WAGR Spectrum Care Model for Health Management and Wellness Promotion • Refer to specialists to establish baseline health profile, immediate care needs, and phenotype characteristics • Diagnostic work-up should be guided by specialty Genetics team PATIENTS AND • Patients without molecular confirmation and WAGR Spectrum phenotype should receive clinical diagnosis FAMILIES • Perform imaging to assess and diagnose internal GU anomalies and/or abnormalities with organs (CAKUT, PATIENT **ADVOCACY** • CORE SPECIALISTS: Pediatrician, Genetics, Nephrology, Urology, Oncology (or Cancer Predisposition) **GROUPS (IWSA)** • SPECIALISTS THAT MAY BE INVOLVED: Cardiology, Endocrinology, Neurology, Pulmonology, and/or • Coordination between patient/family and 'primary home' (pediatrician) and 'specialty home' (care teams) to PROMOTE PRIMARY WELLNESS IN CARE WAGR SPECTRUM • Determine other care needs and follow-up schedule for monitoring and/or treatment (Core Specialists) • CORE REFERRALS AND CARE TEAMS: Specialists should be determined on patients' unique needs Evaluation, Screening, Treatment, PEDIATRICS • REFER TO PSYCHOSOCIAL AND DEVELOPMENTAL SUPPORT SERVICES and Support to Achieve Optimum • Monitor and refer patients to developmental support services to manage Range of behavioral, emotional, and Health in WAGR Spectrum Provide contact information for International WAGR Syndrome Association (IWSA) • **GOAL:** Early detection and treatment to mitigate long-term organ damage and adverse health consequences • Perform routine 'health profile' assessments to evaluate status and determine WAGR Screening Program **SPECIALIST** CARE TEAMS • Prompt referral to additional specialists if issue detected or progression of issues • **KIDNEY HEALTH:** Preserve kidney function and prevent damage; Monitor and screen for UTIs, tumor growth, RESEARCHERS • CARDIOMETABOLIC HEALTH: Manage weight to prevent obesity; Monitor cardiac health profile. • EYE HEALTH AND VISION: Use artificial tears frequently (preservative-free eyedrops whenever possible); • HEARING: Consider performing routine hearing evaluations; Preserve hearing status and initiate support to

(A) Comprehensive Work-Up and Diagnostic Approach

• ESTABLISH THE CORRECT DIAGNOSIS

- (continue work-up)

BASELINE HEALTH PROFILE ASSESSMENTS

- tumors, etc)
- Others as needed for patient

(B) Establish Medical Homes, Individualized Care Plan, and Support Resources

MEDICAL HOMES AND SPECIALIST TEAMS

- manage issues
- CREATE INDIVIDUALIZED CARE PLAN
- Initiate WAGR Spectrum Screening Program

- cognitive issues

(C) Care Management and Screening to Improve Long-Term Outcomes

- STRATEGIES:
- follow-up schedule
- Kidney Disease (CKD), or other abnormalities
- Avoid cataract removal unless functional vision blocked
- improve quality of life

SPECIALTY HOME

GENETICS

		(A) Summary of General Recommendations for Screening P	rograms
G	eneral Recommendations	for Screening Programs in Patient Populations	App
Children with Predisposition to Wilms Tumor (2016 AACR Childhood Cancer Workshop ¹)	 'These recommendations detection is minimally invaluence of the second second	 Lifetime risk for W risk is conceivable) >50% of patients v and/or NR during the Risk Strat 	
Early Identification and Intervention of Chronic Kidney Disease (2019 KDIGO controversies	 Conclusion 1: 'Persons with <u>hypertension</u>, <u>diabetes</u>, or <u>cardiovascular disease</u> should be screened for CKD.' Conclusion 2: 'CKD screening and treatment programs should also be implemented in other high-risk individuals and <u>populations based on comorbidities</u>, <u>environmental exposures</u>, or <u>genetic factors</u>.' Conclusion 3: 'The initiation, frequency, and cessation of CKD screening should be <u>individualized</u> based on kidney and CVD risk profiles and <u>individual preferences</u>.' 		
conterence ²)		trasonogranhy Screening Recommendations for Patients with V	WACR Spectrum
Birth or Diagnosis	Full Abd US Pelvic US	Initiate WAGR Spectrum Screening Program: (1) Evaluate baseline kidney and organ signs of NR, nephroblastomatosis, or WT growth and/or potential early UTI to determ	status; (2) Diagnose (nine follow-up screeni
Patient Age Groups	Interval and Screening Techniques	Tumor Screening Management Aspects	Ge
<8 years of age	3-month RUS*	Monitor high risk for WT, nephroblastomatosis, and/or NR; Manage risks for other adverse kidney issues	
8 th birthday	Full Abd US Pelvic US	Evaluate for other abdominal and/or internal GU tumors or abnormalities; Determine follow-up interval for RUS	GOAL: EARLY DE
8 years - 15 years	3- or 6-month RUS*	Evaluate kidney health status and RUS follow-up interval; Monitor risk for CKD and/or potential risk for WT, Nephroblastomatosis and/or NR	(1)Diagnose and mana(2)Screen/Work-Up page
15 years - 18 years	6-month RUS*	Evaluate kidney health status and RUS follow-up interval; Monitor risk for CKD and/or possible risk for WT, Nephroblastomatosis and/or NR	(3)Monitor CKD statu treatment
18 th birthday	Full Abd US Pelvic US	Evaluate for other abdominal and/or internal GU tumors or abnormalities; Determine follow-up interval for RUS	(4)Prevent or mitigate severe kidney failure
>18 years of age	Annual RUS*	Monitor overall kidney health status and CKD signs; Manage possible lifetime WT risk	
	Frequency Intervals Sugg	gested and Considerations for Implementation	Ρι
1-month and/or 2-month interval	Patients with history of recen Provides shorter duration to e etiology for clinical signs)	t UTI or recurrent UTIs to monitor treatment as determined by medical care team evaluate clinical issues or concern for CAKUT, WT, CKD (may provide underlying	More frequent for particular than 3-month interval
3-month interval	Necessary for patients designated as 'high risk' for WT based on age (<8 years) and/or clinical characteristics (history of previous WT or NR); Can also assist monitoring CAKUT issues and provide early signs of CKD development and/or progression; Preferences of care team and patient/family should be considered		
6-month interval	Interval period for patients between 8-18 years that do not meet consideration for 3-month frequency Consider implementing more frequent interval for those with clinical issues identified at annual screen and/or if preferences of care team and patient/family direct more frequent screening intervals		
Annual interval	Necessary minimum interval CKD health status; Preferenc	to screen for CKD and WT in patients >18 years with stable cardiometabolic and es of care team and patient/family should be considered	Routine CKD monitor

CAKUT and/or internal GU anomalies; (3) Look for ing required for patient

plication to WAGR Population

T cannot be estimated in WAGR Spectrum (>1%)

with WAGR develop WT, nephroblastomatosis, their lifetime

tifications by Age for WAGR Spectrum:

High risk (<8 years) Potential risk (8-15 years) Possible risk (>15 years)

tabolic profiles (CVD and Obesity) and CKD are ts with and without history of WT for abnormal kidney consequences due to 11p13 h issues in patients with WAGR Spectrum

eneral Kidney Health Aspects

TECTION AND TREATMENT

age CAKUT

otential UTIs, CKD, or other signs of kidney damage us and progression to determine and evaluate

cardiometabolic consequences that contribute to e and ESRD

urpose of Screening Interval

atients with clinical signs to enable earlier detection

g and UTI monitoring

KD monitoring or screening

ring and long-term WT screening