

"Good Health" Checklist

The basics of a healthy adult life for someone with Prader-Willi Syndrome (PWS) include a healthy, appropriate eating plan and regular, effective physical activity to avoid obesity, to keep the body fit and to maintain good mental health. Before any of these can be achieved the people working with the person who has PWS must have a good understanding of the complexities of the syndrome.

This "checklist" is to assist you in maintaining good health for your person with PWS. It is to be shared with other family members, professionals and caregivers who are involved with your person with PWS.

PWS is a genetic disorder which, due to a lack of expression of particular genes on the 15th chromosome. It effects several systems in the body. Below are listed some common problems seen in people with PWS, what the effect of the problem is on health and how it needs to be monitored or treated.

Changes in physical health are often only detected or suspected because of changes in general behaviour so it's important to know what to be aware of and what to check!

System/organ	Effect	Monitor / Watch / Treat
Appetite regulation	Always wanting to eat / drink	Food & beverages must be limited
	Abnormal interest in food	Overweight / obesity
	Overeating	
Behaviour	Often perceived and misunderstood by	Requires appropriate management strategies
	others to be mood or mental illness.	and rarely, medication, unless due to a
	Often occurs because of stress and lack of	diagnosed mental illness, which can occur in
	appropriate support	people with PWS.
Bladder	Poor emptying often seen	Timed toileting
	Obesity may increase urinary tract	Increase awareness of full bladder feeling /
	infections(UTI) &/or incontinence	empty bladder feeling
		Confusion may indicate UTI
Body fat - increased (with	Overweight and obesity can lead to	Energy intake must be limited
less muscle) even with	serious complications	Exercise must be a part of life
healthy weight		Walking daily for 1 hour is simple & effective
Bone density (BD)	Often reduced due to reduced hormone	Maintain adequate calcium & Vitamin D intake
	levels, decreased muscle mass and too	and check blood levels.
(and bone strength)	little physical activity. Low BD increases	Check bone mineral density every 2 years.
	risk of fractures.	Helped by regular weight bearing exercise.
Bowel	Constipation is common and may lead to	Maintain regular fluid intake.
	bowel or urinary incontinence, rectal	May require daily low dose laxative.
	picking and slow stomach emptying	Helped by exercising after eating.
		Prevent over-consumption of fibre.
Diabetes Mellitus (DM)	Often develops as a result of obesity but	Maintain a healthy weight & regular exercise
	also seen in normal weight	to prevent DM.



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	Poorly controlled DM can cause	Check fasting blood glucose levels (BGL) every
	undersirable weight (muscle) loss, renal	6-12 months.
	failure and loss of vision.	If known DM exists check HbA1C (average BGL
		of past 6-8 weeks) every 3-6 months.
Fore and bearing	Lack of concentration or recommendation	
Ears and hearing	Lack of concentration or response may	Check with ageing as person with PWS may
	indicate the development of hearing loss,	not be able to express loss of hearing.
	or psychoses	If acutely impaired check for infection first.
Eyes	Strabismus (abnormal alignment of eyes,	From birth or a change in vision with age
	squint); short/long sightedness	Check eyes every 2 years
Feet / legs	Can develop oedema and cellulitis then	Maintain a healthy weight
	severe infections, when obese or inactive.	Maintain daily activity / exercise
	Feet , hip, knee abnormalities (from birth)	Check regularly for sores and infections
	can worsen with weight gain and ageing	especially if swollen or poor circulation
Lungs	Obesity, reduced breathing mechanics,	Maintain healthy weight
	scoliosis, and kyphosis can cause reduced	Maintain daily activity /exercise
	oxygen consumption.	
	Obesity & inactivity can lead to	Medical check is required if exercise tolerance
	pneumonia, lung infections and	is poor or deteriorates.
	respiratory failure. Asthma can also occur	Blood oxygen levels may need to be checked.
Mental illness	Depression, psychosis, mood disorders	Require psychiatric assessment and may need
		treatment with medication.
		Due to brain dysfunctions in PWS dose-
		response and side-effect susceptibility are less
		predictable so lower initial doses are
		recommended.
Mouth	Reduced saliva causes dry, sticky mouth	Poor dental hygiene – dental erosion
	Reflux from stomach can harm teeth	Requires regular, effective cleaning and
	(may need antacid medication)	regular visits to a dentist.
Muscle -	Weaker muscles, unstable joints	Poor posture, slower mobilisation, reduced
Reduced strength & tone	Scoliosis, kyphoisis	breathing mechanics (worse with obesity)
U U		Requires strengthening exercises.
Reduced muscle mass	Increased sensitivity to some medications	Dose of some medications, when newly
	,	prescribed, should be lower than usual
Pain tolerance - high	Complaints of real pain are rare	Undetected illness or injury from accidents
	Real pain is often indicated by change in	All pain complaints must be investigated to
	behaviour or activity level	exclude a cause & prompt diagnosis
	Check all swollen red areas of body if a	Insist on x-rays /other investigations after
	fall or traumay has occured	trauma or appearance of ill health or pain.
Sequential processing	Poor personal hygiene — infections	Encourage thorough washing of body
Sequential processing		May require assistance or visual cues
		way require assistance of visual cues





Sex hormones	Lack of, or reduced sexual maturity	Yearly sex hormone (androgen) blood test
Are reduced		from 15 years of age
	Replacement required for bone health	Testosterone replacement (males - start with
		low dose)/oestrogen replacement - females),
		as required
Skin picking	Sores & infections	Cut fingernails every week,
		keep hands busy to distract from picking.
Sleep apnoea	Daytime sleepiness (occurs in PWS even	To be assessed by sleep/respiratory specialist -
(pauses in breathing while	without sleep apnoea), lack of	may need positive airway machine or longer
sleeping)	concentration, excess irritibility	sleeptime at night.
	Can worsen with weight gain	
Stomach & Intestines	Distended stomach	Complaints of "discomfort" from bloating and
Slow empytying of stomach	Loss of appetite – no desire to eat (often	dilatation of stomach or loss of appetite
and reduced intestines	only symptom – must investigate!)	Risk of gastric necrosis – death of stomach
passage time often occurs	Vomiting, rarely seen in PWS, often	tissue due to reduced blood flow to stomach
in people with PWS	indicates serious illness	wall. Requires urgent medical treatment.
Temperature (body) – poor	Inappropriate clothing for weather	Assist with choice of clothing for hot/cold
regulation and sensation	Can suffer from hypo or hyperthemia	weather
	Infections, but no fever	
		If generally unwell, CHECK FOR INFECTION
		with or WITHOUT raised body temperature /
		fever
Water intoxication	Will lead to electrolyte imbalance	Do not allow unlimited fluid intake
	which may cause seizures	
YEARLY MEDICAL CHECKS	May need to be insisted on by famliy	Check weight, waist measurements, blood
	members for their person with PWS	pressure, lung function, teeth, posture.
		Annual blood tests are recommended from
		the age of 15 years.
		Ask for: bichemistry (including calcium,
		cholesterol, glucose), iron studies (including
		iron), endocrine (including sex hormones,
		thyroid, Vitamin D,)

Do not be afraid to seek a medical assessment for your person with PWS if you are concerned in any way about their health, due to changes in their manner or behaviour. Always provide information about PWS for the doctor or medical professional who is seeing your person with PWS, remembering that PWS is not well-known and includes specific traits that must be understood before treatment is prescribed. People with PWS need the ears, eyes and voice of the person with whom they live, to maintain good health and lonvgevity!

