

Newborn Myelomeningocele

Pre-natal Repair

Post-natal Repair

Recommendation if born at outside hospital for pre-natal repair

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Born at CMH?

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Incision Management:

- Routine skin care, if patch is exposed then skin care per neurosurgeon evaluation and recommendation

Consult:

- Neurosurgery
- Urology when there is hydronephrosis (UTD 2 and above)
- Rehab
- Spinal Differences Coordinator
- OT for feeding issues (if needed)
- Orthopedics at direction of rehab team

Antibiotics:

- UTI prophylaxis (ampicillin or cephalexin) if any hydronephrosis on renal US

Imaging:

- MRI Brain Rapid Sequence
- MRI Spine (Full)
- Renal Ultrasound
- Head Ultrasound if unable to obtain MRI

Clean Intermittent Catheterization (CIC)

Preoperative Care

Spinal Defect Management:

- Telfa then saline-soaked gauze, then secure with Saran Wrap

Consult:

- Neurosurgery
- Urology when there is hydronephrosis (UTD 2 and above)
- Rehab
- Spinal Differences Coordinator
- OT for feeding issues (if needed)
- Orthopedics at direction of rehab team

Antibiotics:

- Ampicillin and gentamicin until repaired
- UTI prophylaxis (ampicillin or cephalexin) if any hydronephrosis on renal US

Preoperative Imaging

- MRI Brain Rapid Sequence
- MRI Spine (Full)
- Renal Ultrasound
- Head Ultrasound if unable to obtain MRI

Post Op Management:

- Head ultrasound POD 1
- Daily head circumference
- Wash incision POD 2
- No Scalp IV**

Hydrocephalus Treatment?

Discharge Readiness:

- Orally feeding
- Safe sleep plan established
- Incision care plan per neurosurgery
- Complete family teaching: Family teaching resources

Repair occurs day of life 1-2 if clinically stable per Neonatology and Neurosurgery assessment

Back Incision Management

- Postoperative positioning prone for 48h, then check with attending neurosurgeon for further duration
- Mud flap

Hydrocephalus Treatment?

CIC

- Renal Bladder Ultrasound
- Head ultrasound POD 1
- Daily head circumference
- Wash incision POD 2
- Additional head imaging maybe needed per neurosurgery
- No Scalp IV**

Additional head imaging maybe needed per neurosurgery

- CIC
- Renal Bladder Ultrasound

Discharge follow up appointments (timing):

- PCP (outpatient head circumference, weight gain follow-up and early referral prn)
- Spinal Differences Clinic (SDC) (3 months from discharge)
- Neurosurgery (follow up sooner than 3 months if concerns of incision issues or hydrocephalus, otherwise 3 months at SDC)
- Urology (3 months at SDC)
 - Early intervention (PT/OT/Speech)

Discharge Readiness:

- Orally feeding
- Safe sleep plan established
- Incision care plan per neurosurgery
- Complete family teaching: Family teaching resources

Hydrocephalus Treatment?