.	Murray, Sunshine	Nutt, Hugh A.
Layton, Ann D.	Luker, Stephen Ned	Martin-Dunlap, Tonya	McGrath, Christopher R.	Murray, Sunshine	Murphy, J. Warren	Nwude, Ezinne
Layton, Lorna M.	Lum, Don	Michelle	McGrath, Leslye	Murphy, J. Warren	Muse, Jerry L.	O'Brien, Marcus D.
Le, Thanh	Lunde, Stephen P.	Martindale, J. L.	McGraw, Renee P.	Muse, Jerry L.	Mustain, William Conan	O'Brien, Mark S.
Leach, John	Luo, Cathy C.	Martindale, Mark A.	McGrew, Robert N.	Mustain, William Conan	Muylaert, Michel	O'Connell, Joseph R.
LeBlanc, Heather N.	Luper, Rebecca A.	Martinelli, Heather A.	McKee, Dwight L.	Muylaert, Michel	Myhill, Jeffrey	O'Keefe, Kevin Joseph
Ledbetter, Charles A.	Lupo, David A.	Martino, Derlis	McKee, John D.	Myhill, Jeffrey	Nagy, David James	O'Malley, Lawrence Kevin II
Leding, Carl J.	Luter, Dennis W.	Martinson, Alice M.	McKee, Steven Greg	Nagy, David James	Nair, Balan A.	O'Neill, Joshua M.
Lee, Dacey G.	Luttrell, Rex E.	Maruf, Lubna	McKelvey, K. David	Nair, Balan A.	Nair, Devi	Oakhill, Gregory J.
Lee, John R.	Lyerly, Meghan Lindsay	Maruthur, Gopakumar	McKelvey, Kent D. Jr.	Nair, Devi	Nair, Ganesh K. V.	Ocal, Eylem
Lee, Jonathan E.	Lyerly, Michael	Marvin, Shawn	McKelvey, Samantha S.	Nair, Ganesh K. V.	Nakagawa, Mayumi	Ochoa, Daniela
Lee, M. Mimi	Lyle, Robert E.	Marx, Douglas	McKenzie, Rachel	Nalleballe, Krishna Chaitan	Nalleballe, Krishna Chaitan	Ochoa, Eduardo R. Jr.
Lee, Ronnie D.	Lynch, Ashley	Marzewski, David J.	McKenzie, Allan	Nalley, Charles Corbett	Naoman, Shzha Gul	Oddson, Terrence A.
Lee, Vincent	Lynch, Gregory Logan	Masangkay, Neil	McKenzie, Gregory	Nalley, Charles Corbett	Napolitano, Charles A.	Oden, Jon David
Lefler, Mark W.	Lynch, John	Masel, Brian	McKenzie, James M.	Naoman, Shzha Gul	Narciso, Philipp	Oglesby, Walter R.
Lemdjia, Mimo Rose	Lynn, W. Steve	Mashburn, William R.	McKnight, C. Allen	Napolitano, Charles A.	Narisey, Keerthy	Okeye, Christian Chine
Lendel, Irina	Lyons, Karen	Mason, J. Zachary	McKnight, William D.	Narisey, Keerthy	Nash, Gary Monroe Jr.	Olgaard, Ericka Jane
Lendel, Vasilii	Lyons, Lewis Clinton III	Mason, Sharron	McLaughlin, Jennifer Ashley	Nash, Gary Monroe Jr.	Nassiri, Louay K.	Oliphant, Sallie
Leonard, Donald G.	Lyons, Virgile E. Jr.	Mason, Stephen	McLaughlin, Shannon	Nassiri, Louay K.	Nay, Samuel	Oliver, Robert J. Jr.
Lepore, Diane G.	Lytle, Jim E.	Mason, William L.	McLeane, Mark	Nay, Samuel		Oltmann, Michael
Levin, Frederick R.	Lytle, John O.	Masood, Asif	McLellan, Matthew B.			Olumofin, Olabode

Ong, Shirley	Payne, Cheryl L.	Pope, David N.	Ransom, C. E. Jr.	Roca, Henri III	Salvador, Ester A.	Sellers, Elizabeth Ann
Onisei, Anna M.	Payne, Michael II	Pope, Kevin L.	Rao, Aravind N.	Rocha, Carlos B.	Samant, Rohan S.	Sellers, Matthew A.
Onisei, Ducu F.	Payton, Terry	Pope, Norton	Rao, Arun R.	Rockacy, Jeffrey W.	Samanta, Debopam	Sethi, Rajesh
Onteddu, Sanjeeva Reddy	Peacock, Loved M.	Porter, Jeremy Adam	Rapp, Richard J.	Rodgers, Chad T.	Samman, Zaki A.	Seupaul, Rawle Anthony
Orsburn, H. Madison	Peal, Gabriel M.	Porter, Lewis E.	Rasberry, Ronnie D.	Rodgers, Charles H.	Samms, Donald P.	Sexton, Jon A.
Orsini, Alexander N.	Pearce, Charles E.	Porter, Revel D.	Rasmussen, Daniel Eugene	Rodgers, Drew	Sams, Joseph O. IV	Sexton, Kevin
Osam, Patrick N.	Pearce, Larry W.	Porter, Robert A. Jr.	Rasool, Shuja	Rodgers, Kenneth F.	Samuel, Ferdinand K.	Shaddox, T. Stephen
Osborne, Rebecca L.	Pearce, Malcolm B.	Portilla, Maria G.	Ratcliff, John B.	Rodgers, Porter R. Jr.	Sanders, Cal R.	Shafizadeh, Stephen Faraz
Osleber, Lindsay Hayat	Pearson, Richard N.	Post, Ginell Ristic	Rauls, Stephen R.	Rodrigues, Barbara N.	Sanders, James W.	Shah, Arjav Jayendra
Osleber, Michael Frederi	Pece, Kristin Rose	Post, James M. Jr.	Ray-Griffith, Shona	Rodriguez, Analiz	Sanders, Robert E.	Shah, Hemendra R.
Ostrom, Anna Truss	Peck, Cole Stephens	Poteet-Schwartz, Kim L.	Rayburn, Khalid	Rodriguez, Virginicia	Sanders, Ronald Jr.	Shahim, Reza
Ota, Winston Yoshio	Peeples, Samuel W.	Potts, Michael E.	Rayburn, John	Rogers, Becky J.	Sanders, Scott	Shahriari, Sia
Othman, Randa N. A.	Peeples, Guy L.	Pouly, Severin Marcel	Rayburn, S. Thomas III	Rogers, Elizabeth Jeann	Sandlin, Adam T.	Shaik, Sadiq Sherieef
Otter, Laura Marie	Peeples, R. Earl Jr	Pounders, John Philip Jr.	Raymond, Thomas H.	Rogers, Henry B.	Sanford, Joseph Jr.	Shalin, Sara Christine
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